Reliance
Industries Limited

RIL-DMD/HSEF/ENV/2024/69

Date: 25th November, 2024

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office,
A Wing – 407 & 409, Aranya Bhawan,
Near CH - 3 Circle, Sector - 10A,
Gandhinagar, Gujarat – 382 010

Subject: Submission of Compliance Status Report of EC's received by RIL – Dahej manufacturing Division for the period April 2024 to September 2024.

Reference:

1. EC Order no. J-11011/27/90-IA-II dated 14th March 1991
2. EC Order no. J-16011/45/96-IA-III dated 26th December 1996
3. EC Order no. J-11012/11/97-IA-II dated 21st May 1998
4. EC Order no. J-11011/482/2006-IA-II (I) dated 11th June 2007
5. EC Order no. J-11011/402/2007- IA II (I) dated 20th March 2008
6. EC Order no. SEIAA /GUJ/EC/5(e)&1(d)/124/2011 dated 23rd June 2011
7. Amendments in EC No. SEIAA / GUJ/ EC/ 5(e) & 1(d)/160/2011, dated 09th August 2011 and No. SEIAA / GUJ/ EC/ 7(e)/278/2011, dated 13th September 2012
8. EC Order no. SEIAA/GUJ/EC/1(d)&7(e)/96/2015 dated 02nd March 2015
9. Amendment in EC No. SEIAA/GUJ/EC/1(d) & 7(e)/583/2016, dated 28th September 2016
10. EC Order no. J-11011/39/2016-IA-II (I) dated 3rd April 2017
11. EC Order no. J-11011/39/2016-IA-II (I) dated 19th August 2021

Dear Sir,

Please find attached herewith the point wise compliance to the Environment Clearances granted to Reliance Industries Limited – Dahej Manufacturing Division (earlier known as IPCL - Gandhar Petrochemical Complex) by MoEF&CC and SEIAA, Gujarat (referenced above).

Please refer to the annexures number mentioned against the compliances from the common annexure file.

We hope that the above is in line with your requirements and request to kindly acknowledge the receipt.

Thanking you,
For **RELIANCE INDUSTRIES LIMITED**

Raja Raman Chaudhary
Head Environment

Encl.: As above

Cc,
The Member of Secretary,
State Environment Impact Assessment Authority (SEIAA), Gandhinagar

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Gandhar Petrochemical Complex of Indian Petrochemicals Corporation Limited - Environmental Clearance
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	J-11011/27/90-IA-II
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/27/90-IA-II

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
3	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
4	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
5	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
6	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
7	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
8	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
9	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
10	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
11	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
12	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
13	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
14	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
15	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
16	Dilute H2SO4	Tons per Annum (TPA)	N/A	4,600	3,382	
17	HCl	Tons per Annum (TPA)	N/A	15,000	9,282	
18	EO	Tons per Annum (TPA)	N/A	1,50,000	62,371	
19	EG	Tons per Annum (TPA)	N/A	3,08,350	1,42,557	
20	Di Ethylene Glycol	Tons per Annum (TPA)	N/A	30,550	14,864	
21	Tri Ethylene	Tons per	N/A	1,270	663	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Govt.

PPs Submission: Complied Stipulations made by the Gujarat Pollution Control Board vide CTO (Consent to Operate) / CCA (Consolidated Consent and Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to. The detailed compliance status report of Consolidated Consents and Authorization (CCA) granted by GPCB is enclosed as Annexure I.	Date: 21/11/2024

2	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions from various process units should conform to the standard prescribed by the concerned authorities from time to time. At no time the emission level should go beyond the stipulated standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should be put out of operation immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.

PPs Submission: Complied The gaseous emissions from various process units are monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results given below indicated the conformance to the GPCB prescribed standards. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB norms. At no time the emission level has gone beyond the stipulated standards prescribed by GPCB during Apr-24 to Sept-24. The detailed Stack emission monitoring report is enclosed as Annexure III. Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger / alarm is raised in the DCS system which prevents the plant from restarting. During the period Apr-24 to Sept-24, no such failure of pollution control equipment has been observed. Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.	Date: 21/11/2024

3	AIR QUALITY MONITORING AND PRESERVATION	Adequate number (a minimum of six) of air quality monitoring stations should be set up in the downwind direction as well as where maximum ground level concentration is anticipated. Also stack emission should be monitored by setting up of automatic stack monitoring unit. VCM emission particular should be regularly monitored and reported. The emissions and ambient air quality monitoring should be analyzed statistically and reported every six months.

PPs Submission: Complied Adequate number of air quality monitoring stations are set up. The site has established 7 ambient air quality monitoring stations within and outside of the petrochemical complex based on the mathematical modelling studies carried out considering wind directions and the maximum Ground Level Concentration in downwind direction. Mathematical modelling report along with AAQM location map can be seen in Annexure V. Ambient air monitoring is carried out twice a week at each location through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Summary of the AAQ monitoring results and Detailed AAQ Monitoring Report of Apr-24 to Sept-24 is enclosed in Annexure VI. All results are conforming to the standards prescribed by GPCB norms. Online analyzers for Stack emission monitoring are provided. VCM emissions are being monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the monitoring report is submitted to GPCB on monthly	Date: 21/11/2024

		basis. VCM emissions summary for the period Apr-24 to Sept-24 is given in condition no 4. Stack monitoring reports for detailed monitoring results of VCM are included in Annexure III. The emissions and AAQ are being monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the monitoring results are analyzed statistically in terms of percentile of 10, 25, 50, 75 and 98. The report of the stack emission and AAQ reports are submitted every month to GPCB and six monthly to Regional Office of MoEFCC. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB norms. A summary of the ambient air monitoring results with its statistical analysis of Site Guest House location and detailed Ambient Air Quality Monitoring Report including other locations is available in Annexure VI.
4	AIR QUALITY MONITORING AND PRESERVATION	There should be no change in the stack design without the approval of Pollution Control Board. Alternate Pollution Control System and proper design (Steam injection system) in the stack should be provided to take care of excess emission due to failure in any system of the plant.
	PPs Submission: Complied No change in the stack design is carried out during Apr-24 to Sept-24. Further no change will be carried out without the approval of Pollution Control Board. Sufficient buffer capacity is inbuilt in the installed pollution control system with proper design to take care of excess emission due to failure in any system of the plant. Steam injection system is provided in the flare stacks as well in Gas turbines for reducing NOx generation.	Date: 21/11/2024
5	MISCELLANEOUS	The incinerator should have a stand-by system for unforeseen circumstances.
	PPs Submission: Complied There are three incinerators in VCM plant, of which one is on standby and can be used during any unforeseen circumstances.	Date: 21/11/2024
6	WASTE MANAGEMENT	The project authorities should recycle the waste to the maximum extent and liquid effluent coming out of the plants should meet the stipulated standards. There should be only minimum discharge.
	PPs Submission: Complied Recycling of wastes is practiced to maximum extent both internally and by selling to authorized recyclers as per CCA order no AWH-121992 dated 25th November 2022, granted by GPCB and valid till 3rd November, 2026. The treated effluent is being monitored every month through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the same is conforming to the GPCB standards for the period Apr-24 to Sept-24. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The detailed treated effluent monitoring report is enclosed as Annexure VII. All the parameters of effluent quality are conforming to the standard stipulated by GPCB. Treated effluent is being recycled within the complex as Cooling tower make up, green belt development. From the data provided in the above mentioned annexure it is clear that the Effluent recycling is done to maximum extent for minimizing discharge from the complex.	Date: 21/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	The liquid effluent to be discharged into the sea should maintain a temperature difference of not more than 50C as compared to sea water temperature
	PPs Submission: Complied The liquid effluent discharged into the sea maintains temperature difference of less than 5 deg.C as compared to sea water temperature. Guard pond is provided to store the treated effluent to attain atmospheric temperature before discharging into the sea.	Date: 21/11/2024

8	WATER QUALITY MONITORING AND PRESERVATION	Only sea water should be used for cooling purposes. The project authorities should not draw more than 22 MGD through the jack-up-well in Narmada. In case the flow in Narmada falls below the 2000 cusecs at any point of time alternate arrangements will be made by RIL for obtaining the required quantity of water which may include sea water for cooling purposes and for which plans will be submitted along with comprehensive EIA.

PPs Submission: Complied Ministry has amended this condition after our representation to them and allowed us to use fresh water for cooling purposes, which is complied. Average Fresh water drawl from the jack well in the Narmada river for the reporting period Apr-24 to Sept-24 was 13.92 MGD, which is not exceeding the permissible limit for water drawl of 22 MGD. In case of water shortage in Narmada river water, RIL-DMD complex has contingency plan to cater the water requirements e.g. 1. If required, shutting down some of the process units which consumes more water. 2. Maximize the recycling of treated effluent including sewage. 3. Water requirement for the plants / green cover will be minimized by considering seasonal requirements during water shortage period.	Date: 21/11/2024

9	WATER QUALITY MONITORING AND PRESERVATION	Adequate number of effluent quality monitoring stations must be set up in consultation with the State Pollution Control Board and the effluents monitored should be statistically analysed and the report sent to the Ministry every six month

PPs Submission: Complied Effluent quality monitoring station provided at the inlet and outlet of ETP in consultation with the Gujarat Pollution Control Board. The effluent monitoring reports are submitted to GPCB on a monthly basis and to the ministry on six monthly basis. The details of quality of treated effluent is furnished in earlier condition (condition no. 8).	Date: 21/11/2024

10	WATER QUALITY MONITORING AND PRESERVATION	A study should be conducted with the help of National Institute of Oceanography with regard to breeding and spawning habits of fishes and accordingly the marine out fall should be designed

PPs Submission: Complied Study related to breeding and spawning habits of fishes was carried out through National Institute of Oceanography by Erstwhile IPCL and accordingly the marine out fall was designed.	Date: 21/11/2024

11	WATER QUALITY MONITORING AND PRESERVATION	Routine toxicity bioassay based on the effluent with sea-fish and fish-food organism must be carried out at least once in a year

PPs Submission: Complied Bioassay test for monitoring toxicity is conducted in the laboratory with the test containers for the treated effluent. The local fishes are taken as the Testing animal for this experiment and the test is carried out in the laboratory as per the IS 6582. Result of 93 percent survival of fish after 96 hours in 100 percent effluent is achieved for the review period of Apr-24 to Sept-24. The analysis results of Bioassay test are provided in earlier condition (condition no. 8).	Date: 21/11/2024

12	WATER QUALITY MONITORING AND PRESERVATION	The treated effluent conforming to the prescribed standards should be utilised for green belt development to the maximum extent possible.

PPs Submission: Complied The treated effluent conforming to GPCB standard is utilized for green belt development and also for cooling tower make up to the maximum extent possible.	Date: 21/11/2024

13	GREENBELT	The green belt design should be finalised and got approved from this Ministry within a period of one year

PPs Submission: Complied The green belt was designed by NEERI and it was developed as per guidelines given by NEERI.		Date: 21/11/2024
14	WASTE MANAGEMENT	The project authority should prepare a well-designed scheme for solid waste disposal generated during various processes operation or in treatment plant. The plan for disposal should be submitted to the Ministry within two years.
PPs Submission: Complied Hazardous and other solid wastes generated at site is being managed in accordance with the amended Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016. Authorisation (AWH-121992) from GPCB for collection / treatment / storage / disposal of hazardous wastes is available which is valid up to 3rd November, 2026. M/s. National Productivity Council (NPC), New Delhi was retained by Erstwhile IPCL for providing the design of the solid waste management system and the solid waste disposal plan was submitted to the Ministry. Hazardous and solid wastes collected, stored and disposed during reporting period Apr-24 to Sept-24 is given in Annexure VIII. Please refer Form - 4 submitted to GPCB for the year 2023-24 enclosed as Annexure IX.		Date: 21/11/2024
15	WATER QUALITY MONITORING AND PRESERVATION	Ground water near the solid waste disposal site as well as around the plant should be regularly monitored.
PPs Submission: Complied Ground water quality is being monitored near the solid waste disposal site as well as around the plant using 8 bore wells. The summary of Ground water monitoring results of Bore Well-1 for the period Apr-24 to Sept-24 is enclosed in Annexure X along with detailed monitoring results for each month.		Date: 21/11/2024
16	Risk Mitigation and Disaster Management	A detailed risk analysis based on Maximum Credible Accident Analysis should be done once the process design and lay-out is frozen. Based on this a disaster management plan has to be prepared and after approval by the concerned nodal agency, should be submitted to this Ministry
PPs Submission: Complied Detailed Risk Analysis considering Maximum Credible Accident Analysis scenario is carried out for the site based on which the Disaster Management Plan (i.e. On-site Emergency Plan and Off-site Emergency Plan) is prepared for the complex. The DMP is approved by the DISH. The DMP is reviewed periodically.		Date: 21/11/2024
17	Risk Mitigation and Disaster Management	The storage tanks and spheres must conform to the stipulations made by the Chief Inspector of Factories, Controller of Explosives etc. Wherever required, it should be supplemented by OISD codes.
PPs Submission: Complied Storage tanks and spheres conform to the stipulations made by Legal authorities like the Chief Inspector of Factories, Controller of Explosives and meet the requirements of OISD. Controller of Explosives, Nagpur has issued license for petroleum storage and gaseous storage. Storage of chemicals is carried out as per the approved quantity from PESO. Details of the same is enclosed as Annexure XI.		Date: 21/11/2024
18	MISCELLANEOUS	A separate environmental management cell with suitably qualified people to carry out various functions should be set up under the control of Senior executive who will report directly to the head of the organization.
PPs Submission: Complied A separate Environment Cell, headed by Environment Head with environment qualification and 17		Date:

plus year experience. The cell is supported by 3 qualified Environment professionals (Env. Engg.) Environment Head report to site president.			21/11/2024
19	MISCELLANEOUS	The project authority must set up a laboratory facility for collection and analysis of samples under the supervision of competent technical personnel who will directly report to the Chief Executive.	
PPs Submission: Complied RIL-DMD has a full-fledged Quality Assurance (Laboratory) dept., manned with qualified Lab-technicians under the supervision of competent and well-experienced managers who also carry out the sample analysis. The Laboratory Head directly reports to the Technical Head of the complex. For the glimpse of Quality Assurance Department, please refer Annexure XII.			Date: 21/11/2024
20	MISCELLANEOUS	The villagers who are likely to be displaced due to setting up of the project should be rehabilitated as per Govt. of India Guidelines, or State Govt. guidelines whichever is acceptable to local population. Rehabilitation Master Plan should be submitted and got approved within 6 months of this approval	
PPs Submission: Complied Rehabilitation plan submitted and approved in the EIA of the complex.			Date: 21/11/2024
21	MISCELLANEOUS	The funds earmarked for the environmental protection, measures should not be diverted for other purposes and year-wise expenditure should be reported to this Ministry.	
PPs Submission: Complied Dedicated Environment management funds are allocated each year and it is not diverted for any other activities at the plant. The recurring environmental expenditure for the reporting period Apr-24 to Sept-24 was around INR 56.7 Crores. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores			Date: 21/11/2024
22	MISCELLANEOUS	The Ministry or any other competent authority may stipulate any further condition after reviewing the comprehensive impact assessment report or any other reports prepared by project authorities	
PPs Submission: Complied The Ministry or any other competent authority has not added any conditions to this EC. However, the expansion of plants was carried out after obtaining Environmental Clearance from MoEFCC / SEIAA as detailed in earlier condition (condition no. 2).			Date: 21/11/2024
23	MISCELLANEOUS	The Ministry may revoke clearance if implementation of the stipulated conditions is not satisfactory.	
PPs Submission: Complied This condition is not applicable to us.			Date: 21/11/2024
24	MISCELLANEOUS	The above conditions will be enforced interalia under the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act 1981, and Environment (Protection) Act 1986, along with their amendments.	
PPs Submission: Complied Noted.			Date: 21/11/2024

25	Statutory compliance	Any expansion of the plant, either with the existing product mix or new product can be taken up only with the prior approval of this Ministry.
PPs Submission: Complied All expansions of the plant, either with the existing product mix or new product at RIL - DMD have been carried out with prior environmental clearance from MoEFCC / SEIAA and the same are listed in detail in Annexure XCI.		Date: 21/11/2024
26	MISCELLANEOUS	The project authority must submit comprehensive EIA report for the proposed activity along with the future activity proposed/approved by this Ministry, before July 1991
PPs Submission: Complied Comprehensive EIA study for the proposed activity along with the future activity proposed / approved by MoEFCC, have been carried out and completed in September 1991 and the report was duly submitted to MoEFCC by erstwhile IPCL.		Date: 21/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All Annexures are uploaded as Additional Attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Environmental Clearance for setting up of a captive jetty on River Narmada for the Gandhar Petrochemicals Complex (GPC) by Indian Petrochemicals Limited (IPCL)
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	J-16011/45/96-IA-III
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-16011/45/96-IA-III

Category	INFRA-1
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
3	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
4	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
5	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
6	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
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8	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
9	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
10	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
11	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
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13	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
14	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
15	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
16	Dilute H2SO4	Tons per Annum (TPA)	N/A	4,600	3,382	
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20	Di Ethylene Glycol	Tons per Annum (TPA)	N/A	30,550	14,864	
21	Tri Ethylene	Tons per	N/A	1,270	663	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Risk Mitigation and Disaster Management	To Meet any emergency situation adequate floating booms and dispersants for containment of oil and hydrocarbons should be provided with supporting firefighting system and water pipeline in addition to adequate number of fire and foam extinguishers in the fire prone areas. The firefighting system at site should be augmented by gas leak detection with early warning systems at strategic locations for meeting the emergencies and contingencies arising out of any accident. The details of these facilities to be provided by the proponent should be submitted to the Ministry by 31st January 1997. The personnel handling these devices must be properly trained for their operation by conducting regular fire drills to keep these facilities in working condition.

PPs Submission: Complied To Meet any emergency situation adequate floating booms and dispersants for containment of oil and hydrocarbons are maintained and other OSRP equipment's requirements are being maintained by external agency. For firefighting one 18 inches fire water line having monitors at different places and having capacity to discharge 3500 lpm water, foam generators, jumbo curtain, nozzle, fire tender equipped with all type of firefighting equipment and firefighting crew are provided at jetty. Sufficient numbers of leak detectors are provided near flange joints, etc. to detect any leak and give alarm in control room. One sailor make VHF communications system which is provided to communicate from jetty to plant and from jetty to ship. Beside this, other communication facility available at jetty is telephone and public address system. The details of these facilities were already provided by Erstwhile IPCL to the Ministry. The personnel handling the devices are properly trained for their operation, regular fire drills were conducted to keep these facilities in working condition.	Date: 21/11/2024

Sr.No.	Condition Type	Condition Details
2	Human Health Environment	Provisions of Dock Safety Act and guidelines issued by the DG, FASLI/CLI, Bombay for the safety and health of the workers should be followed.

PPs Submission: Complied RIL is following strict safety and health regulations for employees and workers at all the complexes as per mentioned requirements.	Date: 21/11/2024

Sr.No.	Condition Type	Condition Details
3	MISCELLANEOUS	Standby DG sets must be provided to ensure uninterrupted power supply to the environmental protection equipment’s and continuous water supply for the firefighting system.

PPs Submission: Complied Uninterrupted power supply for emergency lighting and instrument control panel is provided at jetty. Continuous water supply for firefighting system is also available.	Date: 21/11/2024

Sr.No.	Condition Type	Condition Details
4	MISCELLANEOUS	Third Party inspection should be ensured during construction and operational phases with adequate insurance cover. The authorities should confirm regular intervals of 6 (Six) months to the ministry endorsing a copy to the Regional office at Bhopal of this Ministry and offices of the Central and State Pollution Control Boards about the implementation of the suggested safeguard measures and the data/report should be made available for inspection by a team which would be constituted by the Ministry, if found necessary

PPs Submission: Complied It may please be noted that Engineers India Ltd (EIL), New Delhi, was our consultant for erecting jetty and supervised jetty construction. All our installation are adequately insured. Erstwhile IPCL	Date: 21/11/2024

had submitted the data / report about the implementation of the suggested safeguard measures to the Regional Office of Ministry at Bhopal and offices of the Central and State Pollution Control Board and the same is made available for inspection.		
5	MISCELLANEOUS	All the Constructions designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments/Agencies. Ground Water should not be tapped for construction work. Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. must be provided for all the laborers during construction period in order to avoid damage to the environment.
PPs Submission: Complied All the construction designs / drawings related to the proposed construction activities have approvals of the concerned State Government Departments / Agencies. No ground water was tapped for construction work. Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. were provided for all the laborers during the construction phase.		Date: 21/11/2024
6	Statutory compliance	To Prevent discharge of Sewage and other liquid wastes, adequate system for collection and treatment of liquid wastes must be provided. The quality of treated effluents, emissions and solid wastes must conform to the standards laid down by the state competent authority including Central/State Pollution Control Boards.
PPs Submission: Complied No waste is generated during loading / unloading operations. Drain vessels are provided to collect the material drained from loading arm after discharging of ship. The material will again be pumped back by main transfer line by means of submersible pump. Also, collecting trays have been kept underneath flange and drain points at jetty to collect any liquid coming out. Sanitary wastewater is diverted to septic tank-cum-soak-pit system.		Date: 21/11/2024
7	MISCELLANEOUS	An Environmental Management Cell, with suitably qualified staff to carry out various environment protection activities/measures must be setup to implement and monitor the programs.
PPs Submission: Complied A separate Environment Cell, headed by Environment Head with environment qualification and 17 plus year experience. The cell is supported by 3 qualified Environment professionals (Env. Engg.) Environment Head reports to the Site President.		Date: 21/11/2024
8	MISCELLANEOUS	Adequate Financial provisions must be made in the project to implement the aforesaid safeguards.
PPs Submission: Complied Adequate Financial provisions were made in the project to implement environment safeguards.		Date: 21/11/2024
9	GREENBELT	For development of green buffer, including mangroves wherever feasible, the authorities should start growing large number of multipurpose species such as Eucalyptus, Caserne, Dalbelgia, Termalia, etc. The norm of about 2000-2500 trees per ha. may be adopted for raising of green belt.
PPs Submission: Complied Mangroves plantation, along the river bank (near Erstwhile IPCL jetty) for a stretch of about 1 km from east (u/s of river) toward the estuary (west) where Narmada merge in to the Gulf of Cambay, was done in the year 1997-98. 3500 saplings were planted. However, the survival rate of this first plantation is very low due to many factors. Erstwhile IPCL had retained Gujarat Ecological Society (GES), Baroda to carry out the experimental plantation of mangroves in 2000-01. GES study found more sand then clay in the soil around jetty and that is why it is not conducive for the mangrove		Date: 21/11/2024

growth. A fresh attempt was again made by planting 2500 sapling of mangrove in association with local Forest Dept. in Dec-2005 at jetty. However growth of mangroves were reported poor as the soil was not conducive for the mangrove growth. During the year 2018, 2000 saplings of mangrove were planted. The growth is under care / observation. Photographs of Mangrove plantation carried out at Jetty can be seen in Annexure XIII.		
10	MISCELLANEOUS	In case of deviations or alterations in the project including the implementing agency, a fresh reference should be made to the Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents would be responsible for implementing the suggested safeguards measures.
PPs Submission: Complied Noted and will be complied with. No changes / deviations have taken place at the jetty during the review period.		Date: 21/11/2024
11	MISCELLANEOUS	This ministry or any other competent authority may stipulate any other conditions for environment safeguards, subsequently if deemed necessary, which should be complied with.
PPs Submission: Complied All the conditions for environment safeguards as stipulated by the Ministry or any other competent authority are being complied with. No additional condition has been imposed by the Ministry, during review period.		Date: 21/11/2024
12	MISCELLANEOUS	Full support should be extended to the officers of this Ministry's Regional office at Bhopal and officers of the Central and state pollution control boards by project proponents during inspection of the project for monitoring purposes by furnishing full details and action plans including action taken reports in respect of mitigative measures and other environmental protection activities.
PPs Submission: Complied Full support is being extended to the officers of the Ministry's Regional office at Bhopal and officers of the Central and State Pollution Control Boards by RIL DMD during any inspection of the project for monitoring purposes, whenever required.		Date: 21/11/2024
13	MISCELLANEOUS	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with to the satisfaction of the ministry
PPs Submission: Complied This condition is not applicable to us.		Date: 21/11/2024
14	Statutory compliance	All the conditions as stipulated by the GPCB vide their letter No. NOC/BRCH-1253/3193, dated 21st February, 1994 and the conditions stipulated by the GMB vide their letter No. GMB/N/GMP/182(8)/9330, dated February 24/25, 1994 and the conditions stipulated by the Chief Controller of Explosives, Department of Explosives, and Govt. of India vide their letter No. PN (8) IMP-IP, dated 19th December, 1994 must be strictly complied with,
PPs Submission: Complied All the conditions as stipulated by the GPCB, GMB, and CCoE are complied with.		Date: 21/11/2024
15	Statutory compliance	The Project Proponent shall undertake environmental monitoring regularly to monitor ambient air quality, noise and water quality of

		the river Narmada where the proposal is located and send six monthly reports to the regional office of this Ministry in Bhopal.
PPs Submission: Complied RIL has undertaken regular environmental monitoring to monitor ambient air quality, noise and water quality of the river Narmada. The site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex based on the mathematical modeling studies considering wind directions and the maximum Ground Level Concentration in downwind direction. Ambient air monitoring is carried out twice a week at each location through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Summary of the AAQ monitoring results and Detailed AAQ Monitoring data of Apr-24 to Sept-24 is enclosed in Annexure VI. All results are conforming to the standards prescribed by GPCB norms. Noise level at the site is monitored on monthly basis through MoEFCC and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. Ambient noise levels conform to the standard prescribed under EPA Rules, 1989 viz. 75 dBA (Day Times) and 70 dBA (Night time). Detailed noise monitoring report is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms.		Date: 21/11/2024
16	Risk Mitigation and Disaster Management	The project proponent shall also prepare off-site emergency plan along with on-site emergency plan and submit the same to the ministry before commissioning of the project and also conduct regular mock drills to ensure the facilities in working conditions.
PPs Submission: Complied Emergency Management plan is prepared and submitted to Ministry by Erstwhile IPCL vide letter dated 09.02.1998. Regular Mock drills are conducted to ensure the facilities in working conditions. One such mock drill report is enclosed as Annexure XV.		Date: 21/11/2024
17	MISCELLANEOUS	The proposed terminal building near the jetty shall be used exclusively for operational requirements of the jetty as proposed by project proponents.
PPs Submission: Complied The terminal building near the jetty is used exclusively for operational requirement of the jetty.		Date: 21/11/2024
18	Risk Mitigation and Disaster Management	The proposed construction of security walls on both sides of the pipelines carrying hazardous chemicals should be restricted to meet the safety needs. Additional paths across the pipeline shall be provided by the proponent to facilitate easy access to the local population
PPs Submission: Complied Security walls / Boundary walls on both sides of the pipelines carrying hazardous chemicals were restricted to meet the safety requirements. An over-bridge above the pipeline (outside jetty gate) has been constructed to facilitate easy passage for the local population.		Date: 21/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All annexures are attached as Additional Attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Change in product slate of Gandhar Petrochemical Complex (GPC) of IPCL and addition of Acrylonitrile (ACN) plant of GPC - Environmental Clearance regarding
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	11012/II/97-IA II
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	11012/II/97-IA II

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
3	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
4	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
5	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
6	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
7	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
8	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
9	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
10	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
11	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
12	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
13	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
14	Dilute H2SO4	Tons per Annum (TPA)	N/A	4,600	3,382	
15	HCl	Tons per Annum (TPA)	N/A	15,000	9,282	
16	Ethylene Oxide	Tons per Annum (TPA)	N/A	1,50,000	62,371	
17	Ethylene Glycol	Tons per Annum (TPA)	N/A	3,08,350	1,42,557	
18	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
19	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
20	HDPE-I/II	Tons per Annum (TPA)	N/A	2,40,000	1,73,070	
21	Di Ethylene	Tons per	N/A	30,550	14,864	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The conditions Stipulated vide MOEF's O.M. No. J-11011/27/90-A.11(1) dated 14th March. 1991 while grating clearance to the Gandhar Petrochemical Complex must be implemented effectively. Further, the raw water requirement to be met from Narmada river must not exceed 22 MGD even after addition of ACN Plant.

PPs Submission: Complied Conditions stipulated by MOEF vide O.M. No. J-11011/27/90-A.11(1) dated 14th March, 1991 are being complied with. Raw water requirement is being met from Narmada river. The average fresh water requirement for the period Apr-24 to Sept-24 was 87,716 KLD which is not exceeding the permissible limit of 1,86,315 KLD prescribed under the latest EC accorded vide letter No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. ACN Plant was not established.	Date: 21/11/2024

2	WASTE MANAGEMENT	IPCL has submitted that M/s National Productivity Council is preparing the landfill design for storage of hazardous waste at the site identified. The facility for a minimum of 15 years storage must be provided and report submitted within 3 months

PPs Submission: Complied M/s. National Productivity Council (NPC), New Delhi was retained by Erstwhile IPCL for providing the design of the landfill site for storage of Hazardous / solid waste. Design of landfill Site facility was for a storage period of minimum 15 years and the proposal plan was submitted to the Ministry by Erstwhile IPCL.	Date: 21/11/2024

3	AIR QUALITY MONITORING AND PRESERVATION	Comprehensive facilities must be made to monitor the SPM and gaseous emissions and effluent parameters from the Complex as prescribed by GPCB in their detailed NOC granted to the projects including strict treatment and monitoring of cyanide toxic streams

PPs Submission: Complied Comprehensive facilities are provided to monitor the SPM, gaseous emissions and effluent parameters from the Complex on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai as prescribed by GPCB. MoEFCC recognition letter and NABL certificate is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB norms. The detailed treated effluent monitoring report is enclosed as Annexure VII. All the parameters of effluent quality are conforming to the standard stipulated by GPCB. No ACN Plant is constructed / commissioned. Therefore, monitoring of cyanide toxic was not carried out.	Date: 21/11/2024

4	GREENBELT	It is noted that 250 ha. Of Land has been earmarked for green belt development. The type of trees to be planted on this Land. This should be finalized in consultation with BSI/experts. Preference should be given to species which help the eco-system in the region.

PPs Submission: Complied This condition has been revised in subsequent EC order no. J-11011/39/2016-IA-II (I) dated 19th August 2021 granted by MoEFCC. Site has developed around 203 ha of green cover as per the CPCB guidelines at Dahej Petrochemical Complex. Trees have been planted throughout the periphery of the complex as well as wherever open spaces are available. Landscaping (through lawns and shrubs) have been done. Every year plantation drive is being done to strengthen the green cover in the complex. During the reporting period Apr-24 to Sept-24: Around 15,012 trees have been planted in the complex, at open areas of GIDC near site and at road dividers outside of complex.	Date: 21/11/2024

5	Marine/Coastal	To stop land erosion near the mouth of Narmada Estuary, a special programme for cultivation of mangroves along the banks of the river (1000X250 mts stretch) in the region should be initiated on a priority basis in consultation with NIO/experts.

PPs Submission: Complied Mangroves plantation, along the river bank (near Erstwhile IPCL jetty) for a stretch of about 1 km from east (u/s of river) toward the estuary (west) where Narmada merge in to the Gulf of Cambay, was done in the year 1997-98. 3500 saplings were planted. However, the survival rate of this first plantation is very low due to many factors. Erstwhile IPCL had retained Gujarat Ecological Society (GES), Baroda to carry out the experimental plantation of mangroves in 2000-01. GES study found more sand then clay in the soil around jetty and that is why it is not conducive for the mangrove growth. Afresh attempt was again made by planting 2500 sapling of mangrove in association with local Forest Dept. in Dec-2005 at jetty. However, growth of mangroves was reported poor as the soil was not conducive for the mangrove growth. During the year 2018, 2000 saplings of mangrove were planted. The growth is under care / observation. Photographs of the mangrove plantation carried out at jetty can be seen in Annexure XIII.	Date: 21/11/2024

6	GREENBELT	The 19 ha. Of wasteland available close to the project site should be taken up for afforestation in cooperation with the local villagers. The type of vegetation to be grown should be finalized in consultation with the experts. The proposed wasteland development should benefit the ecosystem and the villagers.

PPs Submission: Complied Adequate area available close to the site was taken up for afforestation in cooperation with the local villagers by Erstwhile IPCL.	Date: 21/11/2024

7	Statutory compliance	A time bound action plan for Implementing the above condition should be submitted to the Ministry for review within six months.

PPs Submission: Complied Time bound action plan for implementation of the above conditions were submitted by Erstwhile IPCL to the Ministry.	Date: 21/11/2024

8	Statutory compliance	The Ministry may stipulate any further condition(S) on receiving reports from the project Authorities. The above conditions will be monitored by the Regional Office, Bhopal of this Ministry. The project proponent must submit a six monthly compliance report to the Ministry (Regional Office, Bhopal).

PPs Submission: Complied Six monthly compliance report is submitted to the Integrated Regional Office of the Ministry at Gandhinagar. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2024/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to Integrated Regional office of MoEFCC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted to GPCB on monthly basis. Proof of submission of last EC Compliance report is enclosed as Annexure XVI.	Date: 21/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All annexures are attached as Additional Attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's

reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Environmental Clearance regarding CAPEX project at Gandhar Petrochemicals Complex IPCL, P. O. Dahej in Gujarat - reg Environmental Clearance
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	J-11011/482/2006-IA II (I)
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/482/2006-IA II (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
2	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
3	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,5130	
4	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
5	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
6	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
7	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
8	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
9	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
10	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
11	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
12	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
13	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
14	Ethylene Glycol (EG)	Tons per Annum (TPA)	N/A	3,08,350	1,42,557	
15	UHMW-PE	Tons per Annum (TPA)	N/A	2,500	0	
16	Purified Terephthalic Acid (PTA)	Tons per Annum (TPA)	N/A	65,00,000	25,66,340	
17	Ethane Storage Tank	Others:Capacity in Tons	N/A	90,000	90,000	
18	Gas Based Power	MW	N/A	195	--	
19	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
20	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	GREENBELT	Green belt shall be raised in an area of 300 ha to mitigate the fugitive emissions from the plant. Selection of plant species shall be as per the central pollution control board guidelines.

PPs Submission: Complied This condition has been revised in subsequent EC order no. J-11011/39/2016-IA-II (I) dated 19th August 2021 granted by MoEFCC. However, the site has developed around 203 ha of Green cover within Dahej Petrochemical Complex to mitigate the fugitive emissions and additional greenbelt area is developed outside the plant area. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Selection of plant species is done as per CPCB guidelines; mainly native plant species are selected for the green belt development as per the guidelines of CPCB. Few of the plant species existing at the site are: Casuarina equisetifolia (Suru), Azadirachta indica (Neem), Millettia pinnata (Karanj), Cassia siamea (Kashid), Albizia procera (Shirish), Delonix regia (Gulmohar), Peltophorum pterocarpum etc.	Date: 21/11/2024

Sr.No.	Condition Type	Condition Details
2	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO2, NOx, CO, NMHC, Cl2 and HCl) from the various process units should conform to the standards prescribed under Environment (Protection Rules, 1986 or norms stipulated by the SPCB whichever is more stringent. At no time the emission level shall go beyond the stipulated standards. In the event of failure of Pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.

PPs Submission: Complied Gaseous emissions of SO2, NOx, HC, Cl2 and HCl from process units are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standards. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and Detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB norms. During Apr-24 to Sept-24, emission levels have not exceeded the prescribed / stipulated standards. Details of the same can be seen in Annexure III. Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger/alarm is raised in the DCS system which prevents the plant from restarting and pollution control system is rectified immediately. During the period of Apr-24 to Sept-24, no such failure of pollution control equipment has happened. Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.	Date: 21/11/2024

Sr.No.	Condition Type	Condition Details
3	AIR QUALITY MONITORING AND PRESERVATION	Ambient air quality monitoring stations (SPM, SO2, NOx and NMHC) shall be set up in the petrochemical complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down wind direction of wind. The monitoring network must be decided based on modelling exercise to represent short term GLCs. Continuous online stack monitoring equipment should be installed for measurement of SO2 and NOx. Data on VOC shall be monitored and submitted to the SPCB/Ministry. The CPCB shall independently monitor the air quality of the project.

PPs Submission: Complied The site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex considering wind directions and the maximum Ground Level Concentration in downwind direction. Mathematical Modelling report submitted to GPCB along with AAQM location map can be seen in Annexure XVII. Ambient air monitoring is carried out twice a week at	Date: 21/11/2024

		each location through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the AAQ monitoring results and Detailed AAQ Monitoring data for the period Apr-24 to Sept-24 can be referred from Annexure VI. All results are conforming to the standards prescribed by GPCB. AAQ monitoring network is decided based on the mathematical modeling carried out by NEERI / ERM for short term maximum GLCs. Report of mathematical modelling carried out by M/s. ERM is enclosed as Annexure XVII. Continuous online stack monitoring analysers have been provided for monitoring of SO2 and NOx and other parameters as per requirement in all stacks. One such trend of CEMS of one of the plant is enclosed as Annexure XVIII. VOCs (Benzene) monitoring in ambient air is being done regularly through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the results are being submitted to the GPCB / MoEFCC. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The monitoring results for the VOCs (Benzene) is given in summary of the AAQ monitoring results of Apr-24 to Sept-24 which can be referred from Annexure VI. VOCs at the process areas are also being monitored in every plant under the Leak detection and Repair Program (LDAR). Typical LDAR Report of one the plant is enclosed as Annexure XIX. This condition is not applicable to us.	
4	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage shall also be provided at strategic locations. The company shall use low sulphur fuel to minimize SO2 Emission.
		PPs Submission: Complied Fugitive emissions of HC from product storage tanks are monitored on weekly basis by LEL meters and on monthly basis by PID meters under the Leak Detection and Repair Program. Around 56 LEL detectors are installed in Tank Farm area i.e. Product Transfer Department (PTD). Typical LDAR Report of Product Transfer Department (PTD) plant is enclosed as Annexure XX. 1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like near the pumps, compressors, storage tanks, yards, etc. List of detectors installed is enclosed as Annexure XXI. The Low Sulfur fuels are used in the plant to minimize SO2 emissions. Ethane / NG usage is maximized in the plant having sulphur content less than 1 ppm.	Date: 21/11/2024
5	AIR QUALITY MONITORING AND PRESERVATION	The company shall install online O2 monitor in the furnaces. Boilers shall be operated with minimum excess air for optimal fuel consumption and to minimize NOx emission. Flare stack burners and steam injection system shall be designed for smokeless operation to minimize NOx emission.
		PPs Submission: Complied 20 online O2 monitors are installed in the furnaces to keep the track of combustion efficiency. Flue gas emissions from the stacks attached to the boiler, furnaces / heaters are regularly monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of flue gas emission results and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms. Steam injection system is provided in flare stacks for reducing NOx generation and have smokeless operation.	Date: 21/11/2024
6	AIR QUALITY MONITORING AND PRESERVATION	For Control of fugitive emission, the company shall provide for a main flare system and an auxiliary flare system and route all unsaturated hydrocarbons to the flare system. All the pump and other equipment's where there is like hood of HC leakage shall be provided with LEL indicators and also provide for immediate isolation to such equipment, in case of a leakage. The company shall adopt leak detection and repair (LDAR) programme for quantification and control of fugitive emissions.
		PPs Submission: Complied All plant vents containing unsaturated hydrocarbons are routed to the main flare and auxiliary flare	Date: 21/11/2024

		(LP flare) system for controlling of fugitive emissions. An auxiliary flare system (LP flare) is provided for routing the discharge from the dump valve on cryogenic tanks. Whereas the main flare system is provided for all process units and non-cryogenic storage area. Photograph of Flare installed is enclosed as Annexure XXII. 1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like main pumps, compressors, storage tanks yards, etc. List of detectors installed is enclosed as Annexure XXI. Isolation of leaking equipment is immediately done based on the LEL detector alarm. LDAR program has been implemented in all plants for quantification and control of fugitive emissions. LDAR is carried out in each plant on quarterly basis. During the review period (Apr-24 to Sept-24) the same were carried out at all the plants. Typical LDAR Report of one the plant is enclosed as Annexure XIX.	
7	AIR QUALITY MONITORING AND PRESERVATION	The product-loading gantry shall be connected to the product sphere in closed circuit through the vapour arm connected to the tanker. Data on fugitive emissions shall be regularly monitored and records maintained.	
		PPs Submission: Complied The product loading gantry is connected with the respective product tanks with vapor arm connected to the tanker. The vapors are recovered through vapor recovery system which consists of RARFS scrubber, membrane unit and activated carbon filters and then recovered material is sent back to the tank. This system is installed at Product loading gantry. Photographs of vapour recovery system is enclosed as Annexure XXIII. Data on Fugitive emissions are being regularly monitored through LDAR program and records maintained. Typical LDAR Report of one the plant is enclosed as Annexure XIX.	Date: 21/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	The company shall ensure that no halogenated organic is sent to the flares. If any of the halogenated organic are present then the respective streams may be incinerated, if there are no technically feasible or economically viable reduction/recovery options. Any stream containing organic carbon, other than halogenated shall be connected to proper flaring system, if not to a recovery device or an incinerator	
		PPs Submission: Complied No halogenated organics are sent to flares. It is always sent to incinerator unit. Halogenated organics from VCM plant are incinerated in the incinerator provided at the plant as recovery is not techno-economically feasible. Emission streams containing organic carbon i.e unsaturated hydrocarbons, are connected to the existing flares. Halogenated compounds are not sent to flare.	Date: 21/11/2024
9	AIR QUALITY MONITORING AND PRESERVATION	All new standards/norms that are being proposed by the CPCB for petrochemical plants shall be applicable for the proposed expansion unit. The company shall conform to the process vent standards for organic chemical including non-VOCs and all possible VOCs i.e. TOCs standard and process vent standards for top priority chemicals. The company shall install online monitors for VOC measurements. Action on above should be taken during the detailed design stage of NCC and intimate to this ministry	
		PPs Submission: Complied The site is conforming to the standards / norms prescribed by CPCB / GPCB whichever is stringent, for petrochemical plants. The process vents of various plants are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standard which is more stringent. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB norms. Online detectors (1182 LEL type) for VOC measurements have been installed at appropriate locations in the plants based on the properties of chemicals being handled at the particular location. List of detectors installed is enclosed as Annexure XXI.	Date: 21/11/2024

10	AIR QUALITY MONITORING AND PRESERVATION	The company shall install bag filters to control flue gas emission. Process emission shall be controlled by Scrubbers. Flue gas emission from the various stacks attached to the boiler, furnace/heaters shall conform to the prescribed standards.

PPs Submission: Complied Suitable air pollution control equipment like Bag filters, absorbers, scrubbers, cyclone separator etc. are installed as per process requirement of respective plant to control process emissions. Details of Air pollution control equipments installed in plants is enclosed as Annexure XXIV. Flue gas emissions from the stacks attached to the boiler, furnaces / heaters are regularly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of flue gas emission results and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms.	Date: 21/11/2024

11	WATER QUALITY MONITORING AND PRESERVATION	The additional effluent generation shall not exceed 39,020 m3/d. The wastewater generated shall be treated in comprehensive wastewater treatment plant. As reflected in the EIA/EMP report, the company shall maximize the recycling of treated effluent and treated effluent after conforming to the prescribed standards shall be discharged through the existing marine disposal system. A holding pond for treated effluent for bio test shall be constructed before discharging the effluent into the sea. The domestic effluent after treatment and conforming to the prescribed standards shall be used for green belt development

PPs Submission: Complied The additional effluent generation from the proposed plant does not exceed 38,826 m3/day. However, the total effluent generation quantity prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 51,002 m3/d. The current effluent generation quantity from the complex for the review period of Apr-24 to Sept-24 can be referred from Annexure XCII. The average effluent generation rate from the complex for the period Apr-24 to Sept-24 is well below the permissible limit of 51,002 m3/d. Wastewater generated from the individual process units is being treated in the comprehensive effluent treatment facility consisting of Primary, Secondary and Tertiary treatment units. Some of the photographs of Effluent treatment plant can be seen in Annexure XXV. All points mentioned in the EIA / EMP report regarding maximizing the recycling of treated effluent is complied with such as Advanced Anaerobic UASB system and Membrane based Aeration system i.e., Membrane Bioreactor (MBR), Ultrafiltration and Reverse Osmosis (RO) systems have been commissioned in the plant for achieving the maximum recycling of treated water. Photographs of UASB, MBR and RO plant installed for maximizing the recycling of treated effluent can be seen in Annexure XXVI. Treated effluent is being recycled within the complex as Cooling tower make up, DM water production, green belt development. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 is enclosed in Annexure XCII as against the Permissible limits prescribed Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026. From the data provided in the above mentioned annexure it is clear that the Effluent recycling is done to maximum extent for minimizing discharge from the complex. Treated effluent is being monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the quality of effluent is maintained well within the norm prescribed by the GPCB and the same is discharged through the marine disposal system after conforming to the standards. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Bioassay test for monitoring toxicity is conducted in the laboratory with the test containers for the treated effluent. The local fishes are taken as the Testing animal for this experiment and the test is carried out in the laboratory as per the IS 6582. Result of 93 percent survival of fish after 96 hours in 100 percent effluent is achieved for the review period of Apr-24 to Sept-24. The analysis results of Bioassay test are provided in the above condition. The domestic effluent generated within the site is treated in the biological section of the effluent treatment plant with the prior approval from GPCB and it conforms to the prescribed standards. As mentioned in Annexure XCII, about 19,111 KLD of treated effluent is being reused as CW make up, DM water	Date: 21/11/2024

	production and for green belt development. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 enclosed in Annexure XCII against the Permissible limits prescribed under the Consolidated Consent and Authorization order no AWH-121992 dated 25th November 2022, granted by GPCB and valid till 3rd November, 2026. From the data provided in the above mentioned annexure it is clear that the Effluent recycling is done to maximum extent for minimizing discharge from the complex.	
12	WATER QUALITY MONITORING AND PRESERVATION	The company shall obtain necessary approval from the state Irrigation Department to meet the additional water requirement.
	PPs Submission: Complied Company has obtained approval to meet the water requirement. The sanction / approval for 22 MGD of water drawl from Narmada River has been obtained from the Vadodara Irrigation Division and additional 8 MGD from G.I.D.C. Please refer the copy of water drawl approval from Irrigation Department for 22 MGD and 8 MGD from G.I.D.C as Annexure XXVII.	Date: 21/11/2024
13	WATER QUALITY MONITORING AND PRESERVATION	M/s RIL shall undertake rainwater harvesting measures, to recharge the ground water and also to minimize the water drawl from the weir.
	PPs Submission: Complied RIL has undertaken rainwater harvesting measures to recharge the ground water such as a rain water harvesting pond is established for collecting and storing the rain water. The collected water is used inside the plant to supplement fresh water supply thereby hence minimizing water drawl from the weir to that extent. It also helps in recharging of the ground water. Apart from these, various efforts are taken to minimize the water withdrawal e.g. reduction in fresh water requirement for utilization as make up water in cooling towers by recycling treated water in cooling towers etc. Photograph of Rain water harvesting pond is enclosed as Annexure XXVII.	Date: 21/11/2024
14	Human Health Environment	Occupation Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
	PPs Submission: Complied RIL-DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC. Occupational Health Surveillance is carried out at the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees. Details of checks conducted at the time of Fitness Examination and Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI.	Date: 21/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board and the state Government
	PPs Submission: Complied As seen in the above conditions and the summary table of environmental monitoring results, we are complying with all the standards and stipulations made by the Gujarat State Pollution Control Board and the State Government. Stipulations made by the Gujarat Pollution Control Board vide CTO (Consent to Operate) / CCA (Consolidated Consent and Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to.	Date: 21/11/2024

2	MISCELLANEOUS	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests

PPs Submission: Complied All expansion or modernization of petrochemical plants at RIL-DMD have been carried out with prior approval of MoEFCC / SEIAA.	Date: 21/11/2024

3	Statutory compliance	At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted unit the desired efficiency has been achieved

PPs Submission: Complied At no time, emissions have exceeded the stipulated standards during the reporting period of Apr-24 to Sept-24. The summary of flue gas emission results, gaseous emission from various process stacks and detailed stack emission report for the period of Apr-24 to Sept24 can be seen in Annexure III. All results are conforming to the standards prescribed by GPCB norms. Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger / alarm is raised in the DCS system which prevents the plant from restarting. During the period of Apr-24 to Sept-24, no such failure of pollution control equipment has been observed. Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.	Date: 21/11/2024

4	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time)

PPs Submission: Complied Noise level at the site is monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it is observed to be well within the prescribed workplace noise level of 85 dBA. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed workplace noise level monitoring report is enclosed as Annexure XXXII. All results are conforming to the standards prescribed by GPCB norms. Provision of noise control measures including acoustic hoods, silencers, enclosures etc. has been made for all sources of high noise generation. Photographs of the same is enclosed as Annexure XXXIII. Ambient noise levels conform to the standard prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time). Detailed ambient noise level monitoring report is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms.	Date: 21/11/2024

5	Statutory compliance	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Control of Explosives must be provided before commission of the project.

PPs Submission: Complied Provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended in 2000 are being complied by ensuring the following activities : - Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXIV. - Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXV. - Conducting mock drills on regular basis. One such mock drill report is enclosed as Annexure XXXVI. - Provision of emergency alert system like sirens, announcement etc and ensuring their healthiness. Details of siren submitted to DISH is enclosed as Annexure XXXVII. - Mutual aid arrangement with neighboring industries. Agreement copy is enclosed as Annexure XXXVIII. The approvals required for storage of HC from Chief Control of Explosives are in place and they were obtained before	Date: 21/11/2024

commissioning of the project. Approval details of the same is enclosed as Annexure XI.		
6	WASTE MANAGEMENT	The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection/treatment/ Storage/ disposal of hazardous wastes.
PPs Submission: Complied RIL DMD strictly complies with the rules and regulations of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments thereof. Handling and Disposal of Hazardous wastes generated at site is being done in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed as Annexure XXXIX. Hazardous waste Authorization has been obtained from GPCB for collection / treatment / storage / disposal of hazardous wastes. Authorization (AWH-121992) from GPCB for collection / treatment / storage / disposal of hazardous wastes is available which is valid up to 03.11.2026. Hazardous wastes collected, stored and disposed during reporting period Apr-24 to Sept-24 is given in Annexure VIII. Please refer Form - 4 submitted to GPCB for the year 2023-24 as Annexure IX.		Date: 21/11/2024
7	MISCELLANEOUS	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
PPs Submission: Complied Adequate funds have been allocated for implementing the conditions stipulated by the statutory authorities. The Environmental Funds expenditure during the reporting period Apr-24 to Sept-24 was around INR. 56.7 Crores. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores The funds provided for Environmental improvement activities are used only for the said purpose. They are not diverted for other activities at site.		Date: 21/11/2024
8	Statutory compliance	The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal/ Central Pollution Control Board/ State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.
PPs Submission: Complied This condition is not applicable to us. Six monthly compliance report and monitoring data is submitted to MoEFCC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL- DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to Integrated Regional office of MoEFCC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted to GPCB on monthly basis. Proof of submission of last EC Compliance report is enclosed as Annexure XVI.		Date: 21/11/2024
9	MISCELLANEOUS	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in This should be advertised within seven days form the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the

		region of which one shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Regional office.

PPs Submission: Complied The public has been informed about the Environment Clearance accorded to this project through Newspaper in English and Gujarati language. The copy of the newspaper publication has been submitted to the MoEFCC along with the first compliance report of this EC. Newspaper cutting is enclosed as Annexure XL.	Date: 21/11/2024

10	MISCELLANEOUS	The project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closures and the date of the commencing the land development work.

PPs Submission: Complied The project is completed and commissioned. The necessary information about the project financial closure and project commencement was provided along with the first compliance report of this EC.	Date: 21/11/2024

11	MISCELLANEOUS	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory

PPs Submission: Complied This condition is not applicable to us.	Date: 21/11/2024

12	MISCELLANEOUS	The ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner will implement these conditions

PPs Submission: Complied This condition is not applicable to us. Company has implemented all the conditions prescribed by the Ministry in this EC.	Date: 21/11/2024

13	MISCELLANEOUS	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, Hazardous Wastes (Management And Handling) Rules 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules

PPs Submission: Complied Noted.	Date: 21/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Environmental Clearance for Expansion Project of M/s Reliance Industries Limited, Dahej Manufacturing Division, Dahej, Taluka: Vagra, District - Bharuch, Gujarat
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	J-11011/402/2007-IA II (I)
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/402/2007-IA II (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
3	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
4	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
5	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
6	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
7	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
8	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
9	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
10	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
11	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
12	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
13	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
14	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
15	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
16	Dilute H2SO4	Tons per Annum (TPA)	N/A	4,600	3,382	
17	HCl	Tons per Annum (TPA)	N/A	15,000	9,282	
18	Ethylene Oxide (EO)	Tons per Annum (TPA)	N/A	1,50,000	62,371	
19	Ethylene Glycol (EG)	Tons per Annum (TPA)	N/A	3,08,350	1,42,557	
20	Di Ethylene Glycol	Tons per Annum (TPA)	N/A	30,550	14,864	
21	Tri Ethylene	Tons per	N/A	1,270	663	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	The product-loading gantry shall be connected to the product sphere in closed circuit through the vapour arm connected to the tanker. Data on fugitive emissions shall be regularly monitored and records maintained.

PPs Submission: Complied The product loading gantry is connected with the respective product tanks with vapor arm connected to the tanker. The vapors are recovered through vapor recovery system which consists of RARFS scrubber, membrane unit and activated carbon filters and then recovered material is sent back to the tank. This system is installed at Product loading gantry. Schematic diagram of vapour recovery system is enclosed as Annexure XXIII. Data on fugitive emissions are being regularly monitored through LDAR program and records maintained. Typical LDAR Report of one the plant is enclosed as Annexure XIX.	Date: 21/11/2024

2	Statutory compliance	M/s. RIL shall comply with proposed Effluent and Emission Standards for Petrochemical Plants of CPCB / MoEF for the proposed expansion

PPs Submission: Complied Effluent discharge and Gaseous emissions from the complex are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the MoEFCC and GPCB prescribed standards. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The detailed treated effluent monitoring report is enclosed as Annexure VII. All the parameters of effluent quality are conforming to the standard stipulated by GPCB. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB norms.	Date: 21/11/2024

3	Statutory compliance	The company shall comply with all the condition stipulated by the Ministry for the CAPEX project at Gandhar Petrochemical Complex vide Ministry letter No. J11011/482/2006IA.II(i) dated June 11, 2007

PPs Submission: Complied RIL complies with the conditions laid down in the EC granted by the Ministry Letter No. J11011/482/2006 IA II (I) dated June 11, 2007. Compliance status for the same is enclosed as Annexure XLI.	Date: 21/11/2024

4	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO2, NOx, CO, NMHC, Cl2 and HCl) from the various process units should conform to the standards prescribed under Environment (Protection Rules, 1986 or norms stipulated by the SPCB whichever is more stringent. At no time the emission level shall go beyond the stipulated standards. In the event of failure of Pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.

PPs Submission: Complied Gaseous emissions of SO2, NOx, HC, Cl2 and HCl from process units are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standards. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All	Date: 21/11/2024

		results are conforming to the standards prescribed by GPCB norms. During Apr-24 to Sept-24, emission levels have not exceeded the prescribed standards. Details of the same can be seen in Annexure III. Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger/alarm is raised in the DCS system which prevents the plant from restarting and pollution control system is rectified immediately. During the period of Apr-24 to Sept-24, no such failure of pollution control equipment has happened. Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.
5	AIR QUALITY MONITORING AND PRESERVATION	Ambient air quality monitoring stations (SPM, SO2, NOx and NMHC) shall be set up in the petrochemical complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down wind direction of wind. The monitoring network must be decided based on modelling exercise to represent short term GLCs. Continuous online stack monitoring equipment should be installed for measurement of SO2 and NOx. Data on VOC shall be monitored and submitted to the SPCB/Ministry. The CPCB shall independently monitor the air quality of the project.
		PPs Submission: Complied The site has established 7 Ambient Air Quality monitoring stations within and outside the petrochemical complex considering wind directions and the maximum Ground Level Concentration in downwind direction. Mathematical Modelling report submitted to GPCB along with AAQM location map can be seen in Annexure XVII. Ambient air quality monitoring is carried out twice a week at each location through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Summary of the AAQ monitoring results and Detailed AAQ Monitoring Report of Apr-24 to Sept-24 is enclosed in Annexure VI. All results are conforming to the standards prescribed by GPCB norms. AAQ monitoring network is decided based on the mathematical modeling carried out by NEERI / ERM for short term maximum GLCs. Report of mathematical modelling carried out by M/s. ERM is enclosed as Annexure V. Continuous online stack monitoring analysers have been provided for monitoring of SO2 and NOx in all stacks. One such trend of CEMS of one of the plant is enclosed as Annexure XVIII. VOCs (Benzene) monitoring in ambient air is being done regularly through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the results are being submitted to the GPCB / MoEFCC. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The monitoring results for the VOCs (Benzene) are given in Detailed AAQ Monitoring Report of Apr-24 to Sept-24 enclosed as Annexure VI. All results are conforming to the standards prescribed by GPCB norms. VOCs at the process areas are also being monitored in every plant under the Leak detection and Repair Program (LDAR). Typical LDAR Report of one the plant is enclosed as Annexure XIX. This condition is not applicable to us.	Date: 21/11/2024
6	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage shall also be provided at strategic locations. The company shall use low sulphur fuel to minimize SO2 Emission.
		PPs Submission: Complied Fugitive emissions of HC from product storage tanks are monitored on weekly basis by LEL meters and on monthly basis by PID meters under the Leak Detection and Repair Program. Around 56 LEL detectors are installed in Tank Farm area i.e. Product Transfer Department (PTD). Typical LDAR Report of PTD plant is enclosed as Annexure XX. 1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like near the pumps, compressors, storage tanks yards, etc. List of detectors installed is enclosed as Annexure XXI. The Low Sulfur fuels are used in the plant to minimize SO2 emissions. Ethane / NG usage is maximized in the plant having sulphur content less than1 ppm.	Date: 21/11/2024
7	AIR QUALITY MONITORING AND PRESERVATION	The company shall install online O2 monitor in the furnaces. Boilers shall be operated with minimum excess air for optimal fuel consumption and to minimize NOx emission. Flare stack burners and steam injection system shall be designed for smokeless operation to minimize NOx emission.

		PPs Submission: Complied 20 online O2 monitors are installed in the furnaces to keep the track of combustion efficiency. Boilers are operated at minimum excess air and the online O2 monitors in furnaces are used for optimization of the air/fuel ratio for minimizing excess air, thereby NOx generation is minimized. Flue gas emissions from the stacks attached to the boiler, furnaces / heaters are regularly monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of flue gas emission results and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms. Steam injection system is provided in flare stacks for reducing NOx generation and have smokeless operation.	Date: 21/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	For Control of fugitive emission, the company shall provide for a main flare system and an auxiliary flare system and route all unsaturated hydrocarbons to the flare system. All the pump and other equipment's where there is like hood of HC leakage shall be provided with LEL indicators. also provide for immediate isolation to such equipment, in case of a leakage. The company shall adopt leak detection and repair (LDAR) programme for quantification and control of fugitive emissions.	
		PPs Submission: Complied All plant vents containing unsaturated hydrocarbons are routed to the main flare and auxiliary flare (LP flare) system for controlling of fugitive emissions. An auxiliary flare system (LP flare) is provided for routing the discharge from the dump valve on cryogenic tanks. Whereas the main flare system is provided for all process units and non-cryogenic storage area. Photograph of Flare installed is enclosed as Annexure XXII. 1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like main pumps, compressors, storage tanks yards, etc. List of detectors installed is enclosed as Annexure XXI. Isolation of leaking equipment is immediately done based on the LEL detector alarm. LDAR program has been implemented in all plants for quantification and control of fugitive emissions. LDAR is carried out in each plant on quarterly basis. During the review period (Apr-24 to Sept-24) the same were carried out at all the plants. Typical LDAR Report of one the plant is enclosed as Annexure XIX.	Date: 21/11/2024
9	AIR QUALITY MONITORING AND PRESERVATION	The company shall ensure that no halogenated organic is sent to the flares. If any of the halogenated organic are present then the respective streams may be incinerated, if there are no technically feasible or economically viable reduction/recovery options. Any stream containing organic carbon, other than halogenated shall be connected to proper flaring system, if not to a recovery device or an incinerator.	
		PPs Submission: Complied No halogenated organics are sent to flares. It is always sent to incinerator unit. Halogenated organics from VCM plant are incinerated in the incinerator provided at the plant as recovery is not techno-economically feasible. Emission streams containing organic carbon i.e unsaturated hydrocarbons, are connected to the existing flares. Halogenated compounds are not sent to flare.	Date: 21/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	The company shall conform to the process vent standards for organic chemical including non-VOCs and all possible VOCs i.e. TOCs standard and process vent standards for top priority chemicals.	
		PPs Submission: Complied The process vents of various plants are monthly monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the prescribed standard. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the gaseous emission from various process stacks and detailed Stack Emission Monitoring Report for the period Apr-24 to Sept-24 is enclosed in Annexure III. All results are conforming to the standards prescribed by GPCB	Date: 21/11/2024

norms.			
11	AIR QUALITY MONITORING AND PRESERVATION	The company shall install bag filters to control flue gas emission. Process emission shall be controlled by Scrubbers. Flue gas emission from the various stacks attached to the boiler, furnace/heaters shall conform to the prescribed standards.	
PPs Submission: Complied Suitable air pollution control equipment like Bag filters, absorbers, scrubbers, cyclone separator etc. are installed as per process requirement of respective plant to control process emissions. Details of Air pollution control equipments installed in plants is enclosed as Annexure XXIV. Flue gas emissions from the stacks attached to the boiler, furnaces/heaters are regularly monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of flue gas emission results and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms.			Date: 21/11/2024
12	WATER QUALITY MONITORING AND PRESERVATION	The additional effluent generation shall not exceed 16,100 m3/d. The wastewater generated shall be treated in comprehensive wastewater treatment plant. As reflected in the EIA/EMP report, the company shall maximize the recycling of treated effluent and treated effluent after conforming to the prescribed standards shall be discharged through the existing marine disposal system. A holding pond for treated effluent for bio test shall be constructed before discharging the effluent into the sea. The domestic effluent after treatment and conforming to the prescribed standards shall be used for green belt development.	
PPs Submission: Complied The additional effluent generation from the proposed plant does not exceed 38,826 m3/day. However, the total effluent generation quantity prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 51,002 m3/d. The current effluent generation quantity from the complex for the review period of Apr-24 to Sept-24 can be referred from Annexure XCII. The average effluent generation rate from the complex for the period Apr-24 to Sept-24 is well below the permissible limit of 51,002 m3/d. Wastewater generated from the individual process units is being treated in the comprehensive effluent treatment facility consisting of Primary, Secondary and Tertiary treatment units. Some of the photographs of Effluent treatment plant can be seen in Annexure XXV. Advanced Anaerobic UASB system and Membrane based Aeration system i.e., Membrane Bioreactor (MBR), Ultrafiltration and Reverse Osmosis (RO) systems have been commissioned in the plant for achieving the maximum recycling of treated water. Photographs of UASB, MBR and RO plant installed for maximizing the recycling of treated effluent can be seen in Annexure XXVI. Treated effluent is being recycled within the complex as Cooling tower make up, DM water production, green belt development. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 is presented below as against the Permissible limits prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH- 121992 dated 25th November 2022, valid up to 3rd November, 2026. From the data provided in the above mentioned annexure it is clear that the Effluent recycling is done to maximum extent for minimizing discharge from the complex. Treated effluent is being monitored on monthly basis through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the quality of effluent is maintained well within the norm prescribed by the MoEFCC and the same is discharged through the marine disposal system after conforming to the standards. The detailed treated effluent monitoring report for Apr-24 toSept-24 is enclosed as Annexure VII. All the parameters of effluent quality are conforming to the standard stipulated by GPCB. Detailed treated effluent monitoring report is enclosed as Annexure VII. Bioassay test for monitoring toxicity is conducted in the laboratory with the test containers for the treated effluent. The local fishes are taken as the Testing animal for this experiment and the test is carried out in the laboratory as per the IS 6582. Result of 96 percent survival of fish after 96 hours in 100 percent effluent is achieved for the review period of Apr-24 to Sept-24, The analysis results of Bioassay test is provided in the above condition. The domestic effluent generated within the site is treated in the biological section of the			Date: 21/11/2024

	effluent treatment plant with the prior approval from GPCB and it conforms to the prescribed standards. As mentioned above, about 19,111 KLD of treated effluent is being reused as CW make up, DM water production and for green belt development. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 is presented below as against the Permissible limits prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026. From the data provided in the above mentioned annexure it is clear that the Effluent recycling is done to maximum extent for minimizing discharge from the complex.	
13	WATER QUALITY MONITORING AND PRESERVATION	The company shall obtain necessary approval from the state Irrigation Department to meet the additional water requirement.
	PPs Submission: Complied Company has obtained approval to meet the water requirement. The sanction / approval for 22 MGD of water drawl from Narmada River has been obtained from the Vadodara Irrigation Division and additional 8 MGD from G.I.D.C. Please refer the copy of water drawl approval from Irrigation Department for 22 MGD and 8 MGD from G.I.D.C. as Annexure XXVII.	Date: 21/11/2024
14	WATER QUALITY MONITORING AND PRESERVATION	M/s RIL shall undertake rainwater harvesting measures, to recharge the ground water and also to minimize the water drawl from the weir.
	PPs Submission: Complied RIL has undertaken rainwater harvesting measures to recharge the ground water such as a rain water harvesting pond is established for collecting and storing the rain water. The collected water is used inside the plant to supplement fresh water supply thereby minimizing water drawl from the weir to that extent. It also helps in recharging of the ground water. Apart from these, various efforts are taken to minimize the water withdrawal e.g. reduction in fresh water requirement for utilization as make up water in cooling towers by recycling treated water in cooling towers etc. Photograph of Rain water harvesting pond is enclosed as Annexure XXVIII.	Date: 21/11/2024
15	GREENBELT	Green belt shall be raised in an area of 43 ha to mitigate the fugitive emissions from the plant. Selection of plant species shall be as per the central pollution control board guidelines
	PPs Submission: Complied This condition has been revised in subsequent EC order no. J-11011/39/2016-IA-II (I) dated 19th August 2021 granted by MoEFCC. The site has developed around 203 ha of Green cover within Dahej Petrochemical Complex to mitigate the fugitive emissions. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Native plant species are selected for the green belt development as per the guidelines of CPCB. Few of the plant species existing at the site are: Casuarina equisetifolia (Suru), Azadirachta indica (Neem), Millettia pinnata (Karanj), Cassia siamea (Kashid), Albizia procera (Shirish), Delonix regia (Gulmohar), Peltophorum pterocarpum etc.	Date: 21/11/2024
16	Human Health Environment	Occupation Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
	PPs Submission: Complied RIL-DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC. Occupational Health Surveillance is carried out at the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees. Details of checks conducted at the time of Fitness Examination and Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI.	Date: 21/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests

PPs Submission: Complied All expansion or modernization of petrochemical plants at RIL-DMD have been carried out with prior approval of MoEFCC / SEIAA.	Date: 21/11/2024

2	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board and the state Government

PPs Submission: Complied As seen in the above conditions and the summary table of environmental monitoring results, we are complying with all the standards and stipulations made by the Gujarat State Pollution Control Board and the State Government. Stipulations made by the Gujarat Pollution Control Board vide CTO (Consent to Operate) / CCA (Consolidated Consent and Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to.	Date: 21/11/2024

3	MISCELLANEOUS	At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted unit the desired efficiency has been achieved

PPs Submission: Complied At no time, emissions have exceeded the stipulated standards during the reporting period of Apr-24 to Sept-24. The summary of flue gas emission results, summary of emission results from process stacks and Detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms. Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger / alarm is raised in the DCS system which prevents the plant from restarting. During the period of Apr-24 to Sept-24, no such failure of pollution control equipment has been observed. Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.	Date: 21/11/2024

4	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA). By providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time)

PPs Submission: Complied Noise level at the site is monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it is observed to be well within the prescribed occupational noise level of 85 dBA. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed workplace noise level monitoring report is enclosed as Annexure XXXII. All results are conforming to the standards prescribed by GPCB norms. Provision of noise control measures including acoustic hoods, silencers, enclosures etc. has been made for all sources of high noise generation. Photographs of the same is enclosed as Annexure XXXIII. Ambient noise levels conform to the standard prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time). Detailed ambient noise level monitoring report is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms.	Date: 21/11/2024

5	Statutory compliance	The project authorities must strictly comply with the provisions

		made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Control of Explosives must be provided before commission of the project.
PPs Submission: Complied Provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended in 2000 are being complied by ensuring the following activities: - Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXIV. - Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXV. - Conducting mock drills on regular basis. One such mock drill report is enclosed as Annexure XXXVI. - Provision of emergency alert system like sirens, announcement etc. and ensuring their healthiness. Details of siren submitted to DISH is enclosed as Annexure XXXVII. - Mutual aid arrangement with neighboring industries. Agreement copy is enclosed as Annexure XXXVIII. The approvals required for storage of HC from Chief Control of Explosives are in place and they were obtained before commissioning of the project. Approval details of the same is enclosed as Annexure XI.		Date: 21/11/2024
6	Statutory compliance	The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection/treatment/ Storage/ disposal of hazardous wastes.
PPs Submission: Complied RIL DMD strictly complies with the rules and regulations of Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and its subsequent amendments thereof. Handling and Disposal of Hazardous wastes generated at site is being done in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed as Annexure XXXIX. Copy of TREM Card is enclosed as Annexure XLII and Manifest is enclosed as Annexure XLIII for reference. Hazardous waste Authorization has been obtained from GPCB for collection / treatment / storage / disposal of hazardous wastes. Authorization (AWH- 121992) from GPCB for collection / treatment / storage / disposal of hazardous wastes is available which is valid up to 03.11.2026. Hazardous wastes collected, stored and disposed during reporting period Apr-24 to Sept-24 is given in Annexure VIII. Please refer Form - 4 submitted to GPCB for the year 2023-24 as Annexure IX.		Date: 21/11/2024
7	MISCELLANEOUS	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
PPs Submission: Complied Adequate funds have been allocated for implementing the conditions stipulated by the statutory authorities. The Environmental Funds expenditure for the reporting period Apr-24 to Sept-24 was around INR 56.7 Crores. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores The funds provided for Environmental improvement activities are used only for the said purpose. They are not diverted for other activities at site.		Date: 21/11/2024
8	Statutory compliance	The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal/ Central Pollution Control Board/ State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.

PPs Submission: Complied This condition is not applicable to us. Six monthly compliance report and monitoring data is submitted to MoEFCC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to Integrated Regional office of MoEFCC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted to GPCB on monthly basis. Proof of submission of last EC Compliance report is enclosed as Annexure XVI.		Date: 21/11/2024
9	MISCELLANEOUS	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in This should be advertised within seven days form the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Regional office.
PPs Submission: Complied The public has been informed about the Environment Clearance accorded to this project through Newspaper in English and Gujarati language. The copy of the newspaper publication has been submitted to the MoEFCC along with the first compliance report of this EC. Newspaper cutting is enclosed as Annexure XL.		Date: 21/11/2024
10	MISCELLANEOUS	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closures and the date of the commencing the land development work.
PPs Submission: Complied The project is completed and commissioned. The necessary information about the project financial closure and project commencement was provided along with the first compliance report of this EC.		Date: 21/11/2024
11	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Complied This condition is not applicable to us.		Date: 21/11/2024
12	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner will implement these conditions.
PPs Submission: Complied This condition is not applicable to us. Company has implemented all the conditions prescribed by the Ministry in this EC.		Date: 21/11/2024
13	MISCELLANEOUS	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air ((Prevention & Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, Hazardous Wastes (Management And Handling) Rules 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules
PPs Submission: Complied Noted.		Date: 21/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	DMD Annexures are attached as Additional Attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Environment Clearance for setting up of EODs, Acrylic Acid & Esters, Phenol, PTA, PET Plants and 200 MW CCPP in the existing petrochemical unit at Dahej Manufacturing Division, P. O. Dahej, Taluka - Vagra, District - Bharuch by M/s Reliance Industries Limited in Category 5(e) & 1(d) of schedule annexed with EIA Notification dated 14/09/2006
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	SEIAA/GUJ/EC/5(e)&1(d)/124/2011
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	SEIAA/GUJ/EC/5(e)&1(d)/124/2011

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
3	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
4	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
5	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
6	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
7	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
8	HCl	Tons per Annum (TPA)	N/A	15,000	9,282	
9	Tri Ethylene Glycol	Tons per Annum (TPA)	N/A	1,270	663	
10	PEG	Tons per Annum (TPA)	N/A	19,850	0	
11	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
12	Di Ethylene Glycol	Tons per Annum (TPA)	N/A	30,550	14,864	
13	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
14	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
15	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
16	Dilute H2SO4	Tons per Annum (TPA)	N/A	4,600	3,382	
17	Ethylene Glycol (EG)	Tons per Annum (TPA)	N/A	3,08,350	1,42,557	
18	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
19	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
20	Ethylene Oxide (EO)	Tons per Annum (TPA)	N/A	1,50,000	62,371	
21	TEG Bottom	Tons per	N/A	2,880	416	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: f. Use of high pressure hoses for cleaning to reduce wastewater generation.
PPs Submission: Complied High pressure hoses are used for cleaning which ensures reduction in wastewater generation.		Date: 22/11/2024
2	Noise Monitoring & Prevention	Construction equipment generating minimum noise and vibration shall be chosen
PPs Submission: Complied Construction equipment generating low noise and vibration was chosen during the erection of the plant.		Date: 22/11/2024
3	Noise Monitoring & Prevention	Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipment to reduce noise generation
PPs Submission: Complied Proper oiling, lubrication and preventive and regular maintenance of machineries and equipment is done to reduce noise generation.		Date: 22/11/2024
4	AIR QUALITY MONITORING AND PRESERVATION	The company shall install and operate continuous ambient air quality monitoring station within the premises. The monitoring station shall be fixed in consultation with the GPCB
PPs Submission: Complied Continuous Ambient Air Quality Monitoring Station (CAAQMS) is installed and operational within the premises. Photograph of CAAQMS can be seen in Annexure LIV. Location of CAAQMS is fixed by consulting GPCB officials during their visit and after getting their concurrence.		Date: 21/11/2024
5	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: g. Regular preventive maintenance for avoiding leakage, spillage etc.
PPs Submission: Complied At plant level regular preventive maintenance of equipment is carried out and maintained in the SAP system.		Date: 22/11/2024
6	WATER QUALITY MONITORING AND PRESERVATION	Fresh water requirement shall not exceed 1,15,420 KLD after the proposed expansion. This Condition has been amended vide EC amendment order no SEIAA/GUJ/EC/7 (e)278/2011 dated 13th Sep 2012 & SEIAA/ GUJ/EC/1(d)&7(e)/96/2015 dated 02nd March 2015. The amended condition is given below: “fresh water requirement after the proposed expansion for the RIL-DMD complex shall not exceed 1,27,382 KL/day” This Condition has been amended vide latest EC amendment order no J-11011/39/2016-IA-II (I) dated 03rd April 2017. The amended condition is given below: ‘’Total water requirement from Govt. of Gujarat, Vadodara Irrigation Division (VID) and from GIDC shall not exceed 1,86,315 m3/day” It shall be met from river Narmada through Jackwells at Angareshwar No ground water shall be used for the project

		PPs Submission: Complied The average fresh water consumption in plant has always been less than 1,15,420 KLD. The average fresh water requirement for the period Apr-24 to Sept-24 was 87,716 KLD which is also not exceeding the permissible limit of 1,86,315 KLD prescribed under the latest EC accorded vide letter No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. However, the fresh water consumption quantity prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 1,38,700 m3/d. The summary of fresh water consumption during reporting period of Apr-24 to Sept-24 is enclosed in Annexure XCII. Fresh Water requirement is met from river Narmada through Jack wells at Angareshwar with prior approval from Irrigation department for water drawl. Copy of letter is enclosed as Annexure XXVII. No ground water is used at site. The water requirement for the complex is met through Narmada water as mentioned in the compliance of condition above.	Date: 21/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	The industrial wastewater generation shall not exceed 44,600 KLD after the proposed expansion	
		PPs Submission: Complied The average industrial effluent generation after commissioning of the PTA and PET plant, is 38,826 KLD for the period of Apr-24 to Sept-24 which is less than the permissible limit of 51,002 KLD prescribed under Consolidated Consent and Authorisation (CCA) Order No. No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026. The current effluent generation quantity from the complex for the review period of Apr-24 to Sept-24 can be referred from Annexure XCII.	Date: 21/11/2024
8	WATER QUALITY MONITORING AND PRESERVATION	The company shall provide ETP consisting of primary, secondary and tertiary treatment facilities for treatment of the effluents from the proposed plants	
		PPs Submission: Complied The wastewater generated at the plant is treated in Effluent treatment plant consisting of Primary, Secondary and Tertiary effluent treatment units. Photographs of the same can be seen in Annexure XXV.	Date: 21/11/2024
9	WATER QUALITY MONITORING AND PRESERVATION	The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the outlet.	
		PPs Submission: Complied The ETP is operated regularly and efficiently and has achieved the GPCB discharge norms during review period of Apr-24 to Sept-24. Effluent discharge from the complex are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standards. MoEFCC recognition letter and NABL certificate is enclosed as Annexure II. The detailed treated effluent monitoring report is enclosed as Annexure VII. From the results, it can be seen that the ETP is operating regularly and efficiently and all the results are complying with the GPCB norms.	Date: 21/11/2024
10	WATER QUALITY MONITORING AND PRESERVATION	Out of 44,600 KLD of treated effluent 14,080 KLD shall be reused/recycled in cooling tower, green belt development/ horticulture etc. Whereas rest of 30,520 KLD shall be discharged into the deep sea (Gulf of Cambay) through the existing effluent disposal pipeline equipped with multiport diffuser.	
		PPs Submission: Complied During the review period Apr-24 to Sept-24., out of the 38,826 KLD effluent generated from complex, 19,111 KLD of treated effluent was recycled. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 enclosed in Annexure XCII against the Permissible limits prescribed under the Consolidated Consent and Authorization order no AWH-121992 dated 25th November 2022, granted by GPCB and valid till 3rd November, 2026. Average quantity of 19,715 KLD of treated effluent discharged from RIL-DMD into Gulf of	Date: 21/11/2024

Cambay in the deep sea area through existing effluent disposal pipeline during this period of Apr-24 to Sept-24. A multiport diffuser is provided at the end of treated effluent discharge line for proper dispersion of effluent. The total effluent discharge quantity prescribed under the EC accorded vide letter No. J-11011/39/2016-IA-II (I) dated 03rd April 2017 is 39,686 KLD. However, the total effluent discharge quantity for the existing plant prescribed Consolidated Consent and Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 36,292 m3/d. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 enclosed in Annexure XCII. It can be seen from the results that the, the average effluent discharge from the complex has not exceeded the permissible limit of 36,292 KLD during reporting period.			
11	WATER QUALITY MONITORING AND PRESERVATION	The unit shall provide metering facility at the inlet and outlet of the ETP and maintain the records of the same. Also provide online monitoring system for pH, TDS, & TOC parameters at the outlet of the ETP	
PPs Submission: Complied Metering facility i.e. Flow meters have been provided at the inlet and outlet of ETP and records are maintained. Photographs of flow meters at the inlet and outlet of the ETP can be seen in Annexure XLIV. Online pH, BOD, COD and TSS analyzers are provided at the outlet of the ETP. Photograph of online monitoring system and analyzer room can be seen in Annexure XLV.			Date: 21/11/2024
12	WATER QUALITY MONITORING AND PRESERVATION	A proper logbook of ETP operation and so showing the quantity of effluent generated, utilized for plantation/gardening etc. shall be maintained and furnished to the GPCB from time to time	
PPs Submission: Complied Logbook of ETP operation is maintained and it includes quantity of effluent generation and recycled within the complex for plantation / gardening, etc. The same has been furnished to GPCB from time to time as and when asked. The details of quantity of effluent generation and recycle is given in earlier condition (condition no. 5). Photograph of Typical logbook is enclosed as Annexure XLVI.			Date: 21/11/2024
13	WATER QUALITY MONITORING AND PRESERVATION	Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy through credible institutes like LD college of Engineering, NPC or such other institutes of similar repute. Its records shall be maintained.	
PPs Submission: Complied Performance evaluation of ETP by external agencies is being carried out regularly through environmental auditor appointed by GPCB and the records are maintained. M/s. Sophisticated Instrumentation Centre for applied Research and Testing (SICART) Parul Institute of Technology, Vallabh Vidyanagar -388 120, appointed by GPCB has done annual environmental audit which includes performance evaluation of ETP for the year 2022-23. The report is being submitted regularly to GPCB. Environment Adequacy certificate is enclosed as Annexure XLVII.			Date: 21/11/2024
14	Noise Monitoring & Prevention	Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.	
PPs Submission: Complied Use of PPEs like ear plugs / ear muffs are made compulsory at site. It is being ensured and supervised through work permit procedure, Contractor Field Round and Daily Field round by Plant Safety Representative at plants.			Date: 22/11/2024
15	Noise Monitoring & Prevention	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	
PPs Submission: Complied Vehicles and construction equipment with internal combustion engines without proper silencer were			Date: 22/11/2024

not allowed to operate during the erection of the plant.		
16	Noise Monitoring & Prevention	Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
PPs Submission: Complied Construction equipment meeting the norms specified by EP Act, 1986 were used during the construction phase of the plants.		Date: 22/11/2024
17	Noise Monitoring & Prevention	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.
PPs Submission: Complied Low Noise generating DG sets are being used at the site. The site is with in industrial zone. No residential or sensitive zone nearby.		Date: 22/11/2024
18	Noise Monitoring & Prevention	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.
PPs Submission: Complied Noise mufflers for motorized equipment have been provided on all the motorized equipment		Date: 22/11/2024
19	Noise Monitoring & Prevention	The overall noise level in and around the plant areas shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.
PPs Submission: Complied Noise control measures such as acoustic hoods, silencers etc. are provided at high noise generating source with-in the plant. Noise level at the site is monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it is observed to be well within the prescribed workplace noise level of 85 dBA. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed workplace noise level monitoring report is enclosed as Annexure XXXII. All results are conforming to the standards prescribed by GPCB norms. Ambient noise levels conform to the standard prescribed under EPA Rules, 1989 viz. 75 dBA (Day Times) and 70 dBA (Night time). The ambient noise level monitoring has been carried out on monthly basis in existing complex including PTA and PET plants at 7 locations during day time and night time. The summary of report is given in this condition. Detailed ambient noise level monitoring report is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms. Workplace noise levels for workers is maintained well below the limit of 85 dB(A) as per the Factories Act and Rules. The results of work place noise level are given in the earlier condition (condition no. 43).		Date: 22/11/2024
20	ENERGY PRESERVATION MEASURES	The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms
PPs Submission: Complied Energy efficient devices have been provided in the plant like variable frequency drives etc.		Date: 22/11/2024
21	ENERGY PRESERVATION MEASURES	The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented.
PPs Submission: Complied Electrical Energy Audit is being carried out once in two years by third party. Recommendations of		Date:

the audit report are implemented.		22/11/2024
22	ENERGY PRESERVATION MEASURES	The project proponent shall implement the application of solar energy which shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating systems.
PPs Submission: Complied Use of Solar energy is already explored, currently under evaluation and approval stage.		Date: 22/11/2024
23	ENERGY PRESERVATION MEASURES	The transformers and motors shall have minimum efficiency of 85%.
PPs Submission: Complied Transformers and motors of efficiency higher than 85 percent are selected at design stage itself.		Date: 22/11/2024
24	ENERGY PRESERVATION MEASURES	Variable frequency drives shall be installed
PPs Submission: Complied Variable Frequency Drives installed at PTA and PET plants.		Date: 22/11/2024
25	ENERGY PRESERVATION MEASURES	Energy conservation measures shall include use of electronic lighting system, use of CFL tubes to minimize energy use, use of programmable timers for pumping system and lighting, water level controllers for water pumps, centralized cooling etc
PPs Submission: Complied Energy conservation methods like use of LED lighting for office, street lighting and plant peripheral lighting, programmable timers for lighting in non-plant areas are being implemented. Photographs are enclosed in Annexure LX.		Date: 22/11/2024
26	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Constant monitoring of energy consumption and defining targets for energy conservation
PPs Submission: Complied Department level targets have been fixed and energy consumption is monitored against those targets. Constant Monitoring of energy consumption is done by Energy cell with BEE Qualified energy manager, energy auditor.		Date: 22/11/2024
27	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level
PPs Submission: Complied Illumination level audit is being carried out once in two years as a Part of Electrical audit. Sensors have been provided in few office rooms to automatically switch off lighting in case of no movement in the room.		Date: 22/11/2024
28	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Use of solar cells for lighting
PPs Submission: Complied Solar cells for traffic lights are installed. Photograph of the same is enclosed as Annexure LXI.		Date: 22/11/2024

29	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Use of solar water heater for canteen & washing area.

PPs Submission: Complied Use of Solar energy for water heating is already explored and Solar water heater project is under evaluation.	Date: 22/11/2024

30	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Proper load factor shall be maintained by the unit.

PPs Submission: Complied Adequate load factor is maintained.	Date: 22/11/2024

31	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting

PPs Submission: Complied Day light roofs are provided at our store and warehouse areas. Photographs of the same is enclosed as Annexure LXII.	Date: 22/11/2024

32	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Use of electronic ballast to save energy

PPs Submission: Complied Electronic ballast / relevant systems are provided in lighting equipments.	Date: 22/11/2024

33	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Automatic switching system for lighting and water tank pumping shall be used.

PPs Submission: Complied Automatic switching system for lighting are provided at various areas of plants. Automatic switching system for water tank pumping is also provided.	Date: 22/11/2024

34	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: To the maximum extent possible and technically feasible, energy efficient equipment like motors, pumps, air conditioning systems shall be selected.

PPs Submission: Complied Energy efficient equipments like motors, pumps, air conditioning systems are selected and installed to the maximum extent possible, wherever feasible.	Date: 22/11/2024

35	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Gravity flow shall be preferred wherever possible to save pumping energy..

PPs Submission: Complied Gravity flow is being preferred wherever it is possible.	Date: 22/11/2024

36	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Promoting awareness on energy conservation

PPs Submission: Complied Regular training and awareness campaigns are carried out for all employees on energy conservation. RIL Dahej has 28 BEE certified energy professionals.	Date: 22/11/2024

37	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced: Training to the staff on methods of energy conservation and to be vigilant for

		this.
PPs Submission: Complied Training is being imparted regularly by our Learning and Development Department.		Date: 22/11/2024
38	MISCELLANEOUS	CLEANER PRODUCTION AND WASTE MINIMISATION: The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB
PPs Submission: Complied Site has adopted the best available technology for achieving resource reduction and waste minimization. RIL has already submitted an application to Gujarat Cleaner Production Council for assessment.		Date: 22/11/2024
39	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: a. Metering and control of quantities of active ingredients to minimize waste
PPs Submission: Complied All active ingredients are metered at all the plant. Metering and control is provided for active ingredients to ensure waste minimization.		Date: 22/11/2024
40	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: b. Reuse of by-products from the process as raw materials or raw materials substitutes in other process.
PPs Submission: Complied Reuse of by-products is implemented wherever possible such as Productive management of waste residue streams is done in PTA plant by recovering Suspended solids powder resulting in reuse of solid waste.		Date: 22/11/2024
41	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: c. Use of automated and enclosed filling to minimize spillages
PPs Submission: Complied Automated and enclosed material transfer system implemented to minimize spillages. Photograph enclosed as Annexure LXIII.		Date: 22/11/2024
42	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: d. Use of closed feed system into batch reactors
PPs Submission: Complied Closed feed system provided in the process units.		Date: 22/11/2024
43	WASTE MANAGEMENT	The company shall undertake the following waste minimization measures: e. Dry cleaning / mopping of floor washing
PPs Submission: Complied Practiced at all the administrative buildings including plant control rooms.		Date: 22/11/2024
44	WATER QUALITY MONITORING AND PRESERVATION	The effluent disposal pipeline shall be monitored regularly by the company. It shall be ensured that there is no leakage from the pipeline. In case of any such eventualities, the company shall immediately stop disposal through pipeline and take the corrective measures in consultation with the GPCB and the District Collector

PPs Submission: Complied Effluent disposal pipeline is being regularly checked by site maintenance department for leakages through walkthrough surveys. During Apr-24 to Sept-24, no leakage was observed. During Apr-24 to Sept-24, no such eventualities have arisen.		Date: 21/11/2024
45	Marine/Coastal	The post project environmental monitoring through the reputed institutes / organizations shall be carried out in order to assess the changes if any in coastal environment due to disposal of effluent
PPs Submission: Complied The post project environment monitoring of coastal environment has been carried out by NIO while carrying out EIA of subsequent projects to assess the changes. There was no adverse impact observed on the coastal environment due to RIL DMD. The last monitoring report carried out by M/s Indomer is enclosed as Annexure XLVIII.		Date: 21/11/2024
46	MISCELLANEOUS	The unit shall join and participate financially and technically for any common environmental facility infrastructure as and when the same is taken up either by GIDC or GPCB or any such authority created for this purpose by the Govt/GIDC
PPs Submission: Complied During the review period of Apr-24 to Sept-24, no such proposal came from GIDC / GPCB. RIL will participate financially and technically in any such project proposed or being taken up by Govt / GIDC / GPCB.		Date: 21/11/2024
47	AIR QUALITY MONITORING AND PRESERVATION	Only natural gas shall be used as a fuel in the proposed expansion.
PPs Submission: Complied Only PTA and PET plants have been commissioned out of proposed plants of this EC. Natural gas is being used as a fuel in the PET plant during review period of Apr-24 to Sept-24. Whereas PTA plant does not require any fuel as it has no furnace, boilers, heaters or vaporizers.		Date: 21/11/2024
48	AIR QUALITY MONITORING AND PRESERVATION	All fuel combustion units shall be operated with min. excess air so that fuel combustion is optimized and emission of NOx is minimized. Tangential / low NOx burners in all combustion units with online analyser shall be implemented in the proposed plants.
PPs Submission: Complied All fuel combustion units are operated at minimum excess air to optimize fuel combustion and minimize the emission of NOX. The online O2 monitors in furnaces are used for optimizing the air/fuel ratio. By controlling the flow of air, NOx generation is minimized. Flue gas emissions from the stacks attached to the boiler, furnaces / heaters are regularly monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure III. The summary of flue gas emission results and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms. NOx emission from boilers / furnaces can be seen in detailed stack emission monitoring data enclosed as Annexure III. Low NOX burners have been provided in the combustion units with online analyzers in the plants.		Date: 21/11/2024
49	AIR QUALITY MONITORING AND PRESERVATION	Process emission like SO2, NOx, PM, etc. shall be controlled with the adequate air pollution control equipment (APCEs). These APCEs shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack/vent outlets.
PPs Submission: Complied Adequate Air Pollution Control Equipment (APCEs) for controlling process emissions such as SO2,		Date: 21/11/2024

		NOx, PM, etc. have been provided in the stacks to meet the prescribed norms. Details of Air pollution control equipments installed in plants is enclosed as Annexure XXIV. Process emissions like SO2, NOx, PM from PTA and PET plants are monthly monitored through MoEFCC recognised and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standards. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of PTA and PET stacks emission and Detailed stack monitoring report is enclosed in Annexure III. All the results are well within the norms prescribed by GPCB. The above results are complying with the norms prescribed by GPCB which indicate that APCE provided at PTA and PET plants are operating efficiently and effectively.
50	AIR QUALITY MONITORING AND PRESERVATION	Stacks and vents of adequate height as per the prevailing norms along with port holes and sampling facilities shall be provided.
		PPs Submission: Complied Stacks and vents of PTA and PET plant are having adequate height as per the prevailing norms along with port holes and sampling facilities. Photograph of one such stack is enclosed as Annexure XLIX. 6 process vents of PTA plant (2 Units) are of 51.7, 53.2 and 44.9 meter heights and 4 flue gas stack of PET plant with 60-meter height has been provided with port holes and sampling facility. It complies with prevailing norms of stack height. The summary of PTA and PET stacks emission and Detailed stack monitoring report is enclosed in Annexure III. All the results are well within the norms prescribed by GPCB.
		Date: 21/11/2024
51	AIR QUALITY MONITORING AND PRESERVATION	The company shall install online monitoring system in the proposed plants with an arrangement to reflect the monitored data on the company's server , which can be accessed by the GPCB on real time basis
		PPs Submission: Complied Continuous online monitoring equipments have been installed for all stacks and connected to CPCB / GPCB. One such trend of CEMS of PTA plant is enclosed as Annexure L.
		Date: 21/11/2024
52	AIR QUALITY MONITORING AND PRESERVATION	The fugitive emission in the work zone environment shall be monitored. The emissions shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directorate of Industrial Safety & Health) Following steps shall be taken to reduce the fugitive emission of VOCs: >Provision of internal floating roof tanks with flexible double seal for storage tanks > Provision of mechanical seals in pumps >Regular inspection of floating roof seals and proper maintenance of floating roof seals for existing tanks >Preventive maintenance of valves and other equipment >Regular skimming of oil from separators /equalization basin in the ETP > Fugitive emission monitoring at regular intervals > Strengthening /maintaining existing green belt > Use of high grade gasket material for packing and Provision of motor operated valves for critical services such as high vapour pressure components and chemicals > Implementation of Leak Detection and Repair (LDAR) programme using a portable VOC detection instrument >Monitoring of dioxin and furan from the stacks of incinerators at a regular interval to keep close vigil on such emissions due to burning organo-chlorine compounds, if any
		PPs Submission: Complied The fugitive emission in the work zone environment (i.e. Work place environmental monitoring) is monitored periodically for existing facilities including PTA and PET plant. Occupational exposure is compared against standards prescribed by the concerned authorities periodically (e.g. Directorate of Industrial Safety and Health and ACGIH (American Conference of Governmental Industrial Hygienist). LDAR Report of PTA / PET plant is enclosed as Annexure LI. Storage Tanks are designed as per API standard in the PTA and PET plants and it is provided with internal floating
		Date: 21/11/2024

	roof with flexible double seal. Photographs of the same is enclosed as Annexure LII. Mechanical seals are provided in the pumps / compressors of the PTA and PET plants. Regular inspection and proper preventive maintenance of floating roof seals is being carried out. Preventive maintenance of valves and other equipment is being done regularly in the plants as per schedule. Regular skimming of oil from oil separators / equalization tank is carried out in the ETP. The collected oil is then transferred to Slop Oil Tank. Photograph of Oil separator and slop oil tank is enclosed as Annexure LIII. Fugitive emission monitoring is done in all plants at regular intervals through the Leak Detection and Repair Program. LDAR Report of the plant is enclosed as Annexure LI. Strengthening of green cover through gap plantation and maintenance of the existing green cover spread over the area of 203 ha is being done. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. High grade gasket material for packing is used and motor operated valves for critical services such as high vapour pressure components and chemicals are provided. Leak Detection and Repair Program (LDAR) is implemented throughout the complex including PTA and PET plants and monitoring is being done by using portable VOC detection instruments. LDAR Report of the plant is enclosed as Annexure LI. Not applicable as no incinerator is installed in PTA and PET plants.	

53	AIR QUALITY MONITORING AND PRESERVATION	Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy , through credible institutes like LD college of Engineering, NPC or other such other institutes of similar repute, and its records shall be maintained and furnished to the GPCB from time to time

PPs Submission: Complied Performance evaluation of air pollution control systems by external agencies is being regularly carried out through environmental auditor appointed by GPCB. M/s. Sophisticated Instrumentation Centre for applied Research and Testing (SICART), Vallabh Vidyanagar -388 120, has done Annual audit which includes performance evaluation of APCE for the year 2022-23. The report is submitted regularly to GPCB. Environment Adequacy certificate is enclosed as Annexure XLVII.	Date: 21/11/2024

54	GREENBELT	The unit shall develop green belt within premises as per the CPCB guidelines. In addition to that, the unit shall take up adequate plantation on road sides and suitable open areas in the GIDC estate, nearby schools, gram panchayat areas and any other open areas in consultation with GIDC / local bodies / GPCB and submit an action plan of plantation for next three years to the GPCB

PPs Submission: Complied Complied. Site has developed around 203 ha of green cover as per the CPCB guidelines at Dahej Petrochemical Complex. Trees have been planted throughout the periphery of the complex as well as wherever open spaces are available. Landscaping (through lawns and shrubs) have also been done. Every year plantation drive is being done to strengthen the green cover in the complex. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Native plant species are selected for planting of the green belt as per the guidelines of CPCB. Few of the plant species existing at the site are: Casuarina equisetifolia (Suru), Azadirachta indica (Neem), Millettia pinnata (Karanj), Cassia siamea (Kashid), Albizia procera (Shirish), Delonix regia (Gulmohar), Peltophorum pterocarpum etc. Adequate plantation carried out on road sides near the site and open areas of GIDC near site. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX.	Date: 22/11/2024

55	WATER QUALITY MONITORING AND PRESERVATION	Industries shall prepare and implement a scheme for reuse / recycle of effluent by adopting best technologies available

PPs Submission: Complied To maximize recycle and reuse of effluent, we have designed and commissioned effluent treatment unit consisting of Advanced Anaerobic UASB system and Membrane based Aeration system i.e., Membrane Bioreactor (MBR), Ultrafiltration and Reverse Osmosis (RO) systems. Photographs of the same can be seen in Annexure XXV.	Date: 22/11/2024

56	WASTE MANAGEMENT	The company must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 as may be amended from time to time

PPs Submission: Complied RIL DMD strictly complies with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and its subsequent amendments thereof. Hazardous wastes generated from PTA and PET plants is being managed in accordance with the amended Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. The authorization obtained from GPCB under these rules vide Authorization Order No. AWH-121992 dated 25th November 2022, valid upto 3rd November, 2026. Photographs of Hazardous waste storage area is enclosed as Annexure XXXIX. Typical TREM Card is enclosed as Annexure XLII and manifest copy as Annexure XLIII.	Date: 21/11/2024

57	WASTE MANAGEMENT	Authorization from the GPCB must be obtained for collection / treatment / storage/ disposal of hazardous wastes.

PPs Submission: Complied Authorization for Hazardous wastes management is obtained from GPCB vide Authorization Order No. AWH-121992 dated 25th November 2022, for collection / treatment / storage / disposal of hazardous wastes from the complex. The hazardous waste is being disposed as per methods prescribed in the Authorization. Please refer Form-4 submitted to GPCB for year 2023-24 as Annexure IX.	Date: 21/11/2024

58	WASTE MANAGEMENT	The hazardous wastes shall be stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility before its disposal.

PPs Submission: Complied Hazardous wastes from respective plants are stored at designated area having impervious bottom with peripheral drain for collection of leachate / spill as interim storage. This waste is shifted at regular interval to Central Hazardous waste storage facility which is developed as per CPCB guidelines with impervious flooring, leachate collection facility and rain protection shelter. Photographs of Hazardous waste storage area is enclosed as Annexure XXXIX.	Date: 21/11/2024

59	WASTE MANAGEMENT	ETP sludge, incinerator ash etc. shall be disposed in the secured landfill site

PPs Submission: Complied ETP sludge is being disposed in common TSDF site. Incinerator is not installed for PTA and PET plants hence there is no generation of Incinerator ash. Record of ETP sludge disposal in common TSDF is enclosed as Annexure LV.	Date: 21/11/2024

60	WASTE MANAGEMENT	The wastes like spent resins from phenol plant, spent oxide filter cartridges, spent charcoal, adsorbents, oil cotton rags etc. shall be disposed by incineration.

PPs Submission: Complied Phenol plant is not established hence spent resin from it is not generated. Other wastes are handled as per the Hazardous Waste authorization granted by GPCB. Details of waste disposal is enclosed as Annexure VIII.	Date: 21/11/2024

61	WASTE MANAGEMENT	Spent catalysts, alumina desiccant, spent lead acid batteries, degraded Dowtherm, spent molecular sieve etc., and shall be sold only to the registered reprocessors / recyclers.

	PPs Submission: Complied Spent catalysts, alumina desiccant, spent lead acid batteries, degraded Dowtherm, spent molecular sieve, etc., are sold only to the registered reprocessors / recyclers. Details of waste disposal is enclosed as Annexure VIII.	Date: 21/11/2024
62	WASTE MANAGEMENT	Discarded containers/ barrels/ bags/liners shall be either reused or sold only to the authorised recyclers after decontamination.
	PPs Submission: Complied Discarded containers / barrels / bags generated from respective plants get decontaminated, labelled as Decontaminated and then sold to the authorized recyclers as per GPCB directives. Dedicated drum decontamination facility has been provided for all plants including PTA and PET plants. Details of waste disposal is enclosed as Annexure VIII.	Date: 21/11/2024
63	WASTE MANAGEMENT	Used oil shall be sold only to the registered recycler
	PPs Submission: Complied Used oil is sold to the registered recyclers / re-processors. Details of waste disposal is enclosed as Annexure VIII.	Date: 21/11/2024
64	Risk Mitigation and Disaster Management	Provisions of the Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 & Factories Act, 1948 shall be strictly complied with.
	PPs Submission: Complied Provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended in 2000 and Factories Act, 1948 are being complied by ensuring the following activities: - Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXIV. - Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXV. - Conducting mock drills on regular basis. One such mock drill report is enclosed as Annexure XXXVI. - Provision of emergency alert system like sirens, announcement etc. and ensuring their healthiness. Details of siren submitted to DISH is enclosed as Annexure XXXVII. - Mutual aid arrangement with neighboring industries. Agreement copy is enclosed as Annexure XXXVIII.	Date: 21/11/2024
65	Risk Mitigation and Disaster Management	Recommendations made in the Risk Assessment Study Report submitted by the project proponent shall be implemented
	PPs Submission: Complied Recommendations made in the risk assessment study report are implemented and complied with for existing units including PTA and PET plants. e.g. - Control rooms are constructed having blast proof and shock proof walls. - Storage area is separated from process areas and flammable materials. - Provided proper dyke for storage tanks with fire protection measures.	Date: 21/11/2024
66	Risk Mitigation and Disaster Management	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of: Toxic chemicals or Hazardous chemicals.
	PPs Submission: Complied Following safety measures have been adopted to avoid accidents at the site during storage and handling of toxic / hazardous chemicals: - Separate dyke area provided for the different products and storage areas. - Storage areas are separated from building process areas and flammable materials. - Level indicators, trips and alarm systems. - Adequate Fire protection systems are provided.	Date: 21/11/2024
67	Risk Mitigation and Disaster Management	All the materials shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained (if required) before commencing the expansion activities.
	PPs Submission: Complied All materials are stored only in required quantities matching with the production capacities and	Date:

permission from PESO, Nagpur has been obtained for the same. PESO approval for one of the material is enclosed as Annexure XI.		21/11/2024
68	Risk Mitigation and Disaster Management	Storage and use of hazardous chemicals shall be minimized to the extent possible and All necessary precautions shall be taken to mitigate the risk generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks/containers instead of one single large capacity tank for safety purpose.
PPs Submission: Complied Hazardous chemicals are stored only as per the requirement matching with the production capacities and permission granted by PESO. Necessary precautions are taken for safe storage / handling of hazardous / toxic chemicals as detailed in earlier point (point no. 30). Hazardous chemical storage quantities are maintained only in minimum quantity as per requirement. The chemicals are stored in tanks of optimum size instead of small quantity capacity tanks for safety purpose.		Date: 21/11/2024
69	Risk Mitigation and Disaster Management	During material transfer, spillages shall be avoided and Garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water
PPs Submission: Complied Adequate control measures are taken to avoid spillage during material transfer job. Dedicated Garland / drainage network has been established in PTA and PET plants to avoid mixing of accidental spillages with domestic wastewater or storm water. Photograph of the same is enclosed as Annexure LVI.		Date: 21/11/2024
70	Risk Mitigation and Disaster Management	All the storage tanks shall be fitted with appropriate controls to avoid any leakages, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals. Close handling system for chemicals shall be provided
PPs Submission: Complied All storage tanks have proper safety mechanisms including level indicators, level alarms, bund / dyke walls are provided to avoid leakages / spillages of hazardous chemicals. Refer Annexure LVII for photograph. Chemicals from the storage tanks are transferred to the reactors in an automated manner with a closed loop system to avoid any manual exposure.		Date: 21/11/2024
71	Risk Mitigation and Disaster Management	Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check-up of the workers and keeping its record etc.
PPs Submission: Complied RIL-DMD has its own NABH accredited Occupational Health Center (OHC) with NABL accredited pathology lab. OHC is established at the petrochemical complex for providing immediate medical help in case of emergencies. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC. Details of checks conducted at the time of Fitness Examination and Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI.		Date: 22/11/2024
72	Risk Mitigation and Disaster Management	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
PPs Submission: Complied Personal Protective Equipment (PPEs) are provided to employees and contractors and are made compulsory to wear before entering the plant. This is being ensured regularly.		Date: 22/11/2024
73	Risk Mitigation and Disaster Management	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.

PPs Submission: Complied First Aid Box is available at strategic locations in each plant and antidotes for chemicals are readily available at OHC in adequate quantity. Photograph of First Aid box located at plant control room can be seen in Annexure LVIII.		Date: 22/11/2024
74	Risk Mitigation and Disaster Management	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
PPs Submission: Complied Training is imparted to all the workers on safety and health aspects of chemicals handling. The chemical handling related, safety and health training is imparted to all workers on RIL role and all contractor workers as well. The level-1 and level-2 training is provided to the contract workers which includes the safe work practices related to safe chemical handling and use of PPEs. At RIL-Dahej, employees are imparted safety training through induction and refresher training on safe work practices, safe chemical handling and use of PPE. Sample record of various trainings imparted is enclosed as Annexure LIX.		Date: 22/11/2024
75	Human Health Environment	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
PPs Submission: Complied Occupational health surveillance of the workers is done and its records are maintained. Typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC. Occupational Health Surveillance is carried out - At the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees. Typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI.		Date: 22/11/2024
76	Human Health Environment	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
PPs Submission: Complied Raw materials from the storage tanks are transferred to the reactors in an automated manner with a closed loop system to avoid any human exposure.		Date: 22/11/2024
77	Risk Mitigation and Disaster Management	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
PPs Submission: Complied Transportation of hazardous chemical is carried out as per the Motor Vehicle Act and Rules like: - Emergency information panel on Carrier - The product name, UN number, and CTU (Container carrier unit) identification number on the shipping document. - Training imparted to drivers by RIL Driver Safety Training Center and it is valid for one year for liquid / gas carrier drivers and two years for carrier driver. - Refresher training also shall be given by Driver Safety Training Center. - TREM Card. - Instruction to drivers on emergency situations.		Date: 22/11/2024
78	Noise Monitoring & Prevention	To minimize the noise pollution the following noise control measures shall be implemented.
PPs Submission: Complied These measures are ensured in the PTA and PET plants by addressing the requirements during the design phase itself.		Date: 22/11/2024
79	Noise Monitoring & Prevention	Selection of any new plant equipment shall be made with specification of low noise levels

PPs Submission: Complied Low noise generating equipment have been selected in the design stage itself.	Date: 22/11/2024

80	Noise Monitoring & Prevention	Manufacturers / suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national / international regulatory norms with respect to noise generation for individual units

PPs Submission: Complied Low noise generating equipment have been selected in the design stage itself. Equipment meet the national regulatory norms.	Date: 22/11/2024

81	Noise Monitoring & Prevention	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact

PPs Submission: Complied Regular and preventive maintenance of machinery and vehicles is undertaken.	Date: 22/11/2024

82	Noise Monitoring & Prevention	Noise suppression measures such as enclosures, buffers and /or protective measures shall be provided.

PPs Submission: Complied Noise suppression measures like acoustic chambers are provided wherever required.	Date: 22/11/2024

83	Noise Monitoring & Prevention	Employees shall be provided with ear protection measures like earplugs and earmuffs.

PPs Submission: Complied PPEs like ear muffs and ear plugs are mandatory for use by everyone working in high noise areas.	Date: 22/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.

PPs Submission: Complied Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger / alarm is raised in the DCS system which prevents the plant from restarting. During the period of Apr-24 to Sept-24, no such failure of pollution control equipment has been observed. Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.	Date: 22/11/2024

2	MISCELLANEOUS	The company shall strictly follow all the recommendations mentioned in the Chapter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board as may be applicable

PPs Submission: Complied Recommendations mentioned in the CREP are being complied.	Date: 22/11/2024

3	MISCELLANEOUS	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
PPs Submission: Complied Pucca flooring has been provided in all work areas, chemical storage areas and chemical handling areas as required.		Date: 22/11/2024
4	MISCELLANEOUS	Leakages from the pipes, pumps, shall be minimal and if occurs shall be arrested promptly
PPs Submission: Complied All pipes and material transfer systems are visually inspected at regular frequency and leaks are promptly identified and arrested.		Date: 22/11/2024
5	MISCELLANEOUS	All recommendations made in the EIA, EMP and other documents submitted by the project proponent shall be strictly implemented
PPs Submission: Complied Recommendations of EIA / EMP has been implemented.		Date: 22/11/2024
6	MISCELLANEOUS	The project proponent shall also comply with any additional condition that may be imposed by The SEAC or SEIAA or any other competent authority for the purpose of the environmental protection and management
PPs Submission: Complied No additional condition has been imposed by SEIAA, Gujarat for this EC during review period Apr-24 to Sept-24.		Date: 22/11/2024
7	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF / SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/SEIAA/SEAC for clearance, a fresh reference shall be made to the SEIAA / SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
PPs Submission: Complied Expansion or Modification of the RIL-DMD complex has been carried out only after obtaining the required Environmental Clearance (EC) under the EIA Notification, 2006. No changes / deviations have taken place at the DMD complex during the review period.		Date: 22/11/2024
8	MISCELLANEOUS	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
PPs Submission: Complied Adequate funds have been allocated for implementing the conditions stipulated conditions given by SEIAA and GPCB. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crores. Funds allocated for Environmental Management is used only for that purpose and not diverted for any other use.		Date: 22/11/2024
9	MISCELLANEOUS	The applicant shall inform the public that the project has been accorded environmental clearance by The SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA / SEAC / GPCB. This shall be

		advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry
PPs Submission: Complied The public was informed through public notice published in English New Paper in Times of India and Gujarati Newspaper in Naval Sandesh and the information has also been forwarded to the Regional Office of the MoEFCC, Bhopal. Newspaper cutting is enclosed as Annexure XL.		Date: 22/11/2024
10	Statutory compliance	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
PPs Submission: Complied Six monthly compliance report and monitoring data is submitted to MoEFCC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to Integrated Regional office of MoEFCC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted to GPCB on monthly basis Proof of submission of last EC Compliance report is enclosed as Annexure XVI.		Date: 22/11/2024
11	Statutory compliance	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board
PPs Submission: Complied All the stipulations laid down by GPCB is being complied with.		Date: 22/11/2024
12	MISCELLANEOUS	The project authorities shall inform the GPCB, RO of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
PPs Submission: Complied The project is already commenced and the necessary information about the project financial closure and project commencement was provided along with the first compliance report of this EC.		Date: 22/11/2024
13	MISCELLANEOUS	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory
PPs Submission: Complied This condition is not applicable to us.		Date: 22/11/2024
14	MISCELLANEOUS	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules
PPs Submission: Complied Noted.		Date: 22/11/2024

15	MISCELLANEOUS	This Environmental Clearance is valid for five years from the date of issue

PPs Submission: Complied Noted.	Date: 22/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All Annexures are uploaded as additional attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Environment and CRZ Clearance for the project - M/s Reliance Industries Limited (RIL) for setting up of a coal based Captive Co-generation Power Plant (CCPP) of 3 x 90 MW (270 MW) within the premises of Dahej Manufacturing Division (RIL-DMD) and proposed modification in existing Reliance Dahej Marine Terminal (RDMT) Jetty by receiving the coal by creating coal handling facility with 2.5 MMTPA capacity in the Narmada Estuary at Dahej, Dist- Bharuch in Category 1(d) & 7(e) respectively of the Schedule annexed with EIA Notification dated 14/09/06.
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	SEIAA/GUJ/EC/1(d)&7(e)/96/2015	**Category**	Thermal Projects
Plot / Survey / Khasra No.	N/A	**Sub-District**	N/A
State	GUJARAT	**Entity's PAN**	*****5055K
MoEF File No.	SEIAA/GUJ/EC/1(d)&7(e)/96/2015	**Entity name as per PAN**	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Coal Based Power	MW	N/A	270	--	
2	Gas Based Power	MW	N/A	195	--	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Noise Monitoring & Prevention	Selection of any new plant equipment shall be made with specification of low noise levels
PPs Submission: Complied Low noise generating equipment have been selected in the design stage itself.		Date: 22/11/2024
2	WASTE MANAGEMENT	Dry cleaning/mopping of floor instead of floor washing
PPs Submission: Complied Practiced at all the administrative buildings including plant control rooms.		Date: 22/11/2024
3	WASTE MANAGEMENT	Reuse of by-products from the process as raw materials or raw materials substitutes in other process
PPs Submission: Complied Reuse of by-products is implemented wherever possible such as Productive management of waste residue streams is done in PTA plant by recovering Suspended solids powder resulting in reuse of solid waste. Exploring reuse of Bio-sludge and spent carbon at CCPP.		Date: 22/11/2024
4	Marine/Coastal	The RIL-DMD shall strictly ensure that no creeks or rivers are blocked due to proposed activities in Tapi Estuary
PPs Submission: Complied RIL-DMD strictly ensures that no creeks or rivers are blocked due to proposed activities in Tapi Estuary. However, till date no activities have been carried out in Tapi Estuary.		Date: 22/11/2024
5	WASTE MANAGEMENT	Use of automated and enclosed filling to minimize spillages.
PPs Submission: Complied Automated and enclosed material transfer system implemented to minimize spillages.		Date: 22/11/2024
6	WASTE MANAGEMENT	Use of close feed system into batch reactors.
PPs Submission: Complied Closed feed systems are installed for existing plants and CCPP.		Date: 22/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	The unit shall provide metering facility at the inlet and outlet of the ETP and maintain the records of daily effluent generation and reuse and furnish it to the GPCB from time to time. The unit shall also provide on line monitoring system for pH, TDS & TOC parameters at the outlet of the ETP.

PPs Submission: Complied Metering facility i.e. Flow meters have been provided at the inlet and outlet of ETP and records are maintained and submitted to GPCB from time to time as and when asked. Photographs of flow meters at the inlet and outlet of the ETP can be seen in Annexure XLIV. Online pH, BOD, COD and TSS analyzers are provided at the outlet of the ETP. Photograph of online monitoring system and analyzer room can be seen in Annexure XLV. Our treated effluent is discharged into Gulf of Khambhat in the deep sea area therefore norms of TDS is not applicable to us.		Date: 22/11/2024
8	WASTE MANAGEMENT	Use of high pressure hoses for cleaning to reduce wastewater generation
PPs Submission: Complied High pressure hoses are used for cleaning which ensures reduction in wastewater generation.		Date: 22/11/2024
9	WASTE MANAGEMENT	Regular preventive maintenance for avoiding leakage, spillage etc
PPs Submission: Complied At plant level regular preventive maintenance of equipment is carried out and maintained in the SAP system.		Date: 22/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	All trucks shall be properly covered at top and bottom with perfect sealing of plastic/tarpaulin sheets.
PPs Submission: Complied All trucks are properly covered with tarpaulin sheets.		Date: 22/11/2024
11	Statutory compliance	The RIL shall furnish the environmental audit report including the aspects on coastal and marine environment to this Department every year.
PPs Submission: Complied The Environment audit is conducted by GPCB approved Environmental Auditor covering all aspects and report is submitted to GPCB every year. Covering letter of Audit report submission for the year 2023-24 is enclosed as Annexure LXVIII. Marine environment monitoring is carried out by approved agency and the final report is submitted to RIL-DMD. Copy of marine monitoring report is enclosed as Annexure XLVIII.		Date: 22/11/2024
12	WATER QUALITY MONITORING AND PRESERVATION	A proper logbook of ETP operation and also showing the quantity of effluent generated, reused / recycled, utilized in plantation/gardening etc shall be maintained and furnished to the GPCB from time to time.
PPs Submission: Complied Logbook of ETP operation is maintained and it includes quantity of effluent generated, reused / recycled, utilized in plantation / gardening etc. The same has been furnished to GPCB from time to time as and when asked. Photograph of Typical logbook is enclosed as Annexure XLVI. The average of effluent generation, recycle and discharge quantities during reporting period of Apr-24 to Sept-24 enclosed in Annexure XCII against the Permissible limits prescribed under the Consolidated Consent and Authorization order no AWH-121992 dated 25th November 2022, granted by GPCB and valid till 3rd November, 2026.		Date: 22/11/2024
13	Statutory compliance	In terms of captive power generation within the RIL-DMD complex, at any given point of time, the total installed capacity of the complex shall not exceed 499 MW and operating power generation capacity of the complex shall not exceed 270 MW. This Condition has been amended vide EC amendment order no SEIAA/GUJ/EC/1(d) & 7(e)/583/2016. The amended condition is given below: “In terms of captive power generation within the RIL-

		DMD complex, at any given point of time, the total installed capacity of the complex shall not exceed 499 MW and operating power generation capacity of the complex shall not exceed 465 MW."
PPs Submission: Complied The total installed capacity of the complex has not exceeded 499 MW and operating power generation capacity of the complex has not exceeded 465 MW during the period of Apr-24 to Sept-24.		Date: 22/11/2024
14	Statutory compliance	The additional amended condition is given below: "Unit shall comply the emission standards mentioned in the Notification by MoEF&CC vide no. S.O.3305 dated 07/12/2015."
PPs Submission: Complied RIL DMD coal based Captive Cogeneration Power Plant (CCPP) is complying with the Thermal Power Plant emission standards mentioned in the Notification by MoEFCC vide no. S.O.3305 dated 07/12/2015. Stack emissions parameters like SO2, NOx, PM are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the MoEFCC prescribed standards. MoEFCC recognition letter and NABL certificate is enclosed as Annexure II. The summary of the emission results from CCPP stacks and detailed stack emission monitoring report is enclosed as Annexure III. All results are conforming to the norms specified by GPCB.		Date: 22/11/2024
15	Marine/Coastal	Cargo handling capacity of the RDMT jetty shall be <5 million TPA even after the proposed expansion/modification
PPs Submission: Complied The proposed modification in existing Reliance Dahej Marine Terminal (RDMT) jetty is yet to be started.		Date: 22/11/2024
16	Marine/Coastal	The RIL shall strictly adhere to the provisions of the CRZ Notification, 2011 issued by the Ministry of Environment and Forests, GOI.
PPs Submission: Complied The proposed modification in existing RDMT jetty is yet to be started. The provisions of the CRZ Notification, 2011 issued by the Ministry of Environment and Forests, GOI will be followed as and when it becomes operational.		Date: 22/11/2024
17	MISCELLANEOUS	The RIL shall obtain all necessary clearances permissions from different Government Departments/Agencies before commencing any construction activity related to the proposed project.
PPs Submission: Complied RIL-DMD has obtained all necessary clearances permissions from different Government Departments / Agencies before commencing any construction activity related to the CCPP. Copy of one such permission is enclosed as Annexure LXIV. The proposed modification in existing RDMT jetty is yet to be started.		Date: 22/11/2024
18	Risk Mitigation and Disaster Management	The RIL shall prepare Safety/fire control plan for coal handling/liquid handling and take all measures and appoint Safety Officer to oversee compliance.
PPs Submission: Complied Safety and Fire control plan has been prepared for coal handling / liquid handling for CCPP and all required measures are taken. We have also appointed Safety officers for the area to oversee compliances. Fire protection systems consists mainly of 7 fire tenders, more than 5500 portable fire extinguishers, 600 fire buckets, 56 foam systems and a network of more than 1100 double head hydrant posts all-round the plant area along with 250 water spray system / fume suppression system / sprinkler system and fire water pipeline network laid around 90 km. Also, more than 9000 automatic		Date: 22/11/2024

fire detection and alarm, manual fire alarm system, adequate capacity fire water storage tanks etc. have been installed. All these fire detection and protection measures are maintained and supported by a competent and experienced team of around 13 crew members / officers in each shift round the clock. Details of Fire control plan is enclosed as Annexure LXV.		
19	Marine/Coastal	The RIL shall have to obtain necessary permission from the GMB/Government for jetty/port under Maritime Board Act, 1980 and shall submit it to the GCZMA
PPs Submission: Complied Prior to implantation of Jetty modification plan, the necessary permission from the GMB / Government for jetty / port under Maritime Board Act, 1980 shall be obtained and submitted to the GCZMA. The proposed modification in existing RDMT jetty is yet to be started.		Date: 22/11/2024
20	MISCELLANEOUS	The RIL shall abide by the safety and environment protection measures emerges out of study earned out by the WPACOS Limited and DHI India
PPs Submission: Complied The proposed modification in existing RDMT jetty is yet to be started.		Date: 22/11/2024
21	Marine/Coastal	It shall be ensured that project activities do not lead to any shoreline changes. Periodic monitoring shall be carried out to assess the shoreline changes.
PPs Submission: Complied All necessary measures to ensure that project activities do not lead to any shoreline changes shall be implemented. The proposed modification in existing RDMT jetty is not yet started. Periodic monitoring will be carried out to assess the shoreline changes during construction phase of project. The proposed modification in existing RDMT jetty is not yet started.		Date: 22/11/2024
22	MISCELLANEOUS	It shall be ensured that due to the project activities, there is no adverse Impact on the drainage of the area.
PPs Submission: Complied Proposed project has not impacted the drainage pattern of the area.		Date: 22/11/2024
23	WASTE MANAGEMENT	The construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.
PPs Submission: Complied The construction materials and debris from the project plant were properly stored within the complex. Debris to fill low lying areas within the RIL-DMD site and construction materials like steel, wood, plastics, packaging etc. were sold to actual users.		Date: 22/11/2024
24	WASTE MANAGEMENT	The construction debris and /or any other type of waste shall not be disposed of into the sea, creek or in the CRZ areas The debris shall be removed from the construction site immediately after the construction is over.
PPs Submission: Complied No construction debris and / or any other type of waste have been disposed of into the sea, creek or in the CRZ areas. The debris have been removed from the construction site on regular basis and after the completion of construction phase.		Date: 22/11/2024
25	WASTE MANAGEMENT	Disposal of debris including the excavated material during construction phase shall not create adverse effect on neighboring

		communities and shall be disposed off taking the precautions for general safety and health aspects only at the approved sites with the approval of the competent authority.
PPs Submission: Complied The construction materials and debris were properly stored within premises. Debris has been disposed-off within our premises for filling purpose and construction materials like steel, wood, plastics, packaging etc. has been sold to actual users for recycling. Adverse impact on neighboring community is not envisaged as the existing complex located in notified industrial area.		Date: 22/11/2024
26	WASTE MANAGEMENT	Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
PPs Submission: Complied Fly ash generated from CCPP is utilized / disposed as per the Fly Ash Notification. The fly ash is used as building material in the construction, cement industries, road making and excess material is disposed at landfill site as per provisions of Fly Ash Notification under EPA. Fly ash disposed during the period of Apr-24 to Sept-24 is enclosed in Annexure LXXXII.		Date: 22/11/2024
27	MISCELLANEOUS	Only lead free paints shall be used in the project.
PPs Submission: Complied Only Lead free paints were used in the project.		Date: 22/11/2024
28	MISCELLANEOUS	The construction camps shall be located outside the CRZ area and the construction labor shall be provided with the necessary amenities including sanitation, water supply, fuel, etc. and the construction labor shall be provided with the necessary amenities including sanitation, water supply, fuel, etc. and it shall be ensured that the environmental conditions are not deteriorated by the construction labors
PPs Submission: Complied The construction camps are located within RIL DMD premises which is outside the CRZ area. All the necessary amenities including sanitation, water supply, fuel, etc. are provided to the construction labors. Environmental conditions were not deteriorated by construction labor.		Date: 22/11/2024
29	MISCELLANEOUS	Structural design aspects in accordance to the seismic zone shall be strictly adhered to.
PPs Submission: Complied Structural design of the CCPP has been carried out considering seismic zone of the area.		Date: 22/11/2024
30	MISCELLANEOUS	Superstructure shall be constructed with pre-cast /cast in-situ slab so far as possible. Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
PPs Submission: Complied Super structure is constructed with pre-cast / cast in-situ slab wherever possible along with steel structure. Construction best practices as mentioned were followed during construction to reduce water demand.		Date: 22/11/2024
31	Statutory compliance	Construction of the proposed structures shall be undertaken meticulously conforming to the existing local and central rules and regulations including the Coastal Regulation Zone Notification, 2011 & its amendments All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned Government Departments/Agencies.

	PPs Submission: Complied Construction of the structures has been undertaken meticulously conforming to the existing local and central rules and regulations. The Coastal Regulation Zone Notification, 2011 and its amendments are not applicable to construction activities of CCPP as it was within the RIL complex. All the construction designs / drawings relating to the construction activities have approvals of the concerned Government Departments / Agencies such as Directors of Industrial Safety and Health (DISH) and Factory Inspector. Copy of the same is enclosed as Annexure LXX.	Date: 22/11/2024
32	MISCELLANEOUS	The construction activities shall be carried out only under the constant supervision and guidelines of the institute of the National repute.
	PPs Submission: Complied The construction activities are carried out under the constant supervision of RIL project group and various institutes.	Date: 22/11/2024
33	WATER QUALITY MONITORING AND PRESERVATION	During construction phase domestic water requirement shall be met through the existing water supply system i.e intake well in the Narmada river at village Angareshwar. No ground water shall be tapped in any case for the project requirements during the construction phase.
	PPs Submission: Complied During construction phase domestic water requirement has been met through the existing water supply system i.e. intake well in the Narmada river at village Angareshwar. No ground water is tapped for the project requirements during the construction phase.	Date: 22/11/2024
34	Noise Monitoring & Prevention	The Diesel Generator Set, if any to be provided during the construction phase shall be of enclosed type and confirming to the EPA Rules for air and noise emission standards.
	PPs Submission: Complied The Diesel Generator Set used during construction phase were of enclosed type and confirming to the EPA Rules for air and noise emission standards.	Date: 22/11/2024
35	AIR QUALITY MONITORING AND PRESERVATION	Vehicles hired for bringing construction material at site should be in good conditions and confirm to applicable air and noise emission standards and should be operated only during non-peak hours
	PPs Submission: Complied Vehicles hired for bringing construction material at site were in good conditions and confirming to applicable air and noise emission standards and were operated only during non-peak hours.	Date: 22/11/2024
36	Noise Monitoring & Prevention	The overall noise level in and around the Jetty area shall be kept well within the standards by providing noise control measures including engineering controls on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
	PPs Submission: Complied The modification in existing RDMT jetty is yet to be started. Noise level monitoring is being done for existing complex through MoEFCC and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the same is carried out for CCPP areas. Monitoring results are found well within the norms. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of Workplace Noise Level monitoring and Detailed workplace noise level monitoring report for Apr-24 to Sept-24 is enclosed as Annexure XXXII. All results are conforming to the standards prescribed by GPCB norms. Ambient noise levels conforms to the standard prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night	Date: 22/11/2024

time). Detailed ambient noise level monitoring report for Apr-24 to Sept-24 is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms is presented below.		
37	WATER QUALITY MONITORING AND PRESERVATION	There shall be no water requirement for jetty operations and there shall be no industrial effluent generation from the proposed jetty operations
PPs Submission: Complied The modification in existing RDMT jetty is yet to be started.		Date: 22/11/2024
38	WATER QUALITY MONITORING AND PRESERVATION	The fresh water requirement for the proposed CCPP shall not exceed 28,800 KL/day (9,600 KL/day of DM water + 12,000 KL/day of cooling tower make up water) and fresh water requirement after the proposed expansion for the RIL-DMD complex shall not exceed 1,27,382.0 KL/day, which shall be obtained through the existing water allocation to RIL-DMD form an intake well in Narmada River at Angareshwar village Necessary permission from the concerned authority shall be obtained for drawl of additional water after the proposed Expansion Metering of water shall be done and its records shall be maintained. No ground water shall be tapped in any case for meeting the project requirements.
PPs Submission: Complied The fresh water consumed in CCPP was 19,157 KL/day (9,420 KL/day of DM water plus 7,254 KL/day of cooling tower make up water plus 1,941 KL/day service water) during the review period. The average fresh water requirement of the complex for the period Apr-24 to Sept-24 was 87,716 KLD which is also not exceeding the permissible limit of 1,27,382 KLD. The fresh water requirement for RIL-DMD complex is 1,86,315 KLD as prescribed under the latest EC accorded vide letter No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. However, the fresh water consumption quantity prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 1,38,700 m3/d. The summary of fresh water consumption during reporting period of Apr-24 to Sept-24 is enclosed in Annexure XCII. Fresh Water requirement is met from river Narmada through Jack wells at Angareshwar with prior approval from Irrigation department for water drawl. Copy of letter is enclosed as Annexure XXVII. Metering of water withdrawal is being done and records also maintained. No ground water is used at site. The water requirement for the complex is met through Narmada water as mentioned in the compliance of condition above.		Date: 22/11/2024
39	WATER QUALITY MONITORING AND PRESERVATION	The industrial effluent discharge from the RIL-DMD complex shall not exceed 33,419 KL/day after the proposed expansion.
PPs Submission: Complied Average quantity of 19,715 KLD of treated effluent discharged from RIL-DMD into Gulf of Khambhat in the deep sea area through existing effluent disposal pipeline during this period of Apr-24 to Sept-24. A multiport diffuser is provided at the end of treated effluent discharge line for proper dispersion of effluent. Effluent discharge quantity prescribed under Consolidated Consent and Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 36,292 m3/d. The current effluent generation, discharge and recycle quantity from the complex for the review period of Apr-24 to Sept-24 can be referred from Annexure XCII. All the values are well within the limits specified by GPCB.		Date: 22/11/2024
40	WATER QUALITY MONITORING AND PRESERVATION	Boiler blow down-380.0 KL/day from the proposed CCPP shall be recycled back as cooling tower make up water. About 50.0 KL/day of additional effluent from DM plant due to proposed CCPP shall be treated in the existing ETP. Cooling tower blow down shall be mixed with treated effluent of the complex and shall be discharged into the sea through the existing effluent diffuser at Gulf of Khambhat.

PPs Submission: Complied Boiler blow down from the proposed CCPP is being recycled back as cooling tower make up water for Cooling Towers in CCPP. The average Boiler blow down recycled during Apr-24 to Sept-24 is 145 KL/day. Additional effluent from DM plant is being treated in the existing ETP. Cooling tower blow down is mixed with treated effluent of the complex and discharged into the sea through the existing effluent diffuser at Gulf of Khambhat.		Date: 22/11/2024
41	WATER QUALITY MONITORING AND PRESERVATION	The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the outlet.
PPs Submission: Complied The ETP is operated regularly and efficiently and has achieved the GPCB discharge norms during review period of Apr-24 to Sept-24. The detailed treated effluent monitoring report is enclosed as Annexure VII. From the results, it can be seen that the ETP is operating regularly and efficiently and all the results are complying with the GPCB norms. Detailed treated effluent monitoring report is enclosed as Annexure VII.		Date: 22/11/2024
42	WATER QUALITY MONITORING AND PRESERVATION	Guard ponds of adequate storage capacity shall be provided for storage of effluent in case of emergency maintenance of effluent discharge pipeline.
PPs Submission: Complied Guard ponds of adequate storage capacity (2 Guard Ponds of 17,000 m3 each) have been provided at ETP as well as within plants for storage of effluent in case of emergency maintenance of effluent discharge pipeline. Photograph of Guard Pond is enclosed as Annexure LXXI. No emergency maintenance of effluent discharge pipeline carried out during review period Apr-24 to Sept-24.		Date: 22/11/2024
43	AIR QUALITY MONITORING AND PRESERVATION	All regularly used roadways around the site must be swept daily with a tank mounted road sweeper and washed by a truck mounted cart.
PPs Submission: Complied Arrangement for sweeping all regularly used roadways around the site has been done using sweeping machine. Photograph of sweeping machine is enclosed as Annexure LXXIX.		Date: 22/11/2024
44	AIR QUALITY MONITORING AND PRESERVATION	Regular cleaning of roads and removal of the accumulated dust from road sides.
PPs Submission: Complied Regular cleaning of roads and removal of the accumulated dust from road sides is being done.		Date: 22/11/2024
45	AIR QUALITY MONITORING AND PRESERVATION	The storage yard shall be covered with screens/walls of at least 7 to 8 m height on three sides
PPs Submission: Complied The storage yard is completely covered with walls and roof. Photograph of coal storage area is enclosed as Annexure LXXX.		Date: 22/11/2024
46	MISCELLANEOUS	Third party performance evaluation of the air pollution control systems including ESP shall be earned out at least once in a year to check its performance and efficiency through a reputed institute / organization like NPC, L D College of Engineering -Ahmedabad or such other institutes of similar repute, and its records shall be maintained

	PPs Submission: Complied Performance evaluation by external agencies of air pollution control systems including ESP is being regularly carried out through environmental auditor appointed by GPCB. Charotar University of Science and Technology, Charusat has done Annual audit which includes performance evaluation of APCE for the year 2023-24. The report is submitted regularly to GPCB. Environment Adequacy certificate is enclosed as Annexure XLVII.	Date: 22/11/2024
47	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground level concentrations of SO2, NOx, PM10 and PM2.5 shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed lim1ts, necessary additional control measures shall be taken Immediately.
	PPs Submission: Complied The site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex based on the mathematical modeling studies considering wind directions and the maximum Ground Level Concentration in downwind direction. AAQM location can be seen in the map enclosed as Annexure XVII. Ambient air quality monitoring is carried out twice a week at each location through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the AAQ monitoring results and Detailed AAQ Monitoring data for the period Apr-24 to Sept-24 can be referred from Annexure VI. All results are conforming to the standards prescribed by GPCB.	Date: 22/11/2024
48	AIR QUALITY MONITORING AND PRESERVATION	The company shall install and operate continuous ambient air quality monitoring station within the premises. The location of the continuous ambient air quality monitoring station shall be fixed in consultation with the GPCB.
	PPs Submission: Complied Continuous Ambient Air Quality Monitoring Station (CAAQMS) is installed and operational within the premises. Photograph of CAAQMS can be seen in Annexure LXXXI. Location of CAAQMS is fixed by consulting GPCB official in his visit and after getting their concurrence.	Date: 22/11/2024
49	WASTE MANAGEMENT	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management. Handling and Transboundary Movement) Rules 2008 as may be amended from time to time. Authorization from the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
	PPs Submission: Complied Hazardous wastes generated from plants is being managed in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016 and amendments thereof. The authorization obtained from GPCB under these rules vide Authorization Order No. AWH-121992 dated 25th November 2022, valid upto 03.11.2026. CCPP is also included in Amended Authorization. Photographs of Hazardous waste storage area is enclosed as Annexure XXXIX. Typical TREM Card is enclosed as Annexure XLII and manifest copy as Annexure XLIII. Authorization for Hazardous wastes management is obtained from GPCB vide Authorization Order No. AWH-121992 dated 25th November 2022, for collection / treatment / storage / disposal of hazardous wastes from the complex. The hazardous waste is being disposed as per methods prescribed in the Authorization. Please refer Form-4 submitted to GPCB for year 2023-24 as Annexure IX.	Date: 22/11/2024
50	WASTE MANAGEMENT	Hazardous waste shall be packed and stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility before its disposal

PPs Submission: Complied Hazardous waste from CCPP is stored at designated location with impervious bottom as interim storage. This waste is shifted at regular interval to Central Hazardous Waste Storage Area which is developed as per CPCB guideline with impervious flooring, leachate collection facility and rain protection shelter.		Date: 22/11/2024
51	WASTE MANAGEMENT	Used oil shall be sold only to the registered recyclers / refiners.
PPs Submission: Complied Used oil is sold to the registered recyclers / reprocessors.		Date: 22/11/2024
52	WASTE MANAGEMENT	The company shall make necessary arrangements for safe disposal of municipal solid wastes as per the provisions of the Municipal Solid Wastes (Management and Handling) Rules. 2000 as amended from time to time and no waste shall be released to the sea / creek or CRZ area in any case
PPs Submission: Complied Municipal Solid wastes are now being managed as per Solid Waste Rules, 2016. Solid Wastes such as office waste, canteen wastes are being properly collected and disposed as per defined mode of disposal. No waste is released to the sea / creek or CRZ area.		Date: 22/11/2024
53	WASTE MANAGEMENT	The discarded containers /barrels / bags / liners shall be sold only to the registered recycler after decontamination
PPs Submission: Complied The discarded containers / barrels / bags / liners are sold to the registered recycler after decontamination.		Date: 22/11/2024
54	WASTE MANAGEMENT	For storage of fly ash closed silos of adequate capacity shall be provided. No ash pond shall be constructed in the project.
PPs Submission: Complied For storage of fly ash 3 closed silos of 1600 MT capacity each and for Bed Ash 01 silo of 1600 MT have been provided. Photographs of the same is enclosed as Annexure LXXXII. No ash pond has been constructed in the DMD complex.		Date: 22/11/2024
55	WASTE MANAGEMENT	Ash from silos shall be transported through closed tankers for utilization by Cement/ construction agencies.
PPs Submission: Complied Ash from silos is transported through closed tankers / bulkers / covered trucks.		Date: 22/11/2024
56	WASTE MANAGEMENT	The Unit shall strictly comply with the Fly Ash Notification under the EPA and it shall be ensured that there is 100% utilization of ash to be generated from the unit.
PPs Submission: Complied Fly Ash notification under EPA is being complied at CCPP. Fly ash disposed during the period of Apr-24 to Sept-24 is enclosed in Annexure LXXXII. Also 100 percent utilization of ash is ensured by the unit through utilization certificates.		Date: 22/11/2024
57	Risk Mitigation and Disaster Management	The proposed jetty shall be equipped with a comprehensive fire protection system. The firefighting equipments shall be provided as per the requirements of the Gujarat Factories Rules. 1963.
PPs Submission: Complied		Date:

The proposed jetty modification is not yet started. However, the existing RDMT jetty is equipped with a comprehensive fire protection system. The firefighting equipment are provided as per the requirements of the Gujarat Factories Rules, 1963.		22/11/2024
58	Risk Mitigation and Disaster Management	Fire protection system based on National Fire Protection Association (NFPA) approved guidelines shall be provided It shall consist of fire hydrant system all-round the plant area and storage yards. High velocity water spray system for transformers. automatic fire detection and alarm manual fire alarm system, portable fire extinguishers, adequate capacity fire water storage tanks etc.
PPs Submission: Complied Fire protection system is provided using National Fire Protection Association (NFPA) / TAC guidelines. Adequate Fire protection systems consists of fire hydrant system all-round the plant area and storage yards, Nitrogen spray system for transformers have been provided. Automatic fire detection and alarm, manual fire alarm system, portable fire extinguishers, adequate capacity fire water storage tanks etc. installed.		Date: 22/11/2024
59	Risk Mitigation and Disaster Management	Recommendations made in the Risk Assessment study report submitted by the project proponent shall be implemented
PPs Submission: Complied Recommendations made in the risk assessment study report are implemented and complied with for existing units including CCPP. e.g. - Control rooms are constructed having blast proof and shock proof walls. - Storage area is separated from process areas and flammable materials. - Provided proper dyke for storage tanks with fire protection measures.		Date: 22/11/2024
60	Risk Mitigation and Disaster Management	Necessary emergency lighting system along with emergency power back up system shall be provided.
PPs Submission: Complied Necessary emergency lighting system along with emergency power back up system has been provided.		Date: 22/11/2024
61	Risk Mitigation and Disaster Management	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.
PPs Submission: Complied Personal Protective Equipment (PPE) are provided to employees and contractors and are compulsory before entering the plant. This is being ensured regularly.		Date: 22/11/2024
62	Risk Mitigation and Disaster Management	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.
PPs Submission: Complied First Aid box is available at strategic locations in each plant and antidotes for chemicals are readily available at OHC in adequate quantity. Photograph of First Aid box located at plant control room can be seen in Annexure LVIII.		Date: 22/11/2024
63	MISCELLANEOUS	Training shall be given to all workers on safety and health aspects of handling chemicals.
PPs Submission: Complied Training is imparted to all the workers on safety and health aspects of chemicals handling. The chemical handling related, safety and health training is imparted to all workers on RIL role and all contractor workers as well. The level-1 and level-2 training is provided to the contract workers which includes the safe work practices related to safe chemical handling and use of PPEs. At RIL-Dahej, employees are imparted safety training through induction and refresher training on safe work		Date: 22/11/2024

practices, safe chemical handling and use of PPE. Records of various trainings imparted to all is enclosed as Annexure LIX.		
64	Human Health Environment	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules. Pre-employment and periodical medical examination for all workers shall be undertaken as per statutory requirement.
PPs Submission: Complied RIL-DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC. Occupational Health Surveillance is carried out - At the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees. Details of checks conducted at the time of Fitness Examination and Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI. Pre-employment and periodical medical examination is carried out by OHC annually and records are maintained as per the Gujarat Factories Act and Rules.		Date: 22/11/2024
65	Human Health Environment	Tie up shall be done with nearby health care unit for seeking immediate medical attention in case of emergency, regular medical checkup of the workers and keeping its record etc.
PPs Submission: Complied Occupational Health Center (OHC) is established at the petrochemical complex for providing immediate medical help in case of emergencies. RIL Dahej has tie up with leading hospitals in Dahej and Bharuch such as Dahej Health and Welfare Society Hospital, Baroda Heart Institute, Sunshine Hospital, Healing Touch Hospital, etc. for immediate medical attention. Photograph of Occupational Health Centre is enclosed as Annexure XXX. Periodical medical checkup done for the RIL employees as well as for contract workers and records are maintained for the same.		Date: 22/11/2024
66	Risk Mitigation and Disaster Management	The project management shall prepare a comprehensive Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health. Detailed DMP prepared shall be implemented to bring down risk involved / hazards / accidents as low as reasonably practicable.
PPs Submission: Complied A comprehensive Disaster Management Plan (DMP) has been prepared for existing complex and updated same for CCPP and implemented to bring down risk involved / hazards / accidents as low as reasonably practicable.		Date: 22/11/2024
67	MISCELLANEOUS	All transporting routes within the premise shall have paved roads.
PPs Submission: Complied All transporting routes within the premise have paved roads.		Date: 22/11/2024
68	Noise Monitoring & Prevention	To minimize the noise pollution the following noise control measures shall be implemented.
PPs Submission: Complied These measures are ensured by addressing the requirements during the design phase itself.		Date: 22/11/2024
69	GREENBELT	A green belt shall be developed all around the plant boundary, Jetty area, office and also along the roads to mitigate fugitive & transport dust emission.

PPs Submission: Complied Site has developed around 203 ha of green cover all around the plant boundary, Jetty area, office and also along the roads to mitigate fugitive and transport dust emission. Trees have been planted throughout the periphery of the complex as well as wherever open spaces are available. Landscaping (through lawns and shrubs) have been done in areas where tree plantation is not possible. Every year plantation drive is being done to strengthen the green cover in the complex. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX.		Date: 22/11/2024
70	Noise Monitoring & Prevention	Manufacturers/suppliers of major noise generating machines/ equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and Installation to mitigate the noise generation and to comply with the national/international regulatory norms with respect to noise generation for individual units.
PPs Submission: Complied Low noise generating equipment have been selected in the design stage itself. Necessary confirmation taken from suppliers for steam turbine generator, pumps, and compressors etc. for noise level of equipment. Equipment meet the national regulatory norms.		Date: 22/11/2024
71	Noise Monitoring & Prevention	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact
PPs Submission: Complied Regular and preventive maintenance of machinery and vehicles is undertaken.		Date: 22/11/2024
72	Noise Monitoring & Prevention	Noise suppression measures such as enclosures, buffers and/or protective measures shall be provided
PPs Submission: Complied Noise suppression measures like acoustic chambers are provided wherever required. Photographs of the same is enclosed as Annexure XXXIII.		Date: 22/11/2024
73	Noise Monitoring & Prevention	Employees shall be provided with ear protection measures like ear plugs or ear muffs.
PPs Submission: Complied PPEs like ear muffs and ear plugs are mandatory for use by everyone working in high noise areas.		Date: 22/11/2024
74	Noise Monitoring & Prevention	Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation
PPs Submission: Complied Proper oiling, lubrication and preventive and regular maintenance of machineries and equipment is done to reduce noise generation.		Date: 22/11/2024
75	Noise Monitoring & Prevention	Construction equipment generating minimum noise and vibration shall be chosen.
PPs Submission: Complied Construction equipment generating low noise and vibration was chosen during the erection of the plant.		Date: 22/11/2024
76	Human Health Environment	Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities/machines/equipment.

PPs Submission: Complied Use of PPEs like ear plugs / ear muffs are made compulsory at site. It is being ensured and supervised through work permit procedure, Contractor Field Round and Daily Field round by Plant Safety Representative at plants.		Date: 22/11/2024
77	Noise Monitoring & Prevention	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.
PPs Submission: Complied Vehicles and construction equipment with internal combustion engines without proper silencer were not allowed to operate during the erection of the plant.		Date: 22/11/2024
78	Noise Monitoring & Prevention	Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
PPs Submission: Complied Construction equipment meeting the norms specified by EP Act, 1986 were used during the construction phase of the plants.		Date: 22/11/2024
79	Noise Monitoring & Prevention	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.
PPs Submission: Complied Low Noise generating DG sets are being used at the site. The site is with in industrial zone. No residential or sensitive zone nearby.		Date: 22/11/2024
80	Noise Monitoring & Prevention	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.
PPs Submission: Complied Noise mufflers for motorized equipment have been provided on all the motorized equipment.		Date: 22/11/2024
81	Noise Monitoring & Prevention	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures Including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules Workplace noise levels for workers shall be as per the Factories Act and Rules.
PPs Submission: Complied The overall noise level in and around the plant area shall be kept well within the prescribed standards. Noise control measures such as acoustic hoods, silencers etc. are provided at high noise generating source with-in the plant. Noise level at the site is monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it is observed to be well within the prescribed workplace noise level of 85 dBA. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. The summary of Workplace Noise Level monitoring and Detailed workplace noise level monitoring report for Apr-24 to Sept-24 is enclosed as Annexure XXXII. All results are conforming to the standards prescribed by GPCB norms. Ambient noise levels conform to the standard prescribed under EPA Rules, 1989 viz. 75 dBA (Day Times) and 70 dBA (Night time). Detailed ambient noise level monitoring report for Apr-24 to Sept-24 is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms. Workplace noise levels for workers is maintained well below the limit of 85 dB(A) as per the Factories Act and Rules. The results of work place noise level is given in the above condition.		Date: 22/11/2024
82	ENERGY PRESERVATION MEASURES	The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms

PPs Submission: Complied Energy efficient devices have been provided in the plant like variable frequency drives etc.		Date: 22/11/2024
83	ENERGY PRESERVATION MEASURES	The energy audit shall be conducted at regular Intervals and the recommendations of the audit report shall be implemented.
PPs Submission: Complied Energy audit done by third party for existing facilities and the recommendations are implemented. Same is being done for CCPP.		Date: 22/11/2024
84	ENERGY PRESERVATION MEASURES	The project proponent shall Implement the application of solar energy which shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating systems
PPs Submission: Complied Use of Solar energy is already explored and under evaluation and approval stage.		Date: 22/11/2024
85	ENERGY PRESERVATION MEASURES	The transformers and motors shall have minimum efficiency of 85 %.
PPs Submission: Complied Transformers and motors of efficiency higher than 85 percent are selected at design stage itself.		Date: 22/11/2024
86	ENERGY PRESERVATION MEASURES	Variable frequency drives shall be installed.
PPs Submission: Complied Variable Frequency Drives installed in the plants.		Date: 22/11/2024
87	ENERGY PRESERVATION MEASURES	Energy conservation measures shall include use of electronic lighting system, use of CFL tubes to minimize energy use. use of programmable timers for pumping system and lighting, water level controllers for water pumps, centralized cooling etc.
PPs Submission: Complied Energy conservation methods like use of LED lighting for office and street lighting, are being implemented. Photographs of the same is enclosed as Annexure LX.		Date: 22/11/2024
88	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced - Constant monitoring of energy consumption and defining targets for energy conservation
PPs Submission: Complied Department level targets have been fixed and energy consumption is monitored against those targets. Constant Monitoring of energy consumption is done by Energy cell with BEE Qualified energy manager, energy auditor.		Date: 22/11/2024
89	ENERGY PRESERVATION MEASURES	Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level
PPs Submission: Complied Illumination level audit is being carried out once in two years as a Part of Electrical audit. Sensors have been provided in few office rooms to automatically switch off lighting in case of no movement in the room. Record of illumination audit is enclosed as Annexure LXXXIII.		Date: 22/11/2024
90	ENERGY PRESERVATION	Use of solar cells for lighting.

	MEASURES	

PPs Submission: Complied Solar cells for traffic lights are installed. Photograph of the same is enclosed as Annexure LXI.	Date: 22/11/2024

91	ENERGY PRESERVATION MEASURES	Use of solar water heater for canteen & washing area.

PPs Submission: Complied Use of Solar energy for water heating is already explored and Solar water heater project is under evaluation.	Date: 22/11/2024

92	ENERGY PRESERVATION MEASURES	Proper load factor shall be maintained by the unit

PPs Submission: Complied Adequate load factor is maintained.	Date: 22/11/2024

93	ENERGY PRESERVATION MEASURES	Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting

PPs Submission: Complied Day light roofs are provided at our store and warehouse areas. Photograph of the same is enclosed as Annexure LXII.	Date: 22/11/2024

94	ENERGY PRESERVATION MEASURES	Use of electronic ballast to save energy

PPs Submission: Complied Electronic ballast / relevant systems are provided in lighting equipment.	Date: 22/11/2024

95	ENERGY PRESERVATION MEASURES	Automatic switching system for lighting & water tank pumping shall be used.

PPs Submission: Complied Automatic switching system for lighting are provided at various areas of plants. Automatic switching system for water tank pumping is also provided.	Date: 22/11/2024

96	ENERGY PRESERVATION MEASURES	To the maximum extent possible and technically feasible. Energy efficient equipment like motors pumps, air conditioning systems shall be selected.

PPs Submission: Complied Energy efficient equipment like motors pumps, air conditioning systems are selected and installed to the maximum extent possible, wherever feasible.	Date: 22/11/2024

97	ENERGY PRESERVATION MEASURES	Gravity flow shall be preferred wherever possible to save pumping energy.

PPs Submission: Complied Gravity flow has been utilized wherever possible.	Date: 22/11/2024

98	ENERGY PRESERVATION MEASURES	Promoting awareness on energy conservation.

PPs Submission: Complied	Date:

Regular training and awareness campaigns are carried out for all employees on energy conservation. RIL Dahej has 28 BEE certified energy professionals.			22/11/2024
99	ENERGY PRESERVATION MEASURES	Training to the staff on methods of energy conservation and to be vigilant for this.	
PPs Submission: Complied Training is being imparted regularly by our Learning and Development Department.			Date: 22/11/2024
100	WASTE MANAGEMENT	Waste Minimization & Cleaner Production: The unit shall undertake the Cleaner Production Assessment study through a reputed institute/organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	
PPs Submission: Complied Site has adopted the best available technology for achieving resource reduction and waste minimization. Which generates low wastes and gives maximum energy efficiency for existing plants including CCPP. RIL has already submitted an application to Gujarat Cleaner Production Council for assessment.			Date: 22/11/2024
101	WASTE MANAGEMENT	The company shall undertake following waste minimization measures: Metering and control of quantities of active Ingredients to minimize waste.	
PPs Submission: Complied All active ingredients are metered at all the plants. Metering and control is provided for active ingredients to ensure waste minimization.			Date: 22/11/2024
102	MISCELLANEOUS	The RIL shall participate financially for any common facility that may be established or any common study that may be carried out for the Gulf of Khambhat region for environmental protection and/or management purpose.	
PPs Submission: Complied RIL will participate financially for any common facility that may be established or any common study that may be carried out for the Gulf of Khambhat region for environmental protection and / or management purpose, as and when called for.			Date: 22/11/2024
103	MISCELLANEOUS	The RIL shall have to face the consequences whatsoever due to implementation of the Kalpsar Project proposed by the Government of Gujarat and shall have to take all necessary actions as may be desired by the Government.	
PPs Submission: Complied RIL will face the consequences whatsoever due to implementation of the Kalpsar Project proposed by the Government of Gujarat and shall take all necessary actions as may be desired by the Government. However, the proposed modification in existing RDMT jetty is yet to be started.			Date: 22/11/2024
104	Marine/Coastal	The RIL shall construct/modify the jetty in such way that there shall not be any impacts on ecology of the area.	
PPs Submission: Complied Noted and shall be a part of modification plan of Jetty. However, the proposed modification in existing RDMT jetty is not yet started.			Date: 22/11/2024
105	AIR QUALITY MONITORING AND PRESERVATION	The RIL shall carry out transportation and handling of the coal in such a way that there shall not be any impact of coal dust in nearby area.	

PPs Submission: Complied All necessary measures have been implemented to ensure no impact of coal dust in nearby area during transportation and handling of coal e.g. Transportation of coal is done from the nearby Adani port of the project site in covered trucks. Unloading bays of the trucks in coal handling area is covered to prevent dust generation. All transfer points in the conveyor systems is also covered by Dry Fog system. Photographs of covered trucks, unloading bay and storage area is enclosed as Annexure LXVI.		Date: 22/11/2024
106	Marine/Coastal	The RIL shall carry out simulation study for the proposed area considering the increase in the Ship/barges traffic in the area, accidental shrinking of barges/ships, due to proposed construction, convening the Disaster/safety and environmental aspects and shall abide by the safety and environment protection measures emerges out of this study.
PPs Submission: Complied The proposed modification in existing RDMT jetty is not yet started. Comprehensive Marine EIA had been carried out for this purpose and the recommendation shall be complied with. Simulation study is a part of marine study conducted by NIO. Measures/ recommendation in EMPs shall be complied with.		Date: 22/11/2024
107	Marine/Coastal	The dredging material shall be disposed off in such a way that there shall not be any impacts on marine environment. In case of disposal of dredged material in deep sea, it shall be disposed of only after a model study for its disposal locations, influence zone, its impact on marine environment, if any and mitigation measures suggested shall be complied with by the RIL.
PPs Submission: Complied Noted and shall be complied as a part of modification plan of Jetty. The proposed modification in existing RDMT jetty is not yet started.		Date: 22/11/2024
108	Marine/Coastal	The RIL shall have to maintain an up to date records for generation and disposal of the dredging material arid it shall be submitted to the GMB and Forest & Environment Department for every generation and disposal.
PPs Submission: Complied The proposed modification in existing RDMT jetty is not yet started. RIL will maintain the records for generation and disposal of the dredging material and it shall be submitted to the GMB and Forest and Environment Department for every generation.		Date: 22/11/2024
109	Marine/Coastal	The RIL shall strictly implement the measures suggested in the Comprehensive Marine EIA report by the National Institute of Oceanography, Mumbai and suggested in the EIA report by NEERI, Nagpur for mitigation of likely adverse impacts on coastal and marine environment.
PPs Submission: Complied The measures suggested in MEIA and terrestrial EIA studies are included in the design of the plant and implemented. For e.g. ESP, covered conveyors, tall chimney, covered storage shed for coal, lime stone injection system, etc. The modification in existing RDMT jetty is not yet started. Photographs of the same is enclosed as Annexure LXVII.		Date: 22/11/2024
110	WATER QUALITY MONITORING AND PRESERVATION	No ground water shall be tapped for any purpose for the project requirements.
PPs Submission: Complied		Date:

No ground water is used for the project. The water requirement for the project is met through existing Narmada water.			22/11/2024
111	MISCELLANEOUS	The RIL shall prepare and furnish the detailed Disaster Management Plan to the concerned offices including the District Authorities and Forest & Environment Department.	
PPs Submission: Complied Disaster Management Plan (DMP) already prepared for existing plants and the same is extended for CCPP. The DMP has been submitted to District Authorities- DISH / Factory Inspector. Copy of the same is enclosed as Annexure XXXV.			Date: 22/11/2024
112	Risk Mitigation and Disaster Management	The RIL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency Plan and shall submit the same to the Department of Forest & Environment after having it vetted through the Indian Coast Guard.	
PPs Submission: Complied RIL is having Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency Plan and it is updated regularly. Copy of the same is enclosed as Annexure LXIX. The same will be updated after modification in Jetty and will be submitted to the Department of Forest and Environment.			Date: 22/11/2024
113	MISCELLANEOUS	The RIL shall bear the cost of the external agency that may be appointed by this Department for supervision/monitoring of proposed activities.	
PPs Submission: Complied Noted. RIL will bear the cost of the external agency that may be appointed by this Department for supervision / monitoring of proposed activities. However no such agency has been appointed by the department in the reporting period.			Date: 22/11/2024
114	GREENBELT	The RIL-DMD shall develop and maintain green belt around the jetty area, office as well as internal and approach roads as proposed. Native and fast growing species shall be planted in the green belt.	
PPs Submission: Complied Adequate plantation carried out around the jetty area, office as well as internal and approach roads. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Native plant species are selected for planting of the green belt as per the guidelines of CPCB. Few of the plant species existing at the site are: Casuarina equisetifolia (Suru), Azadirachta indica (Neem), Millettia pinnata (Karanj), Cassia siamea (Kashid), Albizia procera (Shirish), Delonix regia (Gulmohar), Peltophorum pterocarpum etc.			Date: 22/11/2024
115	GREENBELT	The unit shall develop and maintain green belt within premises as per the CPCB guidelines. In addition to that the unit shall take up adequate plantation on road sides and suitable open areas in the Dahej industrial area nearby schools, gram panchayat areas and any other open areas in consultation with the local bodies/GPCB and submit an action plan of plantation for next three years to the GPCB.	
PPs Submission: Complied Site has developed around 203 ha of green cover as per the CPCB guidelines at Dahej Petrochemical Complex. Trees have been planted throughout the periphery of the complex as well as wherever open spaces are available. Landscaping (through lawns and shrubs) have been done in areas where tree plantation is not possible. Every year plantation drive is being done to strengthen the green cover in the complex. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Adequate plantation carried out on road sides near the site and open areas of GIDC			Date: 22/11/2024

		near site. As part of RIL Green project, plantation has been carried out in nearby villages like Ambetha and Angareshwar. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX.	
116	WATER QUALITY MONITORING AND PRESERVATION	Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through credible institutes like L.D. College of Engineering, NPC or such other institutes of similar repute and its records shall be maintained.	
		PPs Submission: Complied Performance evaluation of ETP by external agencies is being carried out regularly through environmental auditor appointed by GPCB and the records are maintained. Environment Adequacy certificate is enclosed as Annexure XLVII. Charotar University of Science and Technology, Charusat appointed by GPCB has done annual environmental audit which includes performance evaluation of ETP for the year 2023-24. The report is being submitted regularly to GPCB.	Date: 22/11/2024
117	WATER QUALITY MONITORING AND PRESERVATION	The effluent disposal pipeline shall be monitored regularly by the company and it shall be ensured that there is no leakage from the pipeline. In case of any such eventualities, the company shall immediately stop disposal through the pipeline and take the corrective measures.	
		PPs Submission: Complied Effluent disposal pipeline is being regularly checked by site maintenance department for leakages through walkthrough surveys. During Apr-24 to Sept-24, no leakage was observed. During Apr-24 to Sept-24, no such eventualities have arisen.	Date: 22/11/2024
118	WATER QUALITY MONITORING AND PRESERVATION	The post project environmental monitoring through the reputed institutes / organizations shall be earned out in order to assess the changes if any in the marine/estuarine environment due to disposal of effluent.	
		PPs Submission: Complied The post project environment monitoring of coastal environment has been carried out by NIO while carrying out EIA of subsequent projects to assess the changes. There was no adverse impact observed on the coastal environment due to RIL DMD.	Date: 22/11/2024
119	MISCELLANEOUS	The unit shall join and participate financially and technically for any common environmental facility / Infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC	
		PPs Submission: Complied During the review period of Apr-24 to Sept-24, no such proposal came from GIDC / GPCB. RIL will participate financially and technically in any such project proposed or being taken up by Govt / GIDC / GPCB.	Date: 22/11/2024
120	WATER QUALITY MONITORING AND PRESERVATION	Surface run off from the jetty shall be adequately managed. To avoid oil, SS and coal dust entering the estuarine environment, dry sweeping shall be adopted at the jetty and washing shall be avoided.	
		PPs Submission: Complied The proposed modification in existing Reliance Dahej Marine Terminal (RDMT) jetty is yet to be started.	Date: 22/11/2024
121	MISCELLANEOUS	Imported Coal to the tune of 6,850 TPD shall be used as a fuel in the proposed CCPP	

PPs Submission: Complied 3,370 TPD of imported coal has been used as fuel in CCPP during Apr-24 to Sept-24 against permissible limit of 6,850 TPD.		Date: 22/11/2024
122	AIR QUALITY MONITORING AND PRESERVATION	There shall be no use of fuel and hence there shall be no flue gas emission from the proposed coal handling jetty.
PPs Submission: Complied The proposed modification in existing Reliance Dahej Marine Terminal (RDMT) jetty is yet to be started.		Date: 22/11/2024
123	AIR QUALITY MONITORING AND PRESERVATION	Height of flue gas stacks attached to the CFBC boilers (4 nos working and 01 no standby) shall be minimum 220 meters as proposed.
PPs Submission: Complied Height of flue gas stacks attached to the CFBC boilers (4 nos working) is 220 meters. Photograph of stacks attached with CFBC boilers is enclosed as Annexure LXXII.		Date: 22/11/2024
124	AIR QUALITY MONITORING AND PRESERVATION	High efficiency Electro Static Precipitators (ESPs) shall be installed as air pollution control system for the CFBC Boilers and it shall be operated efficiently to achieve the norms prescribed by the GPCB at the stack outlet. There shall be provision of one extra field in each ESP to ensure that even though one field goes out of order the efficiency of the ESP is not affected.
PPs Submission: Complied High efficiency Electro Static Precipitators (ESPs) have been installed as air pollution control system for the CFBC Boilers. Photograph of the same can be seen in Annexure LXXIII. The summary of the emission results from CCPP stacks and detailed stack emission monitoring report is enclosed as Annexure III. All results are conforming to the norms specified by GPCB.		Date: 22/11/2024
125	AIR QUALITY MONITORING AND PRESERVATION	An arrangement shall be made that in case of total failure of the ESP and if the ESP is not recharged within 10 minutes, the ID fan and consequently the boiler shall be tripped.
PPs Submission: Complied Alarms / Tripping systems are provided so that during tripping of transformers it will lead to tripping of ID fan and consequently unit tripping.		Date: 22/11/2024
126	AIR QUALITY MONITORING AND PRESERVATION	Online monitoring system shall be installed on the Boiler stacks to monitor PM, SO2, & NOx concentrations in the flue gas emission. This online monitoring system shall be interlocked with plant DCS system in such a manner that if concentration of particulate matter in flue gas emission exceeds 50 mg/Nm3, utilization of boiler capacity shall reduce accordingly in order to bring down the particulate matter concentration below the 50 mg/Nm3. An arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.
PPs Submission: Complied Continuous online monitoring equipment have been installed for all Boiler stacks to monitor PM, SO2, and NOx concentrations in the flue gas emission. Photographs of CEMS installed at CCPP Boilers is enclosed as Annexure LXXIV. As per Standard Operating Procedure, there is a provision of load reduction if PM emission reaches close to 50 mg/Nm3. However, during review period no such event was recorded. The online monitoring results of Boiler stacks is available and connected with CPCB / GPCB servers.		Date: 22/11/2024
127	AIR QUALITY	The company shall prepare schedule and carry out regular

	MONITORING AND PRESERVATION	preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.
PPs Submission: Complied Preventive maintenance of mechanical and electrical parts of ESPs has been scheduled in SAP system and the responsibility of preventive maintenance is assigned to mechanical and electrical in charge.		Date: 22/11/2024
128	AIR QUALITY MONITORING AND PRESERVATION	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.
PPs Submission: Complied The fugitive emission in the work zone environment (i.e. Work place environmental monitoring) is monitored periodically for existing facilities including CCPP. Occupational exposure is compared against standards prescribed by the concerned authorities periodically (e.g Directorate of Industrial Safety and Health and ACGIH (American Conference of Governmental Industrial Hygienist). Fugitive emission report is enclosed as Annexure LXXV.		Date: 22/11/2024
129	AIR QUALITY MONITORING AND PRESERVATION	All handling & transport of coal shall be exercised through covered coal conveyors only.
PPs Submission: Complied Covered coal conveyors are installed in CCPP and handling and transportation is being carried out through these covered conveyors. Photographs of the same is enclosed as Annexure LXXVI.		Date: 22/11/2024
130	AIR QUALITY MONITORING AND PRESERVATION	Enclosure shall be provided at coal loading and unloading operations.
PPs Submission: Complied Enclosure has been provided at coal loading and unloading operations. Photographs of the same is enclosed as Annexure LXXVII.		Date: 22/11/2024
131	AIR QUALITY MONITORING AND PRESERVATION	Water shall be sprinkled on coal stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.
PPs Submission: Complied Water sprinkling systems are also installed at coal storage yard. Water is sprinkled on coal stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.		Date: 22/11/2024
132	AIR QUALITY MONITORING AND PRESERVATION	All transfer points shall be fully enclosed.
PPs Submission: Complied Covered coal conveyors are provided in the CCPP including the transfer points. All transfer points are fully enclosed / covered.		Date: 22/11/2024
133	AIR QUALITY MONITORING AND PRESERVATION	Adequate dust suppression/ extraction system at crusher house as well as for the coal stock yard shall be provided to abate dust nuisance

PPs Submission: Complied Adequate dust suppression / extraction system has been provided at crusher house as well as for the coal stock yard to abate dust nuisance.		Date: 22/11/2024
134	AIR QUALITY MONITORING AND PRESERVATION	Accumulated dust on the ground and other surfaces shall be removed/swept regularly and water the area after sweeping.
PPs Submission: Complied Regular housekeeping is being done to keep the area dust free.		Date: 22/11/2024
135	AIR QUALITY MONITORING AND PRESERVATION	Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
PPs Submission: Complied Internal roads are either concreted or asphalted properly to reduce the fugitive emission during vehicular movement. Photograph of the same is enclosed as Annexure LXXVIII.		Date: 22/11/2024
136	AIR QUALITY MONITORING AND PRESERVATION	Air borne coal dust shall be controlled with water sprinklers at suitable locations in the plant.
PPs Submission: Complied Air borne coal dust is controlled by providing DFSS (Dry Fogging Spray System) at coal unloading area and transfer points. At coal storage shed sprinkling system is provided at suitable locations.		Date: 22/11/2024
137	AIR QUALITY MONITORING AND PRESERVATION	Coal shall be conveyed by piped conveyor system from jetty to plant. Alternatively coal shall be conveyed through dumpers to the yard from nearby Jetties of M/s Adani or Essar.
PPs Submission: Complied The coal conveyor system from jetty to plant is not constructed as jetty modification is not yet started. Coal is conveyed through dumpers to the yard from nearby Jetty of M/s Adani.		Date: 22/11/2024
138	AIR QUALITY MONITORING AND PRESERVATION	Fly ash shall be transported through closed/covered trucks only.
PPs Submission: Complied Fly ash is transported through closed / covered trucks and bulkers only.		Date: 22/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Marine/Coastal	Mangrove plantation shall be carried out in consultation with the Gujarat Ecology Commission / Forest Department by the RIL-DMD as a part of the Corporate Social Responsibility in areas of coastal operations.
PPs Submission: Complied Mangroves plantation, along the river bank (near Erstwhile IPCL jetty) for a stretch of about 1 km from east (u/s of river) toward the estuary (west) where Narmada merge in to the Gulf of Cambay, was done in the year 1997-98. 3500 saplings were planted. However, the survival rate of this first plantation is very low due to many factors. Erstwhile IPCL had retained Gujarat Ecological Society (GES), Baroda to carry out the experimental plantation of mangroves in 2000-01. GES study found		Date: 22/11/2024

more sand then clay in the soil around jetty and that is why it is not conducive for the mangrove growth. Afresh attempt was again made by planting 2500 sapling of mangrove in association with local Forest Dept. in Dec 2005 at jetty. However growth of mangroves were reported poor as the soil was not conducive for the mangrove growth. During the year 2018, 2000 saplings of mangrove plantation done. The growth is under care / observation. Photographs of mangrove plantation is enclosed as Annexure XIII.		
2	MISCELLANEOUS	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act. 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986 and Hazardous Wastes (Management Handling and Transboundary) Rules. 2008 along with their amendments and rules.
PPs Submission: Complied Noted.		Date: 22/11/2024
3	MISCELLANEOUS	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act. 1986, Municipal Solid Wastes (Management and Handling) Rules, 2000 and the Public Liability Insurance Act. 1991 and the Rules made there under from time to time.
PPs Submission: Complied Noted.		Date: 22/11/2024
4	MISCELLANEOUS	This environmental clearance is valid for five years from the date of issue.
PPs Submission: Complied Noted.		Date: 22/11/2024
5	MISCELLANEOUS	Any appeal against this environmental 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.
PPs Submission: Complied Noted.		Date: 22/11/2024
6	WATER QUALITY MONITORING AND PRESERVATION	To check the ingress of salty water into landside
PPs Submission: Complied The ingress of salty water into landside is regularly monitored.		Date: 22/11/2024
7	MISCELLANEOUS	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.

PPs Submission: Complied Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger/alarm is raised in the DCS system which prevents the plant from restarting. During the period of Apr-24 to Sept-24, no such failure of pollution control equipment has been observed.		Date: 22/11/2024
8	MISCELLANEOUS	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.
PPs Submission: Complied Recommendations mentioned in the CREP are being complied.		Date: 22/11/2024
9	PUBLIC HEARING	All issues raised during the public hearing shall be addressed comprehensively.
PPs Submission: Complied All issues raised during the public hearing have been addressed comprehensively.		Date: 22/11/2024
10	Corporate Environmental Responsibility	The RIL-DMD shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector / District Development Officer.
PPs Submission: Complied RIL-DMD has taken up many activities for the up-liftment of nearby community. The same has been continued today by Reliance Foundation not only in our area but for entire India.		Date: 22/11/2024
11	Corporate Environmental Responsibility	The RIL shall ensure that the Corporate Social Responsibility (CSR) activities shall be carried out on need base of the local people
PPs Submission: Complied RIL is committed to our Corporate Social Responsibility (CSR) activities for creating, maintaining and sustaining safe and clean environment of the local people. RIL-DMD has taken up many activities for the upliftment of nearby community. The same has been continued today by Reliance Foundation not only in our area but for entire India. Photographs of some of the activities are enclosed as Annexure LXXXVII.		Date: 22/11/2024
12	MISCELLANEOUS	A separate Environmental Management Cell equipped with full-fledged laboratory facilities and qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project. A separate budget shall be earmarked annually for this purpose and the details shall be furnished to various regulatory authorities from time to time.
PPs Submission: Complied A separate Environment Cell, headed by Environment Head with environment qualification and 17 plus year experience. The cell is supported by 3 qualified Environment professionals (Env. Engg.) Environment Head reports the Site President. RIL-DMD has a full-fledged Quality Assurance (Laboratory) dept., manned with qualified Lab-technicians under the supervision of competent and well-experienced managers who also carry out the sample analysis. The Laboratory Head directly reports to the Technical Head of the complex. Sufficient funds are earmarked every year for environmental management including monitoring and analysis. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crore.		Date: 22/11/2024
13	MISCELLANEOUS	A separate budget shall be earmarked for environmental management and socio-economic activities and details thereof shall

		be furnished to the Forests and Environment Department, SEIAA as well as the MoEF, Gol. The details with respect to the expenditure from this budget head shall also be furnished.
PPs Submission: Complied Adequate funds have been allocated for implementing environmental management and socio-economic activities. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crore. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores		Date: 22/11/2024
14	Marine/Coastal	An Environmental Report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by the RIL-DMD to the Forests & Environment Department as well as to the SEIAA.
PPs Submission: Complied The Environment audit is conducted by GPCB approved Environmental Auditor covering all aspects and report is submitted to GPCB every year. Covering letter of Audit report submission for the year 2023-24 is enclosed as Annexure LXVIII. Marine environment monitoring is carried out by approved agency and the final report is submitted to RIL-DMD. Copy of marine monitoring report is enclosed as Annexure XLVIII.		Date: 22/11/2024
15	MISCELLANEOUS	The RIL-DMD shall provide adequate funds for environment protection The funds earmarked for environment protection measures shall be maintained, in a separate account and there shall be no diversion of these funds for any other purpose.
PPs Submission: Complied Adequate fund have been allocated for implementing the environmental management and is used only for that purpose. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crore. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores		Date: 22/11/2024
16	MISCELLANEOUS	All the recommendations made in the EIA/EMP and other documents submitted by the project proponent shall be strictly implemented.
PPs Submission: Complied Recommendations of the EIA / EMP reports has been implemented during project execution and operational phase.		Date: 22/11/2024
17	Statutory compliance	The RIL-DMD shall regularly submit the half-yearly compliance report on the conditions stipulated in hard and soft copies to the regulatory authorities concerned, on 1'st June and 1st December of each calendar year.
PPs Submission: Complied Six monthly compliance report and monitoring data is submitted to MoEFCC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2024/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2024/29 dated 27th May, 2024 to Integrated Regional office of MoEFCC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted		Date: 22/11/2024

to GPCB on monthly basis Proof of submission of last EC Compliance report is enclosed as Annexure XVI.		
18	MISCELLANEOUS	No further expansion or modifications or development likely to cause environmental impacts shall be carried out without obtaining prior clearance from the concerned authority.
PPs Submission: Complied Expansion or Modification of the RIL-DMD complex has been carried out after obtaining the required Environmental Clearance (EC) under the EIA Notification, 2006.		Date: 22/11/2024
19	MISCELLANEOUS	Any other condition that may be stipulated by the SEIAA / SEAC / Forests & Environment Department from time to time for environmental protection / management purpose shall have to be complied with by the RIL-DMD.
PPs Submission: Complied No additional condition imposed by SEIAA / SEAC / F and E department during review period.		Date: 22/11/2024
20	MISCELLANEOUS	The above conditions will be enforced. inter-alia under the provisions of the Water (Prevent1on and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollut1on) Act, 1981, the Environment (protection) Act. 1986, Municipal Solid Wastes (Management and Handling) Rules, 2000 and the Public Liability Insurance Act, 1991 and the Rules made there under from time to time.
PPs Submission: Complied Noted.		Date: 22/11/2024
21	MISCELLANEOUS	The project authorities shall earmark adequate funds to Implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
PPs Submission: Complied Adequate fund have been allocated for implementing the conditions stipulated conditions given by SEIAA and GPCB. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crore. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores Funds allocated for Environmental Management is used only for that purpose and not diverted for any other use.		Date: 22/11/2024
22	MISCELLANEOUS	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/SEAC/GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region one of which shall be in the Gujarati language and the other in English. A copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
PPs Submission: Complied The public was informed through public notice published in English and Gujarati Newspaper and the		Date: 22/11/2024

information has already been submitted to the Regional Office of the MoEFCC, Bhopal.		
23	Statutory compliance	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
PPs Submission: Complied All the stipulations laid down by GPCB consent is being complied with.		Date: 22/11/2024
24	MISCELLANEOUS	The project authorities shall inform the GPCB. Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project
PPs Submission: Complied Noted. Informed to GPCB for the date of start of the project during CCA application.		Date: 22/11/2024
25	MISCELLANEOUS	The SEIAA may revoke or suspend the clearance, if Implementation of any of the above conditions is not found satisfactory.
PPs Submission: Complied This condition is not applicable to us.		Date: 22/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All Annexures are attached as additional document.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Expansion and Debottlenecking of Petrochemical Plant of Dahej Manufacturing Division (DMD) at Tehsil Vagra, District Bharuch, Gujarat by M/s Reliance Industries Limited - Environmental Clearance - reg
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	IA/GJ/IND2/51643/2016	**Category**	Industrial Projects - 2
Plot / Survey / Khasra No.	N/A	**Sub-District**	N/A
State	GUJARAT	**Entity's PAN**	*****5055K
MoEF File No.	J-11011/39/2016-IA-II (I)	**Entity name as per PAN**	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
3	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
4	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
5	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
6	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
7	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
8	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
9	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
10	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
11	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
12	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
13	Dilute H2SO4	Tons per Annum (TPA)	N/A	4,600	3,382	
14	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
15	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
16	EG	Tons per Annum (TPA)	N/A	3,08,350	1,42,557	
17	Di Ethylene Glycol	Tons per Annum (TPA)	N/A	30,550	14,864	
18	Tri Ethylene Glycol	Tons per Annum (TPA)	N/A	1,270	663	
19	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
20	HCl	Tons per Annum (TPA)	N/A	15,000	9,282	
21	PEG	Tons per	N/A	19,850	0	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	Compliance to all the environmental conditions stipulated in the earlier environmental clearance shall be satisfactorily implemented and compliance reports submitted to the Ministry's Regional Office at Bhopal.

PPs Submission: Complied All the environment conditions stipulated in earlier Environment Clearances, as stated below are complied with. Six monthly compliance reports of below stated ECs are being submitted to MoEFCC Bhopal regularly for existing plants. Debottlenecking (DBN) of existing petrochemical plants is being done in phased manner. Phase 1 of DBN is completed. However, the Proposed expansion / New plants of DMD petrochemical plant / complex is yet to be started. All the previous Environment clearances obtained are listed in detail in Annexure XCI.	Date: 22/11/2024

2	MISCELLANEOUS	All pollution control and monitoring equipments shall be installed, tested and interlocked with the process. SPCB shall grant 'Consent to Operate' after ensuring that all the mentioned pollution control equipments, construction of storm water drain, Greenbelt, uploading of compliance report on the website etc have been implemented.

PPs Submission: Complied For existing plants, air pollution control and monitoring equipments like Bag filters, absorbers, scrubbers, cyclone separator etc. are already installed, tested and interlocked with process to control process emissions. Consent to Establish (CTE) for proposed debottlenecking and expansion project has been granted by Gujarat Pollution Control Board via letter No: GPCB/BRCH-B/CCA-717(13)/ID-15565/465789 dated 16th August, 2018. For existing plant Gujarat Pollution Control Board has accorded Consolidated Consent and Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026.	Date: 22/11/2024

3	AIR QUALITY MONITORING AND PRESERVATION	The fuel used for the proposed project shall largely ethane, lean gas, & off ga

PPs Submission: Complied The clean fuels e.g. Ethane, lean gas, and off gas etc. is used as fuel in existing plants and will be continued for the proposed project.	Date: 22/11/2024

4	AIR QUALITY MONITORING AND PRESERVATION	The levels of PM10, PM2.5, SO2, NOx, VOC and CO shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its 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 State Pollution Control Board (SPCB).

PPs Submission: Complied The levels of PM10, PM2.5, SO2, NOx and CO are monitored in the ambient air. The site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex based on the mathematical modeling studies considering wind directions and the maximum Ground Level Concentration in downwind direction. The proposed expansion and debottlenecking of plant will be within the existing premises. Ambient air quality monitoring is carried out through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the AAQ monitoring results and Detailed AAQ Monitoring data for the period Apr-24	Date: 22/11/2024

		to Sept-24 can be referred from Annexure VI. All results are conforming to the standards prescribed by GPCB. Emissions from the stacks are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the prescribed standard. The summary of flue gas emission results, gaseous emission from various process stacks and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms. Emission levels are displayed at a convenient location near the main gate of the company. Stack emission report and AAQ reports are regularly submitted to the Regional Office of the MoEFCC, Bhopal / CPCB on six monthly bases and to Gujarat Pollution Control Board on monthly basis.
5	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
	PPs Submission: Complied There are 16 numbers of Emergency DG sets installed in the RIL complex for providing power during emergency purpose and these DG are operated only during non-availability of power from both captive power plant and Gujarat Energy Board (GEB).	Date: 22/11/2024
6	WATER QUALITY MONITORING AND PRESERVATION	Total water requirement from Govt. of Gujarat, Vadodara Irrigation Division (VID) and from GIDC shall not exceed 1,86,315 m3/day and prior permission shall be obtained from the Competent Authority. No ground water shall be used without permission.
	PPs Submission: Complied Total water requirement from Govt. of Gujarat, Vadodara Irrigation Division (VID) and from GIDC will not exceed 1,86,315 m3/day after the proposed debottlenecking and expansion of the plant. The average fresh water requirement for the existing plant during the period Apr-24 to Sept-24 was 87,716 m3/day which is not exceeding the permissible limit of 1,38,700 m3/day as prescribed under Consolidated Consent and Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026. Fresh Water requirement is met from river Narmada through Jack wells at Angareshwar with prior approval from Irrigation department for water drawl. The summary of fresh water consumption during reporting period of Apr-24 to Sept-24 is enclosed in Annexure XCII. No ground water is used for the project. The water requirement for the project is met through existing Narmada water.	Date: 22/11/2024
7	WASTE MANAGEMENT	Effluent generation shall not exceed 39,686 m3/day after expansion. Effluent shall be treated in existing ETP followed by RO. The treated effluent shall be partly recycled after RO for in plant use and rest shall be discharged to Gulf of Khambhat through an existing diffusor into Narmada estuary after confirming the standards prescribed by CPCB.
	PPs Submission: Complied Effluent generation quantity for the existing plant prescribed under Consolidated Consent and Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 51,002 m3/d. The current effluent generation quantity from the complex for the review period of Apr-24 to Sept-24 is 38826 m3/d which is well below the permissible limit of 51,002 m3/d. Effluent is treated in existing ETP followed by RO. The Treated effluent is then recycled within the complex as Cooling tower make up, DM water production, green belt development and rest is discharged to Gulf of Khambhat through an existing diffusor into Narmada estuary after confirming the standards prescribed by MoEFCC / CPCB / GPCB. The photographs of existing ETP and RO Plant are annexed as Annexure XXV. The current effluent generation, discharge and recycle quantity from the complex for the review period of Apr-24 to Sept-24 can be referred from Annexure XCII. The detailed treated effluent monitoring report is enclosed as Annexure VII. All the parameters of effluent quality are conforming to the standard stipulated by GPCB.	Date: 22/11/2024
8	WASTE MANAGEMENT	Automatic/online monitoring system (24x7 monitoring devices) for

		flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.
PPs Submission: Complied For existing plants, Automatic/online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system are installed for existing plants. The online monitoring data is made available to the CPCB and SPCB/GPCB. One such online monitoring trend of treated effluent is annexed as Annexure LXXXV for reference.		Date: 22/11/2024
9	WASTE MANAGEMENT	Process effluent/ any wastewater shall not be allowed to mix with storm water.
PPs Submission: Complied For existing plants, process effluent / any wastewater is not allowed to mix with storm water. Dedicated network for process effluent and storm water have been established for existing plant. The same will be continued for proposed project. Photographs of storm water channel is enclosed as Annexure LXXXVI.		Date: 22/11/2024
10	WASTE MANAGEMENT	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.
PPs Submission: Complied For existing plants, the hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. as per permission granted by PESO. Flame arresters are already provided on tanks. Solvent is being transferred by pumps. Photograph of tank farm area is enclosed as Annexure LVII. The same will be continued for proposed project.		Date: 22/11/2024
11	WASTE MANAGEMENT	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
PPs Submission: Complied Debottlenecking (DBN) of existing petrochemical plants is being done in phased manner. Phase 1 of DBN is completed. However, the Proposed expansion / New plants of DMD petrochemical complex is yet to be started.		Date: 22/11/2024
12	WASTE MANAGEMENT	Solid wastes management shall be undertake as per Solid Waste Management Rules, 2016 and Hazardous and Other Wastes (Management and Trans boundary Movement) Rules 2016 will be extended to the wastes from proposed project as well.
PPs Submission: Complied For existing plants, solid wastes management is being undertaken as per Solid Waste Management Rules, 2016 and Hazardous and Other Wastes (Management and Trans boundary Movement) Rules 2016 and the same will be extended to the wastes from proposed project as well. At RIL Dahej, we have engaged waste management agency M/s NEPRA Environmental Solutions Pvt Ltd. Solid waste is collected from RIL-DMD complex and Saraswati Township in Reliance Collection Vehicle on daily basis. In Material Recovery Facility (MRF), mixed waste (garbage) is segregated into different recyclable categories like plastic, paper, cardboard, metal etc. and also non-recyclables as RDF. Recyclable waste will go for recycling and non-recyclable waste will go for co-processing. The authorization obtained from GPCB under these rules vide Authorization Order No. AWH-121992 dated 25th November 2022, valid upto 03.11.2026. The same waste management practices will be extended to the proposed project.		Date: 22/11/2024
13	WASTE MANAGEMENT	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and

		prior permission from MPCB shall be obtained for disposal of solid/hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency.
PPs Submission: Complied Hazardous waste Authorization for the existing project has been obtained from GPCB for collection / treatment / storage / disposal of hazardous wastes under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes. Authorization (AWH-121992) from GPCB for collection / treatment / storage / disposal of hazardous wastes is available which is valid up to 03.11.2026. Adequate Fire protection systems have been provided in case of any emergency.		Date: 22/11/2024
14	Statutory compliance	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
PPs Submission: Complied For existing plants, RIL DMD complies with the rules and guidelines under provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 and as amended from time to time are being complied by ensuring the following activities: - Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXIV. - Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXV. - Conducting mock drills on regular basis. One such mock drill report is enclosed as Annexure XXXVI. - Provision of emergency alert system like sirens, announcement etc and ensuring their healthiness. Details of siren submitted to DISH is enclosed as Annexure XXXVII - Mutual aid arrangement with neighboring industries. Agreement copy is enclosed as Annexure XXXVIII. Transportation of hazardous chemical is carried out as per the Motor Vehicle Act and Rules like: - Emergency information panel on Carrier - The product name, UN number, and CTU (Container carrier unit) identification number on the shipping document. - Training imparted to drivers by RIL Driver Safety Training Center and it is valid for one year for liquid / gas carrier drivers and two years for carrier driver. - Refresher training also shall be given by Driver Safety Training Center. - TREM Card. - Instruction to drivers on emergency situations. The same will be extended to proposed project.		Date: 22/11/2024
15	MISCELLANEOUS	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
PPs Submission: Complied For existing plants, necessary arrangement is made for protection of possible fire hazards during manufacturing process in material handling. Fire protection system is provided using National Fire Protection Association (NFPA) / TAC guidelines. Fire protection systems consists mainly of 7 fire tenders, more than 5500 portable fire extinguishers, 600 fire buckets, 56 foam systems and a network of more than 1100 double head hydrant posts all-round the plant area along with 250 water spray system / fume suppression system / sprinkler system and fire water pipeline network laid around 90 km. Also, more than 9000 automatic fire detection and alarm, manual fire alarm system, adequate capacity fire water storage tanks etc. have been installed. All these fire detection and protection measures are maintained and supported by a competent and experienced team of around 13 crew members / officers in each shift round the clock. The same will be extended to proposed project.		Date: 22/11/2024
16	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied For existing plants, RIL- DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being		Date: 22/11/2024

maintained in OHC. Occupational Health Surveillance is carried out - At the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees. Details of checks conducted at the time of Fitness Examination and Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI. The same will be extended to proposed project.		
17	MISCELLANEOUS	At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.
PPs Submission: Complied RIL DMD is committed to our Corporate Social Responsibility (CSR) activities for creating, maintaining and sustaining safe and clean environment of the local people. RIL-DMD has taken up many activities for the up-liftment of nearby community. The same has been continued by Reliance Foundation not only in our area but for entire India. Action plan for implementation of Enterprise Social Commitment (ESC) based on local needs with financial and physical breakup / details to be prepared and will be submitted to the Ministry's Regional Office at Bhopal after finalization. Photographs of some of the CSR events held during the reporting period is enclosed as Annexure LXXXVII.		Date: 22/11/2024
18	GREENBELT	As proposed, green belt over 231 ha shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
PPs Submission: Complied For existing plants, site has already developed around 203 ha of green cover as per the CPCB guidelines at Dahej Petrochemical Complex. Site has developed lush green belt on all sides along the periphery of the complex. The proposed project will be developed within existing premises. Every year plantation drive is being done to strengthen the green cover in the complex. During the reporting period Apr-24 to Sept-24: Around 15,012 trees have been planted in the complex, at open areas of GIDC near site and at road dividers outside of complex. Photographs of green belt developed during the reporting period is annexed as Annexure XXIX.		Date: 22/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
PPs Submission: Complied The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 is being strictly followed. A summary of the AAQ monitoring results and Detailed AAQ Monitoring data for the period Apr-24 to Sept-24 can be referred from Annexure VI. All results are conforming to the standards prescribed by GPCB.		Date: 22/11/2024
2	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority.
PPs Submission: Complied For existing plants, as mentioned in above conditions and the summary of environmental monitoring		Date:

		results, RIL DMD is complying with all the standards and stipulations made by the Gujarat State Pollution Control Board, the State Government and any other statutory authority. Stipulations made by the Gujarat Pollution Control Board vide CTO (Consent to Operate) / CCA (Consolidated Consent and Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to. The major stipulations given by GPCB vide CCA is given as below	22/11/2024
3	Statutory compliance	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
		PPs Submission: Complied No further expansion or modernization of petrochemical plants at RIL-DMD have been carried out without prior approval of MoEFCC. This EC is also issued for expansion of our existing petrochemical complex for which RIL-DMD has got the EC in 1991 and expansion was carried out only after obtaining the prior approval from MoEFCC / SEIAA in 2007, 2008, 2011, 2015, 2017 and 2021. No changes / deviations / alteration in the project proposal from those submitted to the Ministry for clearance have taken place at the DMD complex during the review period.	Date: 22/11/2024
4	AIR QUALITY MONITORING AND PRESERVATION	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	
		PPs Submission: Complied The location of ambient air quality monitoring is decided in consultation with the Gujarat Pollution Control Board. The site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex based on the mathematical modeling studies considering wind directions and the maximum Ground Level Concentration in downwind direction. Consultation letter with GPCB and AAQM location map is enclosed in Annexure XVII for reference. Ambient air quality monitoring is carried out at each location through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. A summary of the AAQ monitoring results and Detailed AAQ Monitoring data for the period Apr-24 to Sept-24 can be referred from Annexure VI. All results are conforming to the standards prescribed by GPCB.	Date: 22/11/2024
5	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)..	
		PPs Submission: Complied The overall noise levels in and around the plant area are kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The same measures will be extended to proposed project. Noise level at the site is monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it conforms to the standard prescribed under EPA Rules, 1989 viz. 75 dBA (Day Times) and 70 dBA (Night time). MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed ambient noise level monitoring report is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms.	Date: 22/11/2024
6	MISCELLANEOUS	The Company shall harvest rainwater from the roof tops of the	

		buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
PPs Submission: Complied RIL-DMD has undertaken rainwater harvesting measures to recharge the ground water such as a rain water harvesting pond is established for collecting and storing the rain water. The collected water is used inside the plant to supplement fresh water supply thereby minimizing water drawl from the weir to that extent. It also helps in recharging of the ground water. Apart from these, various efforts are taken to minimize the water withdrawal e.g. reduction in fresh water requirement for utilization as make up water in cooling towers by recycling treated water in cooling towers etc. Photograph of Rain water harvesting pond is enclosed as Annexure XXVIII.		Date: 22/11/2024
7	Human Health Environment	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
PPs Submission: Complied Training is imparted to all the employees on safety and health aspects of chemicals handling. The chemical handling related, safety and health training is imparted to all workers on RIL role and all contractor workers as well. The level-1 and level-2 training is provided to the contract workers which includes the safe work practices related to safe chemical handling and use of PPEs. At RIL DMD, employees are imparted safety training through induction and refresher training on safe work practices, safe chemical handling and use of PPE. Pre-employment and routine periodical medical examination for all employees is carried out by OHC annually and records are maintained as per the Gujarat Factories Act and Rules. Records of various trainings imparted to all is enclosed as Annexure LIX. Above mentioned points / measures will be extended to proposed project.		Date: 22/11/2024
8	MISCELLANEOUS	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
PPs Submission: Complied RIL DMD will comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA / EMP in respect of environmental management, risk mitigation measures etc., relating to the project is / will be implemented. EMP Budget expenditure taken is INR 400 Crores, out of which expenditure of INR 105 Crores done on measures of EMP during DBN of existing petrochemical plants and the remaining will be done during proposed expansion / New plants of DMD petrochemical plant / complex. Proposed expansion / New plants of DMD petrochemical plant / complex is yet to be started. Noted and will be complied		Date: 22/11/2024
9	MISCELLANEOUS	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
PPs Submission: Complied RIL-DMD has undertaken relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities are undertaken by involving local villages and administration. Further, RIL is committed to our Corporate Social Responsibility (CSR) activities for creating, maintaining and sustaining safe and clean environment of the local people. RIL-DMD has taken up many activities for the upliftment of nearby community. The same has been continued by Reliance Foundation not only in our area but for entire India.		Date: 22/11/2024
10	MISCELLANEOUS	The company shall undertake eco-developmental measures including community welfare measures in the project area for the

		overall improvement of the environment.
PPs Submission: Complied RIL-DMD has taken up many activities for the up-liftment of nearby community. The same has been continued by Reliance Foundation not only in our area but for entire India and the same will be continued.		Date: 22/11/2024
11	MISCELLANEOUS	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
PPs Submission: Complied A separate Environment Cell, headed by Environment Head with environment qualification and 17 plus year experience. The cell is supported by 3 qualified Environment professionals (Env. Engg). Environment Head reports the Site President. The detailed organogram is presented as below: RIL-DMD has a full-fledged Quality Assurance (Laboratory) dept., manned with qualified Lab-technicians under the supervision of competent and well-experienced managers who also carry out the sample analysis. The Laboratory Head directly reports to the Technical Head of the complex. Photographs of the Laboratory is enclosed as Annexure XII.		Date: 22/11/2024
12	MISCELLANEOUS	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
PPs Submission: Complied Sufficient funds are earmarked every year for environmental management including monitoring and analysis. The funds earmarked for environment management / pollution control measures are not diverted for any other purpose. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crore. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores		Date: 22/11/2024
13	MISCELLANEOUS	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
PPs Submission: Complied Copy of the clearance letter is sent to all the concerned parties.		Date: 22/11/2024
14	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
PPs Submission: Complied Six monthly compliance report and monitoring data is submitted to MoEFCC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2024/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. DMD/HSEF/ENV/2024/29 dated 27th May, 2024 to Integrated Regional office of MoEFCC. Also		Date: 22/11/2024

Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted to GPCB on monthly basis Proof of submission of last EC Compliance report is enclosed as Annexure XVI.		
15	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
PPs Submission: Complied For existing plants, the environmental statement for each financial year ending 31st March in prescribed Form-V is submitted to the Gujarat Pollution Control Board. Environment Statement for the financial year 2023-24 was submitted via letter no RIL-DMD/HSEF/ENV/2024/50 dated 23rd September, 2024. The same is enclosed as Annexure LXXXVIII.		Date: 22/11/2024
16	Statutory compliance	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
PPs Submission: Complied The public was informed through public notice published in English Newspaper - The Times of India and Gujarati Newspaper - Divyabhaskar on 10th and 11th April 2017 respectively which is enclosed as Annexure LXXXIX. The copy of the same has already been submitted to the Regional Office of the MoEFCC, Bhopal vide our letter dated 13th April 2017.		Date: 22/11/2024
17	MISCELLANEOUS	The project authorities 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 the project.
PPs Submission: Complied Noted. Concerned authorities will be informed.		Date: 22/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	DMD Annexures are uploaded as additional attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Expansion and Debottlenecking of existing Petrochemical Plant by M/s Reliance Industries Limited located at Plot No. 1, Notified Industrial Area, GIDC Dahej, Bharuch, Gujarat - Consideration of Environmental Clearance regarding
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	BHARUCH

Proposal No.	IA/GJ/IND2/209217/2020
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/39/2016-IA II (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	*****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	604.2	604.2
Total	604.2	604.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Tri Ethylene Glycol	Tons per Annum (TPA)	N/A	1,270	663	
2	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
3	Caustic Soda	Tons per Annum (TPA)	N/A	2,21,000	1,69,331	
4	Gas Based Power	MW	N/A	195	-	
5	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	11,000	1,158	
6	TEG Bottom	Tons per Annum (TPA)	N/A	2,880	416	
7	Ethylene Oxide (EO)	Tons per Annum (TPA)	N/A	1,50,000	62,371	
8	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
9	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
10	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
11	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
12	RARFS (Pyrolysis Gasoline)	Tons per Annum (TPA)	N/A	54,750	7,111	
13	Fuel Oil	Tons per Annum (TPA)	N/A	40,000	8,716	
14	Tar Residue	Tons per Annum (TPA)	N/A	5,472	0	
15	Ethylene Dichloride (EDC)	Tons per Annum (TPA)	N/A	5,88,000	1,95,524	
16	Vinyl Chloride Monomer (VCM)	Tons per Annum (TPA)	N/A	3,60,000	3,56,083	
17	Light Ends	Tons per Annum (TPA)	N/A	16,100	0	
18	HCl	Tons per Annum (TPA)	N/A	2,15,800	19,701	
19	Polyvinyl Chloride (PVC)	Tons per Annum (TPA)	N/A	3,60,000	3,53,809	
20	PEG	Tons per Annum (TPA)	N/A	19,850	0	
21	Ethylene	Tons per	N/A	15,000	0	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF&CC. Outcome from the report to be implemented for conservation scheme.

PPs Submission: Complied The proposed project has not yet implemented. The condition will be complied with after the implementation of proposed project. Will be complied with.	Date: 22/11/2024

2	Risk Mitigation and Disaster Management	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.

PPs Submission: Complied For existing plants, the hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. as per permission granted by PESO. Flame arresters are already provided on tanks. Solvent is being transferred by pumps. For details please refer to Sr. No. A (X) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. The same will be continued for proposed project.	Date: 22/11/2024

3	AIR QUALITY MONITORING AND PRESERVATION	Regular VOC monitoring shall be done at vulnerable points.

PPs Submission: Complied Proposed expansion of DMD petrochemical plant / complex is yet to be started. VOCs (Benzene) monitoring in ambient air is being done regularly through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the results are being submitted to the GPCB / MoEFCC. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II The monitoring results for the VOCs (Benzene) is given in summary of the AAQ monitoring results of Apr-24 to Sept-24 which can be referred from Annexure VI. VOCs at the process areas are also being monitored in every plant under the Leak detection and Repair Program (LDAR). Typical LDAR Report of one the plant is enclosed as Annexure XIX. For details please refer to Sr. No. A (IV) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. The same will be continued for proposed project.	Date: 22/11/2024

4	WASTE MANAGEMENT	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio- remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.

PPs Submission: Complied Proposed expansion of DMD petrochemical plant / complex is yet to be started.	Date: 22/11/2024

5	WASTE MANAGEMENT	The company shall undertake waste minimization measures as below: a)Metering and control of quantities of active ingredients to minimize waste. b)Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c)Use of automated filling to minimize spillage. d)Use of Close Feed system into batch reactors. e)Venting equipment through vapour recovery system. f)Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.

PPs Submission: Complied All active ingredients are metered at all the plants. Metering and control is provided for active	Date:

ingredients to ensure waste minimization. Will be continued for the proposed project. Proposed expansion of DMD petrochemical plant / complex is yet to be implemented. Automated and enclosed material transfer system implemented to minimize spillages. Proposed expansion of DMD petrochemical plant / complex is yet to be started Proposed expansion of DMD petrochemical plant / complex is yet to be started. Will be considered during design stage of proposed project. The proposed project is yet to be started. The proposed project is yet to be started.			22/11/2024
6	GREENBELT	The green belt of 5-10 m width shall be developed in 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	
PPs Submission: Complied For existing plants, site has already developed 33 percent of green cover as per the CPCB guidelines at Dahej Petrochemical Complex. Site has developed lush green belt on all sides along the periphery of the complex. The proposed project will be developed within existing premises. Every year plantation drive is being done to strengthen the green cover in the complex.			Date: 22/11/2024
7	Corporate Environmental Responsibility	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.	
PPs Submission: Complied Number of activities are undertaken to address the socio-economic and environmental issues in the nearby area every year based on the requirements. We are supporting child education, health care facilities and drinking water supply and women empowerment in the nearby areas through various initiatives. Details of some of the CSR activities undertaken with actual expenditure are as follows: - Dusting and Cleaning of Nearby Areas - INR 31.20 Lakhs - Interior Green Belt Development and Management - INR 1.85 Crores. - Exterior Green Belt Development and Management - INR 9.75 Lakhs			Date: 22/11/2024
8	Corporate Environmental Responsibility	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development center/provide skill development training to village people.	
PPs Submission: Complied Proposed expansion of DMD petrochemical plant / complex is yet to be started. Will be complied.			Date: 22/11/2024
9	Risk Mitigation and Disaster Management	The company shall conduct 3D modeling for determining risk at individual & cumulative level, safety aspects related to detectors/regulators shall also be included and action taken report shall be submitted to the Ministry within nine (09) months.	
PPs Submission: Complied The projects granted in the clearance are yet to be started except the additional APCM (i.e. additional incinerator in VCM plant and regenerative Thermal Oxidiser). The CTE granted by the Board for the project in line with EC vide letter no. J-11011/39/2016-IA-II (I) dated 19/08/2021. A comprehensive risk assessment will be carried out for the plants mentioned in EC once Technology and Front End Engineering Documents are finalized for the proposed project. In view of the above a comprehensive 3D model has been planned to be carried out once the design details are finalized.			Date: 22/11/2024

10	MISCELLANEOUS	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall implemented.

PPs Submission: Complied RIL DMD will comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA / EMP in respect of environmental management, risk mitigation measures etc., relating to the project is / will be implemented. EMP Budget expenditure taken is INR 400 Crores, out of which expenditure of INR 105 Crores done on measures of EMP during DBN of existing petrochemical plants and the remaining will be done during proposed expansion / New plants of DMD petrochemical plant / complex. Proposed expansion / New plants of DMD petrochemical plant / complex is yet to be started. For details please refer to Sr. No. B (VIII) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. Proposed expansion / New plants of DMD petrochemical plant / complex is yet to be started. Noted and will be complied.	Date: 22/11/2024

11	Statutory compliance	Total fresh water requirement shall not exceed 24,000 m3/day, proposed to be met from GIDC water supply and supply from Vadodara Irrigation Division. Necessary permission in this regard shall be obtained from the concerned regulatory authority.

PPs Submission: Complied Proposed expansion / New plants of DMD petrochemical plant / complex is yet to be started. Total fresh water requirement will not exceed 24,000 m3/day, proposed to be met from GIDC water supply and supply from Vadodara Irrigation Division after the proposed debottlenecking and expansion of the plant. Fresh Water requirement is met from river Narmada through Jack wells at Angareshwar with prior approval from Irrigation department for water drawl. For details please refer to Sr. No. A (VI) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017.	Date: 22/11/2024

12	MISCELLANEOUS	A separate Environmental Management Cell (having qualified person with Environmental Science / Environmental Engineering / specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

PPs Submission: Complied A separate Environment Cell, headed by Environment Head with environment qualification and 17 plus year experience. The cell is supported by 3 qualified Environment professionals (Env. Engg.) Environment Head reports the Site President. RIL-DMD has a full-fledged NABL Accredited Quality Assurance (Laboratory) dept., manned with qualified Lab-technicians under the supervision of competent and well-experienced managers who also carry out the sample analysis. The Laboratory Head directly reports to the Technical Head of the complex.	Date: 22/11/2024

13	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be per the norms.

PPs Submission: Complied For existing plants, necessary arrangement is made for protection of possible fire hazards during manufacturing process in material handling. Fire protection system is provided using National Fire Protection Association (NFPA) / TAC guidelines. Fire protection systems consists mainly of 7 fire tenders, more than 5500 portable fire extinguishers, 600 fire buckets, 56 foam systems and a network of more than 1100 double head hydrant posts all-round the plant area along with 250 water spray system / fume suppression system / sprinkler system and fire water pipeline network laid around 90 km. Also, more than 9000 automatic fire detection and alarm, manual fire alarm system, adequate capacity fire water storage tanks etc. have been installed. All these fire detection and protection measures are maintained and supported by a competent and experienced team of around	Date: 22/11/2024

13 crew members / officers in each shift round the clock. The same will be extended to proposed project,			
14	AIR QUALITY MONITORING AND PRESERVATION	Continuous online (24x7) monitoring system for stack emissIons shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	
PPs Submission: Complied Continuous online emission / effluent monitoring analysers (CEMS) have been provided in existing plants. We will provide CEMS in proposed projects as per the requirements. Online pH, BOD, COD and TSS analyzers are provided at the outlet of the ETP. Photograph of online monitoring system and analyzer room can be seen in Annexure XLV.			Date: 22/11/2024
15	Human Health Environment	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	
PPs Submission: Complied For existing plants, RIL- DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab. Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC. Occupational Health Surveillance is carried out - At the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees. Details of checks conducted at the time of Fitness Examination and Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI. The same will be extended to proposed project. All workers and employees are provided with required safety kits/mask for personal protection.			Date: 22/11/2024
16	Statutory compliance	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.	
PPs Submission: Complied Proposed expansion of DMD petrochemical plant / complex is yet to be started. Emissions from the stacks are monthly monitored through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the prescribed standard. The summary of flue gas emission results, gaseous emission from various process stacks and detailed stack emission monitoring report for the period of Apr-24 to Sept-24 is enclosed as Annexure III. All results are conforming to the standards prescribed by GPCB norms. Emission levels are displayed at a convenient location near the main gate of the company. Stack emission report and AAQ reports are regularly submitted to the Regional Office of the MoEFCC, Bhopal / CPCB on six monthly bases and to GPCB on monthly basis.			Date: 22/11/2024
17	Risk Mitigation and Disaster Management	Recommendations of mitigation measures from possible accident shall be implemented based on Risk Assessment studies conducted through 3D modeling for worst case scenarios using latest techniques.	
PPs Submission: Complied Proposed expansion of DMD petrochemical plant / complex is yet to be started. Being Complied.			Date: 22/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

PPs Submission: Complied No further expansion or modernization of petrochemical plants at RIL-DMD have been carried out without prior approval of MoEFCC. This EC is also issued for expansion of our existing petrochemical complex for which RIL-DMD has got the EC in 1991 and expansion was carried out only after obtaining the prior approval from MoEFCC / SEIAA in 2007, 2008, 2011, 2015,2017, 2021 and 2023. No changes / deviations / alteration in the project proposal from those submitted to the Ministry for clearance have taken place at the DMD complex during the review period.	Date: 22/11/2024

2	ENERGY PRESERVATION MEASURES	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.

PPs Submission: Complied Will be considered in the design stage for proposed project Energy conservation methods like use of LED lighting for office, street lighting and plant peripheral lighting, programmable timers for lighting in non-plant areas are being implemented.	Date: 22/11/2024

3	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

PPs Submission: Complied The overall noise levels in and around the plant area are kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The same measures will be extended to proposed project. Noise level at the site is monitored on monthly basis through MoEFCC recognized and NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it conforms to the standard prescribed under EPA Rules, 1989 viz. 75 dBA (Day Times) and 70 dBA (Night time). For details please refer to S.No. B(V) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. MoEFCC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed ambient noise level monitoring report is enclosed as Annexure XIV. All results are conforming to the standards prescribed by GPCB norms.	Date: 22/11/2024

4	Corporate Environmental Responsibility	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

PPs Submission: Complied RIL-DMD has undertaken relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities are undertaken by involving local villages and administration. Further, RIL is committed to our Corporate Social Responsibility (CSR) activities for creating, maintaining and sustaining safe and clean environment of the local people. RIL-DMD has taken up	Date: 22/11/2024

many activities for the upliftment of nearby community. The same has been continued by Reliance Foundation not only in our area but for entire India.		
5	MISCELLANEOUS	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government alonQ with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
PPs Submission: Complied Sufficient funds are earmarked every year for environmental management including monitoring and analysis. The funds earmarked for environment management / pollution control measures are not diverted for any other purpose. Recurring expenditure incurred to comply with the conditions stipulated by MoEFCC / SEIAA / GPCB for the period Apr-24 to Sept-24 is about INR. 56.7 Crore. Some of the major areas where environment expenditure incurred during Apr-24 to Sept-24 is appended below: - Environment monitoring - INR 21.27 Lakhs - Online Continuous emission and effluent monitoring systems - INR 48.54 Lakhs - Pollution control systems (Effluent treatment and management / APCM) - INR 51.25 Crores - Waste management - INR 1.87 Crores - Green belt development - INR 1.85 Crores		Date: 22/11/2024
6	MISCELLANEOUS	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
PPs Submission: Complied Copy of the clearance letter is sent to all the concerned parties. Copy of EC was submitted vide our letter no. RIL-DMD/HSEF/ENV/2021/55-61 dated 20th Aug 2021 to Collector Office, District Panchayat Office, Ambetha, Dahej Jageshwar, Lakhigam and Luvara Gram Panchayats.		Date: 22/11/2024
7	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
PPs Submission: Complied Six monthly reports on the status of compliance of stipulated Environment Clearance conditions including results of monitored data is being submitted to the Integrated Regional Office of MoEFCC, Gandhinagar and CPCB / GPCB / SEIAA regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/29 dated 28th May, 2024 to Integrated Regional office of MoEFCC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports and Hazardous reports are submitted to GPCB on monthly basis. For details, please refer to S.No. B(XIV) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017. Proof of submission of last EC Compliance report is enclosed as Annexure XVI.		Date: 22/11/2024
8	Statutory compliance	The environmental statement for each financial year ending 31 March in Form-Vas is mandated shall be submitted 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 the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e mail.

PPs Submission: Complied Proposed expansion of DMD petrochemical plant / complex is yet to be started. For existing plants, the environmental statement for each financial year ending 31st March in prescribed Form-V is submitted to the Gujarat Pollution Control Board. Environment Statement for the financial year 2023-24 was submitted via letter no RIL-DMD/HSEF/ENV/2024/50 dated 23rd September, 2024. The same is enclosed as Annexure LXXXVIII. For details, please refer to S.No. B(XV) of compliance report of EC Order no F. No. J-11011/39/2016-IA-II (I) dated 03rd April 2017.		Date: 22/11/2024
9	Statutory compliance	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
PPs Submission: Complied The public was informed through public notice published in English Newspaper - The Times of India and Gujarati Newspaper - Gujarat Samachar on 24th August 2021, which is enclosed as Annexure XC. The copy of the same has already been submitted to the Regional Office of the MoEFCC, Bhopal vide our letter dated 25th August 2021.		Date: 22/11/2024
10	MISCELLANEOUS	The project authorities 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 the project.
PPs Submission: Complied Noted. Concerned authorities will be informed.		Date: 22/11/2024
11	MISCELLANEOUS	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
PPs Submission: Complied Noted.		Date: 22/11/2024
12	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
PPs Submission: Complied Noted.		Date: 22/11/2024
13	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
PPs Submission: Complied This condition is not applicable to us.		Date:

		22/11/2024
14	MISCELLANEOUS	Any appeal against this environmental 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.
PPs Submission: Complied Noted.		Date: 22/11/2024
15	MISCELLANEOUS	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.
PPs Submission: Complied Noted.		Date: 22/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All Annexures are uploaded as additional attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Annexure I

Compliance Status for the Consolidated Consent & Authorisation Consent Order No. AWH-111189 dated 16th January 2021 and its CCA Amendment No. AWH-121992 dated 25th November 2022 & CCA Amendment No. AWH-134596 dated 02nd July 2024

GPCB has issued Consolidated Consent and Authorization Amendment (CC & A - Amendment) vide CCA Amendment Order No. AWH-121992 dated 25/11/2022 with reference to Consolidated Consent and Authorization (CC & A) vide Consent order no. AWH-111189 dated 16/01/2021 to M/s. Reliance Industries Limited, Dahej Manufacturing Division, At & Post: Dahej-392 130, Taluka :Vagra, Dist: Bharuch, under the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under Hazardous and Other Waste (Management & Transboundary) Rules, 2016 framed under E (P) ACT 1986 which is valid upto 03/11/2026.

<table>
<tr><th>Sr. No.</th><th>CCA Conditions</th><th>Compliance Status of CCA Conditions</th></tr>
<tr><td>I.</td><td colspan="2">Consent Amendment Order No : AWH-121992, date of Issue 25/11/2022</td></tr>
<tr><td>1.</td><td colspan="2">SPECIFIC CONDITIONS</td></tr>
<tr><td>a)</td><td>Quantity of HCl generated from incinerator of VCM plant shall be increased from 36,000 MTPA to 72,000 MTPA and entire quantity of it shall be recycled/consumed captively.</td><td>Complied.</td></tr>
<tr><td>b)</td><td>In case of sending HCl generated from incinerator of VCM plant outside the premises, it shall be sent to actual end users having rule-9 permission and valid CCA.</td><td>Complied.</td></tr>
<tr><td>c)</td><td>Unit shall comply all the conditions stipulated by MOEF & CC in the order of Environment Clearance (EC) issued vide letter no. F.No.J-11011/39/2016-IA II (1) dated 19.08.2021.</td><td>All the conditions stipulated by MOEF & CC in the order of Environment Clearance (EC) issued vide letter no. F.No. J-11011/39/2016-IA II (1) dated 19.08.2021 are complied with.

Complied.</td></tr>
<tr><td>d)</td><td>Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.</td><td>Noted.</td></tr>
<tr><td>2.</td><td colspan="2">CONDITION UNDER THE WATER ACT:</td></tr>
<tr><td>2.1</td><td>The condition no. 3.1 for Water Consumption under the Water Act of the CCA order no: AWH-111189 issued vide letter no. GPCB/ BRCH-B/ CCA-717(18)/ ID-15565/582554 dated 02/02/2021 is amended and shall now be read as under:
a. Domestic: 2100 KL/Day (Existing 2100 KLD+ Proposed: NIL)
b. Industrial: 1,36,600 KL/Day (Existing 1,35,900 KLD + Proposed 700 KLD)

Total: 1,38,700 KL/Day (Existing 1,38,000 KLD + Proposed 700 KLD)</td><td>Average domestic water consumption was 903 KLD and fresh water requirement was 87,716 KLD for the period Apr’24 – Sept’24 which is not exceeding the permissible limit of 1,38,700 KLD.

The summary of Domestic water consumption during reporting period of Apr’24 – Sept’24 is presented as below:

<table><tr><th colspan="4">Domestic Water Consumption (KL/day)</th></tr><tr><th>Prescribed Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr><tr><td>2100</td><td>903</td><td>875</td><td>933</td></tr></table>
The summary of fresh water consumption during reporting period of Apr’24 – Sept’24 is presented as below:</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><th colspan="4">Fresh Water Consumption (KL/day)</th></tr>
<tr><th>Prescribed Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>1,38,700</td><td>87716</td><td>80477</td><td>91849</td></tr>
</table>
Complied.
</td></tr>
<tr><td>2.2</td><td>The condition no. 3.2 for wastewater Generation under the water Act of the CCA order No: AWH-111189, issued vide letter no. GPCB/ BRCH-B/ CCA-717(18)/ ID-15565/582554, dated 02/02/2021 is amended and shall now be read as under:
a. Domestic: 1680 KL/Day (Existing 1680 KLD+ Proposed: NIL)
b. Industrial: 49322 KL/Day (Existing49,122 KLD + Proposed 200 KLD)
Total: 51,002 KL/Day (Existing 50,802 KLD + Proposed 200 KLD)</td><td>Average domestic wastewater generation was 690 KLD and waste water generation was 38,826 KL/day during reporting period of Apr’24 – Sept’24 which is well within the permissible limit of 51,002 KL/day.

Data for domestic effluent generation quantity for the Apr’24 – Sept’24 is presented below which is also being submitted to GPCB on monthly basis.
<table>
<tr><th colspan="4">Domestic Effluent Generation (KL/day)</th></tr>
<tr><th>Permissible Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>1680</td><td>690</td><td>549</td><td>858</td></tr>
</table>
Data for effluent generation quantity for the Apr’24 – Sept’24 is presented below which is also being submitted to GPCB on monthly basis.
<table>
<tr><th colspan="4">Effluent Generation (KL/day)</th></tr>
<tr><th>Permissible Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>51,002</td><td>38826</td><td>36898</td><td>41099</td></tr>
</table>
Complied.
</td></tr>
<tr><td>2.3</td><td>The condition No. 3.3 for treatment and mode of disposal of wastewater under the Water Act of the CCA order no. AWH-111189 issued vide letter no. GPCB/ BRCII-B/ CCA-717(18)/ ID-15565/582554 dated 02/02/2021 is amended and shall now be read as under:
Out of 51,002 KLD of treated wastewater, 14,710 KLD (including proposed 200 KLD) shall be reused/recycled for industrial purpose within premises, whereas rest of 36,292 KLD after conforming norms as per previous CCA shall be discharged into the deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser. After conforming norms as per previous CCA, cooling tower blowdown shall be discharged into the deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser.</td><td>Average effluent recycle quantity from the complex is around 19,111 KL/day. In the review period Apr’24 – Sept’24, out of the 38,826 KL/day of effluent generated from complex, 19,715 KL/day of treated effluent was discharged into the deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser.

The summary for the effluent data for the reporting period Apr’24 – Sept’24 is given as below:
<table>
<tr><th>Aspect</th><th>Permissible Limit (KL/day)</th><th>Avg. Quantity (KL/day)</th></tr>
<tr><td>Effluent Generation</td><td>51,002</td><td>38,826</td></tr>
<tr><td>Effluent Discharge</td><td>36,292</td><td>19,715</td></tr>
<tr><td>Effluent Recycle</td><td>14,710</td><td>19,111</td></tr>
<tr><td>Percentage of Effluent Recycling</td><td>30 %</td><td>49%</td></tr>
</table>
It can be seen from the above data table that the treated Effluent recycling is done to maximum extent possible.

Treated effluent is being monitored on monthly basis</td></tr>
</table>

through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the quality of effluent is maintained well within the norm prescribed by the GPCB. The treated effluent is discharged after conforming to the GPCB standards through existing effluent disposal pipeline equipped with multiport diffuser.

A summary of major effluent monitoring parameters results for the period Apr'24 – Sept'24 is presented below.

Parameter	Unit	GPCB Consent Limit	Avg	Min	Max
pH	–	5.5-9.0	7.98	7.81	8.30
Colour and odour	–	All efforts shall be made to remove colour and unpleasant odour as far as practicable.	Colourless and Odourless		
Suspended Solids	mg/l	100	26.33	23.00	29.00
Temperature	o C	Shall not exceed 5°C above the receiving water temperature	28.30	26.10	30.50
Oil & Grease	mg/l	20	1.63	1.40	1.80
Total Residual Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1
Ammonical Nitrogen (as N)	mg/l	50	14.77	12.50	17.10
Total Kjeldahl Nitrogen(as NH3)	mg/l	100	30.07	25.30	33.40
Free Ammonia (as NH3)	mg/l	5	2.78	1.70	3.50
Biochemical Oxygen Demand	mg/l	100	45.93	41.50	51.60
Chemical Oxygen Demand	mg/l	250	171.02	138.80	196.00
Arsenic (as AS)	mg/l	0.2	< 0.01	< 0.01	< 0.01
Mercury (as Hg)	mg/l	0.01	< 0.005	< 0.005	< 0.005
Lead (as Pb)	mg/l	2	< 0.05	< 0.05	< 0.05
Cadmium (as Cd	mg/l	2	< 0.03	< 0.03	< 0.03
Hexavalent Chromium (as Cr+6)	mg/l	1	< 0.05	< 0.05	< 0.05
Total Chromium (as Cr)	mg/l	2	< 0.01	< 0.01	< 0.01
Copper (as Cu)	mg/l	3	< 0.04	< 0.04	< 0.04
Zinc (as Zn)	mg/l	15	1.52	1.20	1.90
Selenium (as Se)	mg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (as Ni)	mg/l	5	< 0.01	< 0.01	< 0.01
Cyanide (as CN)	mg/l	0.2	< 0.03	< 0.03	< 0.03

Fluorides (as F)	mg/l	15	0.38	0.26	0.56
Sulphides	mg/l	5	0.17	0.14	0.21
Phenolic compounds (as C6H5OH)	mg/l	5	< 0.001	< 0.001	< 0.001
Manganese (as Mn)	mg/l	2	< 0.1	< 0.1	< 0.1
Iron (as Fe)	mg/l	3	1.55	1.40	1.80
Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004
Nitrate Nitrogen	mg/l	20	12.50	9.00	16.00
Bioassay Test	-	90% survival of fish after 96 hours in 100% effluent	>90% survival of fish after 96 hours in 100% effluent		

From above results, it can be seen that the ETP is operating regularly and efficiently and all the results are complying with the GPCB norms.

Complied.

3. CONDITIONS UNDER THE AIR ACT:

3.1 The condition No. 4.1 for Fuel consumption under the Air Act of CCA order No: AWH-111189, issued vide letter no. GPCB/ BRCH-B/ CCA-717(18)/ ID-15565/582554, dated 02/02/2021 is amended and shall now be read as under:

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Liquid Fuel – Naptha /HSD /I,DO etc.	48.5 MT/hr.	--	48.5 MT/hr.
2	Gaseous Fuel - Lean Gas, Residue Gas, Ethane, NG etc.	55 MT/hr.	--	55 MT/hr.
3	Gaseous Fuel - Lean Gas or Residue Gas, Ethane, NG etc.	21 MT/hr.	0.04 MT/hr.	21.04 MT/hr.
4	Coal	300 MT/hr.	--	300 MT/hr.
5	Biomass in available form for Coal based Captive Co- generation plant (CCPP)	60 MT/hr.	--	60 MT/hr.

Note: Lime Stone shall be used in lime injector in Coal Based Captive Co-generation
Power Plant for S02 emission control and Bed Material shall be used for temperature control.

Average quantity of fuel used during the reporting period Apr'24 – Sept'24 is presented below.

Sr. No.	Fuel	Avg Quantity
1	Liquid Fuel - Naptha/HSD/LDO etc.	0.00 MT/hr
2	Gaseous Fuel -Lean Gas, Residue Gas, Ethane, NG etc.	6.34 MT/hr
3	Gaseous Fuel - Lean Gas or Residue Gas , Ethane, NG etc.	20.01 MT/hr
4	Coal	140.58 MT/hr
5	Biomass in available form for Coal Based Captive Co-generation Plant (CCPP)	21.64 MT/hr

Complied.

3.2

The condition no. 4.4 for process Gas stacks and process Gas Emission under the Air Act of CCA order no: AWH-111189 issued vide letter no. GPCB/ BRCH-B/ CCA-717(18)/ ID-15565/582554 dated 02/02/2021 is amendment and shall now be read as under:

Existing details of process gas stacks and process gas emission as mentioned in CCA order no: AWH-111189 shall remain unchanged.

Additional Process Stack:

Stack	Stack attached to limit	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible Limit
14	Incinerator (VCM Plant)	65	DM Water & Caustic Scrubber (HCl Scrubber), Low N0x burner	PM S02 NOx CO C12 HC HCl VCM	150 mg/Nm3 40 mg/Nm3 25 mg/Nm3 150 mg/Nm3 10 mg/Nm3 15 mg/Nm3 30 mg/Nm3 6.6 mg/Nm3

The process emission through various stacks and vents of rectors, process, and vessel are regularly monitored though MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai.

A summary of the gaseous emissions from various process stacks for the period Apr'24 – Sept'24 is presented below.

Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
VCM - Stack attached to Incinerator	PM (mg/Nm^3)	150	3.97	2.64	5.42
	SO_2 (mg/Nm^3)	40	6.95	5.38	9.14
	NOx (mg/Nm^3)	25	19.26	15.63	22.78
	Cl_2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.72	2.34	4.76
	HC (mg/Nm^3)	15	1.30	1.21	1.42
	CO (mg/Nm^3)	150	3.44	2.48	4.38
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
VCM Plant – Stack attached to Vent Scrubber	Cl2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.17	2.51	4.65
	HC (mg/Nm^3)	15	< 0.2	< 0.2	< 0.2
Chlor Alkali Plant - Stacks Attached to Hypo and HCl synthesis Unit	Cl_2 (mg/Nm^3)	9	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	20	3.36	2.25	4.89
PVC Plant- Stacks attached to PVC Dryers	PM (mg/Nm^3)	150	5.02	3.32	5.72
	SO_2 (ppm)	100	8.65	7.16	10.36
	NOx (ppm)	50	24.75	21.52	27.65
	CO (mg/Nm^3)	150	2.84	2.18	3.64
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
PTA Plant - Stacks attached to Off gas scrubber, atmospheric scrubber and vent scrubber	PM (mg/Nm^3)	150	5.06	3.64	6.88
	SO_2 (mg/Nm^3)	40	<5	<5	<5
	NOx (mg/Nm^3)	25	<4	<4	<4

<table>
<tr>
<td>3.3</td>
<td>The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder:

<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Parameters</th><th colspan="2">Permissible Limit (microgram/M3)</th></tr>
<tr><th>Annual</th><th>24 Hours Average</th></tr>
<tr><td>1.</td><td>Particulate Matter (PM10)</td><td>60</td><td>100</td></tr>
<tr><td>2.</td><td>Particulate Matter (PM2.5)</td><td>40</td><td>60</td></tr>
<tr><td>3</td><td>Oxides of Sulphur (Sox)</td><td>50</td><td>80</td></tr>
<tr><td>4.</td><td>Oxides of Nitrogen (NOx)</td><td>40</td><td>80</td></tr>
</table>

• Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
• 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.</td>
<td>The concentration of the parameters in the ambient air within the premises does not exceed the limits specified in CCA.

The site has established 7 ambient air quality monitoring stations within and outside of the petrochemical complex based on the mathematical modelling studies carried out considering wind directions and the maximum Ground Level Concentration in downwind direction.

Ambient Air Quality (AAQ) is being monitored twice in a week at each location through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. The report of monitoring has been submitted every month to GPCB and six monthly to Regional Office of MoEF&CC.

A summary of the ambient air monitoring results is presented below.

<table>
<tr><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>PM_{10}</td><td>100 µg/m^3</td><td>56.55</td><td>31.00</td><td>76.00</td></tr>
<tr><td>$PM_{2.5}$</td><td>60 µg/m^3</td><td>20.40</td><td>8.00</td><td>37.00</td></tr>
<tr><td>SO_2</td><td>80 µg/m^3</td><td>19.74</td><td>10.40</td><td>29.60</td></tr>
<tr><td>NOx</td><td>80 µg/m^3</td><td>26.31</td><td>15.40</td><td>36.80</td></tr>
</table>

It can be seen from the above table that all results are conforming to the standards prescribed by GPCB.

Complied.</td>
</tr>
<tr>
<td>3.4</td>
<td>Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified in condition as above.</td>
<td>All plants and Air Pollution Control Equipment (APCEs) are being operated very efficiently and continuously for controlling the gaseous emissions and to achieve the GPCB prescribed standards.

A summary of the flue gas emissions and Process emissions for the period Apr’24 – Sept’24 is given in Condition no 4.3 and 4.4. Monitoring results indicate that the emissions from the stacks are conforming to the GPCB prescribed standards.

Also please refer to the summary of AAQ monitoring results given in Condition no 4.5, which indicates that the ambient air quality is also conforms to the GPCB standards of AAQ.

By operating all the plants and APCEs effectively and continuously, we are able to control the gaseous emissions and hence ambient air quality well within the standards prescribed by GPCB.

Complied.</td>
</tr>
<tr>
<td>4</td>
<td>All other conditions of the CCA order no: AWH-111189 issued vide letter no. GPCB/BRCH-B/CCA-717(18)/ID-15565/582554 dated 02/02/2021 shall remain unchanged.</td>
<td></td>
</tr>
<tr>
<td>II.</td>
<td colspan="2">Consent Order No : AWH-111189, date of Issue 16/01/2021</td>
</tr>
</table>

<table>
<tr><td>2.</td><td>The consent under Water Act –1974 shall be valid up to 03/11/2026 for the use of outlet for the discharge of treated effluent & The consent under Air Act – 1981 and Authorization under Environment (Protection) Act, 1986 to operate industrial plant for manufacture of the products mentioned in consent condition.</td><td>Products are being manufactured as per details mentioned in the conditions.

Complied.</td></tr>
<tr><td colspan="3">SPECIFIC CONDITIONS</td></tr>
<tr><td>a)</td><td>Unit shall comply with all the conditions stipulated by SEIAA / MoEF in the order of Environment Clearance issued vide letter no. F.No.J-11011/39/2016-IA-II(I), dated 03/04/2017.</td><td>All the conditions stipulated by SEIAA / MoEF in the order of Environment Clearance issued vide letter no. F.No.J-11011/39/2016-IA-II(I), dated 03/04/2017 are complied with.

Complied.</td></tr>
<tr><td>b)</td><td>All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.</td><td>Complied.</td></tr>
<tr><td>c)</td><td>Unit shall follow coal handling guideline framed by Board and provide close ash handling system.</td><td>Fully covered dedicated coal storage and handling shed is provided and coal handling guidelines framed by the board are complied with.

Close ash handling system is also provided.

Complied.</td></tr>
<tr><td>d)</td><td>Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.</td><td>Continuous Emission Monitoring Systems (CEMS) is installed and linked with the server of GPCB for real time data transfer.

Complied.</td></tr>
<tr><td>3.</td><td colspan="2">CONDITION UNDER THE WATER ACT</td></tr>
<tr><td>3.1</td><td>The quantity of total fresh water consumption shall not exceed 1,38,000 KL/day.</td><td>Average fresh water requirement for the period Apr’24 – Sept’24 was 87,716 KLD which is not exceeding the permissible limit of 1,38,000 KLD.

The summary of fresh water consumption during reporting period of Apr’24 – Sept’24 is presented as below:

<table>
<tr><th colspan="4">Fresh Water Consumption (KL/day)</th></tr>
<tr><th>Prescribed Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>1,38,000</td><td>87716</td><td>80477</td><td>91849</td></tr>
</table>

Complied.</td></tr>
<tr><td>3.2</td><td>The quantity of total waste water generation shall not exceed 50,802 KL/day.</td><td>Average waste water generation during reporting period of Apr’24 – Sept’24 was 38,826 KL/day which is well within the permissible limit of 50,802 KL/day.

Data for effluent generation quantity for the Apr’24 – Sept’24 is presented below which is also being submitted to GPCB on monthly basis.

<table>
<tr><th colspan="4">Effluent Generation (KL/day)</th></tr>
<tr><th>Permissible Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>50,802</td><td>38826</td><td>36898</td><td>41099</td></tr>
</table>

Complied.</td></tr>
</table>

<table>
<tr><td>3.3</td><td>Out of 50802 KL/day of treated effluent, 14510 KL/day shall be reused/ recycled in cooling tower, green belt development/ horticulture etc. whereas rest of 36292 KL/day shall be discharge into the deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser. Cooling tower blow down shall be discharged into the sea through the existing effluent disposal pipeline equipped with multiport diffuser at Gulf of Khambhat.</td><td>Average effluent recycle quantity from the complex is around 19,111 KL/day. In the review period Apr’24 – Sept’24, out of the 38,826 KL/day of effluent generated from complex, 19,715 KL/day of treated effluent was discharged into the deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser.

The summary for the effluent data for the reporting period Apr’24 – Sept’24 is given as below:
<table>
<tr><th>Aspect</th><th>Permissible Limit (KL/day)</th><th>Avg. Quantity (KL/day)</th></tr>
<tr><td>Effluent Generation</td><td>50,802</td><td>38,826</td></tr>
<tr><td>Effluent Discharge</td><td>36,292</td><td>19,715</td></tr>
<tr><td>Effluent Recycle</td><td>14,510</td><td>19,111</td></tr>
<tr><td>Percentage of Effluent Recycling</td><td>30 %</td><td>49%</td></tr>
</table>
It can be seen from the above data table that the treated Effluent recycling is done to maximum extent possible.

Complied.</td></tr>
<tr><td>3.4</td><td colspan="2">TRADE EFFLUENT</td></tr>
<tr><td>3.4.1</td><td>The quality of treated effluent shall conform to the Consent standards prior to disposal into deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser.</td><td>Treated effluent is being monitored on monthly basis through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the quality of effluent is maintained well within the norm prescribed by the GPCB. The treated effluent is discharged after conforming to the GPCB standards through existing effluent disposal pipeline equipped with multiport diffuser.

A summary of major effluent monitoring parameters results for the period Apr’24 – Sept’24 is presented below.
<table>
<tr><th>Parameter</th><th>Unit</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>pH</td><td>–</td><td>5.5-9.0</td><td>7.98</td><td>7.81</td><td>8.30</td></tr>
<tr><td>Colour and odour</td><td>–</td><td>All efforts shall be made to remove colour and unpleasant odour as far as practicable.</td><td colspan="3">Colourless and Odourless</td></tr>
<tr><td>Suspended Solids</td><td>mg/l</td><td>100</td><td>26.33</td><td>23.00</td><td>29.00</td></tr>
<tr><td>Temperature</td><td>o C</td><td>Shall not exceed 5°C above the receiving water temperature</td><td>28.30</td><td>26.10</td><td>30.50</td></tr>
<tr><td>Oil & Grease</td><td>mg/l</td><td>20</td><td>1.63</td><td>1.40</td><td>1.80</td></tr>
</table></td></tr>
</table>

		Total Residual Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1
		Ammonical Nitrogen (as N)	mg/l	50	14.77	12.50	17.10
		Total Kjeldahl Nitrogen(as NH3)	mg/l	100	30.07	25.30	33.40
		Free Ammonia (as NH3)	mg/l	5	2.78	1.70	3.50
		Biochemical Oxygen Demand	mg/l	100	45.93	41.50	51.60
		Chemical Oxygen Demand	mg/l	250	171.02	138.80	196.00
		Arsenic (as AS)	mg/l	0.2	< 0.01	< 0.01	< 0.01
		Mercury (as Hg)	mg/l	0.01	< 0.005	< 0.005	< 0.005
		Lead (as Pb)	mg/l	2	< 0.05	< 0.05	< 0.05
		Cadmium (as Cd	mg/l	2	< 0.03	< 0.03	< 0.03
		Hexavalent Chromium (as Cr+6)	mg/l	1	< 0.05	< 0.05	< 0.05
		Total Chromium (as Cr)	mg/l	2	< 0.01	< 0.01	< 0.01
		Copper (as Cu)	mg/l	3	< 0.04	< 0.04	< 0.04
		Zinc (as Zn)	mg/l	15	1.52	1.20	1.90
		Selenium (as Se)	mg/l	0.05	< 0.05	< 0.05	< 0.05
		Nickel (as Ni)	mg/l	5	< 0.01	< 0.01	< 0.01
		Cyanide (as CN)	mg/l	0.2	< 0.03	< 0.03	< 0.03
		Fluorides (as F)	mg/l	15	0.38	0.26	0.56
		Sulphides	mg/l	5	0.17	0.14	0.21
		Phenolic compounds (as C6H5OH)	mg/l	5	< 0.001	< 0.001	< 0.001
		Manganese (as Mn)	mg/l	2	< 0.1	< 0.1	< 0.1
		Iron (as Fe)	mg/l	3	1.55	1.40	1.80
		Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004
		Nitrate Nitrogen	mg/l	20	12.50	9.00	16.00
		Bioassay Test	-	90% survival of fish after 96 hours in 100% effluent	>90% survival of fish after 96 hours in 100% effluent		
				From above results, it can be seen that the ETP is operating regularly and efficiently and all the results are complying with the GPCB norms. Complied.			
3.4.2	The effluent conforming to the above standards shall be disposed off through existing pipeline equipped with diffuser system up to point D2 (Lat. 21.39'N - Long. 72.31'E) in to the deep sea (Gulf of Khambhat) as recommended by NIO.	The effluent is being disposed off through existing pipeline equipped with diffuser system up to point D2 (Lat. 21.39'N - Long. 72.31'E) in to the deep sea (Gulf of Khambhat) as recommended by NIO. The treated effluent quality conforms to the standard prescribed by GPCB. The summary of treated effluent quality is given in condition 3.4.1 above. Complied.					
3.4.3	The domestic effluent from the complex shall be treated in the Biological section of the ETP.	The domestic effluent from the complex is treated in the Biological section of the ETP.					

<table>
<tr><td></td><td></td><td>Complied.</td></tr>
<tr><td>3.4.4</td><td>All the effluent treatment units shall be operated and maintained efficiently so that the treated effluent always conforms to the specifications referred in condition no.3.4.1.</td><td>All the effluent treatment units are operated and maintained efficiently. The wastewater generated at the plant is treated in well-designed Effluent Treatment Plant consisting of Primary, Secondary and Tertiary treatment units and it is conforming to the specifications referred in condition 3.4.1.

Complied.</td></tr>
<tr><td>3.4.5</td><td>A guard pond having adequate retention capacity shall be operated before discharging the effluent from the treatment plant.</td><td>A guard pond having adequate retention capacity is provided and operated before discharging the effluent.

Complied.</td></tr>
<tr><td>4</td><td colspan="2">CONDITIONS UNDER THE AIR ACT</td></tr>
<tr><td>4.1</td><td>The following shall be used as fuel.

<table><tr><th>Sr. No.</th><th>Fuel</th><th>Quantity</th></tr><tr><td>1</td><td>Liquid Fuel - Naptha/HSD/LDO etc.</td><td>48.5 MT/Hr.</td></tr><tr><td>2</td><td>Gaseous Fuel -Lean Gas, Residue Gas, Ethane, NG etc.</td><td>55 MT/Hr.</td></tr><tr><td>3</td><td>Gaseous Fuel - Lean Gas or Residue Gas , Ethane, NG etc.</td><td>21 MT/Hr.</td></tr><tr><td>4</td><td>Coal</td><td>300 MT/Hr.</td></tr><tr><td>5</td><td>Biomass in available form for Coal Based Captive Co-generation Plant (CCPP)</td><td>60 MT/Hr.</td></tr><tr><td>6</td><td>Lime Stone*</td><td>--</td></tr><tr><td>7</td><td>Bed Material*</td><td>--</td></tr></table>* Lime stone and Bed Material are not fuel. Limestone is used in Coal based Captive Co-generation Power Plant as lime injection for SO_2 emission control and Bed Material is used for temperature control.</td><td>Average quantity of fuel used during the reporting period Apr’24 – Sept’24 is presented below.

<table><tr><th></th><th>Fuel</th><th>Avg Quantity</th></tr><tr><td>1</td><td>Liquid Fuel - Naptha/HSD/LDO etc.</td><td>0.00 MT/hr</td></tr><tr><td>2</td><td>Gaseous Fuel -Lean Gas, Residue Gas, Ethane, NG etc.</td><td>6.34 MT/hr</td></tr><tr><td>3</td><td>Gaseous Fuel - Lean Gas or Residue Gas , Ethane, NG etc.</td><td>20.01 MT/hr</td></tr><tr><td>4</td><td>Coal</td><td>140.58 MT/hr</td></tr><tr><td>5</td><td>Biomass in available form for Coal Based Captive Co-generation Plant (CCPP)</td><td>21.64 MT/hr</td></tr><tr><td>6</td><td>Lime Stone*</td><td>162.80 MT/Day</td></tr><tr><td>7</td><td>Bed Material*</td><td>35.13 MT/Day</td></tr></table>Complied.</td></tr>
<tr><td>4.2</td><td>The applicant shall install & operate comprehensive adequate air pollution in order to achieve prescribed norms control system so as to achieve standards.</td><td>Adequate Air Pollution Control Equipment (APCEs) for controlling the process emissions have been provided in the stacks and APCEs are being operated regularly to achieve the prescribed standards by GPCB.

A summary of the flue gas emissions and Process emissions for the period Apr’24 – Sept’24 is presented below in Condition no 4.3 and 4.4.

Monitoring results indicate that the emissions from the stacks are conforming to the prescribed standards by operating APCEs efficiently and effectively.

Complied.</td></tr>
<tr><td>4.3</td><td>The flue gas emission through stack attached to boiler / furnace / heater shall conform to the standards as given in CCA:</td><td>Flue gas emissions though the stacks attached to boiler / furnace / heater are regularly monitored though MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai.

A summary of the flue gaseous emissions for the period Apr’24 – Sept’24 is presented as below.

<table><tr><th>Plant</th><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr><tr><td>GCU Plant -</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.05</td><td>2.40</td><td>5.63</td></tr></table></td></tr>
</table>

		Stack attached Furnaces	SO_2 (mg/Nm^3)	50	6.03	4.24	8.25
			NOx (mg/Nm^3)	350	62.84	51.25	69.34
		VCM Plant - Stack attached to EDC Furnaces	PM (mg/Nm^3)	10	4.41	3.36	5.25
			SO_2 (mg/Nm^3)	50	8.14	6.72	9.41
			NOx (mg/Nm^3)	350	64.75	51.85	74.90
		CPP Plant - Stack Attached to Boilers/HR SGs/STGs	PM (mg/Nm^3)	10	5.18	3.12	6.42
			SO_2 (mg/Nm^3)	50	9.47	7.62	11.36
			NOx (mg/Nm^3)	350	61.88	37.56	72.25
		PET-3 Plant - Stacks attached to Heaters	PM (mg/Nm^3)	10	4.22	3.10	5.87
			SO_2 (mg/Nm^3)	50	8.51	6.81	9.63
			NOx (mg/Nm^3)	350	62.87	45.15	69.65
		CCPP - Stacks attached to Boilers	PM (mg/Nm^3)	50	18.67	15.45	22.15
			SO_2 (mg/Nm^3)	600	270.30	241.65	283.46
			NOx (mg/Nm^3)	300	77.51	71.59	87.78

("– ": Plant was not in operation / under Shutdown)

It can be seen from the above table that all results are conforming to the standards prescribed by GPCB.

Complied.

4.4 The process emission through various stacks / vent of reactors, process vessel shall conform to the standards as per CCA:

The process emission through various stacks and vents of rectors, process, and vessel are regularly monitored though MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai.

A summary of the gaseous emissions from various process stacks for the period Apr'24 – Sept'24 is presented below.

Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
VCM - Stack attached to Incinerator	PM (mg/Nm^3)	150	3.97	2.64	5.42
	SO_2 (mg/Nm^3)	40	6.95	5.38	9.14
	NOx (mg/Nm^3)	25	19.26	15.63	22.78
	Cl_2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.72	2.34	4.76
	HC (mg/Nm^3)	15	1.30	1.21	1.42
	CO (mg/Nm^3)	150	3.44	2.48	4.38
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
VCM Plant – Stack attached to Vent Scrubber	Cl2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.17	2.51	4.65
	HC (mg/Nm^3)	15	< 0.2	< 0.2	< 0.2

		Chlor Alkali Plant - Stacks Attached to Hypo and HCl synthesis Unit	Cl_2 (mg/Nm^3)	9	<1.0	<1.0	<1.0
			HCl (mg/Nm^3)	20	3.36	2.25	4.89
		PVC Plant- Stacks attached to PVC Dryers	PM (mg/Nm^3)	150	5.02	3.32	5.72
			SO_2 (ppm)	100	8.65	7.16	10.36
			NOx (ppm)	50	24.75	21.52	27.65
			CO (mg/Nm^3)	150	2.84	2.18	3.64
			VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
		PTA Plant - Stacks attached to Off gas scrubber, atmospheric scrubber and vent scrubber	PM (mg/Nm^3)	150	5.06	3.64	6.88
			SO_2 (mg/Nm^3)	40	<5	<5	<5
			NOx (mg/Nm^3)	25	<4	<4	<4
		It can be seen from the above table that all results are conforming to the standards prescribed by GPCB. Complied.					
4.5	The concentration of the parameters in the ambient air within the premises of the industry shall not exceed the limits specified in CCA.	The concentration of the parameters in the ambient air within the premises does not exceed the limits specified in CCA. The site has established 7 ambient air quality monitoring stations within and outside of the petrochemical complex based on the mathematical modelling studies carried out considering wind directions and the maximum Ground Level Concentration in downwind direction. Ambient Air Quality (AAQ) is being monitored twice in a week at each location through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. The report of monitoring has been submitted every month to GPCB and six monthly to Regional Office of MoEF&CC. A summary of the ambient air monitoring results is presented below.					

Parameter	GPCB Consent Limit	Avg	Min	Max
PM_{10}	100 µg/m^3	56.55	31.00	76.00
$PM_{2.5}$	60 µg/m^3	20.40	8.00	37.00
SO_2	80 µg/m^3	19.74	10.40	29.60
NOx	80 µg/m^3	26.31	15.40	36.80
O_3	180 µg/m^3	7.69	3.70	12.60
NH_3	400 µg/m^3	15.76	7.20	34.80
CO	4 mg/m^3	1.41	1.12	1.82
Benzene	5 µg/m^3	< 1.0	< 1.0	< 1.0
Pb	1 µg/m^3	< 0.1	< 0.1	< 0.1

		As	6 ng/m^3	< 1.0	< 1.0	< 1.0
		Ni	20 ng/m^3	4.30	< 0.1	7.30
		BAP	1 ng/m^3	< 0.5	< 0.5	< 0.5
		It can be seen from the above table that all results are conforming to the standards prescribed by GPCB. Complied.				
4.6	The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified in Condition no. 4.3 and 4.4. & 4.5 as Above.	All plants and Air Pollution Control Equipment (APCEs) are being operated very efficiently and continuously for controlling the gaseous emissions and to achieve the GPCB prescribed standards. A summary of the flue gas emissions and Process emissions for the period Apr'24 – Sept'24 is given in Condition no 4.3 and 4.4. Monitoring results indicate that the emissions from the stacks are conforming to the GPCB prescribed standards. Also please refer to the summary of AAQ monitoring results given in Condition no 4.5, which indicates that the ambient air quality is also conforms to the GPCB standards of AAQ. By operating all the plants and APCEs effectively and continuously, we are able to control the gaseous emissions and hence ambient air quality well within the standards prescribed by GPCB. Complied.				
4.7	The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified in the condition no.4.3 and 4.4. & 4.5 as Above.	This condition is noted. All the parameters of the gaseous emissions are maintained well within the tolerance limit specified in the condition no 4.3, 4.4 and 4.5 above. The details of monitoring results are given in the above conditions which indicates that all the parameters of gaseous emissions are well within the tolerance limit specified by GPCB during reporting period of Apr'24 – Sept'24. Complied.				
4.8	The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air Emissions and the same shall be open for inspection to/and for use of Board's staff. The Chimney vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.	All the chimneys in the complex are provided with portholes, ladders, platform etc. for monitoring the air emissions. The is accessible for inspection to/and for use of Board's staff. The Chimney vents attached to various sources of emission are identified and the identification has been also painted on each flue connected to chimneys. Complied.				
4.9	The Industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(a) during day time and70 dB(A)during night time. Daytime is reckoned in between 6a.m. and10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.	Adequate measures are in place for control of noise levels from all the sources within the premises. Acoustic hoods, silencers, enclosures etc has been provided for all sources of high noise generation which ensures the control of workplace noise level generation and hence ambient noise levels conforms to the standards prescribed under EPA Rules, 1986 that is 75 dB(A) during day time and 70 dB(A) during night time. The summary of the ambient noise levels for the reporting period Apr'24 – Sept'24 is presented below.				

Monitoring Location	Day Time Limit – 75 dB(A)			Night Time Limit – 70 dB(A)		
	Avg	Min	Max	Avg	Min	Max
Nr. Ethane Tank	57.7	56.3	58.8	51.4	50.7	52.2
Site Guest House	56.1	55.2	57.3	51.1	50.1	52.1
Nr. CCPP	55.3	53.7	56.4	49.4	47.3	51.2
Nr. PTA	57.9	57.2	58.6	53.6	52.2	54.8
Nr. ETP Guard Pond	56.4	55.3	57.5	50.8	50.2	51.4
RDMT Jetty	60.8	59.2	61.4	55.2	54.8	56.1
Jageshwar village	57.6	56.1	59.6	51.0	49.9	52.2

The above results indicate that the ambient noise levels are maintained well within the prescribed standards.

Complied.

5 AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6 (2))

5.1 Number of Authorization: AWH-111189 Date of issue: 16/01/2021

M/s. RELIANCE INDUSTRIES LIMITED is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Dahej Manufacturing Division, At & Post: Dahej, Taluka: Vagra, Dist: Bharuch.

Sr. No.	Type of Waste	Category No.	Quantity (MT/Yr)
1	Spent catalyst from various units and molecular sieves/Alumina desiccant	1.6 / I	411.75
2	Oil from wastewater treatment	1.7 / I	1060
3	Chemical Sludge from Waste water treatment	35.3 / I	3200
4	ETP Sludge containing polymeric constituents	35.3 / I	300
5	Used or Spent oil	5.1 / I	225
6	Wastes or residues containing oil*	5.2 / I	So ever generated (600)
7	Process residues (Residue from Vinyl Chloride Monomer VCM production)	22.2 / I	20750
8	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Discarded Containers)	33.1 / I	450
9	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Bags / Liners)	33.1 / I	11
10	Sludge and filters contaminated with oil	3.3 / I	So ever generated

Hazardous wastes generated at site is managed in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and its amendments and the authorisation obtained from GPCB.

Existing authorization (AWH-111189) is valid upto 03/11/2026 and RIL-DMD is disposing hazardous waste as per method prescribed in the authorization.

Hazardous wastes collected, stored and disposed during Apr'24 – Sept'24 is given below:

Sr. No.	Type of Waste	Category No.	Quantity Disposed
1	Spent catalyst from various units and molecular sieves/Alumina desiccant	1.6 / I	30.63
2	Oil from wastewater treatment	1.7 / I	0.00
3	Chemical Sludge from Waste water treatment	35.3 / I	581.96
4	ETP Sludge containing polymeric constituents	35.3 / I	25.63
5	Used or Spent oil	5.1 / I	67.03
6	Wastes or residues containing oil*	5.2 / I	57.16
7	Process residues (Residue from Vinyl Chloride Monomer VCM production)	22.2 / I	3451.53
8	Empty barrels / containers / liners contaminated with hazardous chemicals/ wastes (Discarded Containers)	33.1 / I	65.19
9	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Bags / Liners)	33.1 / I	0.00
10	Sludge and filters contaminated with oil	3.3 / I	0.00
11	Spent Carbon	36.2 / I	0.00
12	Spent ion exchange resin	35.2 / I	29.70

			(500)
11	Spent Carbon	36.2 / I	So ever generated (500)
12	Spent ion exchange resin	35.2 / I	So ever generated (500)
13	Spent Solvent (Degraded Dowtherm)	20.2 / I	216
14	Cargo / Tank Residue, Washing Water and Sludge containing Oil	3.1 / I	100
15	Cargo / Tank Residue and Sludge containing Chemical	3.2 / I	100
16	Bilge Water Containing Oil from Ships	3.4 / I	100
Other (Non-Hazardous) Waste			
17	Brine Sludge	--	15000
18	Polymer Lumps / Sweep Powder	--	4800
19	Bio sludge from ETP	--	18250

Note:
Mode of disposal of hazardous wastes is as per CCA.

Waste or residues containing oil* contains contaminated cotton rags, oil soaked coke, SCO reactor waste, bottom sludge from pits & tanks, waste grease, contaminated filters, oily soil, oily tarpaulin, oily wooden pieces, oily mud from effluent channels, oily sludge generated from waste water treatment plant, etc.

13	Spent Solvent (Degraded Dowtherm)	20.2 / I	0.00
14	Cargo / Tank Residue, Washing Water and Sludge containing Oil	3.1 / I	0.00
15	Cargo / Tank Residue and Sludge containing Chemical	3.2 / I	0.00
16	Bilge Water Containing Oil from Ships	3.4 / I	0.00
Other (Non-Hazardous) Waste			
17	Brine Sludge	--	1846.18
18	Polymer Lumps / Sweep Powder	--	466.24
19	Bio sludge from ETP	--	2985.4

Complied.

5.2	The authorization is granted to operate facility for collection, storage, within the factory premises, transportation and ultimate disposal of Hazardous wastes at common TSDF and own SLF developed by the unit at a location mentioned in the notification no. GPCB/Haz/Gen-55/7/2/08 dated 05.04.1999 and Inhouse Incinerator, common incineration facility & Co-processing.	Hazardous wastes generated are collected, stored and disposed based on the methods prescribed under the authorisation issued to us. All the hazardous wastes generated at site is managed in accordance with the Hazardous Waste Rules, 2016 and its amendments thereof. Complied.
5.3	The authorization shall be in force for a period up to 16/01/2021.	Validity period of authorisation is noted.
5.4	The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.	This condition is noted.
5.5	**TERMS AND CONDITIONS OF AUTHORISATION**	
5.5.1	The authorization shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.	The authorization is produced for inspection at the request of any officer authorized by the Gujarat Pollution Control Board. Complied.
5.5.2	The persons authorized shall not rent, lend, sell, and transfer of otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.	All the hazardous wastes generated from the complex are covered under the Authorization obtained for the Management and Handling of Hazardous Wastes. Only wastes mentioned in the authorisation are being handled at the complex.

		And It is noted that any hazardous waste shall not be rented, lend, sold and transferred without obtaining prior permission of the GPCB. Complied.
5.5.3	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.	No unauthorized change made in personnel, equipment or working condition as mentioned in the authorization order. Every expansion and modernisation of the RIL-DMD complex has been carried out only after obtaining the required authorization from GPCB. This condition is noted.
5.5.4	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.	Prior permission will be taken from Gujarat Pollution Control Board whenever facility will be closed down. This condition is noted.
5.5.5	An application for the renewal of an authorization shall be made as laid down in rule 6 (2) under Hazardous and other waste (Management & Transboundary) Rules, 2016.	An application for the renewal of an authorization shall be made as per rule 6(2) to obtain the required authorization.
6	**GENERAL CONDITIONS**	
6.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	Every expansion and modernisation of the RIL-DMD complex has been carried out only after obtaining the required authorization from GPCB / statutory agency and intimated to Board. Complied.
6.2	Applicant shall also comply with the general conditions given in annexure.	General conditions given in condition no 6 are being complied.
6.3	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No.657 of 1995 dated 14th October 2003.	The relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No.657 of 1995 dated 14th October 2003 is displayed at the Entry of main gate of complex. Complied.
6.4	Industry shall have to display data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous waste generated within the factory premises.	RIL-DMD is having an online display board at the main factory gate which displays the data with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water, air emissions and solid hazardous waste generated within the factory premises. Complied.
6.5	The arrangement shall be made in each plant for drainage in such a way that all the quantity of effluent shall be taken to the central effluent treatment plant and no untreated waste water from any plant shall be discharged within the premises.	Drainage from all plants are routed to the plant level Effluent Pits and then it is pumped to Central Effluent Treatment plant and no untreated waste water from any plant is discharged within the premises. Complied.
6.6	There shall be continuous flow recording devices at the outlet of the effluent treatment plant.	Flow meters have been provided at the outlet of ETP and records are maintained. Complied.
6.7	RIL-DMD shall create and monitor test wells within its premises. The quality of the test well water shall be regularly checked every month and the data shall be submitted to GPCB.	Ground water quality is being monitored near the solid waste disposal site as well as around the plant using 8 bore wells. The summary of Ground water monitoring results of Bore Well-1 for the period Apr'24 – Sept'24 is presented as below.

Parameter	UNIT	Avg	Min	Max
pH	--	7.65	7.24	7.90
Conductivity	µS/cm	1502.50	1412.00	1657.00
TDS	mg/l	1000.50	947.00	1083.00
Turbidity	NTU	6.38	4.50	8.60
P-alkalinity (as CaCO3)	mg/l	51.20	42.50	64.80
M-Alkalinity (as CaCO3)	mg/l	83.38	72.20	91.40
Total Suspended Solids	mg/l	17.83	7.00	29.00
Total Hardness (as CaCO3)	mg/l	290.87	194.20	371.50
Ca-hardness as CaCO3	mg/l	177.98	129.40	223.20
Mg hardness (as CaCO3)	mg/l	112.88	64.80	148.30
Chloride (as Cl)	mg/l	275.48	246.30	287.50
Sulphates (as SO4)	mg/l	106.95	81.30	141.40
Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1
Iron (as Fe)	mg/l	4.67	1.70	7.20
Chemical Oxygen Demand	mg/l	11.25	10.00	12.00
"Biochemical Oxygen Demand (3 day at 27°C)"	mg/l	< 1.0	< 1.0	< 1.0
Carbonate (CO3)	mg/l	36.60	29.70	45.20
Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0
Nitrate (NO3)	mg/l	1.33	1.10	1.50
Fluorides (as F)	mg/l	0.57	0.43	0.72
Bicarbonate (HCO3)	mg/l	88.98	76.30	97.10
Sodium (Na)	mg/l	120.98	96.20	171.20
Potassium (K)	mg/l	8.75	6.10	10.60
Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2
Phenol	mg/l	< 0.001	< 0.001	< 0.001

(ND: Not Detectable)

Monitoring reports are submitted to GPCB on monthly basis and to MoEF&CC on six monthly bases.

Complied.

6.8	RIL-DMD shall periodically carry out coastal monitoring of surrounding sea water, for its physico-chemical and biological parameters for study the effect on marine life. This shall be done in consultation with GPCB and NIO.	Complied.
6.9	RIL-DMD shall observe safety of all the plants, processes and vessels as per the International norms practiced in advance Countries.	RIL-DMD is regularly observing safety of all the plants, processes and vessels as per the safety practices and norms followed by international organisations such as DuPont, Shell and British Petroleum. Complied.
6.10	RIL-DMD shall prepare over all disaster plant, risk analysis for probable mishaps due to process and also for the transport, storage, handling of hazardous waste and for hazardous chemicals.	Risk analysis is being done for every activity carried out in the complex and Disaster management plan is prepared and updated by considering all activities in the complex. Every process activities and transport, storage and handling activities of hazardous waste and hazardous chemicals are covered in the Risk Assessment and Disaster management plan. Complied.
6.11	RIL-DMD shall trained and educate surrounding village people about likely hazards from the factory and also inform to the local authorities in this respect.	Awareness session on likely hazards from the factory are conducted for surrounding village people and the same is reported to local authorities as per the Factories Act and Rules.

		Complied.
6.12	RIL-DMD shall comply with all the provisions made under the Hazardous and other waste (Management & Transboundary) Rules, 2016.	RIL-DMD complies with all the provisions made under the Hazardous and other waste (Management & Transboundary) Rules, 2016. Complied.
6.13	For storage of fly ash closed silos of adequate capacity shall be provided. No ash pond shall be constructed in the project.	Closed silos have been provided for fly ash storage. No ash pond shall be constructed in the project. Complied.
6.14	Ash from silos shall be transported through closed tankers for utilization by cement / construction agencies.	Fly ash is transported through closed / covered trucks for utilization by cement / construction agencies. Complied.
6.15	As per "Public Liability Act-91" company shall get Insurance policy, if applicable.	Insurance policy as per "Public Liability Act-91" has been obtained, details as mentioned below: • Name of Insurance company: ICICI Lombard General Insurance. • Policy No. & period: 4007/154722754/06/000, valid from 1st July 2024 to 30th June 2025. Complied.
6.16	The Board reserves the right to review and /or revoke the consent and/ or make variations in the conditions which the Board deems fit at any later date taking into consideration the circumstances, in accordance with Section 27 of the Act.	Noted.
6.17	In case of change of management the name and address of the new Directors shall immediately be intimated to the GPCB.	Any change of management the name and address of the new Directors will be immediately informed to the GPCB.
6.18	The consent granted shall lapse at any time if any parameters or any condition of this consent order are not complied with.	Noted.

GPCB has issued Consolidated Consent and Authorization Amendment (CC & A - Amendment) vide CCA Amendment Order No. W-134596 dated 02/07/2024 with reference to Consolidated Consent and Authorization (CC & A) vide Consent order no. AWH-111189 dated 16/01/2021 to M/s. Reliance Industries Limited, Dahej Manufacturing Division, At & Post: Dahej-392 130, Taluka :Vagra, Dist: Bharuch, under the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under Hazardous and Other Waste (Management & Transboundary) Rules, 2016 framed under E (P) ACT 1986 which is valid upto 03/11/2026.

Sr. No.	CCA Conditions	Compliance Status of CCA Conditions
	Consent Amendment Order No : AWH-134596, date of Issue 02/07/2024	
	SPECIFIC CONDITIONS	
a)	Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.	Noted & Complied.
b)	Unit shall comply EC dated 03/04/2017 and 19/08/2021.	Complied.
c)	Unit shall comply the MSIHC Rules, 1989 and its subsequent amendments.	All the conditions stipulated by MOEF & CC in the order of Environment Clearance (EC) issued vide letter no. F.No. J-11011/39/2016-IA II (1) dated 19.08.2021 are complied with.

		Being Complied.
d)	Unit shall provide and operate OCMS as per CPCB's guidelines/directives.	Noted.

रजिस्ट्री सं० डीएल-33004/99 REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

असाधारण
EXTRAORDINARY
भाग II—खण्ड 3—उप-खण्ड (ii)
PART II—Section 3—Sub-section (ii)
प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 3404] नई दिल्ली, शुक्रवार, अक्तूबर 18, 2019/आश्विन 26, 1941
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पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 17 अक्तूबर, 2019

का.आ. 3744(अ).—केन्द्रीय सरकार, पर्यावरण (संरक्षण) नियम, 1986 के नियम 10 के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 12 की उपधारा (1) के खंड (ख) और धारा 13 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए भारत सरकार के तत्कालीन पर्यावरण और वन मंत्रालय की अधिसूचना संख्यांक का.आ.1174(अ) तारीख 18 जुलाई, 2007 से निम्नलिखित और संशोधन करती है, अर्थात् :—

उक्त अधिसूचना की सारणी में-

(i) क्रम संख्यांक 3, 6, 27, 32, 33, 35, 37, 44, 49, 50, 58, 65, 66, 97, 98, 105, 107, 108, 110 और 112 के स्थान पर निम्नलिखित क्रम संख्यांकों और प्रविष्टियां रखी जाएंगी, अर्थात् :-

(1)	(2)	(3)	(4)
"37	मै. नीटेल (इंडिया) लिमिटेड, डब्ल्यू-408, राबेल एमआईडीसी, टीटीसी इंडस्ट्रियल एरिया, नवीं मुंबई-400701-महाराष्ट्र।	(i) श्रीमती श्रद्धा श्रीराम केरे (ii) सुश्री नीलिमा धोंडूराम दाल्वी (iii) सुश्री सुरेखा नीताराम जामदार	17 अक्तूबर, 2019 से 16 अक्तूबर, 2024"

[फा. सं. क्यू. 15018/21/2017-सीपीडब्ल्यू]

जिगमेट टकपा, संयुक्त सचिव

टिप्पण : मूल अधिसूचना भारत के राजपत्र, असाधारण, का.आ.1174(अ), तारीख 18 जुलाई 2007 द्वारा प्रकाशित की गई थी और अधिसूचना सं.का.आ. 5768(अ), तारीख 15 नवंबर, 2018 द्वारा अंतिम संशोधन किया गया।

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 17th October, 2019

S.O. 3744(E).—In exercise of the powers conferred by clause (b) of sub-section (1) of section 12 and section 13 of the Environment (Protection) Act, 1986 (29 of 1986), read with rule 10 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following further amendments in the notification of the Government of India in the erstwhile Ministry of Environment and Forests, *vide* number S.O. 1174(E), dated the 18th July, 2007, namely: -

in the said notification, in the table, -

(i) for serial numbers 3, 6, 27, 32, 33, 35, 37, 44, 49, 50, 55, 58, 65, 66, 97, 98, 105, 107, 108, 110 and 112 the entries relating thereto, the following serial numbers and entries shall be substituted, namely: -

(1)	(2)	(3)	(4)
"37	M/s Netel (India) Limited. W-408, Rabale MIDC, TTC Industrial Area, Navi Mumabi-400701, Maharashtra	(i) Mrs. Shraddha Sriram Kere (ii) Ms. Neelima Dhonduram Dalvi (iii) Ms. Surekha Sitaram Jamdar	17th October,2019 To 16th October, 2024"

[F. No. 15018/21/2017-CPW]

JIGMET TAKPA, Jt. Secy.

Note : The principal notification was published in the Gazette of India, Extraordinary, *vide* number S.O. 1174(E), dated the 18th July, 2007 and was last amended by notification No. S.O. 5768(E), dated the 15th November, 2018.

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MANOJ KUMAR VERMA

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

NETEL (INDIA) LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

W-408, TTC INDUSTRIAL AREA, MIDC RABALE, NAVI MUMBAI, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-6709

Issue Date: 17/06/2024 **Valid Until:** 16/06/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: NETEL (INDIA) LTD.

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

Annexure III

Stack Emission Monitoring Report

(April 2024 – September 2024)

Flue Gas Emissions through stack attached to Boiler/Furnace/Heater:

Plant >	GCU Furnace								
Source >	H-10			H-11			H-12		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	4.35	5.16	61.74	3.74	4.24	57.42	3.42	5.54	62.15
May-24	4.11	5.74	67.36	4.53	5.51	62.14	3.78	4.32	60.42
Jun-24	3.75	4.62	64.63	4.87	5.28	61.82	5.26	5.1	64.54
Jul-24	2.94	5.65	66.03	4.25	6.34	63.73	3.88	6.78	64.54
Aug-24	3.22	5.15	68.25	4.18	5.38	65.38	4.16	6.1	62.67
Sep-24	2.81	5.46	58.63	3.54	6.18	54.42	2.4	5.74	51.25
Min	**2.81**	**4.62**	**58.63**	**3.54**	**4.24**	**54.42**	**2.40**	**4.32**	**51.25**
Max	**4.35**	**5.74**	**68.25**	**4.87**	**6.34**	**65.38**	**5.26**	**6.78**	**64.54**
Average	**3.53**	**5.30**	**64.44**	**4.19**	**5.49**	**60.82**	**3.82**	**5.60**	**60.93**
Percentile 10	**2.88**	**4.89**	**60.19**	**3.64**	**4.76**	**55.92**	**2.91**	**4.71**	**55.84**
Percentile 25	**3.01**	**5.15**	**62.46**	**3.85**	**5.31**	**58.52**	**3.51**	**5.21**	**60.85**
Percentile 50	**3.49**	**5.31**	**65.33**	**4.22**	**5.45**	**61.98**	**3.83**	**5.64**	**62.41**
Percentile 75	**4.02**	**5.60**	**67.03**	**4.46**	**6.01**	**63.33**	**4.09**	**6.01**	**64.07**
Percentile 98	**4.33**	**5.73**	**68.16**	**4.84**	**6.32**	**65.22**	**5.15**	**6.71**	**64.54**

Plant >	GCU Furnace					
Source >	H-13			H-14		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	4.23	6.42	65.32	3.35	8.25	59.54
May-24	4.43	5.73	63.18	3.96	6.28	65.31
Jun-24	5.63	6.25	68.81	4.32	5.86	62.55
Jul-24	4.67	7.12	69.34	5.46	6.51	63.83
Aug-24	3.95	6.74	66.53	4.18	7.56	65.25
Sep-24	3.68	7.53	57.14	4.42	8.24	61.36
Min	**3.68**	**5.73**	**57.14**	**3.35**	**5.86**	**59.54**
Max	**5.63**	**7.53**	**69.34**	**5.46**	**8.25**	**65.31**

Average	**4.43**	**6.63**	**65.05**	**4.28**	**7.12**	**62.97**
Percentile 10	**3.82**	**5.99**	**60.16**	**3.66**	**6.07**	**60.45**
Percentile 25	**4.02**	**6.29**	**63.72**	**4.02**	**6.34**	**61.66**
Percentile 50	**4.33**	**6.58**	**65.93**	**4.25**	**7.04**	**63.19**
Percentile 75	**4.61**	**7.03**	**68.24**	**4.40**	**8.07**	**64.90**
Percentile 98	**5.53**	**7.49**	**69.29**	**5.36**	**8.25**	**65.30**

Note: '- ' Plant was not in operation / under Shutdown

Plant >	**VCM Plant**								
Source >	**EDC Furnace(H-210)**			**EDC Furnace(H-220)**			**EDC Furnace(H-1220)**		
Parameter >	PM	SO_2	NO_x	PM	SO_2	NO_x	PM	SO_2	NOx
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	3.62	7.18	61.47	4.25	8.32	66.72	3.36	7.39	58.44
May-24	4.28	7.82	65.38	4.74	8.65	68.74	3.81	7.26	72.41
Jun-24	4.75	8.25	66.97	3.87	7.41	63.54	4.28	8.62	74.9
Jul-24	5.25	9.41	69.67	4.62	8.75	64.18	4.38	9.18	72.32
Aug-24	5.04	8.45	64.52	4.48	8.52	67.24	4.23	8.86	65.32
Sep-24	4.54	6.72	54.63	5.1	8.46	57.12	4.78	7.32	51.85
Min	**3.62**	**6.72**	**54.63**	**3.87**	**7.41**	**57.12**	**3.36**	**7.26**	**51.85**
Max	**5.25**	**9.41**	**69.67**	**5.10**	**8.75**	**68.74**	**4.78**	**9.18**	**74.90**
Average	**4.58**	**7.97**	**63.77**	**4.51**	**8.35**	**64.59**	**4.14**	**8.11**	**65.87**
Percentile 10	**3.95**	**6.95**	**58.05**	**4.06**	**7.87**	**60.33**	**3.59**	**7.29**	**55.15**
Percentile 25	**4.35**	**7.34**	**62.23**	**4.31**	**8.36**	**63.70**	**3.92**	**7.34**	**60.16**
Percentile 50	**4.65**	**8.04**	**64.95**	**4.55**	**8.49**	**65.45**	**4.26**	**8.01**	**68.82**
Percentile 75	**4.97**	**8.40**	**66.57**	**4.71**	**8.62**	**67.11**	**4.36**	**8.80**	**72.39**
Percentile 98	**5.23**	**9.31**	**69.40**	**5.06**	**8.74**	**68.59**	**4.74**	**9.15**	**74.65**

Plant >	**CPP-I Plant**			**CPP-II Plant**					
Source >	**Common Stack**			**Stack-1**			**Stack-2**		
Parameter >	PM	SO_2	NO_x	PM	SO_2	NO_x	PM	SO_2	NO_x
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	-	-	-	-	-	-	-	-	-
May-24	-	-	-	-	-	-	-	-	-
Jun-24	-	-	-	-	-	-	-	-	-
Jul-24	-	-	-	-	-	-	-	-	-

Aug-24	-	-	-	-	-	-	-	-	-
Sep-24	3.12	7.62	37.56	-	-	-	-	-	-
Min	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Max	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Average	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Percentile 10	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Percentile 25	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Percentile 50	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Percentile 75	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-
Percentile 98	**3.12**	**7.62**	**37.56**	-	-	-	-	-	-

Note: ' - ' Plant was not in operation / under Shutdown

Plant >	**CPP III Plant**								
Source >	**UTILITY BOILER-3**			**UTILITY BOILER-4**			**HRSG-4**		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	-	-	-	-	-	-	-	-	-
May-24	-	-	-	-	-	-	-	-	-
Jun-24	6.42	10.25	62.56	4.72	8.88	65.61	5.28	11.36	71.42
Jul-24	-	-	-	6.35	9.25	72.25	-	-	-
Aug-24	-	-	-	-	-	-	-	-	-
Sep-24	-	-	-	-	-	-	-	-	-
Min	**6.42**	**10.25**	**62.56**	**4.72**	**8.88**	**65.61**	**5.28**	**11.36**	**71.42**
Max	**6.42**	**10.25**	**62.56**	**6.35**	**9.25**	**72.25**	**5.28**	**11.36**	**71.42**
Average	**6.42**	**10.25**	**62.56**	**5.54**	**9.07**	**68.93**	**5.28**	**11.36**	**71.42**
Percentile 10	**6.42**	**10.25**	**62.56**	**4.88**	**8.92**	**66.27**	**5.28**	**11.36**	**71.42**
Percentile 25	**6.42**	**10.25**	**62.56**	**5.13**	**8.97**	**67.27**	**5.28**	**11.36**	**71.42**
Percentile 50	**6.42**	**10.25**	**62.56**	**5.54**	**9.07**	**68.93**	**5.28**	**11.36**	**71.42**
Percentile 75	**6.42**	**10.25**	**62.56**	**5.94**	**9.16**	**70.59**	**5.28**	**11.36**	**71.42**
Percentile 98	**6.42**	**10.25**	**62.56**	**6.32**	**9.24**	**72.12**	**5.28**	**11.36**	**71.42**

Plant >	**PET-3 Plant**					
Source >	**HTM HEATER-A**			**HTM HEATER-B**		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	3.14	7.85	61.54	-	-	-
May-24	-	-	-	3.14	7.65	61.74

Jun-24	5.62	8.48	65.8	-	-	-
Jul-24	4.25	9.31	69.65	3.85	8.6	64.74
Aug-24	3.92	8.85	65.42	4.25	8.81	67.12
Sep-24	-	-	-	3.36	7.47	52.36
Min	**3.14**	**7.85**	**61.54**	**3.14**	**7.47**	**52.36**
Max	**5.62**	**9.31**	**69.65**	**4.25**	**8.81**	**67.12**
Average	**4.23**	**8.62**	**65.60**	**3.65**	**8.13**	**61.49**
Percentile 10	**3.37**	**8.04**	**62.70**	**3.21**	**7.52**	**55.17**
Percentile 25	**3.73**	**8.32**	**64.45**	**3.31**	**7.61**	**59.40**
Percentile 50	**4.09**	**8.67**	**65.61**	**3.61**	**8.13**	**63.24**
Percentile 75	**4.59**	**8.97**	**66.76**	**3.95**	**8.65**	**65.34**
Percentile 98	**5.54**	**9.28**	**69.42**	**4.23**	**8.80**	**66.98**

Note: ' - ' Plant was not in operation / under Shutdown

Plant >	**PET-3 Plant**					
Source >	**HTM HEATER-C**			**HTM HEATER-D**		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**	**10 mg/Nm^3**	**50 mg/Nm^3**	**350 mg/Nm^3**
Apr-24	3.53	8.72	65.54	5.31	9.63	67.12
May-24	4.25	9.42	67.48	4.96	8.74	64.54
Jun-24	5.87	9.18	68.34	5.25	8.63	63.43
Jul-24	-	-	-	5.61	9.54	63.41
Aug-24	-	-	-	4.1	8.36	61.76
Sep-24	3.1	6.81	45.15	3.74	7.62	56.33
Min	**3.10**	**6.81**	**45.15**	**3.74**	**7.62**	**56.33**
Max	**5.87**	**9.42**	**68.34**	**5.61**	**9.63**	**67.12**
Average	**4.19**	**8.53**	**61.63**	**4.83**	**8.75**	**62.77**
Percentile 10	**3.23**	**7.38**	**51.27**	**3.92**	**7.99**	**59.05**
Percentile 25	**3.42**	**8.24**	**60.44**	**4.32**	**8.43**	**62.17**
Percentile 50	**3.89**	**8.95**	**66.51**	**5.11**	**8.69**	**63.42**
Percentile 75	**4.66**	**9.24**	**67.70**	**5.30**	**9.34**	**64.26**
Percentile 98	**5.77**	**9.41**	**68.29**	**5.58**	**9.62**	**66.86**

Plant >	**CCPP Plant**					
Source >	**BOILER-1**			**BOILER-2**		
Parameter >	PM	SO2	NOx	PM	SO2	NOx
Limit >	**50 mg/Nm^3**	**600 mg/Nm^3**	**300 mg/Nm^3**	**50 mg/Nm^3**	**600 mg/Nm^3**	**300 mg/Nm^3**

Apr-24	-	-	-	18.25	265.21	73.42
May-24	19.36	283.46	82.74	17.44	276.65	77.63
Jun-24	22.15	274.32	87.78	19.72	281.65	74.87
Jul-24	19.74	254.72	78.47	20.36	274.35	76.38
Aug-24	18.82	241.65	78.56	20.15	262.54	72.35
Sep-24	16.25	254.32	73.18	18.41	271.1	77.56
Min	**16.25**	**241.65**	**73.18**	**17.44**	**262.54**	**72.35**
Max	**22.15**	**283.46**	**87.78**	**20.36**	**281.65**	**77.63**
Average	**19.26**	**261.69**	**80.15**	**19.06**	**271.92**	**75.37**
Percentile 10	**17.28**	**246.72**	**75.30**	**17.85**	**263.88**	**72.89**
Percentile 25	**18.82**	**254.32**	**78.47**	**18.29**	**266.68**	**73.78**
Percentile 50	**19.36**	**254.72**	**78.56**	**19.07**	**272.73**	**75.63**
Percentile 75	**19.74**	**274.32**	**82.74**	**20.04**	**276.08**	**77.27**
Percentile 98	**21.96**	**282.73**	**87.38**	**20.34**	**281.15**	**77.62**

Note: ' - ' Plant was not in operation / under Shutdown

Plant >	**CCPP Plant**					
Source >	**BOILER-3**			**BOILER-4**		
Parameter >	PM	SO2	NOx	PM	SO2	NOx
Limit >	**50 mg/Nm^3**	**600 mg/Nm^3**	**300 mg/Nm^3**	**50 mg/Nm^3**	**600 mg/Nm^3**	**300 mg/Nm^3**
Apr-24	16.81	274.54	77.54	15.45	270.49	79.76
May-24	18.12	280.52	79.76	16.85	273.81	81.33
Jun-24	21.9	272.54	83.47	20.63	278.15	76.12
Jul-24	18.52	281.64	77.12	17.25	272.18	74.53
Aug-24	17.42	261.65	74.63	18.22	276.27	75.48
Sep-24	19.36	274.23	75.74	17.65	269.42	71.59
Min	**16.81**	**261.65**	**74.63**	**15.45**	**269.42**	**71.59**
Max	**21.90**	**281.64**	**83.47**	**20.63**	**278.15**	**81.33**
Average	**18.69**	**274.19**	**78.04**	**17.68**	**273.39**	**76.47**
Percentile 10	**17.12**	**267.10**	**75.19**	**16.15**	**269.96**	**73.06**
Percentile 25	**17.60**	**272.96**	**76.09**	**16.95**	**270.91**	**74.77**
Percentile 50	**18.32**	**274.39**	**77.33**	**17.45**	**273.00**	**75.80**
Percentile 75	**19.15**	**279.03**	**79.21**	**18.08**	**275.66**	**78.85**
Percentile 98	**21.65**	**281.53**	**83.10**	**20.39**	**277.96**	**81.17**

Note: '- ' Plant was not in operation / under Shutdown

Process Emissions though various stacks /vents of reactors/process vessel:

Plant >	Chlor Alkali Plant			
Source >	Hypo Unit		HCL Synthesis Unit	
Parameter >	Cl_2	HCl	Cl_2	HCl
Limit >	**9 mg/Nm^3**	**20 mg/Nm^3**	**9 mg/Nm^3**	**20 mg/Nm^3**
Apr-24	<1	2.25	<1	2.84
May-24	<1	2.41	<1	3.37
Jun-24	<1	2.45	<1	3.14
Jul-24	<1	3.28	<1	4.64
Aug-24	<1	3.65	<1	4.89
Sep-24	<1	3.32	<1	4.1
Min	**<1**	**2.25**	**<1**	**2.84**
Max	**<1**	**3.65**	**<1**	**4.89**
Average	**<1**	**2.89**	**<1**	**3.83**
Percentile 10	**<1**	**2.33**	**<1**	**2.99**
Percentile 25	**<1**	**2.42**	**<1**	**3.20**
Percentile 50	**<1**	**2.87**	**<1**	**3.74**
Percentile 75	**<1**	**3.31**	**<1**	**4.51**
Percentile 98	**<1**	**3.62**	**<1**	**4.87**

Plant >	VCM Plant							
Source >	Incinerator [PK-701]							
Parameter >	PM	SO_2	NOx	Cl_2	HCl	HC	CO	VCM
Limit >	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**10 mg/Nm^3**	**30 mg/Nm^3**	**15 mg/Nm^3**	**150 mg/Nm^3**	**6.6 mg/Nm^3**
Apr-24	4.22	7.56	17.51	<1.0	2.46	1.25	2.53	<1.5
May-24	4.86	6.43	18.72	<1.0	4.14	1.31	3.25	<1.5
Jun-24	3.56	5.82	16.35	<1.0	3.36	1.26	3.1	<1.5
Jul-24	3.18	6.48	17.3	<1.0	3.11	1.32	3.56	<1.5
Aug-24	3.54	7.15	18.47	<1.0	4.67	1.42	4.28	<1.5
Sep-24	4.45	8.32	17.25	<1.0	4.48	1.34	4.38	<1.5
Min	**3.18**	**5.82**	**16.35**	**<1.0**	**2.46**	**1.25**	**2.53**	**<1.5**
Max	**4.86**	**8.32**	**18.72**	**<1.0**	**4.67**	**1.42**	**4.38**	**<1.5**
Average	**3.97**	**6.96**	**17.60**	**<1.0**	**3.70**	**1.32**	**3.52**	**<1.5**
Percentile 10	**3.36**	**6.13**	**16.80**	**<1.0**	**2.79**	**1.26**	**2.82**	**<1.5**
Percentile 25	**3.55**	**6.44**	**17.26**	**<1.0**	**3.17**	**1.27**	**3.14**	**<1.5**
Percentile 50	**3.89**	**6.82**	**17.41**	**<1.0**	**3.75**	**1.32**	**3.41**	**<1.5**

Percentile 75	**4.39**	**7.46**	**18.23**	**<1.0**	**4.40**	**1.34**	**4.10**	**<1.5**
Percentile 98	**4.82**	**8.24**	**18.70**	**<1.0**	**4.65**	**1.41**	**4.37**	**<1.5**

Plant >	**VCM Plant**							
Source >	**Incinerator [PK-702]**							
Parameter >	PM	SO_2	NOx	Cl2	HCl	HC	CO	VCM
Limit >	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**10 mg/Nm^3**	**30 mg/Nm^3**	**15 mg/Nm^3**	**150 mg/Nm^3**	**6.6 mg/Nm^3**
Apr-24	5.16	6.72	15.63	<1.0	2.83	1.21	2.71	<1.5
May-24	-	-	-	<1.0	-	-	-	<1.5
Jun-24	3.74	6.25	22.78	<1.0	4.15	1.29	3.36	<1.5
Jul-24	4.25	7.16	19.8	<1.0	4.76	1.27	4.24	<1.5
Aug-24	4.33	6.43	21.35	<1.0	3.52	1.35	3.85	<1.5
Sep-24	5.42	9.14	21.78	<1.0	3.83	1.42	3.9	<1.5
Min	**3.74**	**6.25**	**15.63**	**<1.0**	**2.83**	**1.21**	**2.71**	**<1.5**
Max	**5.42**	**9.14**	**22.78**	**<1.0**	**4.76**	**1.42**	**4.24**	**<1.5**
Average	**4.58**	**7.14**	**20.27**	**<1.0**	**3.82**	**1.31**	**3.61**	**<1.5**
Percentile 10	**3.94**	**6.32**	**17.30**	**<1.0**	**3.11**	**1.23**	**2.97**	**<1.5**
Percentile 25	**4.25**	**6.43**	**19.80**	**<1.0**	**3.52**	**1.27**	**3.36**	**<1.5**
Percentile 50	**4.33**	**6.72**	**21.35**	**<1.0**	**3.83**	**1.29**	**3.85**	**<1.5**
Percentile 75	**5.16**	**7.16**	**21.78**	**<1.0**	**4.15**	**1.35**	**3.90**	**<1.5**
Percentile 98	**5.40**	**8.98**	**22.70**	**<1.0**	**4.71**	**1.41**	**4.21**	**<1.5**

Plant >	**VCM Plant**							
Source >	**Incinerator [PK-1701]**							
Parameter >	PM	SO_2	NOx	Cl2	HCl	HC	CO	VCM
Limit >	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**10 mg/Nm^3**	**30 mg/Nm^3**	**15 mg/Nm^3**	**150 mg/Nm^3**	**6.6 mg/Nm^3**
Apr-24	2.64	7.54	18.74	<1.0	2.34	1.23	2.48	<1.5
May-24	3.62	7.15	22.61	<1.0	3.3	1.28	2.85	<1.5
Jun-24	3.35	5.38	20.47	<1.0	3.81	1.22	3.13	<1.5
Jul-24	3.42	6.54	18.94	<1.0	4.38	1.29	3.41	<1.5
Aug-24	3.54	6.61	20.12	<1.0	3.95	1.32	3.61	<1.5
Sep-24	4.26	7.52	19.63	<1.0	4.15	1.4	3.85	<1.5
Min	**2.64**	**5.38**	**18.74**	**<1.0**	**2.34**	**1.22**	**2.48**	**<1.5**
Max	**4.26**	**7.54**	**22.61**	**<1.0**	**4.38**	**1.40**	**3.85**	**<1.5**

Average	**3.47**	**6.79**	**20.09**	**<1.0**	**3.66**	**1.29**	**3.22**	**<1.5**
Percentile 10	**3.00**	**5.96**	**18.84**	**<1.0**	**2.82**	**1.23**	**2.67**	**<1.5**
Percentile 25	**3.37**	**6.56**	**19.11**	**<1.0**	**3.43**	**1.24**	**2.92**	**<1.5**
Percentile 50	**3.48**	**6.88**	**19.88**	**<1.0**	**3.88**	**1.29**	**3.27**	**<1.5**
Percentile 75	**3.60**	**7.43**	**20.38**	**<1.0**	**4.10**	**1.31**	**3.56**	**<1.5**
Percentile 98	**4.20**	**7.54**	**22.40**	**<1.0**	**4.36**	**1.39**	**3.83**	**<1.5**

Plant >	**VCM Plant**		
Source >	**VCM Vent Scrubber**		
Parameter >	Cl_2	HCl	HC
Limit >	**10 mg/Nm^3**	**30 mg/Nm^3**	**15 mg/Nm^3**
Apr-24	<1	2.51	<0.2
May-24	<1	2.67	<0.2
Jun-24	< 1	2.78	< 0.2
Jul-24	< 1	3.25	< 0.2
Aug-24	< 1	4.65	< 0.2
Sep-24	< 1	3.14	< 0.2
Min	**<1**	**2.51**	**<0.2**
Max	**<1**	**4.65**	**<0.2**
Average	**<1**	**3.17**	**<0.2**
Percentile 10	**<1**	**2.59**	**<0.2**
Percentile 25	**<1**	**2.70**	**<0.2**
Percentile 50	**<1**	**2.96**	**<0.2**
Percentile 75	**<1**	**3.22**	**<0.2**
Percentile 98	**<1**	**4.51**	**<0.2**

Plant >	**PTA-5 Plant**								
Source >	**OFF GAS SCRUBBER**			**ATM SCRUBBER**			**VENT SCRUBBER**		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**
Apr-24	5.25	<5	<4	4.32	<5	<4	4.87	<5	<4
May-24	4.53	<5	<4	5.24	<5	<4	4.28	<5	<4
Jun-24	5.28	<5	<4	4.89	<5	<4	4.53	<5	<4
Jul-24	4.75	<5	<4	5.42	<5	<4	5.14	<5	<4

Aug-24	4.58	<5	<4	5.14	<5	<4	4.68	<5	<4
Sep-24	6.23	<5	<4	5.74	<5	<4	6.88	<5	<4
Min	**4.53**	**<5**	**<4**	**4.32**	**<5**	**<4**	**4.28**	**<5**	**<4**
Max	**6.23**	**<5**	**<4**	**5.74**	**<5**	**<4**	**6.88**	**<5**	**<4**
Average	**5.10**	**<5**	**<4**	**5.13**	**<5**	**<4**	**5.06**	**<5**	**<4**
Percentile 10	**4.56**	**<5**	**<4**	**4.61**	**<5**	**<4**	**4.41**	**<5**	**<4**
Percentile 25	**4.62**	**<5**	**<4**	**4.95**	**<5**	**<4**	**4.57**	**<5**	**<4**
Percentile 50	**5.00**	**<5**	**<4**	**5.19**	**<5**	**<4**	**4.78**	**<5**	**<4**
Percentile 75	**5.27**	**<5**	**<4**	**5.38**	**<5**	**<4**	**5.07**	**<5**	**<4**
Percentile 98	**6.14**	**<5**	**<4**	**5.71**	**<5**	**<4**	**6.71**	**<5**	**<4**

Plant >	**PTA-6 Plant**								
Source >	**OFF GAS SCRUBBER**			**ATM SCRUBBER**			**VENT SCRUBBER**		
Parameter >	PM	SO_2	NOx	PM	SO_2	NOx	PM	SO_2	NOx
Limit >	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**	**150 mg/Nm^3**	**40 mg/Nm^3**	**25 mg/Nm^3**
Apr-24	4.82	<5	<4	3.64	<5	<4	4.48	<5	<4
May-24	5.45	<5	<4	4.72	<5	<4	4.24	<5	<4
Jun-24	5.23	<5	<4	5.45	<5	<4	5.21	<5	<4
Jul-24	5.62	<5	<4	4.81	<5	<4	5.46	<5	<4
Aug-24	4.72	<5	<4	5.65	<5	<4	4.5	<5	<4
Sep-24	5.81	<5	<4	5.14	<5	<4	5.53	<5	<4
Min	**4.72**	**<5**	**<4**	**3.64**	**<5**	**<4**	**4.24**	**<5**	**<4**
Max	**5.81**	**<5**	**<4**	**5.65**	**<5**	**<4**	**5.53**	**<5**	**<4**
Average	**5.28**	**<5**	**<4**	**4.90**	**<5**	**<4**	**4.90**	**<5**	**<4**
Percentile 10	**4.77**	**<5**	**<4**	**4.18**	**<5**	**<4**	**4.36**	**<5**	**<4**
Percentile 25	**4.92**	**<5**	**<4**	**4.74**	**<5**	**<4**	**4.49**	**<5**	**<4**
Percentile 50	**5.34**	**<5**	**<4**	**4.98**	**<5**	**<4**	**4.86**	**<5**	**<4**
Percentile 75	**5.58**	**<5**	**<4**	**5.37**	**<5**	**<4**	**5.40**	**<5**	**<4**
Percentile 98	**5.79**	**<5**	**<4**	**5.63**	**<5**	**<4**	**5.52**	**<5**	**<4**

Plant >	**PVC Plant**									
Source >	**PVC Dryer [IH:1]**					**PVC Dryer [IH:2]**				
Parameter >	PM	SO_2	NOx	CO	VCM	PM	SO_2	NOx	CO	VCM

Limit >	150 mg/Nm^3	100 ppm	50 ppm	150 mg/Nm^3	6.6 mg/Nm^3	150 mg/Nm^3	100 ppm	50 ppm	150 mg/Nm^3	6.6 mg/Nm^3
Apr-24	4.85	7.16	23.52	2.18	<1.5	3.32	8.25	26.28	2.43	<1.5
May-24	5.72	8.45	26.52	2.36	<1.5	4.56	8.1	21.74	2.58	<1.5
Jun-24	5.24	7.75	27.56	2.21	<1.5	4.36	8.47	23.59	2.46	<1.5
Jul-24	5.67	8.74	23.47	3.25	<1.5	5.42	10.25	25.96	3.12	<1.5
Aug-24	5.34	8.24	24.48	3.64	<1.5	5.51	10.36	27.65	3.32	<1.5
Sep-24	5.42	8.53	21.52	3.4	<1.5	4.85	9.44	24.71	3.16	<1.5
Min	**4.85**	**7.16**	**21.52**	**2.18**	**<1.5**	**3.32**	**8.10**	**21.74**	**2.43**	**<1.5**
Max	**5.72**	**8.74**	**27.56**	**3.64**	**<1.5**	**5.51**	**10.36**	**27.65**	**3.32**	**<1.5**
Average	**5.37**	**8.15**	**24.51**	**2.84**	**<1.5**	**4.67**	**9.15**	**24.99**	**2.85**	**<1.5**
Percentile 10	**5.05**	**7.46**	**22.50**	**2.20**	**<1.5**	**3.84**	**8.18**	**22.67**	**2.45**	**<1.5**
Percentile 25	**5.27**	**7.87**	**23.48**	**2.25**	**<1.5**	**4.41**	**8.31**	**23.87**	**2.49**	**<1.5**
Percentile 50	**5.38**	**8.35**	**24.00**	**2.81**	**<1.5**	**4.71**	**8.96**	**25.34**	**2.85**	**<1.5**
Percentile 75	**5.61**	**8.51**	**26.01**	**3.36**	**<1.5**	**5.28**	**10.05**	**26.20**	**3.15**	**<1.5**
Percentile 98	**5.72**	**8.72**	**27.46**	**3.62**	**<1.5**	**5.50**	**10.35**	**27.51**	**3.30**	**<1.5**

Summary of Gaseous Emission from Various Process Stacks

(April 2024 – September 2024)

Stack Detail	Parameter	GPCB Consent Limit	Avg	Min	Max
VCM - Stack attached to Incinerator	PM (mg/Nm^3)	150	3.97	2.64	5.42
	SO_2 (mg/Nm^3)	40	6.95	5.38	9.14
	NOx (mg/Nm^3)	25	19.26	15.63	22.78
	Cl_2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.72	2.34	4.76
	HC (mg/Nm^3)	15	1.30	1.21	1.42
	CO (mg/Nm^3)	150	3.44	2.48	4.38
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
VCM Plant –Stack attached to Vent Scrubber	Cl2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.17	2.51	4.65
	HC (mg/Nm^3)	15	< 0.2	< 0.2	< 0.2
Chlor Alkali Plant - Stacks Attached to Hypo and HCl Synthesis Unit	Cl_2 (mg/Nm^3)	9	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	20	3.36	2.25	4.89
PVC Plant- Stacks attached to PVC Dryers	PM (mg/Nm^3)	150	5.02	3.32	5.72
	SO_2 (ppm)	100	8.65	7.16	10.36
	NOx (ppm)	50	24.75	21.52	27.65
	CO (mg/Nm^3)	150	2.84	2.18	3.64
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
PTA Plant - Stacks attached to Off gas scrubber, atmospheric scrubber and vent scrubber	PM (mg/Nm^3)	150	5.06	3.64	6.88
	SO_2 (mg/Nm^3)	40	<5	<5	<5
	NOx (mg/Nm^3)	25	<4	<4	<4

Summary of Flue Gas Emission Results

(April 2024 – September 2024)

Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
Flue Gas Emissions					
GCU Plant - Stack attached Furnaces	PM (mg/Nm^3)	10	4.05	2.40	5.63
	SO_2 (mg/Nm^3)	50	6.03	4.24	8.25
	NOx (mg/Nm^3)	350	62.84	51.25	69.34
VCM Plant - Stack attached to EDC Furnaces	PM (mg/Nm^3)	10	4.41	3.36	5.25
	SO_2 (mg/Nm^3)	50	8.14	6.72	9.41
	NOx (mg/Nm^3)	350	64.75	51.85	74.90
CPP Plant - Boilers / HRSGs stacks	PM (mg/Nm^3)	10	5.18	3.12	6.42
	SO_2 (mg/Nm^3)	50	9.47	7.62	11.36
	NOx (mg/Nm^3)	350	61.88	37.56	72.25
PET-3 Plant -Stacks attached to Heaters	PM (mg/Nm^3)	10	4.22	3.10	5.87
	SO_2 (mg/Nm^3)	50	8.51	6.81	9.63
	NOx (mg/Nm^3)	350	62.87	45.15	69.65
CCPP – Stacks attached to Boilers	PM (mg/Nm^3)	50	18.67	15.45	22.15
	SO_2 (mg/Nm^3)	600	270.30	241.65	283.46
	NOx (mg/Nm^3)	300	77.51	71.59	87.78

Annexure IV

Photograph of State of the art Control Room equipped with DCS

O/c

Reliance
Industries Limited
CIN # L17110MH1973PLC019786

RIL-DMD/HSEF/ENV/2018/29

June 18, 2018

To,
Member Secretary
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10 A,
Gandhinagar – 382 010

Kind Attn: Sh. A V Shah, Sr. Environmental Engineer

Sub: Ambient Air Quality Monitoring Stations at RIL-DMD [Industry ID: 15565]
Ref.: (1) CTO /CCA order no. W-76082 dated 04/02/2016, valid upto 03/11/2020
(2) Environmental Clearance F. No. J-11011/39/2016-IA-II(I) dated 3rd April 2017

Dear Sir,

As you are aware, RIL-Dahej Manufacturing Division is a manufacturing site of the earstwhile IPCL - a "Navaratna" Public sector undertaking, which was acquired by Reliance Industries Limited in June 2002 and subsequently merged with itself, in September 2007. After merger, DMD site is expanded at regular interval after obtaining necessary approval from MoEF/SEIAA/ GPCB.

The Ambient Air Quality Monitoring is being carried at five locations within complex and 2 locations outside the complex; 1 at Jetty and 1 in nearby village, suggested based on dispersion modelling study since beginning.

As per General condition B (iii) of EC dated 3rd April 2017, granted by MoEF, stated that "The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated."

In this context, we had engaged M/s Environment Resource Management (ERM) to identify and suggest the locations for AAQM based on dispersion modeling study due to Expansion and Debottlenecking of RIL-DMD. Based on study, M/s ERM has suggested to relocate four AAQM stations and three will be at existing location. A copy of study report received from ERM is enclosed for your ready reference.

In compliance to the above referred condition of the Environment Clearance, we request you to kindly consider the locations for Ambient Air Quality Monitoring.

Thanking you,

Yours faithfully,
For Reliance Industries Limited

Anand Sutaria
Head - Environment

Cc:
The Regional Officer,
Gujarat Pollution Control Board,
C - 1/119/3, GIDC Phase II,
Narmada Nagar,
BHARUCH - 392015.

Annexure VII

Ambient Air Monitoring Locations Post Expansion & Debottlenecking: *Dahej Manufacturing Division (DMD), Dahej, Gujarat, India*

Reliance Industries Limited

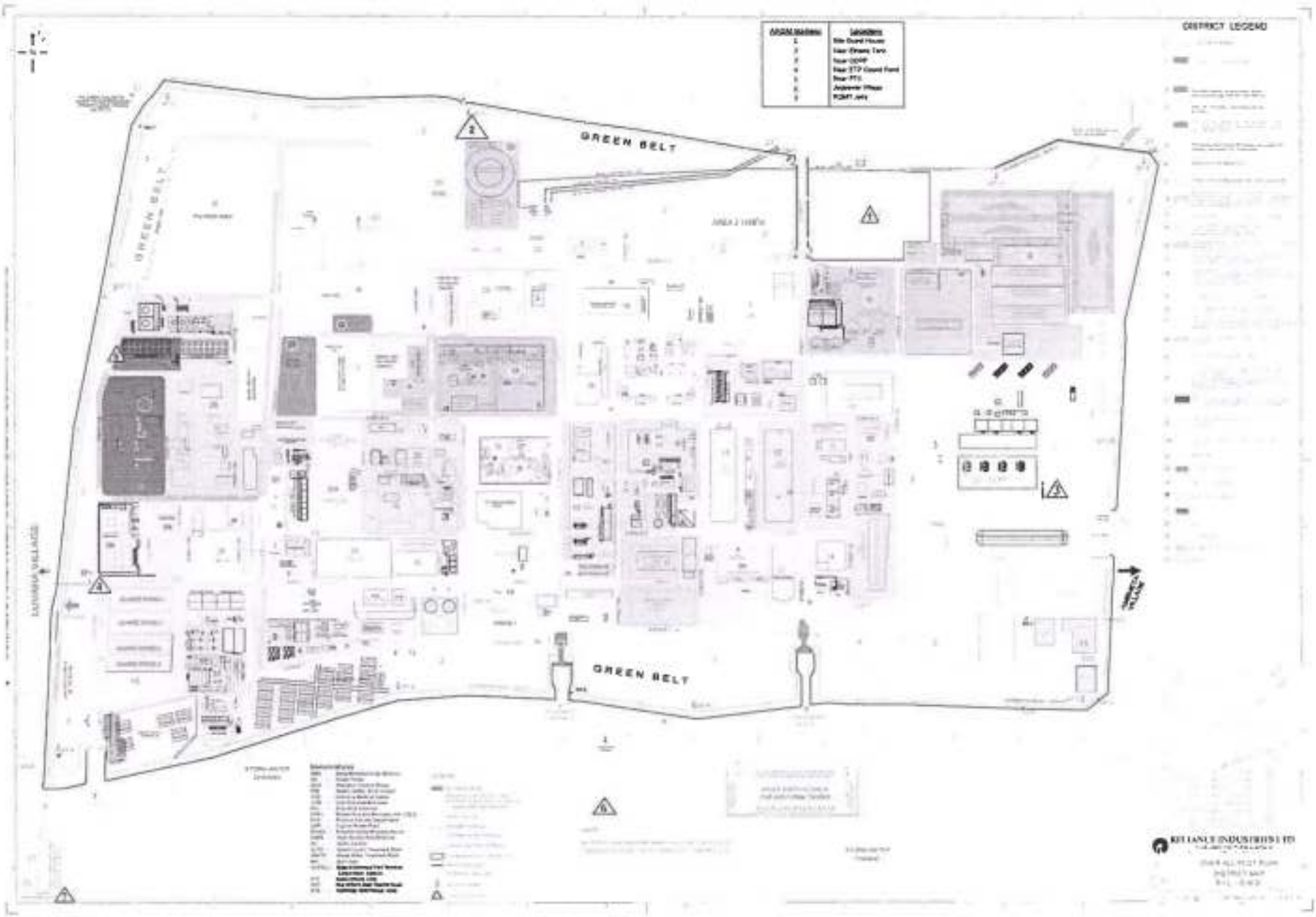
Report

January 2018

www.erm.com

The business of sustainability

ERM


GREEN BELT
GREEN BELT
GREEN BELT
DISTRICT LEGEND

Annexure VI

Ambient Air Quality Monitoring Report

(April 2024 – September 2024)

LOCATION	MINIMUM VALUE	PERCENTILE					MAXIMUM VALUE	AVERAGE VALUE
		10	25	50	75	98		
POLLUTANT – PM 2.5	µg/m^3						µg/m^3	µg/m^3
Site Guest House	9.0	12.0	13.8	20.5	26.0	30.0	32.0	19.9
Nr. CCPP	13.0	15.0	19.5	25.5	29.0	34.0	36.0	24.4
Nr. PTA	10.0	13.0	14.5	18.0	29.0	34.0	34.0	20.3
Nr. ETP Guard Pond	8.0	11.0	13.0	16.5	25.3	32.0	33.0	18.9
RDMT Jetty	9.0	12.0	13.0	15.5	26.3	35.0	36.0	19.6
Nr. Ethane Tank	11.0	14.0	16.0	21.5	30.0	35.0	37.0	22.1
Jageshwar Village	8.0	10.0	12.0	15.5	24.0	30.0	32.0	17.6

LOCATION	MINIMUM VALUE	PERCENTILE					MAXIMUM VALUE	AVERAGE VALUE
		10	25	50	75	98		
POLLUTANT – PM 10	µg/m3						µg/m3	µg/m3
Site Guest House	31.0	42.1	47.5	59.0	64.3	69.0	71.0	55.9
Nr. CCPP	41.0	49.1	54.0	62.5	69.0	75.0	76.0	61.3
Nr. PTA	38.0	43.0	49.5	55.0	68.5	75.0	75.0	56.8
Nr. ETP Guard Pond	36.0	40.2	48.8	54.0	64.0	70.0	71.0	55.0
RDMT Jetty	34.0	41.1	47.8	53.0	65.3	73.0	74.0	54.9
Nr. Ethane Tank	38.0	51.0	51.0	57.5	68.0	74.0	75.0	57.7
Jageshwar Village	34.0	39.4	47.0	54.0	65.0	70.0	72.0	54.1

LOCATION	MINIMUM VALUE	PERCENTILE					MAXIMUM VALUE	AVERAGE VALUE
		10	25	50	75	98		
POLLUTANT - SO_2	µg/m^3						µg/m^3	µg/m^3
Site Guest House	11.2	13.6	16.1	20.1	22.7	26.6	27.2	19.5
Nr. CCPP	12.5	15.3	21.4	23.7	27.1	29.4	29.6	23.1
Nr. PTA	11.8	13.1	15.4	18.3	24.0	27.7	28.5	19.3
Nr. ETP Guard Pond	10.6	12.8	14.6	18.4	24.1	27.3	28.2	19.1
RDMT Jetty	10.4	13.0	14.7	19.1	25.0	28.2	28.6	19.7
Nr. Ethane Tank	13.2	16.2	15.9	19.8	25.8	29.1	29.2	20.6
Jageshwar Village	10.6	11.9	13.0	15.1	21.6	24.5	25.1	16.8

LOCATION		PERCENTILE						
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	MINIMUM VALUE	10	25	50	75	98	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT - NO_X	µg/m^3						µg/m^3	µg/m^3
Site Guest House	15.4	19.7	22.6	26.5	28.8	31.8	32.6	25.5
Nr. CCPP	19.5	22.5	26.4	30.3	32.8	36.8	36.8	29.6
Nr. PTA	17.6	19.4	22.6	26.5	29.9	34.4	35.5	26.1
Nr. ETP Guard Pond	17.8	19.7	22.3	25.8	29.4	33.4	34.6	25.9
RDMT Jetty	17.5	18.5	21.8	25.6	29.6	32.7	33.3	25.6
Nr. Ethane Tank	19.1	22.8	22.3	25.9	32.5	36.2	36.3	26.9
Jageshwar Village	18.4	19.3	20.6	24.4	28.9	31.5	33.2	24.6

LOCATION	MINIMUM VALUE	PERCENTILE					MAXIMUM VALUE	AVERAGE VALUE
		10	25	50	75	98		
POLLUTANT – O_3	µg/m^3						µg/m^3	µg/m^3
Site Guest House	3.7	5.7	6.5	8.0	9.4	9.8	9.9	7.8
Nr. CCPP	4.4	6.1	6.8	7.8	9.8	10.6	11.2	8.2
Nr. PTA	4.5	5.2	6.5	7.0	9.5	11.4	12.6	7.6
Nr. ETP Guard Pond	4.1	4.8	6.1	7.0	9.4	10.7	11.4	7.5
RDMT Jetty	4.1	5.2	6.1	6.9	9.4	10.6	10.9	7.4
Nr. Ethane Tank	4.2	6.4	6.3	7.2	9.8	11.4	11.5	7.7
Jageshwar Village	4.3	5.0	6.3	7.2	9.8	10.9	11.5	7.6

LOCATION	MINIMUM VALUE	PERCENTILE					MAXIMUM VALUE	AVERAGE VALUE
		10	25	50	75	98		
POLLUTANT - NH_3	µg/m^3						µg/m^3	µg/m^3
Site Guest House	7.2	9.7	11.5	14.1	15.3	18.3	19.3	13.5
Nr. CCPP	13.4	14.8	16.5	21.5	23.4	26.1	34.8	20.5
Nr. PTA	9.2	11.2	13.0	16.1	20.7	25.7	25.8	16.7
Nr. ETP Guard Pond	7.6	10.2	11.3	14.6	18.7	23.4	23.7	15.1
RDMT Jetty	8.5	9.7	11.7	13.8	16.4	18.5	19.6	13.9
Nr. Ethane Tank	10.3	13.3	12.6	14.4	22.3	25.5	26.1	16.6
Jageshwar Village	8.3	10.3	12.5	14.2	16.5	19.4	20.6	14.0

LOCATION	MINIMUM VALUE	PERCENTILE					MAXIMUM VALUE	AVERAGE VALUE
		10	25	50	75	98		
POLLUTANT – CO	mg/m^3						mg/m^3	mg/m^3

Site Guest House	1.2	1.2	1.3	1.4	1.6	1.7	1.7	1.4
Nr. CCPP	1.2	1.3	1.4	1.6	1.6	1.7	1.7	1.5
Nr. PTA	1.2	1.2	1.3	1.5	1.6	1.8	1.8	1.5
Nr. ETP Guard Pond	1.1	1.2	1.2	1.4	1.5	1.6	1.7	1.4
RDMT Jetty	1.1	1.2	1.2	1.3	1.6	1.7	1.7	1.4
Nr. Ethane Tank	1.2	1.3	1.3	1.4	1.5	1.7	1.7	1.4
Jageshwar Village	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.3

LOCATION	**MINIMUM VALUE**	**PERCENTILE**					**MAXIMUM VALUE**	**AVERAGE VALUE**
		10	**25**	**50**	**75**	**98**		
POLLUTANT - C_6H_6	µg/m^3						µg/m^3	µg/m^3
Site Guest House	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Nr. CCPP	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Nr. PTA	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Nr. ETP Guard Pond	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
RDMT Jetty	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Nr. Ethane Tank	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Jageshwar Village	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0

LOCATION	**MINIMUM VALUE**	**PERCENTILE**					**MAXIMUM VALUE**	**AVERAGE VALUE**
		10	**25**	**50**	**75**	**98**		
POLLUTANT – Pb	µg/m^3						µg/m^3	µg/m^3
Site Guest House	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nr. CCPP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nr. PTA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nr. ETP Guard Pond	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
RDMT Jetty	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nr. Ethane Tank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Jageshwar Village	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

LOCATION	**MINIMUM VALUE**	**PERCENTILE**					**MAXIMUM VALUE**	**AVERAGE VALUE**
		10	**25**	**50**	**75**	**98**		
POLLUTANT - As	ng/m^3						ng/m^3	ng/m^3
Site Guest House	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Nr. CCPP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Nr. PTA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Nr. ETP Guard Pond	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
RDMT Jetty	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Nr. Ethane Tank	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Jageshwar Village	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

LOCATION	**MINIMUM VALUE**	**PERCENTILE**					**MAXIMUM VALUE**	**AVERAGE VALUE**
		10	**25**	**50**	**75**	**98**		
POLLUTANT - Ni	ng/m^3						ng/m^3	ng/m^3
Site Guest House	1.6	2.0	2.5	3.4	4.7	5.5	5.6	3.5
Nr. CCPP	2.8	3.6	4.3	5.1	5.6	6.4	6.7	4.9
Nr. PTA	2.4	3.2	3.8	4.7	5.6	6.8	7.1	4.6
Nr. ETP Guard Pond	1.7	2.1	2.9	3.9	5.5	6.5	6.7	4.1
RDMT Jetty	2.1	2.5	2.9	4.0	4.9	6.3	6.4	4.0
Nr. Ethane Tank	2.5	2.9	3.4	4.5	5.6	7.1	7.3	4.6
Jageshwar Village	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

LOCATION	**MINIMUM VALUE**	**PERCENTILE**					**MAXIMUM VALUE**	**AVERAGE VALUE**
		10	**25**	**50**	**75**	**98**		
POLLUTANT - BAP	ng/m^3						ng/m^3	ng/m^3
Site Guest House	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nr. CCPP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nr. PTA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nr. ETP Guard Pond	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RDMT Jetty	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nr. Ethane Tank	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Jageshwar Village	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Summary of the AAQ monitoring (All Stations)

(April 2024 – September 2024)

Parameter	GPCB Consent Limit	Average	Min	Max
PM_{10}	100 $\mu g/m^3$	56.55	31.00	76.00
$PM_{2.5}$	60 $\mu g/m^3$	20.40	8.00	37.00

SO_2	80 µg/m^3	19.74	10.40	29.60
NOx	80 µg/m^3	26.31	15.40	36.80
O_3	180 µg/m^3	7.69	3.70	12.60
NH_3	400 µg/m^3	15.76	7.20	34.80
CO	4 mg/m^3	1.41	1.12	1.82
Benzene	5 µg/m^3	< 1.0	< 1.0	< 1.0
Pb	1 µg/m^3	< 0.1	< 0.1	< 0.1
As	6 ng/m^3	< 1.0	< 1.0	< 1.0
Ni	20 ng/m^3	4.30	< 0.1	7.30
BAP	1 ng/m^3	< 0.5	< 0.5	< 0.5

Summary of the AAQ monitoring (Site Guest House)

(April 2024 – September 2024)

Parameter	**PM 10**	**PM 2.5**	**Sox**	**NOx**	**O3**	**NH3**	**CO**	**Benzene**
GPCB Consent Limit	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	180 µg/m3	400 µg/m3	4 mg/m3	5 µg/m3
Min	31.00	9.00	11.20	15.40	3.70	7.20	1.15	< 1.0
Max	71.00	32.00	27.20	32.60	32.60	19.30	1.68	< 1.0
Avg	55.88	19.86	19.53	25.48	7.81	13.54	1.43	< 1.0
Percentile 10	42.10	12.00	13.60	19.71	5.70	9.65	1.21	< 1.0
Percentile 25	47.50	13.75	16.08	22.55	6.50	11.48	1.31	< 1.0
Percentile 50	59.00	20.50	20.05	26.45	8.00	14.10	1.45	< 1.0
Percentile 75	64.25	26.00	22.68	28.83	9.40	15.25	1.56	< 1.0
Percentile 98	68.98	29.98	26.58	31.79	9.80	18.30	1.65	< 1.0

Annexure VII

Treated Effluent Quality Monitoring Report

(April 2024 – September 2024)

Sr. No.	Parameter	Unit	GPCB Norms	RESULTS								
				Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sep'24	Avg	Min	Max
1	pH	−	5.5-9.0	7.85	8.3	8.16	7.84	7.93	7.81	7.98	7.81	8.30
2	Colour and odour	All efforts shall be made to remove colour and unpleasant odour as far as practicable.		Colourless and Odourless						Colourless and Odourless		
3	Total Suspended Solids	mg/l	100	25	29	26	23	26	29	26.33	23.00	29.00
4	Temperature	° C	Shall not exceed 5°C above the receiving water temperature	28.8	27.5	28.3	26.1	28.6	30.5	28.30	26.10	30.50
5	Oil & Grease	mg/l	20	1.6	1.8	1.6	1.4	1.6	1.8	1.63	1.40	1.80
6	Total Residual Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7	Ammonical Nitrogen (as N)	mg/l	50	14.5	16.2	14.1	12.5	14.2	17.1	14.77	12.50	17.10
8	Total Kjeldahl Nitrogen (as NH_3)	mg/l	100	31.6	33.4	28.9	25.3	28.8	32.4	30.07	25.30	33.40
9	Free Ammonia (as NH_3)	mg/l	5	3.4	3.5	3.3	2.7	2.1	1.7	2.78	1.70	3.50
10	Biochemical Oxygen Demand	mg/l	100	44.3	47.2	51.6	44.8	46.2	41.5	45.93	41.50	51.60
11	Chemical Oxygen Demand	mg/l	250	187	196	188	164	152.3	138.8	171.02	138.80	196.00
12	Arsenic (as AS)	mg/l	0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
13	Mercury (as Hg)	mg/l	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
14	Lead (as Pb)	mg/l	2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
15	Cadmium (as Cd	mg/l	2	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
16	Hexavalent Chromium (as Cr^{+6})	mg/l	1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
17	Total Chromium (as Cr)	mg/l	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
18	Copper (as Cu)	mg/l	3	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

19	Zinc (as Zn)	mg/l	15	1.6	1.9	1.6	1.4	1.2	1.4	1.52	1.20	1.90
20	Selenium (as Se)	mg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
21	Nickel (as Ni)	mg/l	5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
22	Cyanide (as CN)	mg/l	0.2	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
23	Fluorides (as F)	mg/l	15	0.37	0.45	0.32	0.26	0.31	0.56	0.38	0.26	0.56
24	Sulphides	mg/l	5	0.14	0.21	0.16	0.14	0.18	0.21	0.17	0.14	0.21
25	Phenolic compounds (as C_6H_5OH)	mg/l	5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
26	Manganese (as Mn)	mg/l	2	0.16	0.19	0.14	0.12	0.13	0.15	< 0.1	< 0.1	< 0.1
27	Iron (as Fe)	mg/l	3	1.4	1.6	1.4	1.6	1.8	1.5	1.55	1.40	1.80
28	Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
29	Nitrate Nitrogen	mg/l	20	9	10	12	14	16	14	12.50	9.00	16.00
30	*Bioassay Test	90% survival of fish after 96 hours in 100% effluent		>90% survival of fish observed after 96 hours in 100% effluent	>90% survival of fish observed after 96 hours in 100% effluent	>90% survival of fish observed after 96 hours in 100% effluent	>90% survival of fish observed after 96 hours in 100% effluent	>90% survival of fish observed after 96 hours in 100% effluent	>90% survival of fish observed after 96 hours in 100% effluent	>90% survival of fish observed after 96 hours in 100% effluent		

*Note: * As MoEF&CC has not notified the norm for this parameter, GPCB standard is considered)*

Annexure VIII

Details of Hazardous Waste Collection, Storage, Treatment and Disposal (April 2024 – September 2024)

Sr. No.		Physical / Chemical Form	Waste Category	Consented Quantity (MT / Yr)	Disposal Quantity (MT)	Description of Storage	Treatment	Details of Transportation	Mode of Disposal
1	Spent Catalyst from various units and Molecular Sieve / alumina desiccant	Solid / Metal & Metal oxides	1.6 / I	411.75	30.63	Collected in Bags / Drums. Bags / Drums are stored on impervious flooring during storage period.	---	Spent catalyst / Molecular Seive /alumina desicant is transported for recycling / reprocessing by authorized transporter.	Sold to authorized vendors for recycle.
2	Oil from wastewater treatment	Liquid / Hydrocarbon	1.7 / I	1060	0.00	Stored in Slop Oil Tank	---	Oil from wastewater treatment is transported for reprocessing by authorized transporter.	Disposal by selling to registered rerefiners.
3	Chemical Sludge from Waste water treatment	Solid / Inorganic solids	35.3 / I	3200	581.96	Stored in Sludge Drying Bed	---	Transported in tractor trolley.	Disposal at own / Common TSDF.
4	ETP Sludge containing polymeric constituents	Semi-Solid / Inorganic solids	35.3 / I	300	25.63	Stored in Sludge Drying Bed during storage period and filled in drums prior to disposal.	---	ETP Sludge containing Polymeric constituents is transported for Co processing by authorized transporter.	Disposal at Co-processing Facility
5	Used or Spent oil	Liquid / Hydrocarbon	5.1 / I	225	67.03	Collected in Drums. Drums are stored on impervious flooring during storage period.	---	Used or Spent Oil is transported for reprocessing by authorized transporter.	Disposal by selling to registered rerefiners.
6	Wastes or residues containing oil*	Solid / Cotton	5.2 / I	So ever generated (600)	57.16	Collected in Drums. Drums are stored on impervious flooring during storage period.	---	Waste or residues containing oil is transported for incineration / final disposal by authorized transporter.	Disposal at Co-processing Facility
7	Process residues (Residue from Vinyl Chloride Monomer VCM production)	Liquid / Hydrocarbon	22.2 / I	20750	3451.53	Stored in Heavy End Storage Tank	---	---	Disposal by Incineration at own Incinerator.

Sr. No.		Physical / Chemical Form	Waste Category	Consented Quantity (MT / Yr)	Disposal Quantity (MT)	Description of Storage	Treatment	Details of Transportation	Mode of Disposal
8	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Discarded Containers)	Solid / Metal & Plastic	33.1 / I	450	65.19	Collected in Drums / containers. Drums / containers are stored on impervious flooring during storage period.	Decontamination	Decontaminated containers are transported for recycling / reprocessing by authorized transporter	Disposal by selling to authorized vendors for recycle.
9	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Bags / Liners)	Solid / Plastic	33.1 / I	11	0.00	Packed in Bundles and stored on impervious flooring during storage period.	Decontamination	---	Disposal by selling as scrap after decontamination.
10	Sludge and filters contaminated with oil	Solid / Solids along with hydrocarbon	3.3 / I	So ever generated (500)	0.00	Collected in Drums / Bags. Drums / Bags are stored on impervious flooring during storage period.	---	Sludge & Filters contaminated with oil is transported for recycling / reprocessing by authorized transporter	Disposal at TSDF / sell to authorized vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant.
11	Spent Carbon	Solid / Carbon	36.2 / I	So ever generated (500)	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	---	Spent Carbon is transported for recycling / reprocessing by authorized transporter.	Disposal at Common Incineration Facility and / or sell to authorized vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant.
12	Spent ion exchange resin	Solid / Co polymer of Styrene	35.2 / I	So ever generated (500)	29.70	Collected in Bags. Bags are stored on impervious flooring during storage period.	---	Spent ion exchange resin is transported for TSDF / recycling / reprocessing by authorized transporter	Disposal at TSDF, sell to authorized vendors for recycle/ reprocessing / Co-processing facility / co-processing in captive coal based power plant.
13	Spent Solvent (Degraded Dowtherm)	Solid / Metal & Metal oxides	20.2 / I	216	0.00	Collected in Bags. Bags are stored on impervious flooring during storage period.	---	Spent Solvent is transported for recycling / reprocessing by authorized transporter	Disposal at TSDF / sell to authorized vendors for recycle / reprocessing/ Co-processing facility / co-processing in captive coal based power plant.
14	Cargo / Tank Residue, Washing Water and Sludge containing Oil	Liquid / Solid / Hydrocarbon	3.1 / I	100	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	---	Cargo / Tank Residue, Washing Water and Sludge containing Oil is transported	Disposal at common TSDF for incineration / sell to authorised vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant

Sr. No.		Physical / Chemical Form	Waste Category	Consented Quantity (MT / Yr)	Disposal Quantity (MT)	Description of Storage	Treatment	Details of Transportation	Mode of Disposal
								for recycling / reprocessing by authorized transporter.	
15	Cargo / Tank Residue and Sludge containing Chemical	Solid / Inorganic solids	3.2 / I	100	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	---	Cargo / Tank Residue and Sludge containing Chemical is transported for recycling / reprocessing by authorized transporter.	Disposal at common TSDF for incineration / sell to authorised vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant
16	Bilge Water Containing Oil from Ships	Liquid / Hydrocarbon	3.4 / I	100	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	ETP	Bilge Water Containing Oil from Ships is transported for recycling / reprocessing by authorized transporter.	Disposal by treatment at ETP / at common TSDF for incineration / sell to authorised vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant

a. **Spent Catalyst:**
Spent catalyst generated is collected in bags / drums and stored at designated storage location. It is sold to authorize recycler / reprocessor for recovery of metals.

b. **Molecular Sieve:**
Molecular Sieve generated is collected in bags / drums and sent for landfilling at own / common TSDF.

c. **Oil from Waste Water treatment:** Slop oil is stored in tanks and sold to approved recyclers / reprocessors.

d. **Chemical Sludge from Wastewater treatment:**
Chemical sludge generated from Effluent treatment plant is sent for landfilling at own / common TSDF.

e. **ETP Chemical Sludge containing Polymeric constituents:**
ETP Chemical sludge containing Polymeric constituents is sent for co-processing in cement industries.

f. **Used or Spent oil:** Used oil is collected in drums and stored at designated storage location. It is sold to approved recyclers / reprocessors.

g. **Waste or Residues containing oil:** Waste & residues containing oil generated is collected in drums and stored at designated storage location. Disposal at Co-processing facility.

h. **Process Residue (Residue from Vinyl chloride monomer production):** Process Residue generated from Vinyl chloride monomer production plant is incinerated into own incinerator.

i. **Discarded containers:** Decontaminated containers & used empty paint drums are sold to authorized vendors.

j. **Bags / Liners:** Whenever generated, packed in Bundles and stored on impervious flooring. It is sold to approved recyclers / reprocessors.

k. **Sludge & Filters contaminated with oil:** It is collected in Drums / Bags and stored on impervious flooring. It is sold to approved recyclers / reprocessors / Co-processing facility / co-processing in captive coal based power plant.

l. **Spent Carbon:** It is collected in drums and sold to authorized recyclers / re-processors / Co-processing facility / co-processing in captive coal based power plant.

m. **Spent ion exchange resin:** It is collected in bags and sold to authorized recyclers / reprocessors / Co-processing facility / co-processing in captive coal based power plant.

n. **Alumina Desiccant:** It is collected in drums and sold to authorized recyclers / reprocessors / Co-processing facility / co-processing in captive coal based power plant.

o. **Spent Solvent (Degraded Dowtherm):** It is collected in drums and sold to an authorized recyclers / reprocessors / Co-processing facility / co-processing in captive coal based power plant.

p. **Cargo / Tank Residue, Washing Water and Sludge containing Oil:** It is collected in drums and sold to common TSDF for incineration / sell to authorised vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant**.**

q. **Cargo / Tank Residue and Sludge containing Chemical:** It is collected in drums and sold to common TSDF for incineration / sell to authorised vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant**.**

r. **Bilge Water Containing Oil from Ships:** It is collected in drums and disposal by treatment at ETP / at common TSDF for incineration / sell to authorised vendors for recycle / reprocessing / Co-processing facility / co-processing in captive coal based power plant**.**

s. **E waste:** It is sold to approved E-waste recyclers.

O/C

Reliance
Industries Limited

RIL-DMD/HSEF/ENV/2024/36 **June 28, 2024**

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

PCB ID: 15565

Sub: Submission of Form 4 (Annual Return) under the Hazardous and other wastes (Management & Transboundary Movement) Rules, 2016.

Ref: Consolidated Consent & Authorisation No. AWH-111189 dated 16.01.2021 via Letter No. GPCB/BRCH-B-CCA-717(18)/ID-15565/582554 (as amended)

Dear Sir,

Please find enclosed the duly filled Form 4 (Annual Return) under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the financial year 2023-24.

Thanking you,

Yours faithfully,
For **Reliance Industries Limited,**

Raja Raman Chaudhary
Head - Environment

Encl: As above

29/6/24
Post Received
Gujarat Pollution Control Board
BHARUCH

Cc:
The Regional Officer,
Gujarat Pollution Control Board,
C - 1/119/3, GIDC Phase II,
Narmadanagar,
BHARUCH - 392015

FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

1.	Name and address of facility:	**Reliance Industries Limited,** **Dahej Manufacturing Division,** P.O. Dahej - 392130 Ta. Vagra, Dist. Bharuch.
2.	Authorisation No. and Date of issue:	AWH-111189 issued on 16.01.2021
3.	Name of the authorised person and full address with telephone, fax number and e-mail:	Shailesh Nigam, Site President, Reliance Industries Limited, Dahej Manufacturing Division, P.O. Dahej - 392130 Ta. Vagra, Dist. Bharuch. Telephone No: 02641-356018
4.	Production during the year (product wise), wherever applicable	**Please refer Annexure 1**

Part A. To be filled by hazardous waste generators

1.	Total quantity of waste generated category wise	11,500.72 MT *(Please refer Annexure 2)*
2.	Quantity dispatched (i) to disposal facility (ii) to recycler or co-processors or pre-processor (iii) others (Process Incinerators)	 259.64 MT 1,071.89 MT 9,776.75 MT *(Please refer Annexure 2)*
3.	Quantity utilized in-house, if any -	Nil
4.	Quantity in storage at the end of the year –	1,072.66 MT

Part B. To be filled by Treatment, Storage and Disposal Facility Operators

1.	Total quantity received -	9,890.34 MT (Generated)
2.	Quantity in stock at the beginning of the year -	398.54 MT
3.	Quantity treated –	Nil
4.	Quantity disposed in landfills as such and after treatment –	77.52 MT
5.	Quantity incinerated (if applicable) –	9,776.75 MT
6.	Quantity processed other than specified above –	Nil
7.	Quantity in storage at the end of the year –	434.20 MT (incinerable liquid waste)

Part C. To be filled by recyclers or co-processors or other users

1.	Quantity of waste received during the year – (i) domestic sources (ii) imported (if applicable)	 Not Applicable Not Applicable
2.	Quantity in stock at the beginning of the year –	Not Applicable
3.	Quantity recycled or co-processed or used –	Not Applicable
4.	Quantity of products dispatched (wherever applicable) –	Not Applicable
5.	Quantity of waste generated –	Not Applicable
6.	Quantity of waste disposed –	Not Applicable
7.	Quantity re-exported (wherever applicable) –	Not Applicable
8.	Quantity in storage at the end of the year –	Not Applicable

Date: 27.06.2024

Place: Dahej

Signature of the Occupier or Operator of the disposal facility

Shailesh Nigam

Shailesh Nigam
Site President
Reliance Industries Limited
Dahej Manufacturing Division
P.O. Dahej – 392130.
Ta. Vagra, Dist. Bharuch.
Gujarat

RELIANCE INDUSTRIES LIMITED
DAHEJ MANUFACTURING DIVISION

Annexure - 1

Production during April 2023 to March 2024

S No.	Plant	Products	Capacity MT/Y	Production during Apr 23 to Mar 24 (MT/Y)
1.	Chlor Alkali	Caustic Soda (NaOH) 100%	221000	169331
		Chlorine	187000	150343
		Hydrochloric Acid (30%)	15000	9282
		Sodium Hypochlorite	11000	1158
		Sulphuric Acid (78%)	4600	3382
2.	Vinyl Chloride Monomer	Vinyl Chloride Monomer	360000	356083
		Ethylene Dichloride	588000	195524
		Hydrochloric Acid	72000	19701
3.	Poly Vinyl Chloride	Poly Vinyl Chloride	360000	353809
4.	High Density Polyethylene	HDPE-I / HDPE-II	240000	173070
		UHMW-PE	2500	0
5.	EO/EG	MEG	308350	142557
		EO	80000	62371
		DEG	30550	14864
		TEG	1270	663
		PEG	19850	0
		TEG Bottom	2880	416
6.	GCU	Ethylene	550000	430513
		Propylene	160000	19480
		Mixed C4	47450	16420
		RARFS	54750	7111
		Fuel Oil	40000	8716
		Tar Residue	5472	0
7.	EPRU	Ethane / Propane	650000	0
8.	EVA	EVA	13000	0
9.	PET	PET	1000000	641789
10.	PTA	PTA	3000000	2566340
		CBAM	60000	15157

Details of Hazardous Waste (April 2023 to March 2024)

Sr. No.	Name of the Waste	Physical / Chemical Form	Waste Category	Consented Quantity (MT / Yr)	Opening Stock (MT/Yr)	Generated Quantity (MT/Yr)	Dispatched Quantity (MT / Yr)					Description of Storage	Mode of Disposal
							To disposal facility	To recycler or co-processors or pre-processor	Others	Disposed / Utilized in-house	Qty in storage / Balance		
1	Spent Catalyst from various units and Molecular Sieve / alumina desiccant	Solid / Metal & Metal oxides	1.6 / I	411.75	41.58	272.54	0.00	257.88	0.00	56.26	0.00	Collected in Bags / Drums. Bags / Drums are stored on impervious flooring during storage period.	257.88 MT sold to authorize vendors for recycle. 56.26 MT diposed in captive SLF.
2	Oil from wastewater treatment	Liquid / Hydrocarbon	1.7 / I	1060	22.00	168.73	0.00	189.73	0.00	0.00	1.00	Stored in Slop Oil Tank.	Disposal by selling to registered recyclers / reprocessors.
3	Chemical Sludge from Waste water treatment	Solid / Inorganic solids	35.3 / I	3200	187.08	357.10	182.12	0.00	0.00	21.26	340.80	Stored in Sludge Drying Bed.	21.26 MT disposed in captive SLF. 182.12 MT disposed at common landfill.
4	ETP Sludge containing polymeric constituents	Semi-Solid / Inorganic solids	35.3 / I	300	3.57	121.96	0.00	125.63	0.00	0.00	0.00	Stored in Sludge Drying Bed during storage period and filled in drums prior to disposal.	Disposal at Co-processing Facility
5	Used or Spent oil	Liquid / Hydrocarbon	5.1 / I	225	10.85	161.63	0.00	171.68	0.00	0.00	0.80	Collected in Drums. Drums are stored on impervious flooring during storage period.	Disposal by selling to registered recyclers / reprocessors.
6	Wastes or residues containing oil	Solid / Cotton	5.2 / I	So ever generated (500)	6.35	62.27	0.00	68.54	0.00	0.00	0.08	Collected in Drums. Drums are stored on impervious flooring during storage period.	Disposal at Co-processing Facility
7	Process residues (Residue from Vinyl Chloride Monomer VCM production)	Liquid / Hydrocarbon	22.2 / I	20750	398.54	9812.82	0.00	0.00	0.00	9775.75	434.61	Stored in Heavy End Storage Tank	Disposal by Incineration at own process incinerators.
8	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Discarded Containers)	Solid / Metal & Plastic	33.1 / I	450	10.15	155.00	0.00	145.44	0.00	0.00	19.71	Collected in Drums / containers. Drums / containers are stored on impervious flooring during storage period.	Disposal by selling as scrap after decontamination.
9	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Bags / Liners)	Solid / Plastic	33.1 / I	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
10	Sludge and filters contaminated with oil	Solid / Solids along with hydrocarbon	3.3 / I	So ever generated (500)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
11	Spent Carbon	Solid / Carbon	36.2 / I	So ever generated (500)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Collected in Drums / bags. Drums / bags are stored on impervious flooring during storage period.	
12	Spent ion exchange resin	Solid / Co polymer of Styrene	35.2 / I	So ever generated (500)	0.00	103.56	0.00	89.90	0.00	0.00	13.66	Collected in Bags. Bags are stored on impervious flooring during storage period.	Disposal at Co-processing Facility
13	Spent Solvent (Degraded Dowtherm)	Solid / Metal & Metal oxides	20.2 / I	216	0.00	23.11	0.00	23.11	0.00	0.00	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	Sold to authorized vendors for recycle / reprocessing/ Co-processing facility.
14	Cargo / Tank Residue, Washing Water and Sludge containing Oil	Liquid / Solid / Hydrocarbon	3.1 / I	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
15	Cargo / Tank Residue and Sludge containing Chemical	Solid / Inorganic solids	3.2 / I	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
16	Bilge Water Containing Oil from Ships	Liquid / Hydrocarbon	3.4 / I	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Total Quantity (MT)					680.22	11238.72	182.12	1071.89	0.00	9854.27	810.66		

Annexure X

Ground Water Monitoring Report
(April 2024 – September 2024)

April 2024

Location			Bore Well-01	Bore Well-02	Bore Well-03	Bore Well-04	Bore Well-05	Bore Well-06	Bore Well-07	Bore Well-08	MIN	MAX	AVG
Sr. No	Parameter	UNIT	Visitor Pass Section	SLF North Corner	SLF East Corner	SLF South Corner	SLF West Corner	Material Gate-2	Watch Tower No.2	Watch Tower No.4			
1	pH	-	7.8	7.8	8.2	7.9	8.0	8.2	7.9	7.9	7.8	8.2	7.9
2	Conductivity	µS/cm	1491.0	782.0	1142.0	1208.0	1372.0	1076.0	1227.0	1136.0	782	1491.0	1179.3
3	TDS	mg/l	982.0	547.0	763.0	746.0	852.0	761.0	805.0	746.0	547	982.0	775.3
4	Turbidity	NTU	5.8	4.9	7.5	6.4	8.9	8.2	7.6	9.2	5	9.2	7.3
5	P-alkalinity as CaCO3	mg/l	43.5	13.2	26.5	34.2	30.5	17.8	21.3	19.5	13	43.5	25.8
6	M-Alkalinity (as CaCO3)	mg/l	89.2	31.5	54.2	60.5	41.8	49.7	64.2	36.2	32	89.2	53.4
7	Total Suspended Solids	mg/l	7.0	13.0	15.0	17.0	21.0	20.0	21.0	15.0	7	21.0	16.1
8	Total Hardness as CaCO3	mg/l	194.2	112.5	145.1	352.4	263.5	285.6	302.5	203.4	113	352.4	232.4
9	Ca-hardness as CaCO3	mg/l	129.4	72.9	83.8	129.0	164.1	160.2	196.9	134.9	73	196.9	133.9
10	Mg hardness (as CaCO3)	mg/l	64.8	39.6	61.3	223.4	99.4	125.4	105.6	68.5	40	223.4	98.5
11	Chloride as Cl	mg/l	287.5	169.4	271.4	340.9	281.6	206.5	211.4	212.8	169	340.9	247.7
12	Sulphates as SO4	mg/l	133.1	41.3	52.7	36.2	71.3	56.2	51.5	63.1	36	133.1	63.2
13	Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
14	Iron as Fe	mg/l	1.7	6.3	5.1	4.3	6.2	6.4	7.1	7.3	1.7	7.3	5.6
15	Chemical Oxygen Demand	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0
16	Biochemical Oxygen Demand (3 day at 27°C)	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0
17	Carbonate (CO3)	mg/l	29.7	23.1	34.5	25.3	46.2	17.3	35.1	38.3	17.3	46.2	31.2
18	Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
19	Nitrate (NO3)	mg/l	1.4	1.5	1.4	1.2	1.3	1.4	1.3	1.4	1.2	1.5	1.4
20	Fluorides (as F)	mg/l	0.6	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.5	0.8	0.6
21	Bicarbonate (HCO3)	mg/l	76.3	62.8	57.4	56.1	62.3	60.8	63.2	65.1	56.1	76.3	63.0
22	Sodium (Na)	mg/l	96.2	41.6	94.5	51.3	102.1	59.2	65.2	74.5	41.6	102.1	73.1
23	Potassium (K)	mg/l	6.1	7.4	6.7	4.2	7.6	8.1	7.8	7.5	4.2	8.1	6.9
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.0	< 0.2
25	Phenol	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0	< 0.001

May 2024

Location			Bore Well-01	Bore Well-02	Bore Well-03	Bore Well-04	Bore Well-05	Bore Well-06	Bore Well-07	Bore Well-08	MIN	MAX	AVG
Sr. No	Parameter	UNIT	Visitor Pass Section	SLF North Corner	SLF East Corner	SLF South Corner	SLF West Corner	Material Gate-2	Watch Tower No.2	Watch Tower No.4			
1	pH	-	7.7	7.8	8.4	8.1	8.1	8.2	8.1	8.1	7.7	8.4	8.1
2	Conductivity	µS/cm	1657.0	906.0	1242.0	1338.0	1471.0	1182.0	1310.0	1258.0	906.0	1657.0	1295.5
3	TDS	mg/l	1083.0	634.0	811.0	787.0	870.0	809.0	850.0	770.0	634.0	1083.0	826.8
4	Turbidity	NTU	6.5	5.4	8.6	7.5	9.4	7.4	8.8	10.6	5.4	10.6	8.0
5	P-alkalinity as CaCO3	mg/l	53.2	17.3	29.3	47.1	32.4	19.6	24.5	27.2	17.3	53.2	31.3
6	M-Alkalinity (as CaCO3)	mg/l	91.4	37.2	60.5	75.7	43.2	54.1	72.6	47.5	37.2	91.4	60.3
7	Total Suspended Solids	mg/l	16.0	18.0	21.0	19.0	23.0	19.0	24.0	27.0	16.0	27.0	20.9
8	Total Hardness as CaCO3	mg/l	241.5	113.1	179.6	356.1	260.3	279.2	298.2	197.3	113.1	356.1	240.7
9	Ca-hardness as CaCO3	mg/l	153.2	70.4	108.8	130.9	183.1	155.0	158.9	124.8	70.4	183.1	135.6
10	Mg hardness (as CaCO3)	mg/l	88.3	42.7	70.8	225.2	77.2	124.2	139.3	72.5	42.7	225.2	105.0
11	Chloride as Cl	mg/l	262.8	175.8	281.8	375.3	292.4	273.5	280.2	236.5	175.8	375.3	272.3
12	Sulphates as SO4	mg/l	141.4	73.2	61.5	46.8	82.5	58.1	60.3	75.4	46.8	141.4	74.9
13	Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
14	Iron as Fe	mg/l	4.3	6.1	7.4	6.3	7.9	7.1	7.5	8.5	4.3	8.5	6.9
15	Chemical Oxygen Demand	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
16	Biochemical Oxygen Demand (3 day at 27°C)	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
17	Carbonate (CO3)	mg/l	33.5	24.6	35.7	34.1	56.8	18.1	37.3	39.2	18.1	56.8	34.9
18	Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
19	Nitrate (NO3)	mg/l	1.5	1.6	1.5	1.3	1.4	1.5	1.4	1.6	1.3	1.6	1.5
20	Fluorides (as F)	mg/l	0.7	0.8	0.9	0.6	0.7	0.7	0.6	0.7	0.6	0.9	0.7
21	Bicarbonate (HCO3)	mg/l	86.2	68.1	72.1	61.4	75.2	71.5	63.7	82.4	61.4	86.2	72.6
22	Sodium (Na)	mg/l	104.8	39.5	95.2	71.3	111.2	53.2	71.2	70.3	39.5	111.2	77.1
23	Potassium (K)	mg/l	7.2	8.4	8.6	6.2	9.4	8.7	9.5	9.8	6.2	9.8	8.5
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
25	Phenol	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

June 2024

Location			Bore Well-01	Bore Well-02	Bore Well-03	Bore Well-04	Bore Well-05	Bore Well-06	Bore Well-07	Bore Well-08	MIN	MAX	AVG
Sr. No	Parameter	UNIT	Visitor Pass Section	SLF North Corner	SLF East Corner	SLF South Corner	SLF West Corner	Material Gate-2	Watch Tower No.2	Watch Tower No.4			
1	pH	-	7.5	7.7	8.4	7.9	8.1	8.4	8.1	7.9	7.5	8.4	8.0
2	Conductivity	µS/cm	1485.0	862.0	1435.0	1376.0	1518.0	1290.0	1265.0	1372.0	862.0	1518.0	1325.4
3	TDS	mg/l	997.0	599.0	916.0	746.0	914.0	847.0	782.0	869.0	599.0	997.0	833.8
4	Turbidity	NTU	5.8	6.6	7.2	6.9	8.8	6.3	7.4	8.7	5.8	8.8	7.2
5	P-alkalinity as CaCO3	mg/l	42.5	15.4	37.1	45.6	39.2	17.2	20.8	24.5	15.4	45.6	30.3
6	M-Alkalinity (as CaCO3)	mg/l	78.6	33.6	75.3	72.4	47.1	69.4	62.6	52.3	33.6	78.6	61.4
7	Total Suspended Solids	mg/l	14.0	16.0	18.0	15.0	20.0	21.0	19.0	23.0	14.0	23.0	18.3
8	Total Hardness as CaCO3	mg/l	336.5	141.6	243.5	338.3	352.6	266.5	282.4	290.6	141.6	352.6	281.5
9	Ca-hardness as CaCO3	mg/l	201.1	92.2	153.3	121.1	228.3	139.2	145.9	183.0	92.2	228.3	158.0
10	Mg hardness (as CaCO3)	mg/l	135.4	49.4	90.2	217.2	124.3	127.3	136.5	107.6	49.4	217.2	123.5
11	Chloride as Cl	mg/l	286.5	167.6	325.3	333.6	321.2	301.6	278.5	292.6	167.6	333.6	288.4
12	Sulphates as SO4	mg/l	81.3	73.8	67.3	39.3	99.8	68.5	54.2	86.7	39.3	99.8	71.4
13	Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
14	Iron as Fe	mg/l	5.4	8.9	10.6	9.2	10.2	9.1	10.5	11.2	5.4	11.2	9.4
15	Chemical Oxygen Demand	mg/l	11.0	12.0	13.0	13.0	14.0	13.0	12.0	14.0	11.0	14.0	12.8
16	Biochemical Oxygen Demand (3 day at 27°C)	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
17	Carbonate (CO3)	mg/l	41.6	32.3	43.8	42.8	64.6	26.3	45.8	47.5	26.3	64.6	43.1
18	Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
19	Nitrate (NO3)	mg/l	1.3	1.2	1.4	1.5	1.6	1.4	1.3	1.4	1.2	1.6	1.4
20	Fluorides (as F)	mg/l	0.5	0.7	0.8	0.6	0.7	0.6	0.6	0.6	0.5	0.8	0.6
21	Bicarbonate (HCO3)	mg/l	96.5	59.6	83.6	69.3	68.1	63.8	57.4	75.1	57.4	96.5	71.7
22	Sodium (Na)	mg/l	138.3	38.9	109.3	79.7	135.6	48.8	67.2	78.2	38.9	138.3	87.0
23	Potassium (K)	mg/l	9.4	10.1	11.2	7.8	11.7	10.1	9.8	11.6	7.8	11.7	10.2
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
25	Phenol	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

July 2024

Location			Bore Well-01	Bore Well-02	Bore Well-03	Bore Well-04	Bore Well-05	Bore Well-06	Bore Well-07	Bore Well-08	MIN	MAX	AVG
Sr. No	Parameter	UNIT	Visitor Pass Section	SLF North Corner	SLF East Corner	SLF South Corner	SLF West Corner	Material Gate-2	Watch Tower No.2	Watch Tower No.4			
1	pH	-	7.2	7.5	8.1	7.8	7.9	8.1	7.9	7.7	7.2	8.1	7.8
2	Conductivity	µS/cm	1525.0	886.0	1480.0	1373.0	1575.0	1326.0	1297.0	1353.0	886.0	1575.0	1351.9
3	TDS	mg/l	1034.0	605.0	923.0	742.0	949.0	814.0	798.0	854.0	605.0	1034.0	839.9
4	Turbidity	NTU	4.5	5.1	8.4	5.6	7.4	5.6	6.8	9.5	4.5	9.5	6.6
5	P-alkalinity as CaCO3	mg/l	51.6	19.3	39.6	45.2	48.8	15.4	28.5	21.8	15.4	51.6	33.8
6	M-Alkalinity (as CaCO3)	mg/l	88.2	41.2	87.3	71.8	55.3	67.8	53.1	44.6	41.2	88.2	63.7
7	Total Suspended Solids	mg/l	16.0	14.0	19.0	17.0	21.0	18.0	20.0	21.0	14.0	21.0	18.3
8	Total Hardness as CaCO3	mg/l	371.5	149.3	273.5	341.5	384.5	275.4	284.5	298.3	149.3	384.5	297.3
9	Ca-hardness as CaCO3	mg/l	223.2	99.7	176.9	126.9	243.2	146.7	152.3	167.4	99.7	243.2	167.0
10	Mg hardness (as CaCO3)	mg/l	148.3	49.6	96.7	214.6	141.3	128.7	132.2	130.9	49.6	214.6	130.3
11	Chloride as Cl	mg/l	287.3	161.4	343.8	326.5	360.5	315.2	291.5	283.2	161.4	360.5	296.2
12	Sulphates as SO4	mg/l	91.5	78.3	54.3	32.1	87.7	70.6	58.8	71.5	32.1	91.5	68.1
13	Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
14	Iron as Fe	mg/l	4.1	7.5	11.3	13.1	9.6	11.4	9.8	11.5	4.1	13.1	9.8
15	Chemical Oxygen Demand	mg/l	10.0	11.0	12.0	12.0	13.0	14.0	13.0	13.0	10.0	14.0	12.3
16	Biochemical Oxygen Demand (3 day at 27°C)	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
17	Carbonate (CO3)	mg/l	45.2	40.1	44.3	40.4	63.2	44.3	42.3	48.2	40.1	63.2	46.0
18	Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
19	Nitrate (NO3)	mg/l	1.1	1.0	1.2	1.3	1.5	1.2	1.1	1.3	1.0	1.5	1.2
20	Fluorides (as F)	mg/l	0.4	0.5	0.6	0.5	0.6	0.4	0.5	0.5	0.4	0.6	0.5
21	Bicarbonate (HCO3)	mg/l	97.1	65.2	75.2	62.8	71.1	69.5	55.6	77.3	55.6	97.1	71.7
22	Sodium (Na)	mg/l	171.2	46.2	103.1	79.2	123.5	41.7	78.3	67.5	41.7	171.2	88.8
23	Potassium (K)	mg/l	9.6	11.5	10.6	6.3	9.5	10.6	9.2	10.3	6.3	11.5	9.7
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
25	Phenol	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

August 2024

Location			Bore Well-01	Bore Well-02	Bore Well-03	Bore Well-04	Bore Well-05	Bore Well-06	Bore Well-07	Bore Well-08	MIN	MAX	AVG
Sr. No	Parameter	UNIT	Visitor Pass Section	SLF North Corner	SLF East Corner	SLF South Corner	SLF West Corner	Material Gate-2	Watch Tower No.2	Watch Tower No.4			
1	pH	-	7.9	7.4	7.7	7.9	7.7	7.8	7.2	7.2	7.2	7.9	7.6
2	Conductivity	µS/cm	1445.0	837.0	1473.0	1325.0	1525.0	1249.0	1286.0	1381.0	837.0	1525.0	1315.1
3	TDS	mg/l	947.0	551.0	929.0	809.0	901.0	813.0	798.0	875.0	551.0	947.0	827.9
4	Turbidity	NTU	7.1	5.7	10.3	12.8	13.1	8.2	9.8	11.3	5.7	13.1	9.8
5	P-alkalinity as CaCO3	mg/l	51.6	25.2	34.2	47.6	36.2	22.4	25.1	32.4	22.4	51.6	34.3
6	M-Alkalinity (as CaCO3)	mg/l	72.2	48.5	66.8	70.5	49.3	54.2	57.5	61.2	48.5	72.2	60.0
7	Total Suspended Solids	mg/l	25.0	18.0	20.0	23.0	26.0	21.0	23.0	24.0	18.0	26.0	22.5
8	Total Hardness as CaCO3	mg/l	316.2	132.6	231.8	332.6	358.2	236.2	252.6	292.6	132.6	358.2	269.1
9	Ca-hardness as CaCO3	mg/l	192.5	78.9	146.2	107.3	225.9	128.1	129.4	161.2	78.9	225.9	146.2
10	Mg hardness (as CaCO3)	mg/l	123.7	53.7	85.6	225.3	132.3	108.1	123.2	131.4	53.7	225.3	122.9
11	Chloride as Cl	mg/l	246.3	148.3	369.2	311.4	293.2	288.5	295.3	304.5	148.3	369.2	282.1
12	Sulphates as SO4	mg/l	93.2	61.7	56.5	45.2	73.5	62.3	59.2	88.3	45.2	93.2	67.5
13	Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
14	Iron as Fe	mg/l	5.3	8.3	10.8	10.6	11.5	12.3	11.7	12.1	5.3	12.3	10.3
15	Chemical Oxygen Demand	mg/l	12.0	11.0	14.0	12.0	15.0	12.0	14.0	15.0	11.0	15.0	13.1
16	Biochemical Oxygen Demand (3 day at 27°C)	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
17	Carbonate (CO3)	mg/l	36.1	34.6	42.8	35.1	54.6	41.1	46.2	42.9	34.6	54.6	41.7
18	Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
19	Nitrate (NO3)	mg/l	1.3	1.1	1.3	1.2	1.4	1.2	1.3	1.2	1.1	1.4	1.3
20	Fluorides (as F)	mg/l	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6
21	Bicarbonate (HCO3)	mg/l	82.5	63.4	87.1	76.3	83.2	64.5	58.1	73.6	58.1	87.1	73.6
22	Sodium (Na)	mg/l	118.3	42.3	132.5	69.3	119.6	63.8	72.3	75.8	42.3	132.5	86.7
23	Potassium (K)	mg/l	9.6	11.8	12.1	10.1	10.8	11.2	9.8	11.0	9.6	12.1	10.8
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
25	Phenol	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

September 2024

Location			Bore Well-01	Bore Well-02	Bore Well-03	Bore Well-04	Bore Well-05	Bore Well-06	Bore Well-07	Bore Well-08	MIN	MAX	AVG
Sr. No	Parameter	UNIT	Visitor Pass Section	SLF North Corner	SLF East Corner	SLF South Corner	SLF West Corner	Material Gate-2	Watch Tower No.2	Watch Tower No.4			
1	pH	-	7.8	7.5	7.9	7.6	7.8	7.9	7.7	7.1	7.1	7.9	7.7
2	Conductivity	µS/cm	1412.0	802.0	1280.0	1276.0	1453.0	1189.0	1124.0	1267.0	802.0	1453.0	1225.4
3	TDS	mg/l	960.0	561.0	858.0	841.0	988.0	819.0	753.0	874.0	561.0	988.0	831.8
4	Turbidity	NTU	8.6	6.2	12.6	13.5	15.2	10.4	11.7	13.5	6.2	15.2	11.5
5	P-alkalinity as CaCO3	mg/l	64.8	37.1	42.6	51.3	45.3	26.7	28.2	36.2	26.7	64.8	41.5
6	M-Alkalinity (as CaCO3)	mg/l	80.7	53.4	70.3	75.4	61.5	57.1	62.4	65.4	53.4	80.7	65.8
7	Total Suspended Solids	mg/l	29.0	21.0	26.0	29.0	27.0	24.0	26.0	28.0	21.0	29.0	26.3
8	Total Hardness as CaCO3	mg/l	285.3	154.3	265.4	351.6	324.5	248.1	265.4	278.2	154.3	351.6	271.6
9	Ca-hardness as CaCO3	mg/l	168.5	86.8	158.8	212.7	203.2	134.3	139.3	150.6	86.8	212.7	156.8
10	Mg hardness (as CaCO3)	mg/l	116.8	67.5	106.6	138.9	121.3	113.8	126.1	127.6	67.5	138.9	114.8
11	Chloride as Cl	mg/l	282.5	156.1	287.3	290.6	312.8	273.3.	253.3	283.1	156.1	312.8	266.5
12	Sulphates as SO4	mg/l	101.2	56.8	61.7	47.8	84.6	67.5	60.8	74.5	47.8	101.2	69.4
13	Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
14	Iron as Fe	mg/l	7.2	9.5	12.4	14.3	13.5	14.1	12.6	13.6	7.2	14.3	12.2
15	Chemical OxygenDemand	mg/l	12.0	11.0	12.0	14.0	17.0	14.0	13.0	16.0	11.0	17.0	13.6
16	Biochemical Oxygen Demand (3 day at 27°C)	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
17	Carbonate (CO3)	mg/l	33.5	30.2	38.5	29.6	48.2	44.5	49.1	51.3	29.6	51.3	40.6
18	Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
19	Nitrate (NO3)	mg/l	1.4	1.2	1.2	1.3	1.5	1.3	1.2	1.3	1.2	1.5	1.3
20	Fluorides (as F)	mg/l	0.6	0.6	0.6	0.6	0.7	0.6	0.5	0.6	0.5	0.7	0.6
21	Bicarbonate (HCO3)	mg/l	95.3	67.5	79.5	82.1	96.5	68.1	61.7	79.2	61.7	96.5	78.7
22	Sodium (Na)	mg/l	97.1	47.8	91.7	74.5	94.3	60.8	57.8	72.5	47.8	97.1	74.6
23	Potassium (K)	mg/l	10.6	12.4	11.8	12.4	11.9	12.2	10.4	12.6	10.4	12.6	11.8
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
25	Phenol	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Ground water monitoring results (Bore Well-1)
(April 2024 – September 2024)

Parameter	UNIT	Average	Min	Max
pH	--	7.65	7.24	7.90
Conductivity	µS/cm	1502.50	1412.00	1657.00
TDS	mg/l	1000.50	947.00	1083.00
Turbidity	NTU	6.38	4.50	8.60
P-alkalinity (as CaCO3)	mg/l	51.20	42.50	64.80
M-Alkalinity (as CaCO3)	mg/l	83.38	72.20	91.40
Total Suspended Solids	mg/l	17.83	7.00	29.00
Total Hardness (as CaCO3)	mg/l	290.87	194.20	371.50
Ca-hardness as CaCO3	mg/l	177.98	129.40	223.20
Mg hardness (as CaCO3)	mg/l	112.88	64.80	148.30
Chloride (as Cl)	mg/l	275.48	246.30	287.50
Sulphates (as SO4)	mg/l	106.95	81.30	141.40
Free Residual Cl2	mg/l	< 0.1	< 0.1	< 0.1
Iron (as Fe)	mg/l	4.67	1.70	7.20
Chemical Oxygen Demand	mg/l	11.25	10.00	12.00
"Biochemical Oxygen Demand (3 day at 27°C)"	mg/l	< 1.0	< 1.0	< 1.0
Carbonate (CO3)	mg/l	36.60	29.70	45.20
Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0
Nitrate (NO3)	mg/l	1.33	1.10	1.50
Fluorides (as F)	mg/l	0.57	0.43	0.72
Bicarbonate (HCO3)	mg/l	88.98	76.30	97.10
Sodium (Na)	mg/l	120.98	96.20	171.20
Potassium (K)	mg/l	8.75	6.10	10.60
Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2
Phenol	mg/l	< 0.001	< 0.001	< 0.001

1. Gaseous Storage Licences under SMPV(U) Rules issued by Chief Controller of Explosives, Nagpur.

Sr. No	Plant	Name of licensed area	Licence Number	Validity
1	VCM	VCM Storage	S/HO/GJ/03/249(S1419)	30.09.2027
2	CA	Chlorine storage	S/HO/GJ/03/246(S1412)	30.09.2027
3	N2O2 (IOP)	Oxygen gas storage	S/HO/GJ/03/318(S1597)	30.09.2027
4	VCM	Nitrogen storage	S/HO/GJ/03/355(S1677)	30.09.2027
5	EOEG	EO storage with loading facility	S/HO/GJ/03/351(S1674)	30.09.2027
6	HDPE	Butene & hydrogen	S/HO/GJ/03/368(S1688)	30.09.2027
7	OSBL	Ethylene & propylene storage	S/HO/GJ/03/394(S1728)	30.09.2027
8	PTD	Propane, Propylene and C4 Mix storage	S/HO/GJ/03/386(S1716)	30.09.2027
9	N2O2 (IOP)	Liquid. Nitrogen Storage	S/HO/GJ/03/1567(S56097)	30.09.2027

2. Details of Petroleum Storage Licenses issued by Chief Controller of Explosives, Nagpur under Petroleum rules, 2002

Sr. No	Plant	Name of Licensed Area	License Number	Licensed Capacity	Validity
1	PTD	Naptha Storage	P/HQ/GJ/15/2048(P12367)	Class A:54000 KL	31.12.2028
2	CPP	Naptha and HSD	P/HQ/GJ/15/1982(P12304)	Class A: 2147 KL, Class B: 407 KL	31.12.2028
3	IOP (Fire)	HSD	P/HQ/GJ/15/2044(P12363)	Class B: 15 KL	31.12.2028
4	GCU	Wash Oil	P/HQ/GJ/15/2063(P12377)	Class B: 20 KL	31.12.2028
5	HDPE	Hexane	P/HQ/GJ/15/2025(P12344)	Class A:1403 KL	31.12.2028
6	GCU	Methanol	P/HQ/GJ/15/1975(P12297)	Class A:21.5 KL	31.12.2028
7	ETP-I	Slop oil	P/HQ/GJ/15/1984(P12306)	Class A:100 KL	31.12.2028
8	PTD	PG-LFO-PFO-WO	P/HQ/GJ/15/2002(P12324)	Class A: 920 KL, Class B: 550 KL, Class C: 200 KL	31.12.2028
9	ETP-II	Slop oil	P/HQ/GJ/15/1908(P12239)	Class A:106 KL	31.12.2028
10	PTA	p-Xylene, HSD, Methanol	P/HQ/GJ/15/5364(P346978)	Class A: 332 KL, Class B: 11202 KL	31.12.2028

3. Details of Gas Cylinder Storage Licences issued by Chief Controller of Explosives, Nagpur under Gas Cylinder Rules 2016-Explosive Act , 1984

Sr. No	Name of licensed area	Licence Number	Renewed upto / license status
1	Gas Cylinder Storage	G/WC/GJ/06/924(G14117)	30.09.2028

Annexure XII

Photographs of Quality Assurance Department (Central Laboratory)

Annexure XIII

Photograph of Mangrove plantation done in RDMT Jetty

Annexure XIV

Ambient Noise Level Monitoring Report

(April 2024 – September 2024)

Month	Monitoring Location													
	Nr. Ethane Tank		Site Guest House		Nr. CCPP		Nr. PTA		Nr. ETP Guard Pond		RDMT Jetty		Jageshwar Village	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	Ambient Noise Levels in dB(A)													
Apr-24	57.4	51.9	55.9	50.3	56.1	50.1	58	53.8	56.4	51.2	61.4	54.8	56.1	50.9
May-24	58.2	52.2	57.3	51.4	55.1	49.7	57.4	52.8	57.5	50.5	60.6	56.1	58	49.9
Jun-24	58.8	51.2	56.4	52.1	54.7	48.4	58.1	53.6	56.7	51.3	61.2	55.4	59.6	50.3
Jul-24	56.3	50.8	55.2	51.4	53.7	47.3	57.2	52.2	56.1	50.2	59.2	54.8	58.3	51.4
Aug-24	57.6	51.4	56.1	50.1	56.4	49.9	58.2	54.2	56.2	51.4	60.9	55.2	56.3	51.1
Sep-24	58.1	50.7	55.8	51.2	55.8	51.2	58.6	54.8	55.3	50.4	61.2	54.8	57.4	52.2
Limit	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0
Min	56.3	50.7	55.2	50.1	53.7	47.3	57.2	52.2	55.3	50.2	59.2	54.8	56.1	49.9
Max	58.8	52.2	57.3	52.1	56.4	51.2	58.6	54.8	57.5	51.4	61.4	56.1	59.6	52.2
Avg	57.7	51.4	56.1	51.1	55.3	49.4	57.9	53.6	56.4	50.8	60.8	55.2	57.6	51.0

Reliance
Industries Limited

19 June, 2024

To:
Dy. Director of Industrial Safety & Health,
Office of the DISH,
Multistory building, 2nd Floor,
Kanbi Vaga, Opp-Gayatri Nagar,
Bharuch – 392 001.

Kind Attn: Dy. Director of Industrial Safety & Health.

Subject: Submission of "Mock drill" report.

Reference: GFR 68-J-12(5)

Dear Sir,

Please find enclosed copy of the report on mock drill, which was carried out at Reliance Industries Ltd. Dahej Site.

Sr. No.	Date	Location	Scenario
1	15.05.2024	IT / IT Server Room	Fire in IT Server Room & Injury

This is for your kind information and record please.

Thanking you,

Yours faithfully,
For Reliance Industries Limited,

J.P.Patel

(Jignesh P. Patel)
Head – Safety

Encl: As above

Rec'd: 21/06/24

Reliance
Industries Limited

RIL-DMD/HSEF/ENV/2024/29 Date: 27th May, 2024

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office,
A Wing – 407 & 409, Aranya Bhawan,
Near CH - 3 Circle, Sector - 10A,
Gandhinagar, Gujarat – 382 010

Subject: Submission of Compliance Status Report of EC's received by RIL – Dahej manufacturing Division for the period October 2023 to March 2024.

Reference:

1. EC Order no. J-11011/27/90-IA-II dated 14th March 1991
2. EC Order no. J-16011/45/96-IA-III dated 26th December 1996
3. EC Order no. J-11012/11/97-IA-II dated 21st May 1998
4. EC Order no. J-11011/482/2006-IA-II (I) dated 11th June 2007
5. EC Order no. J-11011/402/2007- IA II (I) dated 20th March 2008
6. EC Order no. SEIAA /GUJ/EC/5(e)&1(d)/124/2011 dated 23rd June 2011
7. Amendments in EC No. SEIAA / GUJ/ EC/ 5(e) & 1(d)/160/2011, dated 09th August 2011 and No. SEIAA / GUJ/ EC/ 7(e)/278/2011, dated 13th September 2012
8. EC Order no. SEIAA/GUJ/EC/1(d)&7(e)/96/2015 dated 02nd March 2015
9. Amendment in EC No. SEIAA/GUJ/EC/1(d) & 7(e)/583/2016, dated 28th September 2016
10. EC Order no. J-11011/39/2016-IA-II (I) dated 3rd April 2017
11. EC Order no J-11011/39/2016-IA-II (I) dated 19th August 2021

Dear Sir,

Please find attached herewith the point wise compliance to the Environment Clearances granted to Reliance Industries Limited – Dahej Manufacturing Division (earlier known as IPCL - Gandhar Petrochemical Complex) by MoEF&CC and SEIAA, Gujarat (referenced above).

Please refer to the annexures number mentioned against the compliances from the common annexure file.

We hope that the above is in line with your requirements and request to kindly acknowledge the receipt.

Thanking you,
For **RELIANCE INDUSTRIES LIMITED**

Raja Raman Chaudhary
Head Environment

Encl.: As above

Cc,
The Member of Secretary,
State Environment Impact Assessment Authority (SEIAA), Gandhinagar

Reliance
Industries Limited

RIL-DMD/HSEF/ENV/2024/29 Date: 27th May, 2024

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

Sub: Submission of Compliance Status Report of EC's received by RIL - Dahej Manufacturing Division for the period October 2023 to March 2024.

Ref:
1) EC Order no. J-11011/27/90-IA-II dated 14th March 1991
2) EC Order no. J-16011/45/96-IA-III dated 26th December 1996
3) EC Order no. J-11012/11/97-IA-II dated 21st May 1998
4) EC Order no. J-11011/482/2006-IA-II (I) dated 11th June 2007
5) EC Order no. J-11011/402/2007- IA II (I) dated 20th March 2008
6) EC Order no. SEIAA /GUJ/EC/5(e)&1(d)/124/2011 dated 23rd June 2011
7) Amendments in EC No. SEIAA / GUJ/ EC/ 5(e) & 1(d)/160/2011, dated 9th August 2011 and No. SEIAA / GUJ/ EC/ 7(e)/278/2011, Dated 13th September 2012
8) EC Order no. SEIAA/GUJ/EC/1(d)&7(e)/96/2015 dated 02nd March 2015
9) Amendment in EC No. SEIAA/GUJ/EC/1(d) & 7(e)/583/2016, dated 28th September 2016
10) EC Order no. J-11011/39/2016-IA-II (I) dated 03rd April 2017
11) EC Order no J-11011/39/2016-IA-II (I) dated 19th August 2021

Dear Sir,

Please find attached herewith the point wise compliance to the Environment Clearances granted to Reliance Industries Limited - Dahej Manufacturing Division (earlier known as IPCL - Gandhar Petrochemical Complex) by MoEF&CC and SEIAA, Gujarat (referenced above).

Please refer to the annexures number mentioned against the compliances from the common annexure file.

We hope that the above is in line with your requirements and request to kindly acknowledge the receipt.

Thanking you,
For **Reliance Industries Limited**

Raja Raman Chaudhary
Head Environment

Encl.: As above

Cc: 1. Regional Officer,
Gujarat Pollution Control Board,
C - 1/119/3, GIDC Phase II,
Narmadanagar, Bharuch - 392015.

2. State Environment Impact Assessment Authority (SEIAA),
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector 10 A,
Gandhinagar - 382 010.

Annexure XVII

c/c

Reliance
Industries Limited
CIN # L17110MH1973PLC019786

RIL-DMD/HSEF/ENV/2018/29

June 18, 2018

To,
Member Secretary
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10 A,
Gandhinagar – 382 010

Kind Attn: Sh. A V Shah, Sr. Environmental Engineer

Sub: Ambient Air Quality Monitoring Stations at RIL-DMD [Industry ID: 15565]
Ref.: (1) CTO /CCA order no. W-76082 dated 04/02/2016, valid upto 03/11/2020
(2) Environmental Clearance F. No. J-11011/39/2016-IA-II(I) dated 3rd April 2017

Dear Sir,

As you are aware, RIL-Dahej Manufacturing Division is a manufacturing site of the earstwhile IPCL - a "Navaratna" Public sector undertaking, which was acquired by Reliance Industries Limited in June 2002 and subsequently merged with itself, in September 2007. After merger, DMD site is expanded at regular interval after obtaining necessary approval from MoEF/SEIAA/ GPCB.

The Ambient Air Quality Monitoring is being carried at five locations within complex and 2 locations outside the complex; 1 at Jetty and 1 in nearby village, suggested based on dispersion modelling study since beginning.

As per General condition B (iii) of EC dated 3rd April 2017, granted by MoEF, stated that "The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated."

In this context, we had engaged M/s Environment Resource Management (ERM) to identify and suggest the locations for AAQM based on dispersion modeling study due to Expansion and Debottlenecking of RIL-DMD. Based on study, M/s ERM has suggested to relocate four AAQM stations and three will be at existing location. A copy of study report received from ERM is enclosed for your ready reference.

In compliance to the above referred condition of the Environment Clearance, we request you to kindly consider the locations for Ambient Air Quality Monitoring.

Thanking you,

Yours faithfully,
For Reliance Industries Limited

Anand Sutaria
Head - Environment

Cc:
The Regional Officer,
Gujarat Pollution Control Board,
C - 1/119/3, GIDC Phase II,
Narmada Nagar,
BHARUCH - 392015.

Annexure VII

Ambient Air Monitoring Locations Post Expansion & Debottlenecking: *Dahej Manufacturing Division (DMD), Dahej, Gujarat, India*

Reliance Industries Limited

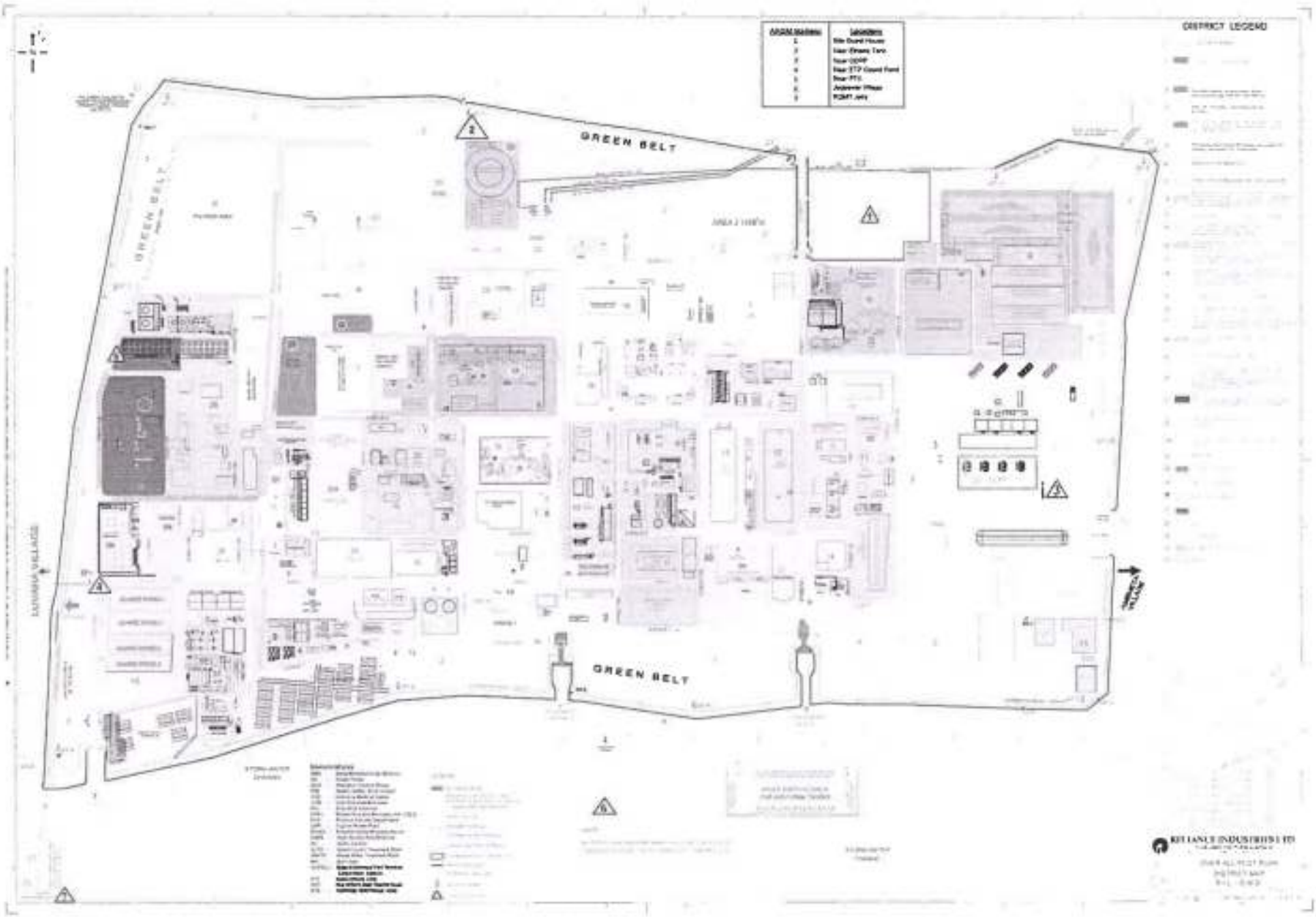
Report

January 2018

www.erm.com

The business of sustainability

ERM


GREEN BELT
GREEN BELT
GREEN BELT
DISTRICT LEGEND

Annexure XVIII

CCPP Boiler-2 Stack – Aspen Process Explorer

Reliance Industries Limited
Dahej Manufacturing Division

Aug -24.

LDAR LEVEL 1 | Frequency: Daily | Plant: VCM

DATE DD/MM/YYYY	Odour Y / N	Dripping Y / N	Hissing Sound Y / N	Icing Y / N	Fumes/ Vapour Y / N	Temp. Y / N	Any Other Y / N	If Yes, Give Detail of					REMARK	NAME & SIGN OF OPERATOR	NAME & SIGN OF ENGIN
								Section Name	Sub Section Name	Equipment Type (Pump,Compr	Sources ID number	Service Material			
01/08/2024	-	-	-	-	-	-	-	-	-	-	-	-	Note observation		
02/08/24	Y	-	-	-	-	-	-	LTC	LTC	P-113		waste water	P-113 Discharg Modify line leak		
03/08/2024	Y	-	-	-	-	-	-	HTC	HTC	P-461		caustic	P-461 P.I. leak		
05/08/2024	-	-	Y	-	-	-	Y Air	HTC	HTC	E-505		Air	E-505 LV-5162 AIR Tubing leakge		
06/08/24	-	Y	-	-	-	-	-	WW	WW	P-113 DIS line		Effluent water	P-113 DIS Modified line leak		
07/08/24	Y	Y	-	-	Y	-	-	LTC-2	LTC-2	P-101-AA		EDC	P-101-AA Seal pot line leak		
"	-	-	Y	-	-	-	-	B/L	D/L			Inst. Air	1" inst. Air line leak at B/L		
08/08/24	-	Y	-	-	-	-	-	WW	WW	P-111-B		EDC	P-111-B Seal leak		
"	Y	Y	-	-	-	-	-	LTC-1	LTC-1	P-104-B		EDC	P-104-A Seal Cooling line leak		
12/08/24	Y	Y	-	-	-	-	-	WW	WW	P-111-B		EDC	P-101-B Seal leak again		
13/08/24	Y	Y	-	-	-	-	-	LTC-2	LTC-2	P-804-A		EDC	P-804-A Vent line I/V DIS Flange leak		
	-	Y	-	-	-	-	-	B/L	D/L	-		P. water	Process cooler line leak near B/L		
14-8-24	-	Y	Y	-	-	-	-	V-2	V-2			Cooler	Scafety shower line leakage IN. V-2		
15/8/24	Y	-	-	-	Y	-	-	LTC-2	LTC2	V-101-A		Inert gas	V-101-A TOP Extract Manhole leak		
	Y	Y	-	-	-	-	-	LTC-2	LTC-2	P-806-B		EDC	P-806-B Seal leak		

Reliance Industries Limited
Dahej Manufacturing Division

Plant: VCM

LDAR - LEVEL - II | Frequency: Monthly | Month: August - 2024

Name of Person Monitoring: | Equipment used:

Sl No.	Monitoring Date	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	Concentration observed (%)	Date of Notification to Plant Maintenance	Status of leak (Attended/ S/D job, Inaccessible)	Date of monitoring after repair	Concentration after Repair (%)	Remark
1		Unit 1/5	LTC	LTC Reactor 1	GNP-VCM-LTC-R101	EDC/CL2	0%					
2		Unit 1/5	LTC	LTC Reactor 2	GNP-VCM-LTC-R101A	EDC/CL2	0%					
3		Unit 1/5	LTC	Exchanger Flange : Propylene inlet line Isolation valve upstream	GNP-VCM-LTC-E102	Propylene	0%					
4		Unit 1/5	LTC	Flange : Propylene outlet line Isolation valve upstream	GNP-VCM-LTC-E102	Propylene	0%					
5	1/8/24	Unit 1/5	LTC	Flange: Propylene inlet at Exchanger	GNP-VCM-LTC-E102	Propylene	0%	Ok	Ok	Ok	Ok	
6		Unit 1/5	LTC	Flange: Propylene outlet at Exchanger	GNP-VCM-LTC-E102	Propylene	0%					
7		Unit 1/5	LTC	Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102	Propylene	0%					
8		Unit 1/5	LTC	Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102	Propylene	0%					
9		Unit 1/5	LTC	Exchanger Flange : Propylene inlet line Isolation valve upstream	GNP-VCM-LTC-E102A	Propylene	0%					
10		Unit 1/5	LTC	Flange : Propylene outlet line Isolation valve upstream	GNP-VCM-LTC-E102A	Propylene	0%					
11		Unit 1/5	LTC	Flange: Propylene inlet at Exchanger	GNP-VCM-LTC-E102A	Propylene	0%					
12		Unit 1/5	LTC	Flange: Propylene outlet at Exchanger	GNP-VCM-LTC-E102A	Propylene	0%					
13		Unit 1/5	LTC	Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102A	Propylene	0%					
14		Unit 1/5	LTC	Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102A	Propylene	0%					
15		Unit 1/5	HTC	Dryer Flange: Ethylene purge line at bottom	GNP-VCM-HTC-D501A	Ethylene	0%					
16		Unit 1/5	HTC	Flange: purge line isolation valve upstream	GNP-VCM-HTC-D501A	Ethylene	0%					
17		Unit 1/5	HTC	Flange: purge line isolation valve downstream	GNP-VCM-HTC-D501A	Ethylene	0%					
18		Unit 1/5	HTC	Flange: Drain point at bottom	GNP-VCM-HTC-D501A	Ethylene	0%					
19		Unit 1/5	HTC	Flange: Manhole at side bottom	GNP-VCM-HTC-D501A	Ethylene	0%					
20		Unit 1/5	HTC	Flange: PSV 5221 upstream	GNP-VCM-HTC-D501A	Ethylene	0%	Ok	Ok	Ok	Ok	
21		Unit 1/5	HTC	Flange: Ethylene outlet line at dryer top	GNP-VCM-HTC-D501A	Ethylene	0%					
22		Unit 1/5	HTC	Flange: Ethylene outlet line spool upstreamat dryer top	GNP-VCM-HTC-D501A	Ethylene	0%					
23		Unit 1/5	HTC	Flange: Ethylene outlet line spool downstream at dryer top	GNP-VCM-HTC-D501A	Ethylene	0%					
24		Unit 1/5	HTC		GNP-VCM-HTC-D501A	Ethylene	0%					
25		Unit 1/5	HTC	Flange: PI point at vapour outlet line top	GNP-VCM-HTC-D501A	Ethylene	0%					
26	31/8/24	Unit 1/5	HTC	Flange: Hot nitrogen line isolation valve upstream at vapour line	GNP-VCM-HTC-D501A	Ethylene	0%					
27		Unit 1/5	HTC	Flange: Hot nitrogen line isolation valve downstream at vapour line	GNP-VCM-HTC-D501A	Ethylene	0%					
28		Unit 1/5	HTC	Flange: Manhole at side	GNP-VCM-HTC-D501A	Ethylene	0%					
29		Unit 1/5	HTC	Flange: TI point at bottom	GNP-VCM-HTC-D501A	Ethylene	0%					
30		Unit 1/5	HTC	Dryer Flange: Ethylene purge line at bottom	GNP-VCM-HTC-D501B	Ethylene	0%					
31		Unit 1/5	HTC	Flange: purge line isolation valve upstream	GNP-VCM-HTC-D501B	Ethylene	0%					
32		Unit 1/5	HTC	Flange: purge line isolation valve downstream	GNP-VCM-HTC-D501B	Ethylene	0%					
33		Unit 1/5	HTC	Flange: Drain point at bottom	GNP-VCM-HTC-D501B	Ethylene	0%					
34		Unit 1/5	HTC	Flange: Manhole at side bottom	GNP-VCM-HTC-D501B	Ethylene	0%					

Plant: VCM

LDAR - LEVEL - III | Frequency: Quarterly | Quarter: AMM - 2024

Name of Person Monitoring: | Equipment used:

Sl No.	Monitoring Date	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	Concentration observed (ppm / ppb)	Date of Notification to Plant Maintenance	Status of leak (Attended/ S/D job, Inaccessible)	Date of monitoring after repair	Concentration after Repair (ppm / ppb)	Remark
1		Unit 1/5	LTC	LTC Reactor 1	GNP-VCM-LTC-R101	EDC/Cl2						
2		Unit 1/5	LTC	LTC Reactor 2	GNP-VCM-LTC-R101A	EDC/Cl2						
3		Unit 1/5	LTC	Exchanger Flange : Propylene inlet line isolation valve upstream	GNP-VCM-LTC-E102	Propylene						
4				Flange : Propylene outlet line Isolation valve upstream	GNP-VCM-LTC-E102	Propylene						
5				Flange: Propylene inlet at Exchanger	GNP-VCM-LTC-E102	Propylene						
6				Flange: Propylene outlet at Exchanger	GNP-VCM-LTC-E102	Propylene						
7				Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102	Propylene						
8				Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102	Propylene						
9		Unit 1/5	LTC	Exchanger Flange : Propylene inlet line Isolation valve upstream	GNP-VCM-LTC-E102A	Propylene						
10				Flange : Propylene outlet line Isolation valve upstream	GNP-VCM-LTC-E102A	Propylene						
11				Flange: Propylene inlet at Exchanger	GNP-VCM-LTC-E102A	Propylene						
12				Flange: Propylene outlet at Exchanger	GNP-VCM-LTC-E102A	Propylene						
13				Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102A	Propylene						
14				Flange : PSV XXXX Upstream	GNP-VCM-LTC-E102A	Propylene						
15		Unit 1/5	HTC	Dryer Flange: Ethylene purge line at bottom	GNP-VCM-HTC-D501A	Ethylene						
16				Flange: purge line isolation valve upstream	GNP-VCM-HTC-D501A	Ethylene						
17				Flange: purge line isolation valve downstream	GNP-VCM-HTC-D501A	Ethylene						
18				Flange: Drain point at bottom	GNP-VCM-HTC-D501A	Ethylene						
19				Flange: Manhole at side bottom	GNP-VCM-HTC-D501A	Ethylene						
20				Flange: PSV 5221 upstream	GNP-VCM-HTC-D501A	Ethylene						
21				Flange: Ethylene outlet line at dryer top	GNP-VCM-HTC-D501A	Ethylene						
22				Flange: Ethylene outlet line spool upstreamat dryer top	GNP-VCM-HTC-D501A	Ethylene						
23				Flange: Ethylene outlet line spool downstream at dryer top	GNP-VCM-HTC-D501A	Ethylene						
24					GNP-VCM-HTC-D501A	Ethylene						
25				Flange: PI point at vapour outlet line top	GNP-VCM-HTC-D501A	Ethylene						
26				Flange: Hot nitrogen line isolation valve upstream at vapour line	GNP-VCM-HTC-D501A	Ethylene						
27				Flange: Hot nitrogen line isolation valve downstream at vapour line	GNP-VCM-HTC-D501A	Ethylene						
28				Flange: Manhole at side	GNP-VCM-HTC-D501A	Ethylene						
29				Flange: TI point at bottom	GNP-VCM-HTC-D501A	Ethylene						
30		Unit 1/5	HTC	Dryer Flange: Ethylene purge line at bottom	GNP-VCM-HTC-D501B	Ethylene						
31				Flange: purge line isolation valve upstream	GNP-VCM-HTC-D501B	Ethylene						
32				Flange: purge line isolation valve downstream	GNP-VCM-HTC-D501B	Ethylene						
33				Flange: Drain point at bottom	GNP-VCM-HTC-D501B	Ethylene						
34				Flange: Manhole at side bottom	GNP-VCM-HTC-D501B	Ethylene						
35				Flange: PSV 5221 upstream	GNP-VCM-HTC-D501B	Ethylene						
36				Flange: Ethylene outlet line at dryer top	GNP-VCM-HTC-D501B	Ethylene						
37				Flange: Ethylene outlet line spool upstreamat dryer top	GNP-VCM-HTC-D501B	Ethylene						
38				Flange: Ethylene outlet line spool downstream at dryer top	GNP-VCM-HTC-D501B	Ethylene						
39					GNP-VCM-HTC-D501B	Ethylene						
40				Flange: PI point at vapour outlet line top	GNP-VCM-HTC-D501B	Ethylene						
41				Flange: Hot nitrogen line isolation valve upstream at vapour line	GNP-VCM-HTC-D501B	Ethylene						
42				Flange: Hot nitrogen line isolation valve downstream at vapour line	GNP-VCM-HTC-D501B	Ethylene						
43				Flange: Manhole at side	GNP-VCM-HTC-D501B	Ethylene						
44				Flange: TI point at bottom	GNP-VCM-HTC-D501B	Ethylene						
45		Unit 1/5	HTC	Flange: Ethylene compressor inlet line isolation valve upstream	GNP-VCM-HTC-K501A	Ethylene/Cl2						
46				Flange: Ethylene compressor inlet line isolation valve downstream	GNP-VCM-HTC-K501A	Ethylene/Cl2						
47				Flange: Ethylene compressor outlet line isolation valve upstream	GNP-VCM-HTC-K501A	Ethylene/Cl2						
48				Flange: Ethylene compressor outlet line isolation valve downstream	GNP-VCM-HTC-K501A	Ethylene/Cl2						
49				Seal : Compressor seal	GNP-VCM-HTC-K501A	Ethylene/Cl2						
50		Unit 1/5	HTC	Flange: Ethylene compressor inlet line isolation valve upstream	GNP-VCM-HTC-K501B	Ethylene/Cl2						
51				Flange: Ethylene compressor inlet line isolation valve downstream	GNP-VCM-HTC-K501B	Ethylene/Cl2						
52				Flange: Ethylene compressor outlet line isolation valve upstream	GNP-VCM-HTC-K501B	Ethylene/Cl2						
53				Flange: Ethylene compressor outlet line isolation valve downstream	GNP-VCM-HTC-K501B	Ethylene/Cl2						
54				Seal : Compressor seal	GNP-VCM-HTC-K501B	Ethylene/Cl2						
55		Unit 1/5	HTC	HTC Reactor Flange: Chlorine gas inlet line isolation valve upstream	GNP-VCM-HTC-R501	EDC/Cl2						
56				Flange: Chlorine gas inlet line isolation valve downstream	GNP-VCM-HTC-R501	EDC/Cl2						
57				Flange: chlorine gas inlet line control valve u/s	GNP-VCM-HTC-R501	EDC/Cl2						
58				Flange: chlorine gas inlet line control valve d/s	GNP-VCM-HTC-R501	EDC/Cl2						
59				Gland: Control valve	GNP-VCM-HTC-R501	EDC/Cl2						
60				Flange: Ehtylene inlet line isolation valve upstream	GNP-VCM-HTC-R501	EDC/Cl2						
61				Flange: Ethylene inlet line isolation valve downstream	GNP-VCM-HTC-R501	EDC/Cl2						
62				Flange: Ethyleneinlet line control valve u/s	GNP-VCM-HTC-R501	EDC/Cl2						
63				Flange: Ethylene inlet line control valve d/s	GNP-VCM-HTC-R501	EDC/Cl2						
64				Gland: Control valve	GNP-VCM-HTC-R501	EDC/Cl2						
65				Flange: Vapour outlet line at top	GNP-VCM-HTC-R501	EDC/Cl2						
66				Flange: Isolation valve upstream	GNP-VCM-HTC-R501	EDC/Cl2						
67				Flange: Isolation valve downstream	GNP-VCM-HTC-R501	EDC/Cl2						
68				Flange: PSV XXXXX upstrem	GNP-VCM-HTC-R501	EDC/Cl2						
69				Flange: PSV XXXXX Isolation valve u/s	GNP-VCM-HTC-R501	EDC/Cl2						
70				Flange: PSV XXXXX Isolation valve d/s	GNP-VCM-HTC-R501	EDC/Cl2						
71				Flange: EDC inlet line isolation valve at bottom u/s	GNP-VCM-HTC-R501	EDC/Cl2						
72				Flange: EDC inlet line isolation valve d/s	GNP-VCM-HTC-R501	EDC/Cl2						
73				Flange: outlet line isolation valve at bottom	GNP-VCM-HTC-R501	EDC/Cl2						
74				Flange: Manhole at Bottom	GNP-VCM-HTC-R501	EDC/Cl2						
75		Unit 1/5	HTC	Flange : Exchanger Propylene/EDC inlet line Isolation valve upstream	GNP-VCM-HTC-E505	Propylene/EDC						
76				Flange : Propylene/EDC outlet line Isolation valve upstream	GNP-VCM-HTC-E505	Propylene/EDC						
77				Flange: Propylene/EDC inlet at Exchanger	GNP-VCM-HTC-E505	Propylene/EDC						
78				Flange: Propylene/EDC outlet at Exchanger	GNP-VCM-HTC-E505	Propylene/EDC						
79				Flange : PSV XXXX Upstream	GNP-VCM-HTC-E505	Propylene/EDC						
80				Flange : PSV XXXX Upstream	GNP-VCM-HTC-E505	Propylene/EDC						
81		Unit 2	EDC Cracking / Purification	Flange : Exchanger Ethylene inlet line Isolation valve upstream	GNP-VCM-EDC-LN1-E211	Ethylene						
82				Flange : Ethyleneoutlet line Isolation valve upstream	GNP-VCM-EDC-LN1-E211	Ethylene						
83				Flange: Ethylene inlet at Exchanger	GNP-VCM-EDC-LN1-E211	Ethylene						
84				Flange: Ethylene outlet at Exchanger	GNP-VCM-EDC-LN1-E211	Ethylene						
85				Flange : PSV XXXX Upstream	GNP-VCM-EDC-LN1-E211	Ethylene						
86				Flange : PSV XXXX Upstream	GNP-VCM-EDC-LN1-E211	Ethylene						
87		Unit 2	EDC Cracking / Purification	EDC Furnace1 outlet coil	GNP-VCM-EDC-LN1-H210	EDC/HCL/VCM						
88		Unit 2	EDC Cracking / Purification	EDC Furnace2 outlet coil	GNP-VCM-EDC-LN2-H220	EDC/HCL/VCM						
89		Unit 2	EDC Cracking / Purification	EDC Furnace3 outlet coil	GNP-VCM-EDC-LN3-H220	EDC/HCL/VCM						
90		Unit 2	EDC Cracking / Purification	Flange : Exchanger Propylene/EDC inlet line Isolation valve upstream	GNP-VCM-EDC-E232	Propylene/EDC						
91				Flange : Propylene/EDC outlet line Isolation valve upstream	GNP-VCM-EDC-E232	Propylene/EDC						
92				Flange: Propylene/EDC inlet at Exchanger	GNP-VCM-EDC-E232	Propylene/EDC						
93				Flange: Propylene/EDC outlet at Exchanger	GNP-VCM-EDC-E232	Propylene/EDC						
94				Flange : PSV XXXX Upstream	GNP-VCM-EDC-E232	Propylene/EDC						
				Flange : PSV XXXX Upstream	GNP-VCM-EDC-E232	Propylene/EDC						
		Unit 2	EDC Cracking / Purification	Flange : Exchanger Propylene/EDC inlet line Isolation valve upstream	GNP-VCM-EDC-E243	Propylene/HCL						
				Flange : Propylene/EDC outlet line Isolation valve upstream	GNP-VCM-EDC-E243	Propylene/HCL						
				Flange: Propylene/EDC inlet at Exchanger	GNP-VCM-EDC-E243	Propylene/HCL						
				Flange: Propylene/EDC outlet at Exchanger	GNP-VCM-EDC-E243	Propylene/HCL						
				Flange : PSV XXXX Upstream	GNP-VCM-EDC-E243	Propylene/HCL						
				Flange : PSV XXXX Upstream	GNP-VCM-EDC-E243	Propylene/HCL						
		Unit 3	Oxy	Flange: 2" PSV upstream line	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: Vapour outlet line flange (At Top)	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange : 32" Column manhole	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: Column top PI upstream	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: Column bottom PI Upstream	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: Reflux inlet line	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: Crude EDC inlet line at Top	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: LT flange HP side	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: LT flange LP side	GNP-VCM-OX1-C301	Ethylene/EDC						
				Flange: Column bottom line	GNP-VCM-OX1-C301	Ethylene/EDC						
		Unit 3	Oxy	Dryer Flange: Ethylene purge line at bottom	GNP-VCM-OX1-D301A	Ethylene						
				Flange: purge line isolation valve upstream	GNP-VCM-OX1-D301A	Ethylene						
				Flange: purge line isolation valve downstream	GNP-VCM-OX1-D301A	Ethylene						
				Flange: Drain line at bottom	GNP-VCM-OX1-D301A	Ethylene						
				Flange: Manhole at side bottom	GNP-VCM-OX1-D301A	Ethylene						
				Flange: PSV 3584 upstream	GNP-VCM-OX1-D301A	Ethylene						
				Flange: Ethylene outlet line at dryer top	GNP-VCM-OX1-D301A	Ethylene						
				Flange: Outlet line isolation valve upstream	GNP-VCM-OX1-D301A	Ethylene						
				Flange: Outlet line isolation valve downstream	GNP-VCM-OX1-D301A	Ethylene						
				Flange: PI point at vapour outlet line top	GNP-VCM-OX1-D301A	Ethylene						
				Flange: E311 line isolation valve upstream at vapour line	GNP-VCM-OX1-D301A	Ethylene						
				Flange: E311 line isolation valve downstream at vapour line	GNP-VCM-OX1-D301A	Ethylene						
				Flange: Manhole at side	GNP-VCM-OX1-D301A	Ethylene						
				Flange: TI point at bottom	GNP-VCM-OX1-D301A	Ethylene						
		Unit 3	Oxy	Dryer Flange: Ethylene purge line at bottom	GNP-VCM-OX1-D301B	Ethylene						
				Flange: purge line isolation valve upstream	GNP-VCM-OX1-D301B	Ethylene						
				Flange: purge line isolation valve downstream	GNP-VCM-OX1-D301B	Ethylene						
				Flange: Drain line at bottom	GNP-VCM-OX1-D301B	Ethylene						
				Flange: Manhole at side bottom	GNP-VCM-OX1-D301B	Ethylene						
				Flange: PSV 3584 upstream	GNP-VCM-OX1-D301B	Ethylene						
				Flange: Ethylene outlet line at dryer top	GNP-VCM-OX1-D301B	Ethylene						
				Flange: Outlet line isolation valve upstream	GNP-VCM-OX1-D301B	Ethylene						
				Flange: Outlet line isolation valve downstream	GNP-VCM-OX1-D301B	Ethylene						
				Flange: PI point at vapour outlet line top	GNP-VCM-OX1-D301B	Ethylene						
				Flange: E311 line isolation valve upstream at vapour line	GNP-VCM-OX1-D301B	Ethylene						
				Flange: E311 line isolation valve downstream at vapour line	GNP-VCM-OX1-D301B	Ethylene						
				Flange: Manhole at side	GNP-VCM-OX1-D301B	Ethylene						

Annexure XX

Reliance Industries Limited
Dahej Manufacturing Division

LDAR LEVEL 1 | **Frequency: Daily** | **Plant:** PTD (Sept : 2024)

DATE DD/MM/YYYY	Odour Y / N	Dripping Y / N	Hissing Sound Y / N	Icing Y / N	Fumes/ Vapour Y / N	Temp. Y / N	Any Other Y / N	If Yes, Give Detail of: Service / Compound	If Yes, Give Detail of: Line / Equipment Tag / other detail	REMARK	NAME & SIGN OF OPERATOR	NAME & SIGN OF ENGINEER
01/09/24	No	No	N	N	N	N	N	—	—	OK	ACR	
02/09/24	N	N	N	N	N	N	N	—	—	OK	KPR	
03/09/24	N	N	N	N	N	N	N	—	—	OK	DAM	
4/9/24	N	N	N	N	N	N	N	MEK	P-42B	Ok. —	LGP	
5/9/24	N	N	N	N	N	N	N	propylene	P-23 B/BOG line	ok —	LGP	
6/09/24	N	N	N	N	N	N	N	Bony	P-23 A/B	OK	DAM	
7/9/24	N	N	N	N	N	N	N	—	—	OK	KBB	
8/9/24	N	N	N	N	N	N	N	propylene	BOG line	OK	LGP	
9/9/24	N	N	N	N	N	N	N	propylene	BOG line	OK	DAM	
10/9/24	N	N	N	N	N	N	N	—	—	OK	RBB	
11/9/24	N	N	N	N	N	N	N	—	—	OK	ACR	
12/9/24	N	N	N	N	N	N	N	propylene	BOG line	OK	ACK	
13/9/24	N	N	N	N	N	N	N	propylene	BOG line	OK	LGP	
14/9/24	N	N	N	N	N	N	N		—	OK	RDP	
15/09/24	N	N	N	N	N	N	N	Naphtha	Pump	OK	DAM	

Revision 2 : dated 20/10/2012 by Parakram Adams

Reliance Industries Limited
Dahej Manufacturing Division

Plant: PTD

LDAR - LEVEL - II | **Frequency: Monthly** | **Month:** Aug-2024.

Name of Person Monitoring: | **Equipment used:** LEL meter

Sl No.	Monitoring Date	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	P&ID Number	Concentration observed (%)	Date of Notification to Plant Maintenance	Status of leak (Attended/ S/D job, Inaccessible)	Date of monitoring after repair	Concentration after Repair (%)	Remark
1	23.08.2024	PTD 2	EDC unloading Gantry	Flange, Unloading arms 002A, Isolation valve Up stream	3'-p-092-00801-RA1A-N	EDC	10007-G41-GUU092-008	0					
2	23.08.2024	PTD 2	EDC unloading Gantry	Flange Unloading arms 002A, Isolation valve down stream	3'-p-092-00801-RA1A-N	EDC	10007-G41-GUU092-008	0					
3	23.08.2024	PTD 2	EDC unloading Gantry	Flange, Unloading arms 002B, Isolation valve Up stream	3'-p-092-00802-RA1A-N	EDC	10007-G41-GUU092-008	0					
4	23.08.2024	PTD 2	EDC unloading Gantry	Flange, Unloading arms 002B, Isolation valve Down stream	3'-p-092-00802-RA1A-N	EDC	10007-G41-GUU092-008	0					
5	23.08.2024	PTD 2	EDC unloading Gantry	Flange, Unloading arms 002A, Isolation valve Up stream	3'-p-092-00801-RA1A-N	EDC	10007-G41-GUU092-008	0					
6	23.08.2024	PTD 2	EDC unloading Gantry	Flange Unloading arms 002A, Isolation valve down stream	3'-p-092-00801-RA1A-N	EDC	10007-G41-GUU092-008	0					
7	23.08.2024	PTD 2	EDC unloading Gantry	Flange, Unloading arms 002B, Isolation valve Up stream	3'-p-092-00802-RA1A-N	EDC	10007-G41-GUU092-008	0					
8	23.08.2024	PTD 2	EDC unloading Gantry	Flange, Unloading arms 002B, Isolation valve Down stream	3'-p-092-00802-RA1A-N	EDC	10007-G41-GUU092-008	0					
9	23.08.2024	PTD 2	EDC unloading Gantry	Flange, EDC pump suction Header, Isolation valve Up stream	3'-p-092-00803-RA1A-N	EDC	10007-G41-GUU092-008	0					
10	23.08.2024	PTD 2	EDC unloading Gantry	Flange, EDC pump suction Header, Isolation valve Down stream	3'-p-092-00803-RA1A-N	EDC	10007-G41-GUU092-008	0					
11	23.08.2024	PTD 2	EDC unloading Gantry	Flange, EDC pump suction Header, Isolation valve Up stream	3'-p-092-00803-RA1A-N	EDC	10007-G41-GUU092-008	0					
12	23.08.2024	PTD 2	EDC unloading Gantry	Flange, EDC pump suction Header, Isolation valve Down stream	3'-p-092-00803-RA1A-N	EDC	10007-G41-GUU092-008	0					
13	23.08.2024	PTD 2	EDC unloading Gantry	Flange, EDC pump suction Header,end blind	3'-p-092-00803-RA1A-N	EDC	10007-G41-GUU092-008	0					
14	23.08.2024	PTD 2	EDC unloading Gantry	Flange, EDC pump suction Header,end blind	3'-p-092-00803-RA1A-N	EDC	10007-G41-GUU092-008	0					
15	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53A Pump stainer, Isolation valve UP stream	3'-p-092-00804-RA1A-N	EDC	10007-G41-GUU092-008	0					
16	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53A Pump stainer, Isolation valve Down stream	3'-p-092-00807-RA1A-N	EDC	10007-G41-GUU092-008	0					
17	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53B Pump stainer, Isolation valve UP stream	3'-p-092-00805-RA1A-N	EDC	10007-G41-GUU092-008	0					
18	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53B Pump stainer, Isolation valve Down stream	3'-p-092-00808-RA1A-N	EDC	10007-G41-GUU092-008	0					
19	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53CPump stainer, Isolation valve UP stream	3'-p-092-00806-RA1A-N	EDC	10007-G41-GUU092-008	0					
20	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53C Pump stainer, Isolation valve Down stream	3'-p-092-00809-RA1A-N	EDC	10007-G41-GUU092-008	0					
21	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53A Pump Suction , Isolation valve UP stream	3'-p-092-00807-RA1A-N	EDC	10007-G41-GUU092-008	0					
22	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53A Pump Suction, Isolation valve Down stream	3'-p-092-00807-RA1A-N	EDC	10007-G41-GUU092-008	0					
23	23.08.2024	PTD 2	EDC unloading Gantry	Flange, P53B Pump Suction, Isolation valve UP stream	3'-p-092-00808-RA1A-N	EDC	10007-G41-GUU092-008	0					

Hitesh Patil 2/24/11

Reliance Industries Limited
Dahej Manufacturing Division

Plant: PTD

LDAR - LEVEL - III					Frequency: Quarterly					Quarter: July-2024		
Name of Person Monitoring: Rikin Kaptan										Equipment used: VOC meter		
Sl No.	Monitoring Date	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	Concentration observed (ppm/ppb)	Date of Notification to Plant Maintenance	Status of leak (Attended/ S/D job, Inaccessible)	Date of monitoring after repair	Concentration after Repair (ppm/ppb)	Remark
1		PHASE 2	P-8A	Flange - Pump suction flange	6"P-1709-A1A-IT	MIX OIL	0					
2		PHASE 2	P-8A	Flange - suction I/V Downstream	6"P-1709-A1A-IT	MIX OIL	0					
3		PHASE 2	P-8A	Flange - suction I/V Upstream	6"P-1709-A1A-IT	MIX OIL	0					
4		PHASE 2	P-8A	Flange - pump Discharge flange	3"P-1711-A1A-IT	MIX OIL	0					
5		PHASE 2	P-8A	Flange - Dischage I/V Downstream	3"P-1711-A1A-IT	MIX OIL	0					
6		PHASE 2	P-8A	Flange - Dischage I/V Upstream	3"P-1711-A1A-IT	MIX OIL	0					
7		PHASE 2	P-8A	Flange - NRV Downstream	3"P-1711-A1A-IT	MIX OIL	0					
8		PHASE 2	P-8A	Flange - NRV Upstream	3"P-1711-A1A-IT	MIX OIL	0					
9		PHASE 2	P-8A	Flange - Dischage PG downstream	PG - 1701	MIX OIL	0					
10		PHASE 2	P-8A	Flange - Dischage PG Upstream	PG - 1702	MIX OIL	0					
11	01/07/24	PHASE 2	P-8B	Flange - Pump suction flange	6"P-1710-A1A-IT	MIX OIL	0					
12		PHASE 2	P-8B	Flange - suction I/V Downstream	6"P-1710-A1A-IT	MIX OIL	0					
13		PHASE 2	P-8B	Flange - suction I/V Upstream	6"P-1710-A1A-IT	MIX OIL	0					
14		PHASE 2	P-8B	Flange - Pump discharge flange	3"P-1712-A1A-IT	MIX OIL	0					
15		PHASE 2	P-8B	Flange - 1st Dischage I/V Downstream	3"P-1712-A1A-IT	MIX OIL	0					
16		PHASE 2	P-8B	Flange - 1st Dischage I/V Upstream	3"P-1712-A1A-IT	MIX OIL	0					
17		PHASE 2	P-8B	Flange - NRV Downstream	3"P-1712-A1A-IT	MIX OIL	0					
18		PHASE 2	P-8B	Flange - NRV Upstream	3"P-1712-A1A-IT	MIX OIL	0					
19		PHASE 2	P-8B	Flange - Dischage PG Downstream	PG - 1702	MIX OIL	0					
20		PHASE 2	P-8B	Flange - Dischage PG Upstream	PG - 1702	MIX OIL	0					
21		PHASE 2	P-8 A/B Ciculation Line	Flange - Circulation I/V Downstream(Pump Side)	2"P-11-1714-A1A-IT	MIX OIL	0					
22		PHASE 2	P-8 A/B Ciculation Line	Flange - Circulation I/V Downstream(Pump Side)	2"P-11-1714-A1A-IT	MIX OIL	0					
23		PHASE 2	P-8 A/B Ciculation Line	Flange - 1st Circulation I/V Downstream	2"P-11-1714-A1A-IT	MIX OIL	0					
24		PHASE 2	P-8 A/B Ciculation Line	Flange - 1st Circulation I/V UPstream	2"P-11-1714-A1A-IT	MIX OIL	0					

Annexure XXI

List of Alarms in DMD				
S/N	PLANT/ TYPE OF ALARM	FIRE	LEL	TOXIC
		Instld. Qty	Instld. Qty	Instld. Qty
1	PTA 5	770	77	65
2	PTA 6	382	20	45
3	PET 3	287	--	--
4	ETP 3	200	10	3
5	UB	419	29	11
6	CPP 1	875	16	--
7	CPP 2	177	33	--
8	CPP 3	211	19	--
9	CCPP	973	128	70
10	GCU	308	167	4
11	EPRU	309	37	--
12	OSBL	336	78	--
13	ETHANE	290	87	4
14	JETTY	25	6	--
15	EOEG	256	30	--
16	HDPE 1	255	23	--
17	HDPE 2	90	27	--
18	EVA	97	41	--
19	IOP	166	7	1
20	PTD 1	192	56	--
21	VCM	290	188	16
22	PVC	350	68	--
23	DM	108	6	--
24	CA	408	25	30
25	UFRO	73	4	2
26	HSEF	104	--	--
27	ADMIN BLD	56	--	--
Total		8007	1182	251

Annexure XXII

Photograph of Flare

Annexure XXIII

Diagram & Schematic Plan of Vapour Recovery Unit

Annexure XXIV

AIR POLLUTION CONTROL MEASURES

Air Pollution Control measures installed at each flue gas stack is mentioned below:

Sr. No	Stack attached to	Stack height (m)	Stack Dia (m)	Parameter	Permissible Limit	Air Pollution Control Equipment
[A]	**Gas Cracker Unit (GCU Plant)**					
01	Furnace H-10	38	1.115	Particulate matter SO_2 NOx	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid) 50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Sulphur Fuel Low NOx Burner
02	Furnace H-11	38	1.115			
03	Furnace H-12	38	1.115			
04	Furnace H-13	38	1.115			
05	Furnace H-14	38	1.115			
[B]	**Vinyl Chloride Monomer (VCM) Plant**					
06	EDC Furnace H- 210	60	1.4	Particulate matter SO_2 NOx	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid) 50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Sulphur Fuel Low NOx Burner
07	EDC Furnace H- 220	60	1.4			
08	EDC Furnace H- 1220	75	1.4			
[C]	**Captive Power Plant I (CPP I Plant)** **1 GT with 1 HRSG, 2 UB, 1 STG)**					
09	Common Stack 1	80	5.46	Particulate matter SO_2 NOx	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid) 50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Sulphur Fuel, Steam Injection in Gas Turbine to reduce NOx emissions, Low Nox burners

[D]	**CPP II Plant (2 GT, 2 HRSG)**					
10	Common Stack 1	100	3.6	Particulate matter SO_2 NOx	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid) 50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Sulphur Fuel, Water Injection in Gas Turbine to reduce NOx Emissions, Low NOx burners
11	Common Stack 2	100	3.6			
[E]	**CPP III Plant (2 UB, 1 HRSG, 2 GT, 1 STG)**					
12	UB3	60	2.6			
13	UB4	60	2.6			
14	HRSG 4	60	3.2			
[F]	**Polyethylene Terephthalate Plant (PET Plant)**					
15	HTM Heater A	60	1.20	Particulate matter SO_2 NOx	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid) 50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Sulphur fuel, Low NOx burners,
16	HTM Heater B	60	1.20			
17	HTM Heater C	60	1.20			
18	HTM Heater D	60	1.20			
[G]	**Coal based Captive Co-generation Power Plant (CCPP)**					
19	Boiler 1	220	3.7	Particulate matter SO_2 NOx	50 mg/Nm3 600 mg/Nm3 300 mg/Nm3	Dust-trapping through Electrostatic Precipitator (ESP).
20	Boiler 2	220	3.7			
21	Boiler 3	220	3.7			
22	Boiler 4	220	3.7			

Process emissions stacks:

Sr. No	Stack attached to	Stack height in meters	Stack Dia (m)	Parameter	Permissible Limit	Air Pollution Control Equipment
[A]	**Chlor- Alkali Plant**					
01	Hypo Unit	30	0.35	Cl_2 HCl	09 mg/Nm3 20 mg/Nm3	Caustic Scrubber (2 stage)
02	HCL Synthesis Unit	30	0.08	Cl_2 HCl	09 mg/Nm3 20 mg/Nm3	DM Water & Caustic Scrubber
[B]	**VCM Plant**					
03	Incinerator PK701	65	0.6	Particulate matter SO_2 NOx HC CO Cl_2 HCl VCM	150 mg/Nm3 40 mg/Nm3 25 mg/Nm3 15 mg/Nm3 150 mg/Nm3 10 mg/Nm3 30 mg/Nm3 6.6 mg/Nm3	DM Water & Caustic Scrubber
04	Incinerator PK702	65	0.6			
05	VCM Vent Scrubber*	30	0.9	Cl_2 HCl HC	10 mg/Nm3 30 mg/Nm3 15 mg/Nm3	Water / Caustic Scrubber
[C]	**PVC Plant**					
06	PVC Dryer (1H1)	21	1.3	Particulate matter SO_2 NOx CO VCM	150 mg/Nm3 100 ppm 50 ppm 150 mg/Nm3 6.6 mg/Nm3	Cyclone Separator & Water Scrubber
07	PVC Dryer (1H2)	21	1.3			
[D]	**PTA 5 Plant**					
08	Off-gas Scrubber Vent D5-172	51.7	2.5	Particulate matter SO_2 NOx	150 mg/Nm3 40 mg/Nm3 25 mg/Nm3	Hydrosonic Scrubber followed by cyclone separator
09	Atmospheric Scrubber D5-508	53.2	0.9			
10	Vent Scrubber (F5-1615) Stream	44.9	1.1			
[E]	**PTA 6 Plant**					
11	Off-gas Scrubber Vent D6-172	51.7	2.5	Particulate matter	150 mg/Nm3	Hydrosonic Scrubber

12	Atmospheric Scrubber D6-508	53.2	0.9	SO_2	40 mg/Nm3	followed by cyclone separator
13	Vent Scrubber (F6-1615) Stream	44.9	1.1	NOx	25 mg/Nm3	
* Process vent is attached to VCM vent scrubber which is provided as part of emergency pressure release system.						

Annexure XXV

Photographs of Effluent Treatment Plant

AERATION TANKS

MEDIA FILTRATION SYSTEM

ASP Tank

MBR Aeration Tank

Annexure XXVI

Photographs of RO Plant

Annexure XXVII

IN-GJ99784470014129V

INDIA NON JUDICIAL

Government of Gujarat

Certificate of Stamp Duty

सत्यमेव जयते

Certificate No.	:	**IN-GJ99784470014129V**
Certificate Issued Date	:	30-Jan-2023 02:26 PM
Account Reference	:	IMPACC (AC)/ gj13109411/ BHARUCH/ GJ-BH
Unique Doc. Reference	:	SUBIN-GJGJ13109411271994540054 33V
Purchased by	:	NAITIK MATHIKIYA
Description of Document	:	Article 5(h) Agreement (not otherwise provided for)
Description	:	UNDERTAKING
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	RELIANCE INDUSTRIES LTD
Second Party	:	GIDC
Stamp Duty Paid By	:	RELIANCE INDUSTRIES LTD
Stamp Duty Amount(Rs.)	:	300 (Three Hundred only)

MRS. BINA P. MODI
ADVOCATE & NOTARY
BHARUCH (GUJ.)
(GOVT. OF INDIA)
REGD. NO.NTR / 21284 / 2020
SR. No.
DATE 270/2023
31 JAN 2023

0023828810

Statutory Alert:
1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

Water Reservation for the Financial Year 2023-2024

We, Reliance Industries Limited-Dahej hereby wish to reserve the quantity of water to be booked with Gujarat Industrial Development Corporation, Bharuch for year 2023-2024.

Details are as below:

Sr. No.	Name of Industry with Plot No.	Ultimate Water demand as per GIDC Agreement	Water Quantity Booked in Last Financial Year 2022-23	Reservation required of Water Quantity for Financial Year 2023-24 (01/04/2023 to 31/03/2024)
1	Reliance Industries Limited, Plot No No:1, Dahej-I Estate, Dahej	8 MGD	8 MGD	8 MGD

Our reservation quantity will not change throughout the year (From 1st April 2023 to 31st March 2024) and will follow minimum (75%) maximum (125%) off take rules of the irrigation department and the agreement made between GIDC & RIL.

1. "BORE IS NOT DRILLED IN THE PREMISES ALLOWED TO US. IF BORE IS FOUND ON INSPECTION ON OUR ALLOTED PREMISES, LEGAL ACTION WHAT EVER TAKEN BY GIDC, SHALL BE BINDING TO US. WE SHALL SUBMIT DECLARATION IN SUBJECT MATTER EVERY YEAR ".

Our present GPCB consent is enclosed here with duly attested bearing No: GPCB/BRCH/CCA-717(20)/ID-15565/089234 dtd. 25/11/2022, which shows the restriction to use the quantity of water as 1,38,700 KL/day and quantity of effluent as 51,002 KL/day. The GPCB consent is valid up to 03/11/2026 and failing which reservation quantity shall be considered as "Zero".

We assure to adhere to the consented "quantity of water" and "quantity for effluent "

Place: Dahej
Date: 30.01.2023

Sign & Seal of Authorized Person

Contact Person: Mr. Anis Desai
Designation: Sr. General Manager-Corporate Affairs
Mobile No: 76007-46683
Mail ID: anis.desai@ril.com
Telephone: 02641-353934

Solemny Affirmed Signed
Declared Before Me

MRS. BINA P. MODI
ADVOCATE & NOTARY
(Govt. Of India)
REGD No. NTR/21284/2020
Mo 9925096577

31 JAN 2023

Annexure XXVIII

Photograph of Rain Water Harvesting Pond

Annexure XXIX

Photographs of Green Belt

Annexure XXX

Photographs of Facilities at Occupational Health Centre

NABL Accredation Certificates

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

MEDICAL LABORATORY, OCCUPATIONAL HEALTH CENTRE, RELIANCE INDUSTRIES LIMITED

has been assessed and accredited in accordance with the standard

ISO 15189:2012

"Medical laboratories - Requirements for quality and competence"

for its facilities at

DAHEJ MANUFACTURING DIVISION, DAHEJ, BHARUCH, GUJARAT, INDIA

in the field of

Medical Testing

Certificate Number: MC-2095

Issue Date: 23/04/2024 Valid Until: 22/04/2026

In view of the transition deadline for ISO 15189:2022, the validity of this accreditation certificate will cease on 31.12.2025.

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: RELIANCE INDUSTRIES LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Hospitals & Healthcare Providers

(Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Occupational Health Centre

Reliance Industries Limited

Dahej Manufacturing Division, Jir and Plant Dahej

Bharuch - 392130, Gujarat

Certificate No. C-2819-0043

Valid from : December 02, 2021

Valid thru : December 01, 2024

Clinical Services (Only OPD)

- General Practitioner

Diagnostic Services

- X-Ray
- ECG
- Audiometry
- Pulmonary Function Tests

Laboratory Services

- Sample Collection
- Clinical Bio-chemistry
- Clinical Pathology
- Haematology

Professional Allied to Medicine

- Ambulance
- Counselling
- Dietetics
- Nursing
- Procedures
- Vaccinations

NABH

Dr. Atul Mohan Kochhar
Chief Executive Officer

Checks conducted at the time of Fitness Examination

Fitness Examination Parameter	Pre-Employment Medical Examination	Periodic Medical Examination
Physician Check-up	√	√
Eye – Check-up	√	√
X-ray	√	√
ECG	√	√
Urine Routine	√	√
CBC+ESR	√	√
Blood Group	√	√
Random Blood Sugar	√	√

Annexure XXXI

Occupational Health Centre

Reliance Industries Limited,Dahej Manufacturing Division,Ta –Vagra,Dahej,

To	[redacted]	**Date of Examination**	**30 Aug 2024**
Dept	**MFG DMD People & Infra - MS**	**Type of Examination**	**Periodic**
Emp No	[redacted]	**Case No**	**1462569**
Phone(O/M)	[redacted]	**Birth Date**	**18 Oct 1988**
Cadre	[redacted]	**Join Date**	**02 May 2018**
Location	**Occupational Health Center - DMD**	**Ext. Exam Date**	

Medical Examination Report

General Profile

Height	186	cms
Weight / BMI	88	Kg/ **25.35**
Blood Group	B+	
Blood Pressure(SI)	110	mm/Hg
Blood Pressure(DI)	70	mm/Hg
Allergy		

Vision Profile

	Without Correction		With Correction	
	R. Eye	L. Eye	R. Eye	L. Eye
Distant			6/6	6/6
Near	N 6	N 6		
Colour Vision	Normal			

Lipid Profile

S. Cholestrol	162	mg/dl
S. Triglycerides	74	mg/dl
HDL	45	mg/dl
LDL	102	mg/dl
VLDL	15	mg/dl
LDL/HDL Ratio	2.3	
Cholestrol/HDL Ratio	3.6	

Basic Profile

HB	15.1	gm/dl	Neutrophils	51
ESR	7	mm/1st Hr	Lymhocytes	30
Total WBC	5290	cells/cumm	Mid Cells	
Total RBC	5.24	M/Cumm	Eosinophilis	6
Platlet Count	228000	cells/cumm	Monocytes	12
Blood Sugar(F)	98	mg/dl	Basophils	1
Blood Sugar(PP)		mg/dl	Mean Blood Glucose	101
Blood Sugar(R)		mg/dl	Glycosylated Hb %	5.1

Pulmonary Function

FVC		Litres
FEV1		Litres
PEFR	811	Litres
FEV1/FVC		Litres
Fit for Respirator Use	Yes	

Kidney Profile

S. Creatinine	0.97	mg/dl
BUN	5.61	mg/dl
Blood Urea	12	mg/dl
S. Uric Acid	7.7	mg/dl
eGFR	100.01	mL/min/1.73m2

Liver Profile

S. Billirubin	0.7	mg/dl
S. Proteins		gm/dl
S. Alk. Phosphate	90	IU/L
S. GOT	20	IU/L
S. GPT	21	IU/L
GGT	12	IU/L

Special Investigation

S. Calcium - **ND** , Prostate Specific Antigen - **ND** , Urine for Micro Albumin - **ND** , TSH - **ND** , TMT - **ND** , ECHO - **ND** , USG Abdomen - **ND**

Urine Report

Color-**Colorless**, Reaction-**5.5**, EpithelialCells-**0-1**, RBC-**Nil**, PusCell-**0-2**, Crystals-**Nil**, Casts-**Nil**, Protein-**Nil**, Sugar-**Nil**, Acetone- , ketones-**Nil**, Urobilinogen-**Normal**

Clinical Exam		Other Investigation
X-Ray	Not Advised	Health Score 94
ECG	Normal	
Audiometry	Not Done	
Health Status	Fit For All Work	
Recommendation		

* WNL = Within Normal Limit * NAD = No Abnormality Detected * ND = Not Done Release On : 30 Aug 2024

Normal Range

Test	Biological Reference Range
Fasting Blood Sugar	70 - 100
Glycosylated Hb	Normal < 5.7%, Pre-diabetic 5.7 – 6.4%, Diabetic > 6.5%
Mean Blood Glucose	Normal < 117 mg/dL, Pre-diabetic 117 - 139 mg/dL, Diabetic > 140 mg/dL - Normal: <117, IGT: 117-139, DM: >140
Basophil %	0 - 1
Eosinophil %	1 - 6
Haemoglobin	13 - 17
Lymphocyte %	20 - 40
Monocyte	2 - 10
Neutrophil %	40 - 80
Platelet count	150000 - 400000
RBC Count	4.5 - 5.5
Total WBC Count	4000 - 10000
ESR	0 - 15
SGOT	upto 40
SGPT	upto 41
Total Bilirubin	0.1 - 1.2
Alkaline Phosphatase	40 - 129
Gama G.T.	8 - 61
Chol/HDL Ratio	< 5.5
Cholesterol	up to 200 - <200
HDL Cholesterol	40 - 60
LDL Cholesterol	110 - 160
LDL/HDL Ratio	< 3.5
Triglyceride	0 to 150 - <150
VLDL Cholesterol	5 - 35
eGFR (estimated Glomerular Filtration Rate)	>=90:Normal/minimal decrease in GFR-Kidney damage stage 1. 60-89:Mild decrease in GFR-Kidney damage stage 2. 30-59:Moderate decrease in GFR-Kidney damage stage 3. 15-29:Severe decrease in GFR-Kidney damage stage 4. <15:Kidney failure-Kidney damage stage 5. - Normal: >60 Moderate: 60-30 Severe: 30-15 Dialysis required: <15
Serum Creatinine	0.7 - 1.2
Blood Urea	16.6 - 48.5
BUN	6 - 20
Serum Uric acid	3.4 - 7
Albumin	Nil
Bile salt	Nil
Casts	Nil
Crystals	Nil
Epithelial Cells	0 - 5
Ketone	Nil
Occult Blood	Nil
Pus cells	0 - 5
Red blood cells	Nil
Sugar	Nil

Annexure XXXII

Workplace Noise Level Monitoring Report

(April 2024 – September 2024)

Locations		Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sep'24	Avg	Min	Max
		Unit : dB(A)						Unit : dB(A)		
Chlor Alkali Plant	Operator Cabin Cell House	50.40	51.20	52.40	51.90	52.30	55.80	59.58	50.40	66.40
	Operator Cabin Secondary Brine Area	61.20	60.90	59.80	60.20	59.20	56.90			
	Operator Cabin Chlorine Area	66.40	66.20	65.30	65.90	64.80	58.10			
	Operator Cabin Primary Brine Area Operator Cabin	63.40	62.80	63.10	62.30	61.90	59.20			
	CA Control Room	59.80	59.50	58.80	59.20	61.20	57.20			
VCM Plant	Operator Cabin Unit 2 & 7 O/C	57.40	56.80	57.10	56.90	55.40	56.30	53.81	46.70	57.40
	VCM Control Room	55.30	51.90	49.10	50.20	46.70	52.60			
PVC Plant	Operator Cabin Near Receiving Pit	65.10	62.80	64.30	63.90	64.10	63.80	58.58	41.20	65.10
	Operator Cabin Bagging Area	62.60	61.20	60.90	60.10	63.20	61.40			
	Operator Cabin Near Chiller Compressor	59.70	58.10	60.20	59.90	61.30	60.20			
	PVC Control Room	52.60	50.10	57.40	50.10	41.20	41.70			

Locations		Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
		Unit : dB(A)						Unit : dB(A)		
EO-EG Plant	Local Control Room Panel in EO Storage Area	53.20	54.10	53.80	55.20	54.90	53.40	54.73	43.30	62.90
	Operator Cabin behind Control Room	62.90	62.20	62.10	61.40	61.60	60.90			
	Operator Cabin Mechanical Workshop	56.10	58.70	52.20	46.10	43.30	48.40			
	EOEG Control Room	50.50	52.40	52.10	53.30	52.80	51.90			
GCU Plant	Operator Cabin Area 1	69.10	68.20	68.50	67.80	67.40	69.30	66.63	57.60	71.90
	Operator Cabin Area 2	70.40	71.30	70.80	69.90	69.70	70.60			
	Operator Cabin Area 3	65.90	64.80	64.30	65.10	64.90	66.20			
	Operator Cabin Area 4	69.80	70.30	70.10	71.30	70.50	71.90			
	GCU Control Room	58.20	59.70	59.30	57.80	58.10	57.60			
EPRU-OSBL	Operator Cabin Near Control Room	51.90	52.50	53.10	52.70	53.30	54.10	53.16	54.30	52.20
	EPRU Control Room	51.20	50.10	50.30	51.80	51.60	52.20			
	OSBL Control Room	55.20	56.10	55.10	54.90	54.30	56.40			
HDPE	Operator Cabin Extruder Building	60.90	62.20	62.60	61.50	61.90	64.20	57.70	50.40	64.20
	HDPE Control Room	57.20	52.80	54.20	50.90	50.40	53.60			

Locations		Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
		Unit : dB(A)						Unit : dB(A)		
CPP I	Operator Cabin GT	56.70	55.80	57.50	56.30	57.40	54.10	53.48	49.80	64.20
	CPP Control Room	49.80	50.20	51.30	50.70	50.80	51.20			
CPP II	Mechanical Room Nr. Stack	62.10	61.90	60.20	65.30	63.80	64.20	58.70	50.40	65.30
	CPP-II Control Room	56.50	57.10	58.10	53.20	50.40	51.60			
CPP III	Maintenance Office	50.10	49.10	47.70	48.20	49.20	46.80	56.02	46.80	68.10
	Rack Room	64.80	58.90	62.20	60.30	61.70	61.30			
	Sub Station	60.20	61.10	68.10	63.20	65.80	67.20			
	Control Room	49.80	49.70	49.20	50.10	49.20	50.60			
CCPP	Maintenance Room - 0 Meter	50.70	51.10	50.10	51.20	50.40	51.30	60.95	50.10	73.90
	CCR Security Desk	64.30	63.70	61.20	61.40	58.60	62.70			
	Boiler Porta Cabin-Block 1	58.20	57.90	58.80	58.10	57.20	56.40			
	O&M Porta Cabin	61.60	60.80	62.40	61.80	60.80	61.30			
	Operator Cabin STG-1 –SWASS Room	73.10	72.20	73.90	71.20	70.40	71.90			
	STG 1 – North Side Porta Cabin	62.20	61.90	63.80	62.50	61.10	60.50			
	MCC Room – Ash Handling Area	61.80	62.10	61.30	60.90	62.00	61.40			
	CCPP Control Room	60.60	61.20	59.60	58.50	58.30	61.10			

Locations		Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
		Unit : dB(A)						Unit : dB(A)		
PTD I & II	Operator Cabin Propylene Area	58.10	58.50	59.10	58.60	59.40	58.50	56.95	50.50	59.40
	PTD I Control Room	57.20	58.10	58.70	58.90	57.90	56.80			
	PTD II Control Room	56.60	56.90	55.80	53.20	52.30	50.50			
PET-3	HTF Control Room	58.00	59.30	56.30	57.70	55.40	56.10	55.92	51.40	59.30
	PET Control Room	57.20	53.70	54.10	51.40	52.60	59.20			
PTA-5	Mechanical Office	54.10	56.60	55.80	56.20	55.90	56.70	57.08	50.10	63.30
	Instrument Workshop	55.40	57.40	56.20	58.30	57.80	58.10			
	PTA-5 Warehouse	62.20	63.30	62.90	61.80	62.50	60.70			
	PTA-5 Permit Issuer Room	52.80	54.10	53.70	56.10	52.30	50.10			
	PTA-5 Control Room	59.20	62.70	54.30	56.30	53.10	55.70			
PTA-6	Mechanical Office	54.10	55.40	55.80	54.70	55.90	57.10	55.61	50.10	59.80
	Instrument Workshop	55.40	56.10	56.20	57.10	57.80	56.80			
	Operator Cabin	52.90	54.20	53.70	51.80	50.10	51.60			
	PTA-6 Control Room	58.90	58.50	55.50	57.70	57.60	59.80			
Time Office, MG 1	Time Office	51.10	52.80	53.50	51.80	50.90	51.40	52.42	48.40	56.40
	MG-I	52.40	54.20	56.40	48.40	54.50	51.60			

Locations		Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
		Unit : dB(A)						Unit : dB(A)		
ETP	Main Gate Spent Caustic Treatment Plant	61.70	60.20	55.80	60.30	54.90	57.30	56.79	52.50	61.70
	ETP Control Room	55.80	58.40	57.50	53.90	52.50	53.20			
Jetty	Jetty Control Room Main Gate Near Terminal Building	49.30	52.40	49.80	45.40	54.20	49.40	46.88	40.20	54.20
	Jetty Control Room	50.70	46.70	40.20	41.40	41.30	41.80			
IOP	ASU-4 Substation	69.10	68.20	67.80	68.50	67.30	68.10	60.51	48.30	71.30
	N2O2 Control Room	55.40	54.80	52.70	52.90	48.30	52.80			
	ASU Control Room	62.30	59.20	60.80	57.10	55.70	56.30			
	Raw Water Treatment Plant Control Room	57.60	58.10	57.90	57.30	56.90	58.30			
	Fire Water Treatment Plant Control Room	55.90	55.30	56.50	55.90	54.80	55.00			
	On Road at Main Gate at N2O2 Control Room (East S/S Side)	70.40	69.20	70.90	69.50	71.30	70.40			
Ethane Plant	Sub Station	56.80	57.70	56.30	57.10	56.70	57.30	54.30	49.10	57.70
	Ethane Control Room	51.20	57.50	49.10	51.60	50.60	49.70			

Summary of Workplace Noise Level monitoring

(April 2024 - September 2024)

S.No.	Plants	Workplace Noise Levels dB(A)		
		Average	Min	Max
1.	CA Plant	59.58	50.40	66.40
2.	VCM Plant	53.81	46.70	57.40
3.	PVC Plant	58.58	41.20	65.10
4.	GCU Plant	66.63	57.60	71.90
5.	EOEG Plant	54.73	43.30	62.90
6.	EPRU-OSBL Plant	53.16	54.30	52.20
7.	HDPE Plant	57.70	50.40	64.20
8.	CPP-I Plant	53.48	49.80	64.20
9.	CPP-II Plant	58.70	50.40	65.30
10.	TIME OFFICE, MG-1	52.42	48.40	56.40
11.	ETP Plant	56.79	52.50	61.70
12.	PTD - I & II Plant	56.95	50.50	59.40
13.	IOP Plant	60.51	48.30	71.30
14.	JETTY	46.88	40.20	54.20
15.	CPP-3 Plant	56.02	46.80	68.10
16.	PET-3 Plant	55.92	51.40	59.30
17.	PTA-5 Plant	57.08	50.10	63.30
18.	PTA-6 Plant	55.61	50.10	59.80
19.	CCPP Plant	60.95	50.10	73.90
20.	Ethane	54.30	49.10	57.70

Annexure XXXIII

Noise Control Measures provided in Plants

Acoustic Enclosure for Turbines

Acoustic Enclosure for Generators

Acoustic Enclosure for Compressors

Annexure XXXIV

Reliance
Industries Limited

23rd Feb 2024

To
Deputy Director (Industrial Safety & Health)
Office of the Dy. Director (Industrial Safety & Health)
Multistory building, 2nd floor,
Kanbi Vaga, Opp. Gayatri Nagar,
Bharuch - 392001.

Sub: Submission of stability certificates.

Dear Sir,

please find the stability certificates for the RIL DMD facilities as attached.

This is for your information and record please.

Thanking you,

Yours faithfully,

For, **Reliance Industries Limited,**

J P Patel

(Jignesh Patel)
Head - Safety

23/2/2024

Encl: Stability certificates

Reliance
Industries Limited

23rd Feb ,2024

To,
Deputy Director (Industrial Safety & Health)
Office of the Dy. Director (Industrial Safety & Health)
Multistory building, 2nd floor,
Kanbi Vaga, Opp. Gayatri Nagar,
Bharuch - 392001

Sub: Submission of Safety Report

Respected Sir,

Please find enclosed herewith the copy of safety Report of Reliance Industries Limited, Dahej Manufacturing Division prepared as per the requirements of Gujarat Factories Rules 68-J Sub Rule 10.

This is for your information and record please.

Yours sincerely,
For Reliance Industries Limited,

(Jignesh P Patel)
Head-Safety.

Enclosures:
1. Safety Report

Reliance
Industries Limited

23rd February 2024

To
Deputy Director (Industrial Safety & Health)
Office of the Dy. Director (Industrial Safety & Health)
Multistory building, 2nd floor,
Kanbi Vaga, Opp. Gayatri Nagar,
Bharuch. Pin - 392001.

Kind Attn: Dy. Director of Industrial Safety & Health.

Sub: Submission of "Third Party Safety Audit Report".

Dear Sir,

Please find enclosed herewith the report of Third-Party Safety Audit carried out in October 2023 as per GHR-68-J-9-2-B, of Reliance Industries Limited, Dahej Manufacturing Division for your kind information and record.

Kindly acknowledge same.

Thanking you,

J.P. Patel

Yours faithfully,
For Reliance Industries Limited,

23/2/2024

(Jignesh P Patel)
Head – Safety

O/C

Annexure XXXV

Reliance
Industries Limited
CIN # L17110MH1973PLC019786

December 28, 2017

To
Deputy Director (Industrial Safety & Health)
Office of the Dy. Director (Industrial Safety & Health)
Multistory building, 2nd floor,
Kanbi Vaga, Opp. Gayatri Nagar,
Bharuch. Pin - 392001.

Kind Attn: Dy. Director of Industrial Safety & Health.

Sub: Submission of "On Site Emergency Plan".

Dear Sir,

Please find enclosed herewith "On Site Emergency Plan" Revision No.14 revised on 25.12.2017 for Reliance Industries Limited, Dahej Manufacturing Limited, Plot No.1, GIDC Dahej, Taluka -Vagra, Dist.: Bharuch-392130 for your kind information and record.

Kindly acknowledge same.

Thanking you,

Yours faithfully,
For Reliance Industries Limited,

(Ramesh Solanki)
Head – HSEF

PBA 28-12-17
૩૧૧૬
નાયબ નિયામક ઔદ્યોગિક
સલામતિ અને સ્વાસ્થ્ય
ભરૂચ.

Encl: On Site Emergency Plan of Reliance Industries Limited, Dahej.

Reliance
Industries Limited

19 June, 2024

To:
Dy. Director of Industrial Safety & Health,
Office of the DISH,
Multistory building, 2nd Floor,
Kanbi Vaga, Opp-Gayatri Nagar,
Bharuch – 392 001.

Kind Attn: Dy. Director of Industrial Safety & Health.

Subject: Submission of "Mock drill" report.

Reference: GFR 68-J-12(5)

Dear Sir,

Please find enclosed copy of the report on mock drill, which was carried out at Reliance Industries Ltd. Dahej Site.

Sr. No.	Date	Location	Scenario
1	15.05.2024	IT / IT Server Room	Fire in IT Server Room & Injury

This is for your kind information and record please.

Thanking you,

Yours faithfully,
For Reliance Industries Limited,

J.P.Patel

(Jignesh P. Patel)
Head – Safety

Encl: As above

Rec'd: 21/06/24

Reliance Industries Limited

Dahej Manufacturing Division

DMD EMERGENCY PLAN

• 0.1 Siren Tones

The actuation of the siren varies with regard to the incident nature like fire and flammable gas/ toxic release and air raid. Following are the various configurations set for different types of emergency scenarios:

SR. No	Type of Emergency	Siren Tone
1	Fire Mode	Wailing tone for 2minutes (8 times) 10 sec -On, 5 sec- Off, 10 sec - On , 5sec - Off.
2	Gas Release Mode	Wailing type siren for 2.5 minutes (6 times) 20 sec - On, 5 sec - Off, 20 sec - On, 5 sec - Off
3	Air Raid Warning	Wailing type siren for 6 minutes (10 times) 30 sec - On, 5 sec - Off, 30 sec - On, 5 sec - Off
4	All Clear / Testing	Continuous siren tone for 2 minutes
5	Testing	Every Wednesday at 10:00 hrs. for 2 minutes

FIRE: 16000, 101 **AMBULANCE: 16031,102**
SSM: 16021, 16022

PBG 28-12-17

0/6

Photograph of Siren installed at SSM Building

ગુજરાત गुजरात GUJARAT

AE 157156

MUTUAL AID SCHEME

We, the members of Mutual Aid Scheme of Dahej industrial area hereby agree to abide by the terms & conditions. The terms and conditions of Agreement are as under:

President	President/COO	Managing Director	Sr.VP. (Plant Head)	G.M. (Plant Head)
RIL, DMD	HIL	GCPTCL	PLL	GACL

Plant Manager	Chief Operating Officer	Executive Director (O & M)
(ONGC Dahej Plant)	ONGC Petro additions Limited (OPaL) Dahej	Torrent Power Ltd. Dahej- SEZ

MEMBERS

1. M/s RELIANCE INDUSTRIES LIMITED,DAHEJ MANUFACTURING DIVISION
   GANDHAR PETROCHEMICALS COMPLEX,
   PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130

2. M/s HINDALCO INDUSTRIES LIMITED
   (UNIT-BIRLA COPPER LIMITED, DAHEJ)
   LAKHIGAM,PO: DAHEJ, TALUKA VAGRA, DIST-BHARUCH-392130

3. M/s GUJARAT CHEMICAL PORT TERMINAL COMPANY LIMITED
   LAKHIGAM, PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130

4. M/s PETRONET LNG LIMITED
   LAKHIGAM, PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130

5. M/s GUJARAT ALKALIES AND CHEMICALS LIMITED
   Plot No- 03, PO: DAHEJ , TALUKA VAGRA, DIST. BHARUCH -392130

6. M/s OIL AND NATURAL GAS CORPORATION LIMITED
   (Unit: DAHEJ PLANT, DAHEJ)
   Works: SEZ PART II, AT & PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130.

7. M/s ONGC PETRO ADDITIONS LIMITED (OPaL)
   PLOT No.-1 & PLOT No.-83
   DAHEJ SEZ –I, DAHEJ INDUSTRIAL AREA
   P.O. DAHEJ, TALUKA- VAGRA, DISTT- BHARUCH
   GUJARAT-392130

8. M/S TORRENT POWER LIMITED
   DGEN Mega Power Project , Plot No. Z-9, Dahej SEZ-1
   P.O. Dahej, Taluka- Vagra, Distt.- Bharuch,
   Gujarat – 392 130, India

President	President/COO	Managing Director	Sr.VP. (Plant Head)	G.M. (Plant Head)
RIL, DMD	HIL	GCPTCL	PLL	GACL

Plant Manager (ONGC Dahej Plant)	Chief Operating Officer ONGC Petro additions Limited (OPaL) Dahej	Executive Director (O & M) Torrent Power Ltd. Dahej- SEZ

Annexure XXXIX

Photographs of Waste Storage Area

Annexure XL

THE TIMES OF INDIA, SURAT
THURSDAY, AUGUST 30, 2007

INDIAN PETROCHEMICALS CORPORATION LIMITED
GANDHAR COMPLEX P.O. Dahej, Ta. Vagra, Dist. Bharuch – 392130.

Public Notice

Environment Clearance for CAPEX Project at IPCL, Dahej

This is to inform that the Ministry of Environment & Forest (MoEF), New Delhi, have accorded Environment Clearance to our proposed Capacity Expansion (CAPEX) Projects at Gandhar Petrochemical Complex, P.O. Dahej, Ta. Vagra Dist.Bharuch - 392 130. This Environment Clearance has been given wide their letter No. J-11011/482/2006-IA II (I) dated June 11, 2007. Copy can also be viewed on website of MoEF at www.envfor.nic.in

Date: 22.08.2007

(Sushil Kumar)
President

INDIAN PETROCHEMICALS CORORATION LIMITED
GANDHAR COMPLEX, DAHEJ – 392130

જાહેર નિવેદન

તારીખ ૨૨-૦૮-૨૦૦૭

(સુશીલ કુમાર)
પ્રેસીડેન્ટ

"SANDESH"
Dt: August 30, 07.

Annexure XLI

Compliance Status for the Environmental Clearance Order No. J-11011/482/2006-IA II (I), dated 11th June 2007 as on 30th September 2024

<table>
<tr><th>SR. No.</th><th>Conditions of the Environment Clearance</th><th>Compliance Status of the Conditions of EC</th></tr>
<tr><td>1</td><td>The gaseous emissions (SO2, NOx, CO, NMHC, Cl2 and HCl) from the various process units should conform to the standards prescribed under Environment (Protection Rules, 1986 or norms stipulated by the SPCB whichever is more stringent.</td><td>Gaseous emissions of SO_2, NOx, HC, Cl_2 and HCl from process units are monthly monitored through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standards.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

A summary of the emission results from process stacks monitored as per consolidated consent & authorization for the period Apr’24 – Sept’24 is presented below.
<table>
<tr><th>Plant</th><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td rowspan="8">VCM - Stack attached to Incinerator</td><td>PM (mg/Nm3)</td><td>150</td><td>3.97</td><td>2.64</td><td>5.42</td></tr>
<tr><td>SO2 (mg/Nm3)</td><td>40</td><td>6.95</td><td>5.38</td><td>9.14</td></tr>
<tr><td>NOx (mg/Nm3)</td><td>25</td><td>19.26</td><td>15.63</td><td>22.78</td></tr>
<tr><td>Cl2 (mg/Nm3)</td><td>10</td><td><1.0</td><td><1.0</td><td><1.0</td></tr>
<tr><td>HCl (mg/Nm3)</td><td>30</td><td>3.72</td><td>2.34</td><td>4.76</td></tr>
<tr><td>HC (mg/Nm^3)</td><td>15</td><td>1.30</td><td>1.21</td><td>1.42</td></tr>
<tr><td>CO (mg/Nm^3)</td><td>150</td><td>3.44</td><td>2.48</td><td>4.38</td></tr>
<tr><td>VCM (mg/Nm3)</td><td>6.6</td><td><1.5</td><td><1.5</td><td><1.5</td></tr>
<tr><td rowspan="3">VCM Plant – Stack attached to Vent Scrubber</td><td>Cl2 (mg/Nm^3)</td><td>10</td><td><1.0</td><td><1.0</td><td><1.0</td></tr>
<tr><td>HCl (mg/Nm^3)</td><td>30</td><td>3.17</td><td>2.51</td><td>4.65</td></tr>
<tr><td>HC (mg/Nm^3)</td><td>15</td><td>< 0.2</td><td>< 0.2</td><td>< 0.2</td></tr>
<tr><td rowspan="2">Chlor Alkali Plant - Stacks Attached to Hypo and HCl synthesis Unit</td><td>Cl2 (mg/Nm3)</td><td>9</td><td><1.0</td><td><1.0</td><td><1.0</td></tr>
<tr><td>HCl (mg/Nm3)</td><td>20</td><td>3.36</td><td>2.25</td><td>4.89</td></tr>
<tr><td rowspan="5">PVC Plant- Stacks attached to PVC Dryers</td><td>PM (mg/Nm3)</td><td>150</td><td>5.02</td><td>3.32</td><td>5.72</td></tr>
<tr><td>SO2 (ppm)</td><td>100</td><td>8.65</td><td>7.16</td><td>10.36</td></tr>
<tr><td>NOx (ppm)</td><td>50</td><td>24.75</td><td>21.52</td><td>27.65</td></tr>
<tr><td>CO (mg/Nm3)</td><td>150</td><td>2.84</td><td>2.18</td><td>3.64</td></tr>
<tr><td>VCM (mg/Nm3)</td><td>6.6</td><td><1.5</td><td><1.5</td><td><1.5</td></tr>
<tr><td rowspan="3">PTA Plant - Stacks attached to Off gas scrubber, atmospheric scrubber and vent scrubber</td><td>PM (mg/Nm3)</td><td>150</td><td>5.06</td><td>3.64</td><td>6.88</td></tr>
<tr><td>SO2 (mg/Nm3)</td><td>40</td><td><5</td><td><5</td><td><5</td></tr>
<tr><td>NOx (mg/Nm3)</td><td>25</td><td><4</td><td><4</td><td><4</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>It can be seen from the above data that emissions from the process stack is conforming to the standard stipulated by GPCB.

Details of the above results can be seen as Annexure III.

Complied.</td></tr>
<tr><td></td><td>At no time the emission level shall go beyond the stipulated standards.</td><td>During Apr’24 – Sept’24, emission levels have not exceeded the prescribed / stipulated standards. Details of the same can be seen in Annexure III.

Complied.</td></tr>
<tr><td></td><td>In the event of failure of Pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.</td><td>Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger/alarm is raised in the DCS system which prevents the plant from restarting and pollution control system is rectified immediately.

During the period of Apr’24 – Sept’24, no such failure of pollution control equipment has happened.

Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.

Complied.</td></tr>
<tr><td>2</td><td>Ambient air quality monitoring stations (SPM, SO2, NOx and NMHC) shall be set up in the petrochemical complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down wind direction of wind.</td><td>The site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex considering wind directions and the maximum Ground Level Concentration in downwind direction.

Mathematical Modelling report submitted to GPCB along with AAQM location map can be seen in Annexure XVII.

Ambient air monitoring is carried out twice a week at each location through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

A summary of the AAQ monitoring results of Apr’24 – Sept’24 are as given below

<table>
<tr><th>Parameter</th><th>GPCB Consent Limit</th><th>Average</th><th>Min</th><th>Max</th></tr>
<tr><td>PM_{10}</td><td>100 µg/m^3</td><td>56.55</td><td>31.00</td><td>76.00</td></tr>
<tr><td>$PM_{2.5}$</td><td>60 µg/m^3</td><td>20.40</td><td>8.00</td><td>37.00</td></tr>
<tr><td>SO_2</td><td>80 µg/m^3</td><td>19.74</td><td>10.40</td><td>29.60</td></tr>
<tr><td>NOx</td><td>80 µg/m^3</td><td>26.31</td><td>15.40</td><td>36.80</td></tr>
<tr><td>O_3</td><td>180 µg/m^3</td><td>7.69</td><td>3.70</td><td>12.60</td></tr>
<tr><td>NH_3</td><td>400 µg/m^3</td><td>15.76</td><td>7.20</td><td>34.80</td></tr>
<tr><td>CO</td><td>4 mg/m^3</td><td>1.41</td><td>1.12</td><td>1.82</td></tr>
<tr><td>Benzene</td><td>5 µg/m^3</td><td>< 1.0</td><td>< 1.0</td><td>< 1.0</td></tr>
<tr><td>Pb</td><td>1 µg/m^3</td><td>< 0.1</td><td>< 0.1</td><td>< 0.1</td></tr>
<tr><td>As</td><td>6 ng/m^3</td><td>< 1.0</td><td>< 1.0</td><td>< 1.0</td></tr>
<tr><td>Ni</td><td>20 ng/m^3</td><td>4.30</td><td>< 0.1</td><td>7.30</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>BAP</td><td>1 ng/m^3</td><td>< 0.5</td><td>< 0.5</td><td>< 0.5</td></tr>
</table>

It can be seen from the above table that all results are conforming to the standards prescribed by GPCB.

Detailed AAQ Monitoring data can be referred as Annexure VI.

Complied.</td></tr>
<tr><td>The monitoring network must be decided based on modelling exercise to represent short term GLCs</td><td>AAQ monitoring network is decided based on the mathematical modeling carried out by NEERI / ERM for short term maximum GLCs.

Report of mathematical modelling carried out by M/s. ERM is enclosed as Annexure XVII.

Complied.</td></tr>
<tr><td>Continuous online stack monitoring equipment should be installed for measurement of SO2 and NOx.</td><td>Continuous online stack monitoring analysers have been provided for monitoring of SO_2 and NOx and other parameters as per requirement in all stacks.

One such trend of CEMS of one of the plant is enclosed as Annexure XVIII.

Complied.</td></tr>
<tr><td>Data on VOC shall be monitored and submitted to the SPCB/Ministry.</td><td>VOCs (Benzene) monitoring in ambient air is being done regularly through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the results are being submitted to the GPCB / MoEF&CC.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

The monitoring results for the VOCs (Benzene) are given in the AAQM monitoring results of Apr’24 – Sept’24 as given below

<table>
<tr><th>Parameter</th><th>GPCB Consent Limit</th><th>Average</th><th>Min</th><th>Max</th></tr>
<tr><td>PM_{10}</td><td>100 µg/m^3</td><td>56.55</td><td>31.00</td><td>76.00</td></tr>
<tr><td>$PM_{2.5}$</td><td>60 µg/m^3</td><td>20.40</td><td>8.00</td><td>37.00</td></tr>
<tr><td>SO_2</td><td>80 µg/m^3</td><td>19.74</td><td>10.40</td><td>29.60</td></tr>
<tr><td>NOx</td><td>80 µg/m^3</td><td>26.31</td><td>15.40</td><td>36.80</td></tr>
<tr><td>O_3</td><td>180 µg/m^3</td><td>7.69</td><td>3.70</td><td>12.60</td></tr>
<tr><td>NH_3</td><td>400 µg/m^3</td><td>15.76</td><td>7.20</td><td>34.80</td></tr>
<tr><td>CO</td><td>4 mg/m^3</td><td>1.41</td><td>1.12</td><td>1.82</td></tr>
<tr><td>Benzene</td><td>5 µg/m^3</td><td>< 1.0</td><td>< 1.0</td><td>< 1.0</td></tr>
<tr><td>Pb</td><td>1 µg/m^3</td><td>< 0.1</td><td>< 0.1</td><td>< 0.1</td></tr>
<tr><td>As</td><td>6 ng/m^3</td><td>< 1.0</td><td>< 1.0</td><td>< 1.0</td></tr>
<tr><td>Ni</td><td>20 ng/m^3</td><td>4.30</td><td>< 0.1</td><td>7.30</td></tr>
<tr><td>BAP</td><td>1 ng/m^3</td><td>< 0.5</td><td>< 0.5</td><td>< 0.5</td></tr>
</table>

VOCs at the process areas are also being monitored in every plant under the Leak detection and Repair Program (LDAR). Typical LDAR Report of one the plant is enclosed as Annexure XIX.

Complied.</td></tr>
</table>

<table>
<tr><td></td><td>The CPCB shall independently monitor the air quality of the project.</td><td>This condition is not applicable to us.</td></tr>
<tr><td rowspan="3">3</td><td>Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored.</td><td>Fugitive emissions of HC from product storage tanks are monitored on weekly basis by LEL meters and on monthly basis by PID meters under the Leak Detection and Repair Program. Around 56 LEL detectors are installed in Tank Farm area i.e. Product Transfer Department (PTD).

Typical LDAR Report of Product Transfer Department (PTD) plant is enclosed as Annexure XX.

Complied.</td></tr>
<tr><td>Sensors for detecting HC leakage shall also be provided at strategic locations.</td><td>1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like near the pumps, compressors, storage tanks, yards, etc.

List of detectors installed is enclosed as Annexure XXI.

Complied.</td></tr>
<tr><td>The company shall use low sulphur fuel to minimize SO2 Emission.</td><td>The Low Sulfur fuels are used in the plant to minimize SO_2 emissions. Ethane / NG usage is maximized in the plant having sulphur content <1 ppm.

Complied.</td></tr>
<tr><td rowspan="2">4</td><td>The company shall install online O2 monitor in the furnaces</td><td>20 online O_2 monitors are installed in the furnaces to keep the track of combustion efficiency.

Complied.</td></tr>
<tr><td>Boilers shall be operated with minimum excess air for optimal fuel consumption and to minimize NOx emission.</td><td>Flue gas emissions from the stacks attached to the boiler, furnaces / heaters are regularly monitored through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

The summary of flue gas emission results for the period of Apr’24 – Sept’24 is presented as below.
<table>
<tr><th>Plant</th><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td colspan="6">Flue Gas Emissions</td></tr>
<tr><td rowspan="3">GCU Plant - Stack attached Furnaces</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.05</td><td>2.40</td><td>5.63</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>6.03</td><td>4.24</td><td>8.25</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>62.84</td><td>51.25</td><td>69.34</td></tr>
<tr><td rowspan="3">VCM Plant - Stack attached to EDC Furnaces</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.41</td><td>3.36</td><td>5.25</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>8.14</td><td>6.72</td><td>9.41</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>64.75</td><td>51.85</td><td>74.90</td></tr>
<tr><td rowspan="3">CPP Plant - Boilers / HRSGs stacks</td><td>PM (mg/Nm^3)</td><td>10</td><td>5.18</td><td>3.12</td><td>6.42</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>9.47</td><td>7.62</td><td>11.36</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>61.88</td><td>37.56</td><td>72.25</td></tr>
<tr><td rowspan="3">PET-3 Plant - Stacks attached to Heaters</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.22</td><td>3.10</td><td>5.87</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>8.51</td><td>6.81</td><td>9.63</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>62.87</td><td>45.15</td><td>69.65</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td rowspan="3">CCPP – Stacks attached to Boilers</td><td>PM (mg/Nm^3)</td><td>50</td><td>18.67</td><td>15.45</td><td>22.15</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>600</td><td>270.30</td><td>241.65</td><td>283.46</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>300</td><td>77.51</td><td>71.59</td><td>87.78</td></tr>
</table>
("– ": Plant was not in operation / under Shutdown)

The above results are conforming to the norms specified by GPCB during review period of Apr'24 – Sept'24.

Detailed stack emission monitoring report is enclosed as Annexure III.

Complied.</td></tr>
<tr><td></td><td>Fire stack burners and steam injection system shall be designed for smokeless operation to minimize NOx emission.</td><td>Steam injection system is provided in flare stacks for reducing NOx generation and have smokeless operation.

Complied.</td></tr>
<tr><td>5</td><td>For Control of fugitive emission, the company shall provide for a main flare system and an auxiliary flare system and route all unsaturated hydrocarbons to the flare system.</td><td>All plant vents containing unsaturated hydrocarbons are routed to the main flare and auxiliary flare (LP flare) system for controlling of fugitive emissions.

An auxiliary flare system (LP flare) is provided for routing the discharge from the dump valve on cryogenic tanks. Whereas the main flare system is provided for all process units and non-cryogenic storage area.

Photograph of Flare installed is enclosed as Annexure XXII.

Complied.</td></tr>
<tr><td></td><td>All the pump and other equipment's where there is like hood of HC leakage shall be provided with LEL indicators</td><td>1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like main pumps, compressors, storage tanks yards, etc.

List of detectors installed is enclosed as Annexure XXI.

Complied.</td></tr>
<tr><td></td><td>also provide for immediate isolation to such equipment, in case of a leakage,</td><td>Isolation of leaking equipment is immediately done based on the LEL detector alarm.

Complied.</td></tr>
<tr><td></td><td>The company shall adopt leak detection and repair (LDAR) programme for quantification and control of fugitive emissions.</td><td>LDAR program has been implemented in all plants for quantification and control of fugitive emissions. LDAR is carried out in each plant on quarterly basis. During the review period (Apr'24 – Sept'24) the same were carried out at all the plants.

Typical LDAR Report of one the plant is enclosed as Annexure XIX.

Complied.</td></tr>
<tr><td>6</td><td>The product-loading gantry shall be connected to the product sphere in closed circuit through the vapour arm connected to the tanker .</td><td>The product loading gantry is connected with the respective product tanks with vapor arm connected to the tanker. The vapors are recovered through vapor recovery system which consists of RARFS scrubber, membrane unit & activated carbon filters and then recovered material is sent back to the tank. This system is installed at Product loading gantry.

Photographs of vapour recovery system is enclosed as Annexure XXIII.

Complied.</td></tr>
</table>

<table>
<tr><td></td><td>Data on fugitive emissions shall be regularly monitored and records maintained.</td><td>Data on Fugitive emissions are being regularly monitored through LDAR program and records maintained.

Typical LDAR Report of one the plant is enclosed as Annexure XIX.

Complied.</td></tr>
<tr><td rowspan="3">7</td><td>The company shall ensure that no halogenated organic is sent to the flares</td><td>No halogenated organics are sent to flares. It is always sent to incinerator unit.

Complied.</td></tr>
<tr><td>If any of the halogenated organic are present then the respective streams may be incinerated, if there are no technically feasible or economically viable reduction/recovery options.</td><td>Halogenated organics from VCM plant are incinerated in the incinerator provided at the plant as recovery is not techno-economically feasible.

Complied.</td></tr>
<tr><td>Any stream containing organic carbon, other than halogenated shall be connected to proper flaring system, if not to a recovery device or an incinerator.</td><td>Emission streams containing organic carbon i.e unsaturated hydrocarbons, are connected to the existing flares. Halogenated compounds are not sent to flare.

Complied.</td></tr>
<tr><td>8</td><td>All new standards/norms that are being proposed by the CPCB for petrochemical plants shall be applicable for the proposed expansion unit. The company shall conform to the process vent standards for organic chemical including non-VOCs and all possible VOCs i.e. TOCs standard and process vent standards for top priority chemicals</td><td>The site is conforming to the standards / norms prescribed by CPCB / GPCB whichever is stringent, for petrochemical plants.

The process vents of various plants are monthly monitored through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the GPCB prescribed standard which is more stringent.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

Summary of monthly monitored values for the reporting period Apr’24 – Sept’24 is presented as below

<table>
<tr><th>Plant</th><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td rowspan="8">VCM - Stack attached to Incinerator</td><td>PM (mg/Nm^3)</td><td>150</td><td>3.97</td><td>2.64</td><td>5.42</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>40</td><td>6.95</td><td>5.38</td><td>9.14</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>25</td><td>19.26</td><td>15.63</td><td>22.78</td></tr>
<tr><td>Cl_2 (mg/Nm^3)</td><td>10</td><td><1.0</td><td><1.0</td><td><1.0</td></tr>
<tr><td>HCl (mg/Nm^3)</td><td>30</td><td>3.72</td><td>2.34</td><td>4.76</td></tr>
<tr><td>HC (mg/Nm^3)</td><td>15</td><td>1.30</td><td>1.21</td><td>1.42</td></tr>
<tr><td>CO (mg/Nm^3)</td><td>150</td><td>3.44</td><td>2.48</td><td>4.38</td></tr>
<tr><td>VCM (mg/Nm^3)</td><td>6.6</td><td><1.5</td><td><1.5</td><td><1.5</td></tr>
<tr><td rowspan="3">VCM Plant – Stack attached to Vent Scrubber</td><td>Cl2 (mg/Nm^3)</td><td>10</td><td><1.0</td><td><1.0</td><td><1.0</td></tr>
<tr><td>HCl (mg/Nm^3)</td><td>30</td><td>3.17</td><td>2.51</td><td>4.65</td></tr>
<tr><td>HC (mg/Nm^3)</td><td>15</td><td>< 0.2</td><td>< 0.2</td><td>< 0.2</td></tr>
<tr><td rowspan="2">Chlor Alkali Plant - Stacks Attached to Hypo and HCl synthesis Unit</td><td>Cl_2 (mg/Nm^3)</td><td>9</td><td><1.0</td><td><1.0</td><td><1.0</td></tr>
<tr><td>HCl (mg/Nm^3)</td><td>20</td><td>3.36</td><td>2.25</td><td>4.89</td></tr>
<tr><td rowspan="2">PVC Plant-Stacks</td><td>PM (mg/Nm^3)</td><td>150</td><td>5.02</td><td>3.32</td><td>5.72</td></tr>
<tr><td>SO_2 (ppm)</td><td>100</td><td>8.65</td><td>7.16</td><td>10.36</td></tr>
</table>
</td></tr>
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<table>
<tr><td></td><td></td><td>
<table>
<tr><td rowspan="3">attached to PVC Dryers</td><td>NOx (ppm)</td><td>50</td><td>24.75</td><td>21.52</td><td>27.65</td></tr>
<tr><td>CO (mg/Nm^3)</td><td>150</td><td>2.84</td><td>2.18</td><td>3.64</td></tr>
<tr><td>VCM (mg/Nm^3)</td><td>6.6</td><td><1.5</td><td><1.5</td><td><1.5</td></tr>
<tr><td rowspan="3">PTA Plant - Stacks attached to Off gas scrubber, atmospheric scrubber and vent scrubber</td><td>PM (mg/Nm^3)</td><td>150</td><td>5.06</td><td>3.64</td><td>6.88</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>40</td><td><5</td><td><5</td><td><5</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>25</td><td><4</td><td><4</td><td><4</td></tr>
</table>

It can be seen from the above table that all results are conforming to the standards prescribed.

Detailed monitoring report is enclosed as Annexure III.

Complied.</td></tr>
<tr><td></td><td>The company shall install online monitors for VOC measurements. Action on above should be taken during the detailed design stage of NCC and intimate to this ministry</td><td>Online detectors (1182 LEL type) for VOC measurements have been installed at appropriate locations in the plants based on the properties of chemicals being handled at the particular location.

List of detectors installed is enclosed as Annexure XXI.

Complied.</td></tr>
<tr><td>9</td><td>The company shall install bag filters to control flue gas emission. Process emission shall be controlled by Scrubbers.</td><td>Suitable air pollution control equipment like Bag filters, absorbers, scrubbers, cyclone separator etc are installed as per process requirement of respective plant to control process emissions.

Details of Air pollution control equipments installed in plants is enclosed as Annexure XXIV.

Complied.</td></tr>
<tr><td></td><td>Flue gas emission from the various stacks attached to the boiler, furnace/heaters shall conform to the prescribed standards.</td><td>Flue gas emissions from the stacks attached to the boiler, furnaces / heaters are regularly monitored through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

The summary of flue gas emission results for the period of Apr’24 – Sept’24 is presented as below.

<table>
<tr><th>Plant</th><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td colspan="6">Flue Gas Emissions</td></tr>
<tr><td rowspan="3">GCU Plant - Stack attached Furnaces</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.05</td><td>2.40</td><td>5.63</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>6.03</td><td>4.24</td><td>8.25</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>62.84</td><td>51.25</td><td>69.34</td></tr>
<tr><td rowspan="3">VCM Plant - Stack attached to EDC Furnaces</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.41</td><td>3.36</td><td>5.25</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>8.14</td><td>6.72</td><td>9.41</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>64.75</td><td>51.85</td><td>74.90</td></tr>
<tr><td rowspan="3">CPP Plant - Boilers / HRSGs stacks</td><td>PM (mg/Nm^3)</td><td>10</td><td>5.18</td><td>3.12</td><td>6.42</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>9.47</td><td>7.62</td><td>11.36</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>61.88</td><td>37.56</td><td>72.25</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td rowspan="3">PET-3 Plant - Stacks attached to Heaters</td><td>PM (mg/Nm^3)</td><td>10</td><td>4.22</td><td>3.10</td><td>5.87</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>50</td><td>8.51</td><td>6.81</td><td>9.63</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>350</td><td>62.87</td><td>45.15</td><td>69.65</td></tr>
<tr><td rowspan="3">CCPP – Stacks attached to Boilers</td><td>PM (mg/Nm^3)</td><td>50</td><td>18.67</td><td>15.45</td><td>22.15</td></tr>
<tr><td>SO_2 (mg/Nm^3)</td><td>600</td><td>270.30</td><td>241.65</td><td>283.46</td></tr>
<tr><td>NOx (mg/Nm^3)</td><td>300</td><td>77.51</td><td>71.59</td><td>87.78</td></tr>
</table>
("– ": Plant was not in operation / under Shutdown)

The above results are conforming to the norms specified by GPCB during review period of Apr'24 – Sept'24.

Detailed stack emission monitoring report is enclosed as Annexure III.

Complied.</td></tr>
<tr><td>10</td><td>The additional effluent generation shall not exceed 39,020 m^3/d.</td><td>The additional effluent generation from the proposed plant does not exceed 38,826 m^3/day. However, the total effluent generation quantity prescribed under Consolidated Consent & Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 51,002 m3/d.

The current effluent generation quantity from the complex for the review period of Apr'24 – Sept'24 is given below:

<table>
<tr><th>Description</th><th>Permissible Limit (KLD)</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>Effluent Generation</td><td>51,002</td><td>38826</td><td>36898</td><td>41099</td></tr>
</table>
From the above table it can be seen that the average effluent generation rate from the complex for the period Apr'24 – Sept'24 is well below the permissible limit of 51,002 m^3/d.

Complied.</td></tr>
<tr><td></td><td>The wastewater generated shall be treated in comprehensive wastewater treatment plant.</td><td>Wastewater generated from the individual process units is being treated in the comprehensive effluent treatment facility consisting of Primary, Secondary and Tertiary treatment units.

Some of the photographs of Effluent treatment plant can be seen in Annexure XXV.

Complied.</td></tr>
<tr><td></td><td>As reflected in the EIA/EMP report, the company shall maximize the recycling of treated effluent</td><td>All points mentioned in the EIA / EMP report regarding maximizing the recycling of treated effluent is complied with such as Advanced Anaerobic UASB system and Membrane based Aeration system i.e., Membrane Bioreactor (MBR), Ultrafiltration and Reverse Osmosis (RO) systems have been commissioned in the plant for achieving the maximum recycling of treated water.

Photographs of UASB, MBR & RO plant installed for maximizing the recycling of treated effluent can be seen in Annexure XXVI.

Treated effluent is being recycled within the complex as Cooling tower make up, DM water production, green belt development.

The average of effluent generation, recycle and discharge quantities during reporting period of Apr'24 – Sept'24 is presented</td></tr>
</table>

below as against the Permissible limits prescribed Consolidated Consent & Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026.

Description	Permissible Limit (KLD)	Average (KLD)
Quantity of Effluent Generation	51,002	38,826
Quantity of Effluent Discharge	36,292	19,715
Quantity of Effluent Recycle	14,710	19,111
Percentage of Recycle	30 %	49%

It can be seen from the above table that the Percentage of treated effluent recycled is maximized against the limit.

Complied.

Treated effluent after conforming to the prescribed standards shall be discharged through the existing marine disposal system.

Treated effluent is being monitored on monthly basis through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the quality of effluent is maintained well within the norm prescribed by the GPCB and the same is discharged through the marine disposal system after conforming to the standards.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as **Annexure II**.

The summary of treated effluent quality monitoring reports for Apr'24 – Sept'24 is presented below.

Parameter	Unit	GPCB Consent Limit	Avg	Min	Max
pH	–	5.5-9.0	7.98	7.81	8.30
Colour and odour	–	All efforts shall be made to remove colour and unpleasant odour as far as practicable	Colorless and Odourless		
Suspended Solids	mg/l	100	26.33	23.00	29.00
Temperature	°C	Shall not exceed 5° C above the receiving water temperature	28.30	26.10	30.50
Oil & Grease	mg/l	20	1.63	1.40	1.80
Total Residual Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1
Ammonical Nitrogen (as N)	mg/l	50	14.77	12.50	17.10
Total Kjeldahl Nitrogen (as NH_3)	mg/l	100	30.07	25.30	33.40
Free Ammonia (as NH_3)	mg/l	5	2.78	1.70	3.50
Biochemical Oxygen Demand	mg/l	100	45.93	41.50	51.60
Chemical Oxygen Demand	mg/l	250	171.02	138.80	196.00
Arsenic (as AS)	mg/l	0.2	< 0.01	< 0.01	< 0.01
Mercury (as Hg)	mg/l	0.01	< 0.005	< 0.005	< 0.005

		Lead (as Pb)	mg/l	2	< 0.05	< 0.05	< 0.05
		Cadmium (as Cd	mg/l	2	< 0.03	< 0.03	< 0.03
		Hexavalent Chromium (as Cr^{+6})	mg/l	1	< 0.05	< 0.05	< 0.05
		Total Chromium (as Cr)	mg/l	2	< 0.01	< 0.01	< 0.01
		Copper (as Cu)	mg/l	3	< 0.04	< 0.04	< 0.04
		Zinc (as Zn)	mg/l	15	1.52	1.20	1.90
		Selenium (as Se)	mg/l	0.05	< 0.05	< 0.05	< 0.05
		Nickel (as Ni)	mg/l	5	< 0.01	< 0.01	< 0.01
		Cyanide (as CN)	mg/l	0.2	< 0.03	< 0.03	< 0.03
		Fluorides (as F)	mg/l	15	0.38	0.26	0.56
		Sulphides	mg/l	5	< 0.1	< 0.1	< 0.1
		Phenolic compounds (as C_6H_5OH)	mg/l	5	< 0.001	< 0.001	< 0.001
		Manganese (as Mn)	mg/l	2	< 0.1	< 0.1	< 0.1
		Iron (as Fe)	mg/l	3	1.55	1.40	1.80
		Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004
		Nitrate Nitrogen	mg/l	20	12.50	9.00	16.00
		Bioassay Test	-	90% survival of fish after 96 hours in 100% effluent	>90% survival of fish after 96 hours in 100% effluent		
		The above results indicate that the treated effluent quality is well within the prescribed norms. Detailed treated effluent monitoring report is enclosed as **Annexure VII.** Complied.					
	A holding pond for treated effluent for bio test shall be constructed before discharging the effluent into the sea.	Bioassay test for monitoring toxicity is conducted in the laboratory with the test containers for the treated effluent. The local fishes are taken as the Testing animal for this experiment and the test is carried out in the laboratory as per the IS 6582. Result of 93% survival of fish after 96 hours in 100% effluent is achieved for the review period of Apr'24 – Sept'24. The analysis results of Bioassay test are provided in the above condition. Complied.					
	The domestic effluent after treatment and conforming to the prescribed standards shall be used for green belt development.	The domestic effluent generated within the site is treated in the biological section of the effluent treatment plant with the prior approval from GPCB and it conforms to the prescribed standards. As mentioned above, about 18,097 KLD of treated effluent is being reused as CW make up, DM water production and for green belt development. The average of effluent generation, recycle and discharge quantities during reporting period of Apr'24 – Sept'24 is presented below as against the Permissible limits prescribed under Consolidated Consent & Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026.					

		<table><tr><th>Description</th><th>Permissible Limit (KLD)</th><th>Average (KLD)</th></tr><tr><td>Quantity of Effluent Generation</td><td>51,002</td><td>38,826</td></tr><tr><td>Quantity of Effluent Discharge</td><td>36,292</td><td>19,715</td></tr><tr><td>Quantity of Effluent Recycle</td><td>14,710</td><td>19,111</td></tr><tr><td>Percentage of Recycle</td><td>30 %</td><td>49%</td></tr></table> It can be seen from the above table that the Percentage of treated effluent recycled is maximized against the limit. Complied.
11	The company shall obtain necessary approval from the state Irrigation Department to meet the additional water requirement.	Company has obtained approval to meet the water requirement. The sanction / approval for 22 MGD of water drawl from Narmada River has been obtained from the Vadodara Irrigation Division and additional 8 MGD from G.I.D.C. Please refer the copy of water drawl approval from Irrigation Department for 22 MGD and 8 MGD from G.I.D.C as **Annexure XXVII**. Complied.
12	M/s RIL shall undertake rainwater harvesting measures, to recharge the ground water and also to minimize the water drawl from the weir.	RIL has undertaken rainwater harvesting measures to recharge the ground water such as a rain water harvesting pond is established for collecting and storing the rain water. The collected water is used inside the plant to supplement fresh water supply thereby hence minimizing water drawl from the weir to that extent. It also helps in recharging of the ground water. Apart from these, various efforts are taken to minimize the water withdrawal e.g. reduction in fresh water requirement for utilization as make up water in cooling towers by recycling treated water in cooling towers etc. Photograph of Rain water harvesting pond is enclosed as **Annexure XXVII.** Complied.
13	Green belt shall be raised in an area of 300 ha to mitigate the fugitive emissions from the plant.	This condition has been revised in subsequent EC order no. J-11011/39/2016-IA-II (I) dated 19th August 2021 granted by MoEF&CC. However, the site has developed around 203 ha of Green cover within Dahej Petrochemical Complex to mitigate the fugitive emissions and additional greenbelt area is developed outside the plant area During the reporting period Apr'24 – Sept'24: Around 15,012 trees have been planted in the complex, at open areas of GIDC near site and at road dividers outside of complex. Photographs of green belt developed during the reporting period is enclosed as **Annexure XXIX**. Complied.
	Selection of plant species shall be as per the central pollution control board guidelines.	Selection of plant species is done as per CPCB guidelines; mainly native plant species are selected for the green belt development as per the guidelines of CPCB. Few of the plant species existing at the site are: Casuarina equisetifolia (Suru), Azadirachta indica (Neem),

<table>
<tr><td></td><td></td><td>Millettia pinnata (Karanj), Cassia siamea (Kashid), Albizia procera (Shirish), Delonix regia (Gulmohar), Peltophorum pterocarpum etc.

Complied.</td></tr>
<tr><td>14</td><td>Occupation Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.</td><td>RIL–DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab.

Occupational Health Surveillance of employees (both contractors as well as company employees) is one of the on-going activities at RIL-DMD and is carried out at a frequency prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in OHC.

Occupational Health Surveillance is carried out - At the time of joining formality (i.e. Pre-Employment Medical Examination) and on annual basis for all employees.

Details of checks conducted at the time of Fitness Examination is appended as below for ready reference:

<table>
<tr><th>Fitness Examination Parameter</th><th>Pre-Employment Medical Examination</th><th>Periodic Medical Examination</th></tr>
<tr><td>Physician Check-up</td><td>√</td><td>√</td></tr>
<tr><td>Eye – Check-up</td><td>√</td><td>√</td></tr>
<tr><td>X-ray</td><td>√</td><td>√</td></tr>
<tr><td>ECG</td><td>√</td><td>√</td></tr>
<tr><td>Urine Routine</td><td>√</td><td>√</td></tr>
<tr><td>CBC+ESR</td><td>√</td><td>√</td></tr>
<tr><td>Blood Group</td><td>√</td><td>√</td></tr>
<tr><td>Random Blood Sugar</td><td>√</td><td>√</td></tr>
</table>

Photograph of Occupational Health Centre is enclosed as Annexure XXX and typical sample lab analysis reports of periodic medical examination of one such employee is attached as Annexure XXXI.

Complied.</td></tr>
<tr><td colspan="3">B. General Conditions</td></tr>
<tr><td>i</td><td>The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board and the state Government</td><td>As seen in the above conditions and the summary table of environmental monitoring results, we are complying with all the standards and stipulations made by the Gujarat State Pollution Control Board and the State Government.

Stipulations made by the Gujarat Pollution Control Board vide CTO (Consent to Operate) / CCA (Consolidated Consent & Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to.

The major stipulations given by GPCB vide CCA is given as below

<table>
<tr><th>Cond. No.</th><th>CCA Conditions</th><th>Compliance Status of CCA Conditions</th></tr>
<tr><td>3.1</td><td>The quantity of total fresh water consumption shall not exceed 1,38,700 KL/day</td><td>Average fresh water consumption for the period Apr’24 – Sept’24 was 87,716 KLD which is not exceeding the permissible limit of 1,38,700 KLD.

Complied.</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>3.4.1</td><td>The quality of treated effluent shall conform to the following standards prior to disposal into deep sea (Gulf of Khambhat) through the existing effluent disposal pipeline equipped with multiport diffuser.
Note: Standards are prescribed in CCA</td><td>Treated effluent is being monitored on monthly basis through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai. The quality of effluent maintained well within the norms prescribed by GPCB and then it is discharged through existing effluent disposal pipeline equipped with multiport diffuser.

Results of treated effluent quality monitoring given in Condition No. 8 indicates the conformance to the GPCB prescribed standards vide this CCA.

Complied.</td></tr>
<tr><td>4.4</td><td>The process emissions through various stacks /vents of reactors, process, vessel shall conform to the following standards
Note: Standards are prescribed in CCA.</td><td>The gaseous emissions from various process units are monitored on monthly basis through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results given in the Condition no 4 indicates the conformance to the GPCB prescribed standards vide this CCA.

Complied.</td></tr>
<tr><td>5.1

Sr. No. 5</td><td>Spent Catalyst from various units and Molecular Sieve/alumina desiccant (Sr.No. 1)
Used or Spent Oil (Sr.No.5)
Discarded containers (Sr.No.8)

Facility prescribed for Above listed wastes: Collection, Storage, Treatment and Disposal by selling to registered approved recyclers/reprocessors/Co-processing facility/co-processing in captive power plants.</td><td>Spent catalyst generated from the plants is collected, stored properly and sold to authorized reprocessors for recovery of metal / final disposal.

Used or spent oil generated from the facility is collected in the drums and sold to registered oil recyclers for recovery / final disposal.

Discarded containers generated from the plants are collected, decontaminated, stored properly and then sold to authorized vendor.

Complied.</td></tr>
</table>
Complied.
</td></tr>
<tr><td>ii</td><td>No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests</td><td>All expansion or modernization of petrochemical plants at RIL-DMD have been carried out with prior approval of MoEF&CC / SEIAA.

Complied.</td></tr>
<tr><td>iii</td><td>At no time, the emissions should go beyond the prescribed standards.</td><td>At no time, emissions have exceeded the stipulated standards during the reporting period of Apr’24 – Sept’24.

The summary of flue gas emission results for the period of Apr’24 – Sept’24 is presented as below.
<table>
<tr><th>Plant</th><th>Parameter</th><th>GPCB Consent Limit</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td colspan="6">Flue Gas Emissions</td></tr>
<tr><td></td><td>PM (mg/Nm^3)</td><td>10</td><td>4.05</td><td>2.40</td><td>5.63</td></tr>
</table>
</td></tr>
</table>

GCU Plant - Stack attached Furnaces	SO_2 (mg/Nm^3)	50	6.03	4.24	8.25
	NOx (mg/Nm^3)	350	62.84	51.25	69.34
VCM Plant - Stack attached to EDC Furnaces	PM (mg/Nm^3)	10	4.41	3.36	5.25
	SO_2 (mg/Nm^3)	50	8.14	6.72	9.41
	NOx (mg/Nm^3)	350	64.75	51.85	74.90
CPP Plant - Boilers / HRSGs stacks	PM (mg/Nm^3)	10	5.18	3.12	6.42
	SO_2 (mg/Nm^3)	50	9.47	7.62	11.36
	NOx (mg/Nm^3)	350	61.88	37.56	72.25
PET-3 Plant - Stacks attached to Heaters	PM (mg/Nm^3)	10	4.22	3.10	5.87
	SO_2 (mg/Nm^3)	50	8.51	6.81	9.63
	NOx (mg/Nm^3)	350	62.87	45.15	69.65
CCPP – Stacks attached to Boilers	PM (mg/Nm^3)	50	18.67	15.45	22.15
	SO_2 (mg/Nm^3)	600	270.30	241.65	283.46
	NOx (mg/Nm^3)	300	77.51	71.59	87.78

("– ": Plant was not in operation / under Shutdown)4

Summary of emission results from process stacks for the reporting period Apr'24 – Sept'24 is presented as below

Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
VCM - Stack attached to Incinerator	PM (mg/Nm^3)	150	3.97	2.64	5.42
	SO_2 (mg/Nm^3)	40	6.95	5.38	9.14
	NOx (mg/Nm^3)	25	19.26	15.63	22.78
	Cl_2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.72	2.34	4.76
	HC (mg/Nm^3)	15	1.30	1.21	1.42
	CO (mg/Nm^3)	150	3.44	2.48	4.38
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
VCM Plant – Stack attached to Vent Scrubber	Cl2 (mg/Nm^3)	10	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	30	3.17	2.51	4.65
	HC (mg/Nm^3)	15	< 0.2	< 0.2	< 0.2
Chlor Alkali Plant - Stacks Attached to Hypo and HCl synthesis Unit	Cl_2 (mg/Nm^3)	9	<1.0	<1.0	<1.0
	HCl (mg/Nm^3)	20	3.36	2.25	4.89
PVC Plant- Stacks attached to PVC Dryers	PM (mg/Nm^3)	150	5.02	3.32	5.72
	SO_2 (ppm)	100	8.65	7.16	10.36
	NOx (ppm)	50	24.75	21.52	27.65
	CO (mg/Nm^3)	150	2.84	2.18	3.64
	VCM (mg/Nm^3)	6.6	<1.5	<1.5	<1.5
PTA Plant - Stacks attached to Off gas scrubber,	PM (mg/Nm^3)	150	5.06	3.64	6.88
	SO_2 (mg/Nm^3)	40	<5	<5	<5

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>atmospheric scrubber and vent scrubber</td><td>NOx (mg/Nm^3)</td><td>25</td><td><4</td><td><4</td><td><4</td></tr>
</table>
Above tables indicates that the emissions from various stacks are well within the prescribed standards. Detailed emission results from various stacks can be seen in Annexure III.

Complied.</td></tr>
<tr><td></td><td>In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted unit the desired efficiency has been achieved</td><td>Pollution control systems in the plant are connected through the DCS system. In the event of failure of pollution control system, a trigger / alarm is raised in the DCS system which prevents the plant from restarting.

During the period of Apr’24 – Sept’24, no such failure of pollution control equipment has been observed.

Photograph of the state-of-art control room equipped with DCS system can be seen in Annexure IV.

Complied.</td></tr>
<tr><td>iv</td><td>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA)</td><td>Noise level at the site is monitored on monthly basis through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and it is observed to be well within the prescribed workplace noise level of 85 dBA.

MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II.

The summary of Workplace Noise Level monitoring reports for Apr’24 – Sept’24 is presented below:

<table>
<tr><th>Plants</th><th colspan="3">Workplace Noise Levels dB(A)</th></tr>
<tr><th></th><th>Average</th><th>Min</th><th>Max</th></tr>
<tr><td>CA Plant</td><td>59.58</td><td>50.40</td><td>66.40</td></tr>
<tr><td>VCM Plant</td><td>53.81</td><td>46.70</td><td>57.40</td></tr>
<tr><td>PVC Plant</td><td>58.58</td><td>41.20</td><td>65.10</td></tr>
<tr><td>GCU Plant</td><td>66.63</td><td>57.60</td><td>71.90</td></tr>
<tr><td>EOEG Plant</td><td>54.73</td><td>43.30</td><td>62.90</td></tr>
<tr><td>EPRU-OSBL Plant</td><td>53.16</td><td>54.30</td><td>52.20</td></tr>
<tr><td>HDPE Plant</td><td>57.70</td><td>50.40</td><td>64.20</td></tr>
<tr><td>CPP-I Plant</td><td>53.48</td><td>49.80</td><td>64.20</td></tr>
<tr><td>CPP-II Plant</td><td>58.70</td><td>50.40</td><td>65.30</td></tr>
<tr><td>TIME OFFICE, MG-1</td><td>52.42</td><td>48.40</td><td>56.40</td></tr>
<tr><td>ETP Plant</td><td>56.79</td><td>52.50</td><td>61.70</td></tr>
<tr><td>PTD - I & II Plant</td><td>56.95</td><td>50.50</td><td>59.40</td></tr>
<tr><td>IOP Plant</td><td>60.51</td><td>48.30</td><td>71.30</td></tr>
<tr><td>JETTY</td><td>46.88</td><td>40.20</td><td>54.20</td></tr>
<tr><td>CPP-3 Plant</td><td>56.02</td><td>46.80</td><td>68.10</td></tr>
<tr><td>PET-3 Plant</td><td>55.92</td><td>51.40</td><td>59.30</td></tr>
<tr><td>PTA-5 Plant</td><td>57.08</td><td>50.10</td><td>63.30</td></tr>
<tr><td>PTA-6 Plant</td><td>55.61</td><td>50.10</td><td>59.80</td></tr>
<tr><td>CCPP Plant</td><td>60.95</td><td>50.10</td><td>73.90</td></tr>
<tr><td>Ethane</td><td>54.30</td><td>49.10</td><td>57.70</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Detailed noise monitoring report is enclosed as Annexure XXXII.

Complied.</td></tr>
<tr><td></td><td>By providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.</td><td>Provision of noise control measures including acoustic hoods, silencers, enclosures etc. has been made for all sources of high noise generation.

Photographs of the same is enclosed as Annexure XXXIII.

Complied.</td></tr>
<tr><td></td><td>The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time)</td><td>Ambient noise levels conforms to the standard prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time).

The summary of the ambient noise levels or Apr’24 – Sept’24 is presented below.

<table>
<tr><th rowspan="2">Monitoring Location</th><th colspan="3">Day Time
Limit – 75 dB(A)</th><th colspan="3">Night Time
Limit – 70 dB(A)</th></tr>
<tr><th>Avg</th><th>Min</th><th>Max</th><th>Avg</th><th>Min</th><th>Max</th></tr>
<tr><td>Nr. Ethane Tank</td><td>57.7</td><td>56.3</td><td>58.8</td><td>51.4</td><td>50.7</td><td>52.2</td></tr>
<tr><td>Site Guest House</td><td>56.1</td><td>55.2</td><td>57.3</td><td>51.1</td><td>50.1</td><td>52.1</td></tr>
<tr><td>Nr. CCPP</td><td>55.3</td><td>53.7</td><td>56.4</td><td>49.4</td><td>47.3</td><td>51.2</td></tr>
<tr><td>Nr. PTA</td><td>57.9</td><td>57.2</td><td>58.6</td><td>53.6</td><td>52.2</td><td>54.8</td></tr>
<tr><td>Nr. ETP Guard Pond</td><td>56.4</td><td>55.3</td><td>57.5</td><td>50.8</td><td>50.2</td><td>51.4</td></tr>
<tr><td>RDMT Jetty</td><td>60.8</td><td>59.2</td><td>61.4</td><td>55.2</td><td>54.8</td><td>56.1</td></tr>
<tr><td>Jageshwar village</td><td>57.6</td><td>56.1</td><td>59.6</td><td>51.0</td><td>49.9</td><td>52.2</td></tr>
</table>

Detailed noise monitoring report is enclosed as Annexure XIV.

Complied.</td></tr>
<tr><td>v</td><td>The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc.</td><td>Provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended in 2000 are being complied by ensuring the following activities :
Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXIV.
Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXV.
Conducting mock drills on regular basis. One such mock drill report is enclosed as Annexure XXXVI.
Provision of emergency alert system like sirens, announcement etc and ensuring their healthiness. Details of siren submitted to DISH is enclosed as Annexure XXXVII.
Mutual aid arrangement with neighboring industries. Agreement copy is enclosed as Annexure XXXVIII.
Complied.</td></tr>
<tr><td></td><td>Necessary approvals from Chief Control of Explosives must be provided before commission of the project.</td><td>The approvals required for storage of HC from Chief Control of Explosives are in place and they were obtained before commissioning of the project.

Approval details of the same is enclosed as Annexure XI.</td></tr>
</table>

		Complied.
vi	The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules, 2003.	RIL DMD strictly complies with the rules and regulations of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments thereof. Handling and Disposal of Hazardous wastes generated at site is being done in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed as **Annexure XXXIX.** Complied.
	Authorization form the State Pollution Control Board must be obtained for collection/treatment/ Storage/ disposal of hazardous wastes.	Hazardous waste Authorization has been obtained from GPCB for collection / treatment / storage / disposal of hazardous wastes. Authorization (AWH-121992) from GPCB for collection / treatment / storage / disposal of hazardous wastes is available which is valid up to 03.11.2026. Hazardous wastes collected, stored and disposed during reporting period Apr'24 – Sept'24 is given in **Annexure VIII**. Please refer Form - 4 submitted to GPCB for the year 2023-24 as **Annexure IX.** Complied.
vii	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein.	Adequate funds have been allocated for implementing the conditions stipulated by the statutory authorities. The Environmental Funds expenditure during the reporting period Apr'24 – Sept'24 was around INR. 56.7 Crores. Some of the major areas where environment expenditure incurred during Apr'24 – Sept'24 is appended below: • Environment monitoring – INR 21.27 Lakhs • Online Continuous emission and effluent monitoring systems – INR 48.54 Lakhs • Pollution control systems (Effluent treatment & management / APCM) – INR 51.25 Crores • Waste management – INR 1.87 Crores • Green belt development – INR 1.85 Crores Complied.
	The funds so provided should not be diverted for any other purpose.	The funds provided for Environmental improvement activities are used only for the said purpose. They are not diverted for other activities at site. Complied.
viii	The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal/ Central Pollution Control Board/ State Pollution Control Board.	This condition is not applicable to us.

	A six monthly compliance report and the monitored data should be submitted to them regularly.	Six monthly compliance report and monitoring data is submitted to MoEF&CC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2024/29 dated 27th May, 2024 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/29 dated 27th May, 2024 to Integrated Regional office of MoEF&CC. Also Stacks, Ambient Air Quality Effluent, Noise monitoring reports & Hazardous reports are submitted to GPCB on monthly basis. Proof of submission of last EC Compliance report is enclosed as **Annexure XVI**. Complied.
ix	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in This should be advertised within seven days form the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Regional office.	The public has been informed about the Environment Clearance accorded to this project through Newspaper in English and Gujarati language. The copy of the newspaper publication has been submitted to the MoEF&CC along with the first compliance report of this EC. Newspaper cutting is enclosed as **Annexure XL**. Complied.
x	The project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closures and the date of the commencing the land development work.	The project is completed and commissioned. The necessary information about the project's financial closure and project commencement was provided along with the first compliance report of this EC. Complied.
5	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	This condition is not applicable to us.
6	The ministry reserves the right to stipulate additional conditions if found necessary.	This condition is not applicable to us.
	The company in a time bound manner will implement these conditions	Company has implemented all the conditions prescribed by the Ministry in this EC. Complied.
7	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, Hazardous Wastes (Management And Handling) Rules 2003 and the Public Liability	Noted.

	Insurance Act, 1991 along with their amendments and rules.	

Reliance Industries Limited
Dahej Manufacturing Division

FORM 9
[See rule 18 (2)]
TRANSPORT EMERGENCY (TREM) CARD

1. Characteristics of hazardous wastes and Other wastes :

Sr. No.	Type of waste	Physical Properties	Chemical Constituents	Exposure Hazards	First aid Requirements
1	Used / Spent Oil	Liquid	Oil / Hydrocarbon	Exposure to open cut/wounds on body may cause irritation	Wash the exposed part of the body with water.

2. Procedure to be flowed in case of fire : In case of foam based fire extinguisher to be used

3. Procedure to be followed in case of spillage/accident/explosion :

- ✓ Notify police and Fire brigade immediately.
- ✓ If possible, move the vehicle to open ground.
- ✓ Stop the engine.
- ✓ Mark roads and warn other road users
- ✓ Keep people away from the area.
- ✓ No naked lights. No smoking. (For vehicle safety.)
- ✓ Contain the leaking liquid with sand or earth or consult an expert

4. For expert services, please contact :

v) Name & Address : Site Shift Manager
Reliance Industries Ltd.
Dahej Manufacturing Division
P.O.: Dahej 392130
Taluka: Vagra, Dist.: Bharuch
Gujarat

vi) Telephone No. : +91-2641-616021 / 616022
+ 91-9998001085

(Name, contact number and Signature of sender)

Date:
Place:

Asian Barrels. [50924]

(Hazardous Waste Manifest)

Manifest No: 2604952
19/07/2024

Copy 2

To be forwarded by To be Carried by the occupier after taking signature on it form the transporter.

Sender's Details			
Sender Name	**Reliance Industries Ltd. [15565]**		
Address	Dahej Manufacturing Division,P.O. DAHEJ, TAL. VAGRA, Taluka :VAG Distict:BHA Pin no:392130		
Contact Details	6352260494 rajaraman.c@ril.com	**GPS Coordinates**	**Lat :**21.684880353570033 **Long :**72.58639820539504
Guardian Detail	Mr. Parakram Adams, Deputy General Manager, 7600005762, parakram.adams@ril.com		

Receiver's Details			
State	Gujarat	**Type of Facility**	Actual user (within state)
Facility Details	Asian Barrels. [50924]		
Contact Details	8401936258 asian_barrels@yahoo.com	**GPS Coordinates**	**Lat :**21.579830926025984 **Long:**72.9981311201169
Address	Opp; Gate no:1 of GIDC, Panoli, NH -8,- Taluka :ANK Distict:ANK Pin no:394116		

Waste Details					
Waste Details					
Waste Intended for	Recycling	**Total Qty**	1.380MT	**Consistency**	Solid

Transporter Details			
Name	ASIAN BARRELS	**Contact Details**	9879038285 asian_barrels@yahoo.com
Address	Survey No. 312 Paiki plot no.1 GIDC Estate Panoli ,Survey No. 312 Paiki plot no.1 GIDC Estate Panoli District :Bharuch Taluka :Bharuch		

Vehicle Details					
Vehicle no	GJ16AV0619 (IMEI No :862095058926954)	**GPS Enabled**	Yes	**Type of Vehicle**	Tempo
Driver name	SAMSUL HASAN KHAN	**Driver Contact No**	9724917242		

Waste Transportation Details							
Vehicle Depart.	19/07/2024 4:00PM	**Trip Start**	19/07/2024 3:45PM	**No of Drums**	144	**Loose Waste**	0.000
Remarks	Decontaminated Empty Barrels / Containers - Plastic drums, CAP. 200 Ltrs. (CAT No. 33.11)			**No of bags**	0		

Sender's Declaration :

(1) The above contents of hazardous/ other wastes consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked and labeled, and are in all respects in proper conditions for its transport from aforementioned location to common facility or captive facility or actual user by way of road/ transportation in accordance with the applicable central as well as state government regulations.

(2) I have obtained membership of common facilities/ carried out agreement with actual user for disposal/ actual use of hazardous waste having authorization under Rule-9.

(3) I do hereby verify that no part of manifest is false and nothing has been concealed. If any information sprouts to be false or concealed, I will be held responsible for the consequences under HOWM Rules, 2016 and amendments thereof.

Name and stamp of sender: **Date:** **Signature:**

Transporter's Acknowledgement of Receipt of waste

Stamp: **Date:** **Signature:**

Receiver's Certification of Receipt of Hazardous waste

I, hereby declare that the said waste is received at the facility/unit for which I have valid CCA (under Rule-9 in case of recycling) for its disposal/ utilization. I also declare this information to be true failing which I will be held responsible for the consequences under HOWM Rules, 2016 and amendments thereof. I hereby, accept/ reject the manifest.

In Principal Approval Details :Accepted - 19/07/2024 3:37PM - Remarks :ok

Stamp: **Date:** **Signature:**

By scanning QR code, copy of transporter will be display. (All copy has same information)

Annexure XLIV

Photograph of Flow Meters installed at ETP

Flow Meters installed at ETP inlet

Flow Meters installed at ETP outlet

Annexure XLV

Photographs of Continuous Effluent Monitoring System

Analysers of Continuous Effluent Monitoring System installed at outlet

Analyzer room for Continuous Effluent Monitoring System

Annexure XLVI

Reliance Industries Limeted

DAHEJ MANUFACTURING DIVISION

Effluent Treatment Plant

PH-I FIELD LOG SHEET

DATE: 11/08/24

DAY: SUNDAY

TIME	SANITARY WASTE				VCM WASTE					DM,CA & CHEMICAL WASTE				TREATED EFFLUENT								COOLING TOWER BLOW DOWN 94-P-07		HCl Tank Level 94-T-07		
	PUMP 94-P-15		BLOWER 94-K-02		INLET	EQ.TANK		PUMP 94-P-03		N.PIT INLET	N.PIT OUTLET	AGITATOR 94-NP-02		PUMP 94-P-07 F		G		H		BLOWER 94-K-03		D	E		94-P50-A	94-P50-B
	A PRE.	B PRE.	A	B	PH	A PH	B PH	D PRE.	E PRE.	PH	PH	A	B	Amp.	Pre.	Amp.	Pre.	Amp.	Pre.	A	B	Pre.	Pre.			
06:30	2.6	–	HR	HR	7.6	–	–	–	–	8.7	7.1	ON	ON	189	5.8	–	–	189	5.8	HR	HR	NA	NA	205	Auto	Auto
07:30	2.8	–	NR	HR	7.6	–	–	–	–	8.8	7.1	ON	ON	188	5.8	–	–	189	5.8	NR	NR	NA	NA	205	Auto	Auto
08:30	2.5	–	HR	HR	7.5	–	–	–	–	8.9	7.2	ON	ON	186	5.7	–	–	190	5.7	HR	HR	NA	NA	204	Auto	Auto
09:30	2.6	–	HR	HR	7.6	–	–	–	–	8.9	7.2	ON	ON	185	5.7	–	–	190	5.7	HR	HR	NA	NA	204	Auto	Auto
10:30	2.6	–	HR	HR	7.5	–	–	–	–	9.0	7.4	ON	ON	186	5.6	–	–	190	5.6	HR	HR	NA	NA	204	Auto	Auto
11:30	2.5	–	HR	HR	7.6	–	–	–	–	9.2	6.8	ON	ON	217	6.0	209	6.0	–	–	HR	HR	NA	NA	204	Auto	Auto
12:30	2.6	–	HR	HR	7.5	–	–	–	–	9.5	7.3	ON	ON	211	5.8	216	5.8	–	–	HR	HR	NA	NA	203	Auto	Auto
13:30	SIB	SIB	NR	NR	7.43	–	–	–	–	8.7	7.0	ON	ON	190	4.59	203	4.59	–	–	NR	NR	NA	NA	200	Auto	Auto
14:30	ON	ON	NR	NR	7.51	–	–	–	–	ON	6.8	ON	ON	198	6.16	198	6.16	–	–	NR	NR	NA	NA	199	Auto	Auto
15:30	SIB	SIB	NR	NR	7.66	–	–	–	–	8.7	7.2	ON	ON	197	6.14	197	6.14	–	–	NR	NR	NA	NA	199	Auto	Auto
16:30	SIB	SIB	NR	NR	7.77	–	–	–	–	6.9	7.2	ON	ON	194	5.86	198	5.86	–	–	NR	NR	NA	NA	199	Auto	Auto
17:30	SIB	SIB	NR	NR	7.72	–	–	–	–	7.8	7.2	ON	ON	–	–	193	6.20	185	6.20	NR	NR	NA	NA	198	Auto	Auto
18:30	SIB	SIB	NR	NR	7.52	–	–	–	–	7.5	6.8	ON	ON	–	–	192	6.16	184	6.16	NR	NR	NA	NA	197	Auto	Auto
19:30	ON	ON	NR	NR	7.47	–	–	–	–	7.9	6.9	ON	ON	–	–	192	6.16	184	6.16	NR	NR	NA	NA	197	Auto	Auto
20:30	ON	ON	NR	NR	7.35	–	–	–	–	6.0	7.0	ON	ON	–	–	191	6.13	184	6.13	NR	NR	NA	NA	197	Auto	Auto
21:30	SIB	SIB	NR	NR	7.45	–	–	–	–	8.1	6.9	ON	ON	–	–	191	6.05	185	6.05	NR	NR	NA	NA	196	Auto	Auto
22:30	ON	SIB	NR	NR	7.60	–	–	–	–	8.3	6.9	ON	ON	–	–	190	5.96	187	5.96	NR	NR	NA	NA	196	Auto	Auto
23:30	ON	SIB	NR	NR	7.82	–	–	–	–	8.4	7.6	ON	ON	–	–	189	5.90	187	5.90	NR	NR	NA	NA	195	Auto	Auto
00:30	ON	SIB	NR	NR	7.75	–	–	–	–	8.0	7.1	ON	ON	–	–	187	5.75	187	5.75	NR	NR	NA	NA	194	Auto	Auto
01:30	ON	SIB	NR	NR	7.72	–	–	–	–	7.9	6.7	ON	ON	–	–	186	5.60	187	5.60	NR	NR	NA	NA	193	Auto	Auto
02:30	ON	SIB	NR	NR	7.48	–	–	–	–	8.8	7.1	ON	ON	–	–	183	5.48	187	5.48	NR	NR	NA	NA	192	Auto	Auto
03:30	ON	SIB	NR	NR	7.55	–	–	–	–	7.9	6.8	ON	ON	–	–	180	5.38	187	5.38	NR	NR	NA	NA	191	Auto	Auto
04:30	ON	SIB	NR	NR	7.50	–	–	–	–	8.5	6.9	ON	ON	216	6.12	–	–	181	6.12	NR	NR	NA	NA	191	Auto	Auto
05:30	ON	SIB	NR	NR	7.60	–	–	–	–	6.9	6.8	ON	ON	216	6.12	–	–	180	6.12	NR	NR	NA	NA	190	Auto	Auto
TOTAL RUNNING HRS.																										

"A" SHIFT TECH.: SRP.

SHIFT INCHARGE

"B" SHIFT TECH.: KRR

SHIFT INCHARGE

"C" SHIFT TECH.: PAP

SHIFT INCHARGE

DDS/KRR/NKP/NCA/PAP

THE ADEQUACY CERTIFICATE OF ENVIRONMENT MANAGEMENT SYSTEM

The Environmental Engineering Laboratory, M. S. Patel Department of Civil Engineering, **Charotar University of Science & Technology, Changa** is recognized by the GPCB, Gandhinagar under the Environmental Audit Scheme introduced by the Hon'ble High Court Gujarat, vide its orders dated 20/12/1996 and 13/3/1997 and modified order dated 16/9/1999, as an environmental auditor for the purpose of the auditing, having carried out Environmental audit of,

- M/s. RELIANCE INDUSTRIESLIMITED.

- Located at: Dahej Manufacturing Division, Tal: Vagra Dist: Bharuch

- Manufacturing products as under:

Sr. No.	Plants	Products	Total Capacity (MTPA)
1.	Ethane Propane Recovery Unit (EPRU)	Ethane / Propane	650000
2.	Gas Cracker Unit (GCU)	Ethylene	550000
		Propylene	160000
3.	Vinyl Chloride Monomer (VCM)	Ethylene Dichloride	588000
		Vinyl Chloride Monomer	360000
4.	Polyvinyl Chloride (PVC)	Polyvinyl Chloride	360000
5.	Chlor Alkali Plant (CA)	Chlorine	187000
		Caustic Soda	221000
6.	Ethylene Oxide (EO) / Ethylene Glycol (EG)	Ethylene Oxide	80000
		Ethylene Glycol	308350
7.	High Density Poly Ethylene (HDPE)	HDPE-I / HDPE-II	240000
		UHMW - PE	2500
8.	Ethylene Vinyl Acetate (EVA)	EVA	13000

Sr. No.	Plants	Products	Total Capacity (MTPA)
9.	Purified Terephthalic Acid (PTA)	Purified Terephthalic Acid	3000000
10.	Polyethylene Terephthalate (PET)	Polyethylene Terephthalate	1000000
11.	Captive Power Plant	Power	195 MW
12.	Coal based Captive Co-generation Power Plant	Power	270 MW
13.	Gas Cracker Unit (GCU)	Mixed C_4+	40000
		RARFS (Pyrolysis gasoline)	54750
		Fuel Oil	40000
		Tar Residue	5472
14.	Vinyl Chloride Monomer (VCM)	HCl	36000
15.	Chlor Alkali Plant (CA)	Sodium Hypochlorite	11000
		Dilute H_2SO_4	4600
		HCl	15000
16.	Ethylene Oxide (EO)/ Ethylene Glycol (EG)	Di Ethylene Glycol	30550
		Tri Ethylene Glycol	1270
		PEG	19850
		TEG Bottom	2880
17	Purified Terephthalic Acid (PTA)	Crude Benzoic Acid Mix	60000

Having completed the environmental audit based on personal monitoring, and audit report, prepared as per the direction of the Hon'ble High Court in Environmental Audit Scheme, it is certified that the Environmental Management System (EMS) provided by this industry for the products manufactured and capacity as stated above is Adequate & Efficient to achieve the quality of effluents (Air + Wastewater + Solid Waste) as specified in consent/Notifications by GPCB, Gandhinagar for the following quantity of waste generation:

Liquid Effluent	Including Chemical Units	1. Industrial Effluent	48802 KL/Day
		2. Domestic Wastewater (Sewage)	2000 KL/Day
Solid Waste Solid Waste		**1.** Spent catalyst from various units and molecular sieves/ Alumina Desiccant	As per the Consent
		2. Slop Oil from Waste Water treatment	
		3. Chemical Sludge from waste water treatment	
		4. ETP Sludge containing Polymeric constituents	
		5. Used or Spent Oil	
		6. Waste /residues containing oil	
		7. Process Residue (Residue from Vinyl Chloride Monomer Production)	
		8. Discarded Containers	
		9. Bags / Liners	
		10. Sludge & Filters contaminated with oil	
		11. Spent Carbon	
		12. Spent ion exchange resin	
		13. Spent Solvent (Degraded Dowtherm)	
		14. Cargo/Tank Residue, Washing water and Sludge containing Oil	
		15. Cargo/Tank Residue and Sludge Containing Chemical	
		16. Bilge Water Containing Oil from Ships	
		Other (Non- Hazardous) Waste	
		17. Brine Sludge	
		18. Polymer Lumps/ Sweep Powder	
		19. Polymer Lumps/ Sweep Powder	

Air Emissions Flue gas Stacks as well as process stacks	**Adequate**/~~not adequate,~~ **Efficacious**/~~not efficacious~~

This certificate is valid for the audit report/ Audit Period only. However, it is subject to automatic cancellation in case of any change in product profile/capacity, quality and quantity of effluent emission (Air + Waste Water + Solid/Hazardous) and efficiency of EMS equipment.

This Certificate forms part of environmental audit report.

Name & Address of the Environmental Auditor

Environmental Engineering Laboratory, M. S. Patel Department of Civil Engineering,
Charotar University of Science & Technology,
CHARUSAT Campus, Changa, Dist.: Anand, State: Gujarat - 388 421

Signature of Environmental Auditor

Sr. No.	Name & Designation	Sign
1	**Dr. Dipeshkumar Sonaviya** (Environmental Engineer)	
2	**Mr. Gaurav R. Patel** (Chemical Engineer)	
3	**Dr. Bragadish Iyer** (Microbiologist)	
4	**Mr. Jinit R. Patel** (Chemist)	

Date: 28/06/24

Environmental Engineering Laboratory CHARUSAT

Place: Changa, Anand

MONITORING OF MARINE WATER AND SEABED SEDIMENT QUALITY

PRE-MONSOON SEASON

March - June

For

Reliance Industries Limited,
Dahej Manufacturing Division, Dahej
Dist: Bharuch, Gujarat.

INDOMER COASTAL HYDRAULICS (P) LTD.
(ISO 9001: 2015 CERTIFIED, NABET-QCI, NABL AND CDC - MoST ACCREDITED)
63, GANDHI ROAD, ALWAR THIRUNAGAR, CHENNAI 600 087.
Tel: + 91 44 2486 2482 to 84 Fax: + 91 44 2486 2484
Web site: www.indomer.com, E-mail: ocean@indomer.com

INDOMER COASTAL HYDRAULICS (P) LTD.
(ISO 9001 : 2015 CERTIFIED,QCI-NABET, NABL & CDC-MoST ACCREDITATED)
63, Gandhi Road, Alwar Thirunagar, Chennai 600 087.
Tel: + 91 44 2486 2482 to 84; M: + 91 99401 41650; Fax: + 91 44 2486 2484
Web site: www.indomer.com, E-mail: ocean@indomer.com

Client	Reliance Industries Limited, Dahej Manufacturing Division, Dahej, Bharuch district, Gujarat.
Project Title	Monitoring of marine water and seabed sediment quality, Pre-monsoon season (March – June)

Abstract

Reliance Industries Ltd., (RIL) is India's largest company in the private sector and is organized in three major business segments viz. exploration and production of oil and gas, refining/ marketing of petroleum products and manufacturing and marketing of petrochemicals, polymers, polyesters, polyester intermediates. RIL has major manufacturing facilities located in Jamnagar, Dahej, Hazira, Baroda and Naroda in Gujarat. Nagothane, and Patalganga in Maharashtra, Silvassa in Union Territory (UT) of Dadra & Nagar Haveli and Kakinada in Andhra Pradesh.

Dahej Manufacturing Division (DMD) of RIL which was originally called the Gandhar Petrochemical Plant (GPP) of the erstwhile Indian Petrochemical Corporation Ltd. (IPCL) is located in the Notified Industrial Area declared by Gujarat Industrial Development Corporation (GIDC), Government of Gujarat, Tehsil Vagra, District Bharuch, state of Gujarat. It is a multi-product, fully integrated complex manufacturing a wide range of petrochemicals, polymers and polymer intermediates. The design of effluent treatment system at DMD is such that each plant has its own effluent collection system where it is given a preliminary treatment and then sent to the Central Effluent Treatment Plant for further treatment. The treated effluent is recycled to the maximum extent and only unused effluent is discharged into Gulf of Khambhat through a 6.5 km pipeline provided with a multiport, subsurface diffuser.

Indomer Coastal Hydraulics (P) Ltd. was appointed by RIL to carry out one season marine monitoring as a part of its post project environment monitoring requirement. Accordingly, the marine water and seabed sediment sampling was conducted during Pre-monsoon season (April 2017).

Document type	Controlled				
Date	Report Type	Originator	Checked by	Approved by	Approver's Sign
06.09.2017	Final	Dr. A. Kannathasan	V. Kesava Das	Dr. P. Chandramohan	
	File Location	F:/2017 Projects/Sep 17/ RIL		Text pages	38
				Tables	29
				Figures	2

INDOMER COASTAL HYDRAULICS (P) LTD. CHENNAI

Annexure XLIX

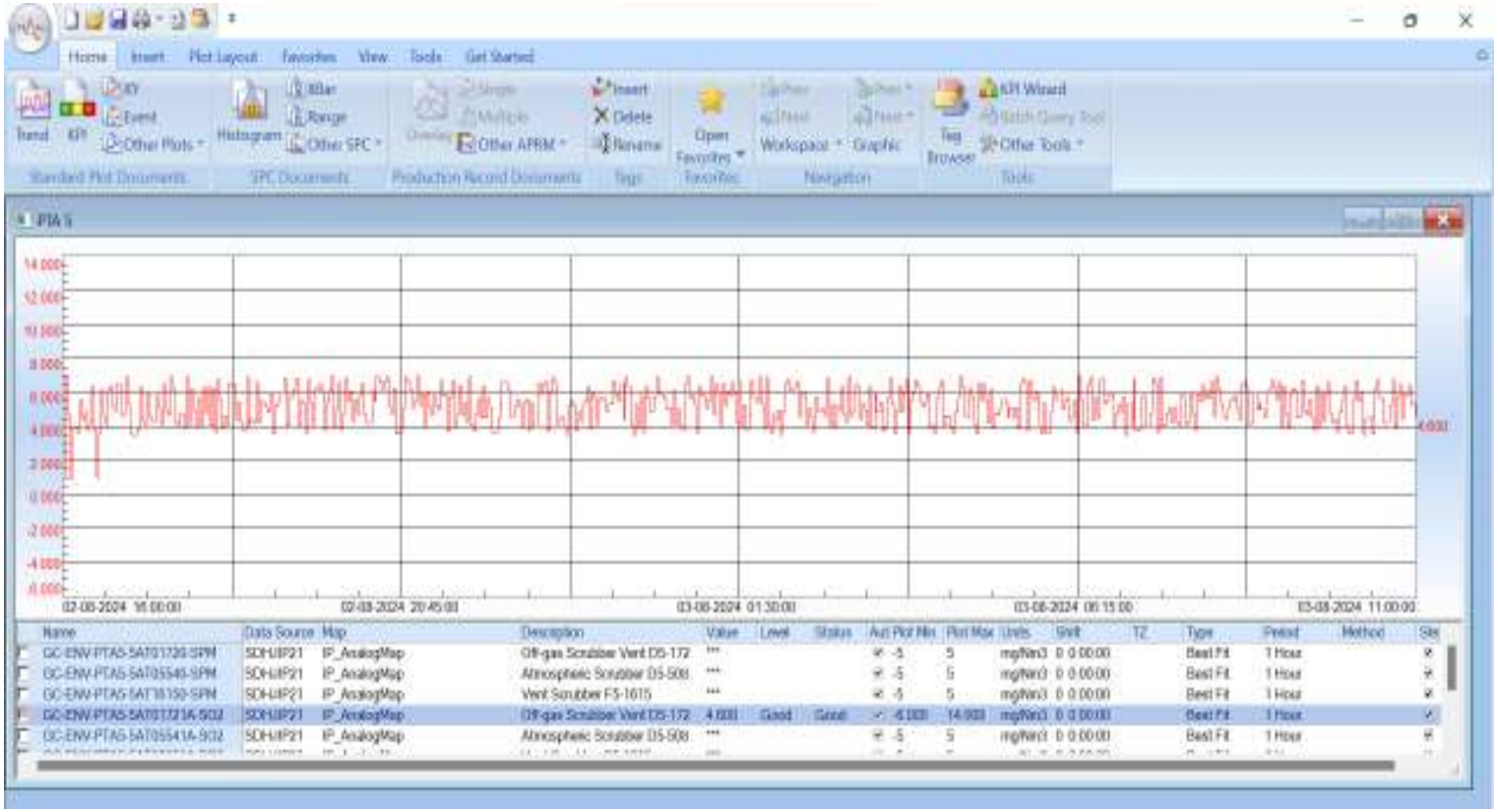
Photographs of Stacks in PTA and PET Plants

Stack attached with Off Gas Scrubber in PTA Plant

Stacks attached with HTM Heaters in PET Plant

Annexure L

PTA Stack- Aspen Process Explorer V10- aspen ONE - [PTA Stack]



Reliance Industries Limited
Dahej Manufacturing Division

LDAR LEVEL 1 | Frequency: Daily | Plant: MTA-5

DATE DD/MM/YYYY	Odour Y/N	Dripping Y/N	Hissing Sound Y/N	Icing Y/N	Fumes/ Vapour Y/N	Temp. Y/N	Any Other Y/N	If Yes, Give Detail of					REMARK	NAME & SIGN OF OPERATOR	NAME & SIGN OF ENGINEER
								Section Name	Sub Section Name	Equipment Type (Pump,Compressor, PRVs, Valves, Flanges etc.)	Sources ID number	Service Material			
14/06/24	Y	Y	N	Y	N	Y	N	Separation	D-Area	Relief valve	410C	A.A.	over flow below		
15/06/24	Y	Y	N	Y	N	Y	N	"	"	CRU-B	GS-719B	A.A	disc. below leak		
16/06/24	Y	Y	N	N	N	Y	Y	Reaction	B-Area	FT	HP solvent	A.A	HP solvent to sump		
17/06/24	Y	Y	N	Y	N	Y	N	"	"	Flange	GS-304	DM.water	Caustic to 304		
18/06/24	Y	Y	N	N	N	N	Y	"	"	Valve	DS.M-A	Caustic	DM water to DS.M-A		
19/06/24	Y	Y	N	Y	N	Y	Y	Separation	D-Area	Flange	Reac-A	Caustic	Caustic line		
20/06/24	Y	Y	N	Y	Y	Y	Y	"	"	Bellow	Reac-C	M.L	over flow bellow		
21/06/24	Y	Y	N	Y	Y	Y	Y	"	"	F. Hose	Reac-C	M.L	"		
22/06/24	Y	Y	N	Y	Y	Y	N	"	"	CS-416A		A.A	NPF side Flange		
23/06/24	Y	Y	N	Y	Y	Y	N	"	"	Flange	427 screw	Acid + powder	Flange leak		
24/06/24	Y	Y	N	Y	Y	Y	N	"	"	Steam line	427	Steam	Steam to 427 Flange		
25/06/24	Y	Y	N	Y	Y	Y	N	"	"	Flange	CRU-A	M L	427 A/B/C to CRU-A		
26/06/24	Y	Y	N	N	Y	Y	N	Solvent	T-Area	Valve	Flaker	Caustic	Caustic to Flaker feed line		
27/06/24	Y	Y	N	N	Y	Y	N	Solvent	T-Area	FT	GS-607 FT	A.A	607 A/B DIS. FT Flange		
28/06/24	Y	Y	N	N	Y	Y	N	Solvent	T-Area	Flange	GS-606 B	A.A	SUCTION VALVE OUT DIS Flange		

Reliance Industries Limited
Dahej Manufacturing Division

June-24

Plant: PTA -5

10/6/24

LDAR - LEVEL - II | Frequency: Monthly | Month: June

Name of Person Monitoring: Siddhanth | Equipment used:

Sl No.	Monitoring Date	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	Concentration observed (%)	Date of Notification to Plant Maintenance	Status of leak (Attended/ S/D job, Inaccessible)	Date of monitoring after repair	Concentration after Repair (%)	Remark
1		Hydrogen Area	P area	CS-1350A	Comp Suc I/V U/S and D/S	Hydrogen	0					
2				CS-1350A	Suc vent I/V D/S	Hydrogen	0					
3				CS-1350A	Comp Suc control valve D/S	Hydrogen	0					
4				CS-1350A	Comp Suc Seperator inlet and outlet	Hydrogen	0					
5				CS-1350A	Comp Suc BD U/S flange	Hydrogen	0					
6				CS-1350A	Comp Suc N2 purging I/V D/S	Hydrogen	0					
7				CS-1350A	Comp Suc Seprator Top Flange	Hydrogen	0					
8				CS-1350A	Comp suc seperator LT upper I/V U/S and d/S	Hydrogen	0					
9				CS-1350A	Comp Suc seperator LT bottom I/V U/S and D/S	Hydrogen	0					
10				CS-1350A	Comp Suc Seprator LT Flange and LT Drain I/V D/S	Hydrogen	0					
11				CS-1350A	Comp suc seperator LT upper Drain I/V D/S	Hydrogen	0					
12				CS-1350A	Comp Suc seperator LT bottom Drain I/V D/S	Hydrogen	0					
13				CS-1350A	Comp Suc Seprator Drain line & I/V D/S FO Flange	Hydrogen	0					
14				CS-1350A	Comp Suc filter U/S and D/S	Hydrogen	0					
15				CS-1350A	Comp 1St stage inlet and Outlet	Hydrogen	0					
16				CS-1350A	Comp 1St stage cooler inlet and Outlet	Hydrogen	0					
17				CS-1350A	Comp 1St stage Dish to Inter stage seperator inlet	Hydrogen	0					
18				CS-1350A	Comp Inter stage seperator Top Flange & LT Drain I/V D/S	Hydrogen	0					
19				CS-1350A	Comp Inter stage Seperator LT upper/Bottom I/V U/S & D/S	Hydrogen	0					
20				CS-1350A	Comp Inter stage Seperator LT Top Flange	Hydrogen	0					

Signature (Plant Manager) : Pelli

Signature (Maintenance Manager) : MMS

June - 24

Reliance Industries Limited
Dahej Manufacturing Division

Plant: PTA-5

LDAR - LEVEL - III | Frequency: Quarterly | Quarter: June

Name of Person Monitoring: Siddharth | Equipment used:

Sl No.	Monitoring Date	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	Concentration observed (ppm / ppb)	Date of Notification to Plant Maintenance	Status of leak (Attended/ S/D /o/l, Inaccessible)	Date of monitoring after repair	Concentration after Repair (ppm / ppb)	Remark
1	29/06/24	Hydrogen	P area	BD 610130 flange		H2	0					
2	"	Hydrogen	P area	RVB10130 associated flange		H2	0					
3	"	Hydrogen	P area	FO 61179 D6-1361A/B flange conc.		H2	0					
4	"	Hydrogen	P area	D6-1361A/B d/s FO 61180flanges		H2	0					
5	"	Hydrogen	P area	MB-1360A/B filter u/s,d/s flange		H2	0					
6	"	Hydrogen	P area	LT 61106 associated flanges		H2	0					
7	"	Hydrogen	P area	E6-1367 A/B realted flanges (u/s,d/s flange)		H2	0					
8	"	Hydrogen	P area	D6-1366 (u/s,d/s flanges LEL check)		H2	0					
9	"	Hydrogen	P area	LT 61116 associate flanges		H2	0					
10	"	Hydrogen	P area	D6-1361 A/B bottom flange		H2	0					
11	"	Hydrogen	P area	D6-1368A/B d/s flanges		H2	0					
12	"	Hydrogen	P area	D6-1368 A/B bottom FO 10654/B flanges		H2	0					
13	"	Hydrogen	P area	D6-1368 A/B u/s d/s flange checking		H2	0					
14	"	Hydrogen	P area	D6-1362 A/B u/s fainges FO		H2	0					
15	"	Hydrogen	P area	D6-1362A/B d/s flange FO 61184 realted flanges		H2	0					
16	"	Hydrogen	P area	FO 61185 (off loading to safe area flanges)		H2	0					
17	"	Hydrogen	P area	KV 61115B u/s d/s flanges		H2	0					
18	"	Hydrogen	P area	D6-1363B associated flanges		H2	0					
19	"	Hydrogen	P area	KV-61130 KI B associated flanges		H2	0					
20	"	Hydrogen	P area	KVB1167 associated flanges		H2	0					

Signature (Field Executive) :- Sid

No. of Leakages found = 0

For neccesary action to attend leak and inform action taken :

Sign (Plant Manager):-
No. of leakages attended :
No. of Inaccesible Points/Area :
Sign (Maintenance Manager):-
Back to Plant Manager
Copy : HOD (Environment)

Photograph of PTA Storage Tanks

Annexure LIII

Photograph of Oil Separator Unit and Slop Oil Tank

Oil Separator Unit

Slop Oil Storage Tanks

Photograph of CAAQMS

BEIL Infrastructure Ltd [40137]

Manifest No: 2526553
09/05/2024

Copy 2

To be forwarded by To be Carried by the occupier after taking signature on it form the transporter.

Sender's Details			
Sender Name	**Reliance Industries Ltd. [15565]**		
Address	Dahej Manufacturing Division,P.O. DAHEJ, TAL. VAGRA, Taluka :VAG Distict:BHA Pin no:392130		
Contact Details	6352260494 rajaraman.c@ril.com	**GPS Coordinates**	**Lat :**21.684880353570033 **Long :**72.58639820539504
Guardian Detail	Mr. Parakram Adams, Deputy General Manager, 7600005762, parakram.adams@ril.com		

Receiver's Details			
State	Gujarat	**Type of Facility**	Common TSDF
Facility Details	BEIL Infrastructure Ltd [40137]		
Contact Details	9099057365 mistryrg@beil.co.in	**GPS Coordinates**	**Lat :**21.7240193450719 **Long:**72.59621502850457
Address	GIDC , DAHEJ, Taluka :VAG Distict:BHA Pin no:392130		

Waste Details					
Waste Details	I~35~35.3~Chemical sludge from waste water treatment				
Waste Intended for	LandFill	**Total Qty**	12.180MT	**Consistency**	Solid

Transporter Details			
Name	KRUNAL LOGISTICS SERVICES	**Contact Details**	7575022676 pravinvaghamshi72@gmail.com
Address	206 candle plaza golden point, ,GIDC Colony, Ankle,206 candle plaza golden point, ,GIDC Colony, Ankle District :Ankleshwar Taluka :Ankleshwar		

Vehicle Details					
Vehicle no	GJ05BT3530 (IMEI No :358980100418459)	**GPS Enabled**	Yes	**Type of Vehicle**	Truck
Driver name	Ramlal	**Driver Contact No**	9601862098		

Waste Transportation Details							
Vehicle Depart.	09/05/2024 1:30PM	**Trip Start**	09/05/2024 12:16PM	**No of Drums**	0	**Loose Waste**	12.180
Remarks	ETP SLUDGE				**No of bags**	0	

Sender's Declaration :

(1) The above contents of hazardous/ other wastes consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked and labeled, and are in all respects in proper conditions for its transport from aforementioned location to common facility or captive facility or actual user by way of road/ transportation in accordance with the applicable central as well as state government regulations.

(2) I have obtained membership of common facilities/ carried out agreement with actual user for disposal/ actual use of hazardous waste having authorization under Rule-9.

(3) I do hereby verify that no part of manifest is false and nothing has been concealed. If any information sprouts to be false or concealed, I will be held responsible for the consequences under HOWM Rules, 2016 and amendments thereof.

Name and stamp of sender: **Date:** **Signature:**

Transporter's Acknowledgement of Receipt of waste

Stamp: **Date:** **Signature:**

Receiver's Certification of Receipt of Hazardous waste

I, hereby declare that the said waste is received at the facility/unit for which I have valid CCA (under Rule-9 in case of recycling) for its disposal/ utilization. I also declare this information to be true failing which I will be held responsible for the consequences under HOWM Rules, 2016 and amendments thereof. I hereby, accept/ reject the manifest.

Stamp: **Date:** **Signature:**

By scanning QR code, copy of transporter will be display. (All copy has same information)

Annexure LVI

Photograph of Internal Garland Drains

Annexure LVII

Photographs of Tank Farm Area

Naphtha Tank

MEG / DEG Storage Tanks

Loading Arms at Tank Farm

Annexure LVIII

Photograph of First Aid Box kept at Plant Control Room

First Aid Kit at CCPP

First Aid Kit at ETP

Training Details - April 2024 - September 2024

Sr.No.	EC	Name of Participant	Org Unit	Title of Program	Date of Program	Month	Duration (Hrs)
1	16247298	Mr. Ritesh Nandeda	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
2	16247508	Mr. HARSH VED	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
3	16247285	Mr. Soaeb Mustakbhai Agariya	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
4	16247214	Mr. Ishan Sanketkumar Patel	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
5	16247490	Mr. RAMRAJ MEENA	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
6	16247247	Mr. KANNURU KURMA	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
7	16247511	Mr. ABIRAM MENON	MFG DMD HR - L&D -Chlor Alkali Productio	Environment Management System	04.04.2024	Apr-24	4
8	16247513	Mr. Sunil Kumar	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
9	16247358	Mr. Revanth Nakirekanti	MFG DMD HR - L&D -Reliability Civil	Environment Management System	04.04.2024	Apr-24	4
10	16247365	Mr. Mudabbir Shah Khan	MFG DMD HR - L&D -Ethane Production	Environment Management System	04.04.2024	Apr-24	4
11	16247357	Ms. Aditi Tata	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
12	16247521	Mr. Vishnu Savaram	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
13	16247356	Mr. Krunal Vinubhai Parmar	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
14	16247489	Mr. Kartik Kadel	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
15	16247326	Mr. Andrew George	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
16	16247268	Mr. MOHIT PATHAK	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
17	16247470	Mr. Vishnu Vijay	MFG DMD HR - L&D -ETP-3 Maint	Environment Management System	04.04.2024	Apr-24	4
18	16247363	Ms. Sonakshi Rajpoot	MFG DMD HR - L&D -Ethane Production	Environment Management System	04.04.2024	Apr-24	4
19	16247385	Mr. Shubham Regar	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
20	16247551	Mr. Chinmay Bilgi	MFG DMD HR - L&D -ETP-3 Maint	Environment Management System	04.04.2024	Apr-24	4
21	16247248	Ms. Devleena Talukdar	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
22	16247345	Mr. SIDDHANT SONI	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
23	16247370	Mr. SUNIL KUMAR	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
24	16247369	Mr. Sahil Kapoor	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
25	16247443	Mr. Harsh Kotak	MFG DMD HR - L&D -Chlor Alkali Productio	Environment Management System	04.04.2024	Apr-24	4
26	16247288	Mr. Sreyas Dev	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
27	16247361	Mr. Praveen Kumar	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
28	16247291	Mr. Manish Bondre	MFG DMD HR - L&D -Chlor Alkali Productio	Environment Management System	04.04.2024	Apr-24	4
29	16247344	Ms. Anisha Raut	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
30	16247283	Mr. Nisarg Dharmeshkumar Shukla	MFG DMD HR - L&D -Chlor Alkali Productio	Environment Management System	04.04.2024	Apr-24	4
31	16247401	Mr. Aromal R	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
32	16247297	Mr. Hemant Patel	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
33	16247355	Mr. Khushveer C	MFG DMD HR - L&D -CCPP Maint	Environment Management System	04.04.2024	Apr-24	4
34	16247224	Mr. Yagnesh Bhatiya	MFG DMD HR - L&D -ASU Production	Environment Management System	04.04.2024	Apr-24	4
35	16247506	Mr. VICKY SINGH	MFG DMD HR - L&D -Reliability Civil	Environment Management System	04.04.2024	Apr-24	4
36	16247262	Mr. Kavan Shah	MFG DMD HR - L&D -Chlor Alkali Maint	Environment Management System	04.04.2024	Apr-24	4
37	16247520	Ms. Meenal Verma	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
38	16247368	Mr. Rushi Patel	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
39	16247299	Mr. Karankumar Parmar	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
40	16247491	Mr. Sailesh Kumar P R	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
41	16247353	Mr. Kamal Paliwal	MFG DMD HR - L&D -Chlor Alkali Maint	Environment Management System	04.04.2024	Apr-24	4
42	16247352	Mr. Ankit Kumar	MFG DMD HR - L&D -Chlor Alkali Maint	Environment Management System	04.04.2024	Apr-24	4
43	16247371	Mr. Sama Chandrahas Goud	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
44	16247295	Mr. Rushikesh Bhatt	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
45	16247456	Mr. Saurav Devipur	MFG DMD HR - L&D - Maintenance - Ethane	Environment Management System	04.04.2024	Apr-24	4
46	16247266	Mr. Himanshu Paradkar	MFG DMD HR - L&D -Fire Services	Environment Management System	04.04.2024	Apr-24	4
47	16247315	Mr. Romilkumar Pradipkumar Patel	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
48	16247244	Mr. Harsh Senjaliya	MFG DMD HR - L&D -ASU Production	Environment Management System	04.04.2024	Apr-24	4
49	16247537	Mr. Umang Jadvani	MFG DMD HR - L&D -ASU/CPP Maint	Environment Management System	04.04.2024	Apr-24	4
50	16247510	Mr. Raghav Saxena	MFG DMD HR - L&D -Ethane Production	Environment Management System	04.04.2024	Apr-24	4
51	16247254	Mr. Kapil Ratilal Gorvadiya	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
52	16247515	Mr. Abul Hasan	MFG DMD HR - L&D -HDPE Production	Environment Management System	04.04.2024	Apr-24	4
53	16247235	Mr. Devansh Gupta	MFG DMD HR - L&D -HDPE Maint	Environment Management System	04.04.2024	Apr-24	4
54	16247308	Mr. Kushkumar Patel	MFG DMD HR - L&D -HDPE Production	Environment Management System	04.04.2024	Apr-24	4
55	16247467	Mr. Bhuvnesh Sharma	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
56	16247453	Mr. Kushal Rameshbhai Sidapara	MFG DMD HR - L&D -MEG Production	Environment Management System	04.04.2024	Apr-24	4
57	16247219	Mr. Vaibhav Kumar Jain	MFG DMD HR - L&D -HDPE Production	Environment Management System	04.04.2024	Apr-24	4
58	16247424	Mr. Mrigank Pathak	MFG DMD HR - L&D -PET-3 Production	Environment Management System	04.04.2024	Apr-24	4
59	16247478	Mr. V Shankar Raman	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	04.04.2024	Apr-24	4
60	16247307	Mr. ARYAN PATEL	MFG DMD HR - L&D -HDPE Maint	Environment Management System	04.04.2024	Apr-24	4
61	16247427	Mr. Anant Tomar	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	04.04.2024	Apr-24	4
62	16247332	Mr. Vasanthakumar R	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	04.04.2024	Apr-24	4
63	16247245	Mr. Rajkumar Patel	MFG DMD HR - L&D -HDPE Maint	Environment Management System	04.04.2024	Apr-24	4
64	16247531	Ms. Vinodini Elango	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	04.04.2024	Apr-24	4
65	16247522	Mr. Manhal Mohammed E	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
66	16247417	Mr. Meet Bhuva	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
67	16247533	Mr. PRINCE PATEL	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
68	16247255	Mr. Vinayak Navalagi	MFG DMD HR - L&D -HDPE Maint	Environment Management System	04.04.2024	Apr-24	4
69	16247317	Mr. Abhay S	MFG DMD HR - L&D -HDPE Maint	Environment Management System	04.04.2024	Apr-24	4
70	16247334	Ms. Isha Dewangan	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
71	16247481	Mr. Kishankumar Patel	MFG DMD HR - L&D -Cracker Production	Environment Management System	04.04.2024	Apr-24	4
72	16247336	Mr. AKSHAT ADMACHE	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
73	16247322	Mr. NAZARALI CHASMAWALA	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
74	16247349	Mr. Dhvanil Kakkad	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	04.04.2024	Apr-24	4
75	16247270	Mr. Tapan Ved	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
76	16247264	Mr. Vinitkumar Patel	MFG DMD HR - L&D -PTA-6 Production	Environment Management System	04.04.2024	Apr-24	4
77	16247234	Mr. KURUBA DILEEP KUMAR	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
78	16247487	Mr. Smitkumar Naranbhai Surani	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
79	16247486	Mr. Sunil Dabhi	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
80	16247309	Mr. Saurav Kumar	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	04.04.2024	Apr-24	4
81	16247554	Mr. Khaushiik Yedla	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
82	16247237	Mr. Rahul Shantilal Hadiya	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
83	16247278	Mr. SONU MEENA	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
84	16247218	Mr. Rahul Gundarasaniya	MFG DMD HR - L&D -HDPE Maint	Environment Management System	04.04.2024	Apr-24	4
85	16247461	Mr. Hardik Palsanawala	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
86	16247259	Mr. Aksheet Sanjaybhai Dobariya	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
87	16247259	Mr. Aksheet Sanjaybhai Dobariya	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
88	16247265	Mr. Manavkumar Mangukiya	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
89	16247311	Mr. Bhavik Kasundra	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
90	16247496	Mr. Himanshu Jangid	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
91	16247239	Mr. Dhruv Mehta	MFG DMD HR - L&D -HDPE Production	Environment Management System	04.04.2024	Apr-24	4
92	16247342	Mr. Saptahrishi Saha	MFG DMD HR - L&D -PET-3 Production	Environment Management System	04.04.2024	Apr-24	4
93	16247387	Mr. Shubham Kumar	MFG DMD HR - L&D -PET-3 Production	Environment Management System	04.04.2024	Apr-24	4
94	16247216	Mr. Devendra Mina	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
95	16247404	Mr. Aakash Kalra	MFG DMD HR - L&D -PET-3 Maint	Environment Management System	04.04.2024	Apr-24	4
96	16247429	Mr. Shahuraje Sapate	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
97	16247221	Mr. Himanshu Ghunavat	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
98	16247383	Mr. Vraj Shah	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
99	16247282	Mr. Deepak Kumar Meena	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
100	16247330	Mr. Mahesh Shinde	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
101	16247534	Mr. Karan Patel	MFG DMD HR - L&D -PET-3 Production	Environment Management System	04.04.2024	Apr-24	4

102	16247243	Mr. Deep Prajapati	MFG DMD HR - L&D -MEG Maint	Environment Management System	04.04.2024	Apr-24	4
103	16247466	Mr. REVANNA RAMAGONATTI	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
104	16247376	Mr. Hitarth Lakhtaria	MFG DMD HR - L&D -Cracker / EPRU Maint	Environment Management System	04.04.2024	Apr-24	4
105	16247312	Mr. DHRUVIN PANSURIYA	MFG DMD HR - L&D -MEG Production	Environment Management System	04.04.2024	Apr-24	4
106	16247375	Mr. Ravraj Dharmesh Mala	MFG DMD HR - L&D -CCPP Production	Environment Management System	04.04.2024	Apr-24	4
107	16247323	Ms. AMALA KOTI	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
108	16247331	Mr. Visakh Sunil	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
109	16247310	Ms. Devyani Dhanegave	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
110	16247373	Mr. Chandra Kumar Patail	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
111	16247480	Mr. Aman Gupta	MFG DMD HR - L&D -PTA-6 Production	Environment Management System	05.04.2024	Apr-24	4
112	16247393	Ms. Chaithanya Devan	MFG DMD HR - L&D -PTA-6 Production	Environment Management System	05.04.2024	Apr-24	4
113	16247543	Mr. Harsh Vasantbhai Patel	MFG DMD HR - L&D -PTA-6 Production	Environment Management System	05.04.2024	Apr-24	4
114	16247421	Mr. Dev Choudhary	MFG DMD HR - L&D -PTA-6 Production	Environment Management System	05.04.2024	Apr-24	4
115	16247320	Mr. Krunalkumar Patel	MFG DMD HR - L&D -PTA-6 Production	Environment Management System	05.04.2024	Apr-24	4
116	16247460	Mr. Jigar Ramani	MFG DMD HR - L&D -ASU Production	Environment Management System	05.04.2024	Apr-24	4
117	16247482	Mr. Tejas Vaghela	MFG DMD HR - L&D -ASU Production	Environment Management System	05.04.2024	Apr-24	4
118	16247341	Mr. Aneesh Voraganti	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
119	16247512	Mr. Jay Patel	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
120	16247306	Mr. Projjwal Mahapatra	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
121	16247328	Mr. Vrundkumar Ashvinkumar Patel	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
122	16247354	Mr. Harshit Dhanjibhai Sakariya	MFG DMD HR - L&D -PVC Production	Environment Management System	05.04.2024	Apr-24	4
123	16247468	Mr. Jaspreet Singh	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
124	16247469	Mr. HARDIK GOENKA	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
125	16247305	Mr. Ayush Panwar	MFG DMD HSEF - Environment	Environment Management System	05.04.2024	Apr-24	4
126	16247378	Mr. Nihal Chavan	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
127	16247338	Mr. Yash Patel	MFG DMD HR - L&D -PTA-5 Production	Environment Management System	05.04.2024	Apr-24	4
128	16247372	Ms. Nayanika Kumawat	MFG DMD HR - L&D -Reliability Static	Environment Management System	05.04.2024	Apr-24	4
129	16247316	Mr. Shail Raj	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
130	16247462	Mr. Jay Jivanbhai Malankiya	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
131	16247518	Mr. Nisshanthan S	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
132	16247459	Mr. Sriram S	MFG DMD HR - L&D -Reliability Static	Environment Management System	05.04.2024	Apr-24	4
133	16247374	Mr. Allan P Braxton	MFG DMD HR - L&D -PTA-5 Maint	Environment Management System	05.04.2024	Apr-24	4
134	16247238	Mr. Ravi Ranjan	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
135	16247447	Mr. Aman Sahani	MFG DMD HR - L&D -PTA-6 Maint	Environment Management System	05.04.2024	Apr-24	4
136	16247350	Mr. Shantanu Deshmukh	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
137	16247388	Mr. Akshitkumar Bariya	MFG DMD HR - L&D -VCM Production	Environment Management System	05.04.2024	Apr-24	4
138	16247541	Mr. Abhinav Shailesh Vishwakarma	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
139	16247395	Mr. Dnyaneshwar Sarode	MFG DMD HR - L&D -PVC Production	Environment Management System	05.04.2024	Apr-24	4
140	16247535	Mr. Dhruv Harshad Chauhan	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
141	16247324	Mr. Satyam kumar Nirala	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
142	16247388	Mr. Akshitkumar Bariya	MFG DMD HR - L&D -VCM Production	Environment Management System	05.04.2024	Apr-24	4
143	16247273	Mr. Vedant Agharkar	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
144	16247525	Mr. Richpal Choudhary	MFG DMD HR - L&D -Reliability Static	Environment Management System	05.04.2024	Apr-24	4
145	16247314	Mr. Sanka Rama Sai Rohith	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
146	16247225	Mr. Kothapally Ramakrishna	MFG DMD HR - L&D -VCM/PVC Maint	Environment Management System	05.04.2024	Apr-24	4
147	16246533	Mr. Mitanshu Bhatiya	MFG DMD Ops - PTA 6 Production	Environment Management System	05.04.2024	Apr-24	4
148	16246393	Mr. Singh Amit Anil	MFG DMD - PTA 6 Main	Environment Management System	05.04.2024	Apr-24	4
149	16246353	Mr. Dharmikkumar Patel	MFG DMD - PTA 6 Main	Environment Management System	05.04.2024	Apr-24	4
150	16246317	Mr. Kunjan Ajaykumar Desai	MFG DMD Ops - PET 3 Production	Environment Management System	05.04.2024	Apr-24	4
151	16246493	Mr. Chirag Sharadkumar Kapdi	MFG DMD Ops - HDPE 1 Production	Environment Management System	05.04.2024	Apr-24	4
152	16246279	Mr. Piyush Makadiya	MFG DMD Ops - Cracker Production	Environment Management System	05.04.2024	Apr-24	4
153	16246363	Mr. Jainam Jineshbhai Joshi	MFG DMD Ops - Cracker Production	Environment Management System	05.04.2024	Apr-24	4
154	16246387	Mr. Umangkumar Pravinbhai Patel	MFG DMD Ops - MEG Production	Environment Management System	05.04.2024	Apr-24	4
155	16246534	Mr. Devarsh Desai	MFG DMD - PET 3/4 Maintenance	Environment Management System	05.04.2024	Apr-24	4
156	16246298	Mr. Vatsal Jigarkumar Desai	MFG DMD - PTA 5 Maintenance	Environment Management System	05.04.2024	Apr-24	4
157	16246297	Mr. Vishal Kumar	MFG DMD - CCPP Area Maintenance	Environment Management System	05.04.2024	Apr-24	4
158	16246356	Mr. Harsh Karamashibhai Ghodadara	MFG DMD - PTA 5 Maintenance	Environment Management System	05.04.2024	Apr-24	4
159	16246366	Mr. Fenil Pravinbhai Ghodasara	MFG DMD - HDPE1 / EVA Maintenance	Environment Management System	05.04.2024	Apr-24	4
160	16246392	Mr. Vishwesh Vishwas Mhatre	MFG DMD - VCM / PVC Maintenance	Environment Management System	05.04.2024	Apr-24	4
161	16246547	Mr. Kaushal Narang	MFG DMD Ops - Cracker Production	Environment Management System	05.04.2024	Apr-24	4
162	16246570	Mr. Karri Shyam Venugopala Reddy	MFG DMD - ETP 3 Maintenance	Environment Management System	05.04.2024	Apr-24	4
163	16246448	Mr. Abhishek Ramdas Gadmale	MFG DMD - PTA 5 Maintenance	Environment Management System	05.04.2024	Apr-24	4
164	16246329	Mr. Mohit Yadav	MFG DMD Ops - Cracker Production	Environment Management System	05.04.2024	Apr-24	4
165	16246360	Mr. Arvind Kumar Vishnoi	MFG DMD - MEG Maintenance	Environment Management System	05.04.2024	Apr-24	4
166	16246365	Mr. Sugat Pandey	MFG DMD - HDPE1 / EVA Maintenance	Environment Management System	05.04.2024	Apr-24	4
167	16246528	Mr. Pravesh Kumar Verma	MFG DMD CES - Ethane	Environment Management System	05.04.2024	Apr-24	4
168	16246383	Mr. Sk Jisan Rahaman	MFG DMD - PTA 5 Maintenance	Environment Management System	05.04.2024	Apr-24	4
169	16246437	Mr. Bhavesh Vejendla	MFG DMD CES - Mechanical Workshop	Environment Management System	05.04.2024	Apr-24	4
170	16246333	Mr. Yash Vaghela	MFG DMD Ops - Cracker Production	Environment Management System	05.04.2024	Apr-24	4
171	16246411	Mr. Tarun Agarwal	MFG DMD - CCPP Area Maintenance	Environment Management System	05.04.2024	Apr-24	4
172	16246376	Mr. Eldho S Thomas	MFG DMD - CCPP Area Maintenance	Environment Management System	05.04.2024	Apr-24	4
173	16246349	Mr. Alok Jagtanand Thakur	MFG DMD - CCPP Area Maintenance	Environment Management System	05.04.2024	Apr-24	4
174	16246342	Mr. Akshit Verma	MFG DMD - Cracker / EPRU Maint	Environment Management System	05.04.2024	Apr-24	4
175	16246372	Mr. Abhishek Bharti	MFG DMD - MEG Maintenance	Environment Management System	05.04.2024	Apr-24	4
176	16246284	Ms. Pratiksha Ramesh Chavan	MFG DMD - Cracker / EPRU Maint	Environment Management System	05.04.2024	Apr-24	4
177	16246337	Mr. Ankitkumar Ravindra Prasad	MFG DMD - Cracker / EPRU Maint	Environment Management System	05.04.2024	Apr-24	4
178	16246299	Ms. Baishnavi Mahanta	MFG DMD - PTA 6 Main	Environment Management System	05.04.2024	Apr-24	4
179	16246441	Mr. Prikshit Dhiman	MFG DMD - PTA 5 Maintenance	Environment Management System	05.04.2024	Apr-24	4
180	16246389	Mr. Dholakia Kunj	MFG DMD - HDPE1 / EVA Maintenance	Environment Management System	05.04.2024	Apr-24	4
181	16246494	Mr. SOMASEKHAR MAMIDI	MFG DMD Ops - VCM/EDC Production	Environment Management System	05.04.2024	Apr-24	4
182	16246413	Mr. Dushyant Tiwari	MFG DMD - HDPE1 / EVA Maintenance	Environment Management System	05.04.2024	Apr-24	4
183	16246382	Mr. B Sudershan Gaurav	MFG DMD CES - Minor Projects Cell	Environment Management System	05.04.2024	Apr-24	4

Photograph of LED lighting in offices

Annexure LXI

Photograph of Solar Power run Traffic Signal

Photograph of Natural Illumination in Warehouse

Annexure LXIII

Photograph of Closed Material Transfer

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar-382 010
Phone : (079) 23226295
Fax : (079) 23232156
Website : www.gpcb.gov.in

By.R.P.A.D

NO.GPCB/BRCH-CCA-717(10)/ID-15565/ 340779 **/Date:** 06/01/2016
Amendment to consent to establish (CTE) dated : 10/10/2012

TO
M/S. RELIANCE INDUSTRIES LIMITED
DAHEJ MANUFACTURING DIVISION
AT & POST: DAHEJ : 392 130
TAL: VAGRA,
DIST: BHARUCH.

SUB: - Amendment to **Consent to Establish** (CTE) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981

REF: - (1) Your earlier CTE issued vide letter no: GPCB/BRCH/CCA-717(6)/15565/127604 dated 10/10/2012
(2) Your application for CTE Amendment inward no: 97876 dated: 21/08/2015

Sir,

This has reference to the **Consent to Establish** (CTE) **Order issued vide letter no. GPCB/BRCH/CCA-717(6)/15565/127604 dated 10/10/2012** under section 25 of Water Act 1974 and section 21 of Air Act 1981, which stands amended as under,

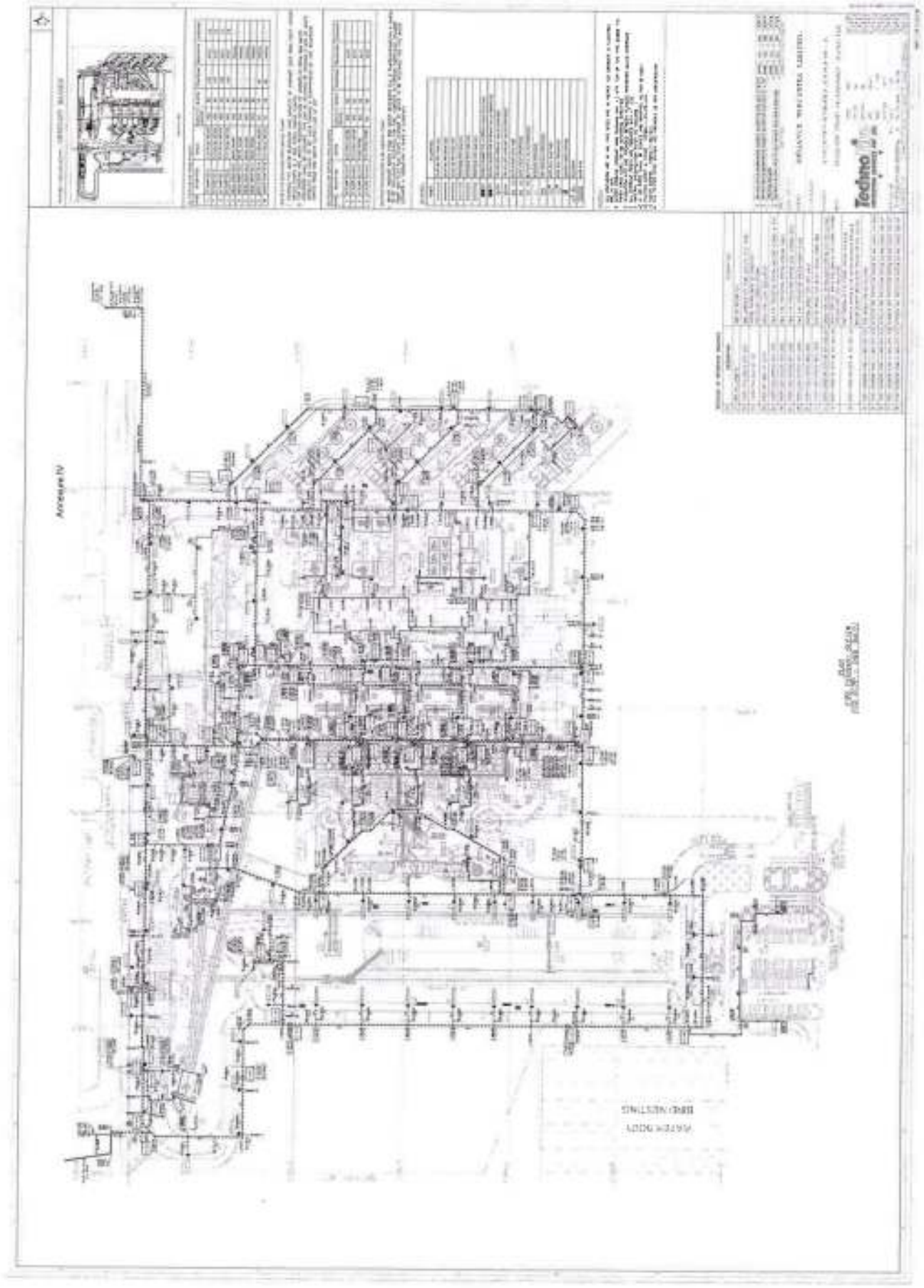
Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (CTE)(Amendment)** for installation of coal based captive power plant (CCPP) 270 MW, modification of the existing RDMT Jetty to handle 2.5 MMTPA Coal and change of fuel from natural gas to coal in Dow vaporizer of PET plant at **DAHEJ MANUFACTURING DIVISION, AT & POST: DAHEJ : 392 130 TAL: VAGRA, DIST: BHARUCH.**

1.0 The condition no: 1(of CTE dated:10/10/2012) shall be read as.

NAME OF THE PRODUCTS ALONG WITH QUANTITY
A. Products :

Sr. No.	Plants	Products	Existing Capacity (MTPA)	Proposed Capacity (MTPA)	Total capacity (MTPA)
1.	Ethane Propane Recovery Unit (EPRU)	Ethane / Propane	650,000	-	650,000
2.	Gas Cracker Unit (GCU)	Ethylene	500,000	-	500,000
		Propylene	160,000	-	160,000
3.	Vinyl Chloride Monomer (VCM)	Ethylene dichloride	498,960	-	498,960
		Vinyl chloride monomer	315,000	-	315,000
4.	Polyvinyl Chloride (PVC)	Polyvinyl chloride	315,000	-	315,000

Annexure LXV



Photographs of Coal Transportation, Unloading Bay and Storage Facility

Covered Vehicle used for Coal Transportation

Coal Unloading Bay

Photographs of ESP, Conveyors, Chimney, Coal Storage Area

Coal Unloading Bay

Fully Covered Coal Storage Area

ESP's Installed at CCPP

Covered Conveyor Belts

Tall Stack (Ht 220m) attached with Boilers

O/C

Annexure LXVIII

Reliance
Industries Limited

RIL-DMD/HSEF/ENV/2024/37 June 28, 2024

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

Sub: Submission of Environmental Audit report for the year 2023-24, RIL, Dahej Manufacturing Division. (Industry ID: 15565)

Dear Sir,

As required under the Environment Audit Scheme and as directed by Hon. High Court, please find enclosed the Environment Audit Report for the Year 2023-24.

The Audit has been carried out by M/s. Charotar University of Science and Technology, CHARUSAT, a GPCB approved Schedule I Auditor. The report in the prescribed format with required attachments (in triplicate) is enclosed herewith.

The Net Payment Receipt of INR 10,000/- as scrutiny fee has been processed to the account in GPCB XGN Portal and is enclosed herewith for ready reference.

Thanking you.

Yours faithfully,
For **Reliance Industries Limited,**

Raja Raman Chaudhary
Head - Environment

Encl: 1. Environment Audit Report – 3 Copies.
2. Net Payment Receipt of INR. 10,000 /-, dtd. 27.06.2024.
3. A copy of ISO 14001:2015 certificate

Cc:
Regional Officer,
Gujarat Pollution Control Board,
C - 1/119/3, GIDC Phase II,
Narmadanagar,
BHARUCH - 392015

Post Received
Gujarat Pollution Control Board
BHARUCH

Reliance
Industries Limited

Crisis and Continuity Management Procedure

Dahej Manufacturing Division

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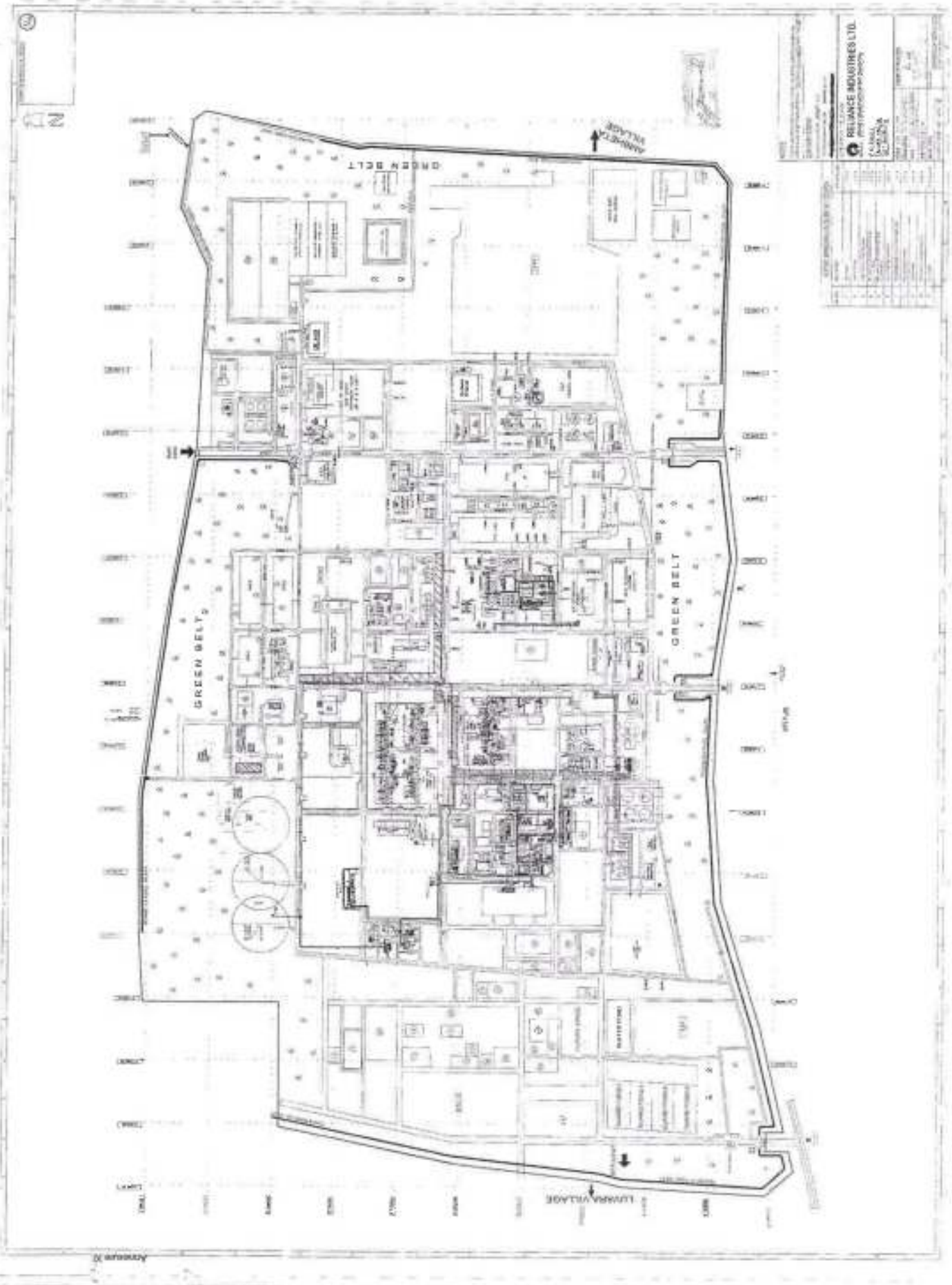
Annexure LXX



Annexure LXXI

Photograph of Guard Pond

Annexure LXXII

Photographs of Stacks attached with CFBC Boilers

Stacks (Ht 220m) attached with Boilers

Annexure LXXIII

Photographs of ESP

ESP's Installed at CCPP

Annexure LXXIV

Photograph of CEMS Display at CCPP

PERSONAL BREATHING ZONE DUST SAMPLE RESULTS

Dahej Manufacturing Division

Annexure LXXV

Date	SAMPLE ID	Plant	LOCATION	SHIFT	SAMPLE TIME (Min)	Name/EC No.	JOB POSITION/ACTIVITY	Agent	Results TLV-TWA (PPM/ mg/m3)	ACGIH Limit TLV-TWA (PPM/ mg/m3)	CURRENT CONTROL	RECOMMENDATIONS (ACTION PLAN)
25-01-2020	DMD-250120-33	CCPP	Ash Silo Area	G	355	Mr Vasant Mistry (5800079454)	Housekeeping Activity	Respirable Dust	**0.083 mg/m3**	**3 mg/m3**	PPE (Dust Mask)	-The result of Dust exposure monitoring was found within acceptable occupational exposure limits. '-It is still recommended that the operator shall always wear a dust mask during the housekeeping activity and field round.

Survey Conducted by: Mayursinh Vaghela
Designation: Industrial Hygienist

Annexure LXXVI

Photograph of Conveyors Belts

Annexure LXXVII

Photographs of Coal Unloading Bay and Storage Area

Annexure LXXVIII

Photographs of Pucca Internal Roads

Annexure LXXIX

Photographs of Mr. Clean – Automatic Road Sweeping Machine

Annexure LXXX

Photographs of Coal Storage Area

Photograph of CAAQMS

Annexure LXXXII

Photographs of Fly Ash Silo

Fly Ash Disposal Details

(April 2024 - September 2024)

Month	Fly Ash Disposal Quantity (MT)
Apr-24	14901.59
May-24	31667.44
Jun-24	23347.56
Jul-24	20416.24
Aug-24	30147.13
Sep-24	16342.86

RIL - DMD

Self Safety Audit checklist No. 30

ILLUMINATION MONITORING REPORT

Plant : CCPP-ELECTRICAL Area: MHF

Frequency : Yearly/upon modification or MOC

Sr. No.	Location	Present Lux Level	Recommended Value	Corrective action taken Date	Corrective action taken Action taken	Lux level after corrective action
1	CHP TRUCK Unloading area	105	20			
2	Conv-1A/B	170	50			
3	T.T-1	160	60			
4	Conv-2	120	50			
5	Conv-7A/B	125	50			
6	Conveyer 3A/B	110	50			
7.	Conveyer 4A/B	135	50			

Survey carried out by : Name : Vijay Rana Sign : Vijay Date : 4/09/2020

Reviewed by : Harshal Joshi Name : Sign : Joshi Date : 4/09/2020

Note : Lux shall be measured one meter above the ground level.
Master list to be kept in the file for the identified location where the lux level is to be measured.

Revision 1 on 09/03/2012 by Rakesh Bhargava (previous lux value in table removed)

RIL - DMD

Self Safety Audit checklist No. 30

ILLUMINATION MONITORING REPORT

Plant : CCPP - ELECTRICAL Area: MHF

Frequency : Yearly/upon modification or MOC

Sr. No.	Location	Present Lux Level	Recommended Value	Corrective action taken Date	Corrective action taken Action taken	Lux level after corrective action
8	coal shed	100	20			
9	Street light	21	15			
10	lime unloding Area	155	20			
11	lime building	180	60			
12	conv - 101/B	170	50			
13	Street light LHP	21	15			
14	lime-shed	120	100			

Survey carried out by : Name : Vijay Ranee Sign : Ranee Date : 4/09/2020

Reviewed by : Name : Harshal Joshi Sign : Hjoshi Date : 4/09/2020

Note : Lux shall be measured one meter above the ground level.
Master list to be kept in the file for the identified location where the lux level is to be measured.

Revision 1 on 09/03/2012 by Rakesh Bhargava (previous lux value in table removed)

RIL - DMD

Self Safety Audit checklist No. 30

ILLUMINATION MONITORING REPORT

Plant : CCPP - ELECTRICAL Area: BOILER

Frequency : Yearly/upon modification or MOC

Sr. No.	Location	Present Lux Level	Recommended Value	Corrective action taken Date	Corrective action taken Action taken	Lux level after corrective action
1	BLR #1	175	100			
2	BLR #2	180	100			
3	BLR #3	165	100			
4	BLR #4	166	100			
5	ESP #1	135	100			
6	ESP #2	125	100			
7	ESP #3	132	100			
8	ESP #4	160	100			

Survey carried out by : Name : Vijay Rana Sign : Rana Date : 4/09/2020

Reviewed by : Name : Harshal Joshi Sign : HJoshi Date : 4/09/2020

Note : Lux shall be measured one meter above the ground level.
Master list to be kept in the file for the identified location where the lux level is to be measured.

Revision 1 on 09/03/2012 by Rakesh Bhargava (previous lux value in table removed)

RIL - DMD

Self Safety Audit checklist No. 30

ILLUMINATION MONITORING REPORT

Plant : CPP - ELECTRICAL Area: STG

Frequency : Yearly/upon modification or MOC

Sr. No.	Location	Present Lux Level	Recommended Value	Corrective action taken Date	Corrective action taken Action taken	Lux level after corrective action
1	STG-1 '0' mtr	220	100			
2	STG-1 '08' mtr	179	100			
3	STG-1 '13' mtr	202	100			
4	Deareator floor	64	60			
5	STG-2 '0' mtr	221	100			
6	STG-2 '7' mtr	265	100			
7	STG-2 '13' mtr	275	100			
8	STG-2 Deareator Floor	75	60			
9	STG-3 '0' mtr	220	100			
10	STG-3 '7' mtr	340	100			

Survey carried out by : Name : Vijay Rana Sign : Rana Date : 04/09/2020

Reviewed by : Name : Harshal Joshi Sign : Hjoshi Date : 04/09/2020

Note : Lux shall be measured one meter above the ground level.
Master list to be kept in the file for the identified location where the lux level is to be measured.

Revision 1 on 09/03/2012 by Rakesh Bhargava (previous lux value in table removed)

Reliance
Industries Limited
Growth is Life

Corporate Social Responsibility Report 2023-24

Vision

For Reliance, social commitment is strongly driven with the philosophy of 'We Care'. While addressing the nation's multifaceted development challenges, the central philosophy is the commitment to enhance the quality of life of people from marginalised and vulnerable communities. Through Reliance Foundation, the aim is to create replicable and scalable models of development through an integrated approach. These CSR initiatives are carried out in the true Reliance spirit of maximising social value for all, towards sustainable development.

Isha Ambani

Dr. Tarang Gianchandani

Dhanraj Nathwani

Jagannatha Kumar

B. Srinivasan

[redacted]

~76 Million
People reached cumulatively

595 districts reached, including 55,500+ villages and urban locations

Introduction

Towards a future where every individual achieves their potential

At Reliance, we believe that a spirit of innovation and bold approaches can make a difference in people's lives. Our activities throughout the year reflect the approach 'Reliance for All – Growth for All, Care for All, Access for All'. The year FY 2023-24 presented numerous opportunities to innovate for a future where every individual, especially the most in need, has an enabling environment to achieve their potential.

Throughout the year, we embarked on a range of CSR initiatives at the community level, while we continued our journey of building world-class institutions. Reliance also adopted innovative approaches to accelerate India's progress towards the United Nations Sustainable Development Goals (UN SDGs), undertaking transformative social development projects in Rural Transformation, Education, Health, Women Empowerment, Sports, Disaster Management and Arts, Culture and Heritage. These initiatives, implemented by the Reliance Foundation, extend beyond our plant locations to embrace ntire nation.

During the past year, Reliance significantly expanded its support for education, spanning from strong early childhood education programmes to higher education and lifelong learning opportunities. We forged new partnerships and refined our approaches to enhance stakeholder capacity. Reliance Foundation also rolled out one of India's largest and most comprehensive scholarships programmes for higher education.

Reliance is intensifying efforts to empower women and girls across different spheres, from grassroots to leadership levels, enhancing women's agency and capacity across education, sports and technology adoption.

Building momentum for India, Reliance's sports initiatives range from the grassroots to a large Olympic mission. Anchored by a focussed vision and strong values, our goal is to strengthen the entire sports ecosystem and bring global attention to India's Olympic aspirations.

In times of disasters, Reliance Foundation has stepped forward to offer immediate relief and rescue. Working alongside volunteers and communities, we focus on resilience and adopt approaches, including nature-based solutions against hazards.

The progress and impact through our CSR initiatives reaffirm Reliance's commitment that 'We Care'; contributing to India's national priorities and building a hopeful future for all.

During the FY 2023-24, Reliance contributed C1,592 crore as part of various impactful CSR initiatives across the country.

Programmatically, as of March 2024, the total number of people reached is as follows:

20.27 Million+
Rural Transformation

22.90 Million+
Sports for Development

9.29 Million+
Health

20.18 Million+
Disaster Management

1.79 Million+
Education

860,000+
Women Empowerment

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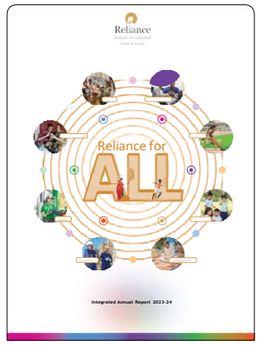
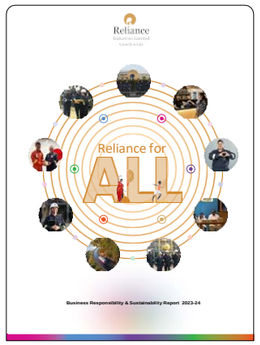
Integrated Outcome Report of Reliance Industries – social impact areas contributing to 14 UN SDGs.

Our reporting suite 2023-24



Integrated Annual Report

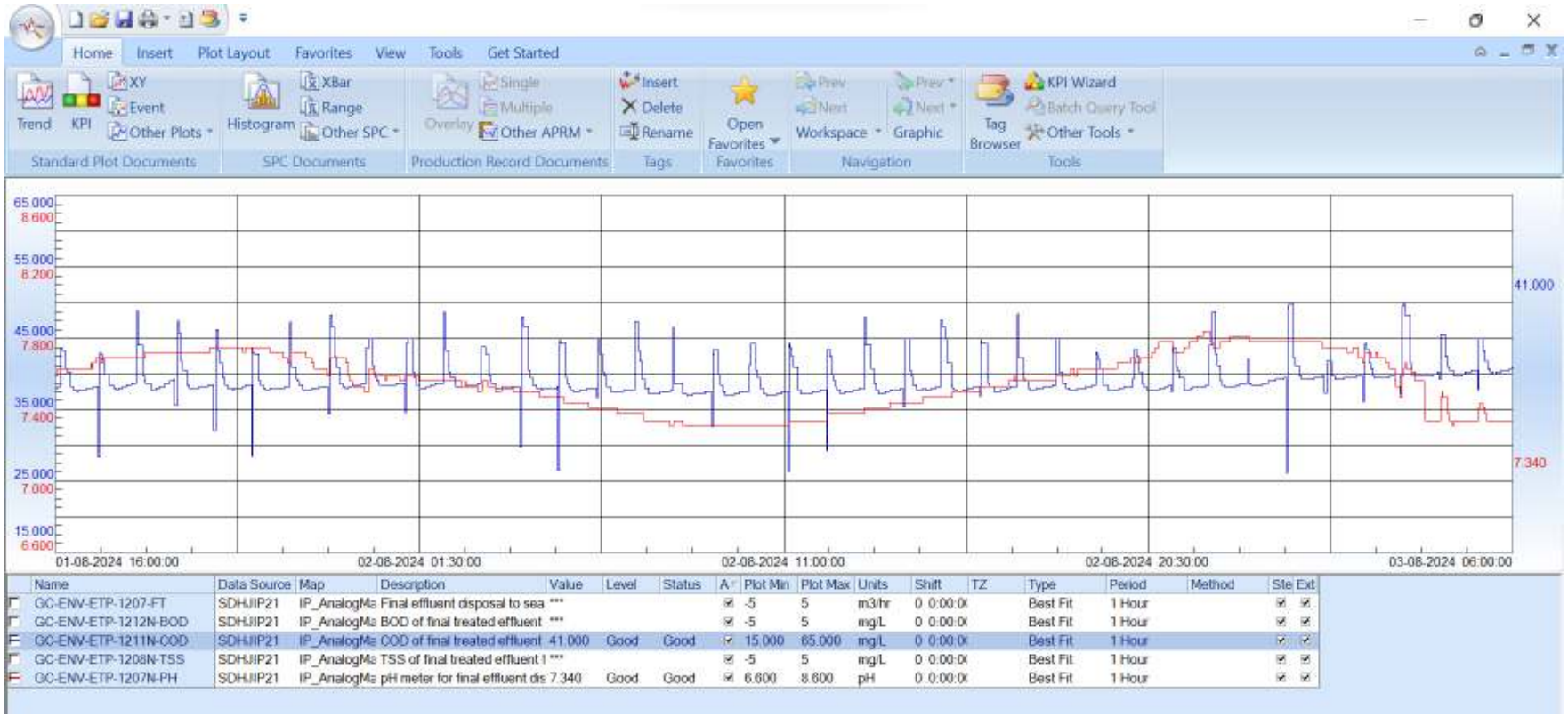
Click here



Business Responsibility & Sustainability Report (BRSR)

Click here

Annexure LXXXV



Name	Data Source	Map	Description	Value	Level	Status	A	Plot Min	Plot Max	Units	Shift	TZ	Type	Period	Method	Ste	Ext
GC-ENV-ETP-1207-FT	SDHJIP21	IP_AnalogMa	Final effluent disposal to sea	***				-5	5	m3/hr	0	0:00:0(	Best Fit	1 Hour			
GC-ENV-ETP-1212N-BOD	SDHJIP21	IP_AnalogMa	BOD of final treated effluent	***				-5	5	mg/L	0	0:00:0(	Best Fit	1 Hour			
GC-ENV-ETP-1211N-COD	SDHJIP21	IP_AnalogMa	COD of final treated effluent	41.000	Good	Good		15.000	65.000	mg/L	0	0:00:0(	Best Fit	1 Hour			
GC-ENV-ETP-1208N-TSS	SDHJIP21	IP_AnalogMa	TSS of final treated effluent	***				-5	5	mg/L	0	0:00:0(	Best Fit	1 Hour			
GC-ENV-ETP-1207N-PH	SDHJIP21	IP_AnalogMa	pH meter for final effluent dis	7.340	Good	Good		6.600	8.600	pH	0	0:00:0(	Best Fit	1 Hour			

Photograph of Storm Water Drainage

Annexure LXXXVII

Photographs of Some of the CSR activities

- Flood Relief Activities

- Construction of Home for BPL Family

O/C

Reliance
Industries Limited

RIL-DMD/HSEF/ENV/2024/50 Date: 23rd September 2024

To,
The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector 10 A,
Gandhinagar – 382 010.

Sub : Submission of Environmental Statement of RIL – Dahej Manufacturing Division for the year 2023 – 24 (PCB ID: 15565)

Ref : Consent Order No. AWH-111189 issued on 16.01.2021 and amendment thereof valid up to 03.11.2026.

Dear Sir,

Please find enclosed herewith the Environmental Statement for the year 2023 – 24 of Reliance Industries Limited – Dahej Manufacturing Division.

Thanking you.

Yours faithfully,
For **Reliance Industries Limited**

Raja Raman Chaudhary
Head - Environment

Post Received
Gujarat Pollution Control Board
BHARUCH
23/9/24

Enclosed: As above.

Cc:

The Regional Officer,
Gujarat Pollution Control Board,
C - 1/119/3, GIDC Phase II,
Narmada Nagar,
Bharuch – 392 015.

The Divyabhaskar – Gujarati Newspaper

Date: 11.04.2017

[illegible]

...ર્થીઓને લાભ મળ્યો હતો

...યકલનું વિતરણ

...થા ઘરે જવાના રાહત થશે

...સ્કૂલમાં છાત્રાઓને સાયકલનું વિતરણ કરવામાં ...

[illegible]

રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેડ - દહેજ મેન્યુફેક્ચરિંગ ડિવિઝન

જાહેર નિવિદા

નવા પ્રોજેક્ટ માટે પર્યાવરણ મંજૂરી

આથી જાહેર કરવામાં આવે છે કે ભારત સરકારના પર્યાવરણ, વન અને જળવાયુ પરિવર્તન મંત્રાલય, નવી દિલ્હી દ્વારા મુ. દહેજ, તા. વાગરા, જી. ભરૂચ સ્થિત અમારા દહેજ મેન્યુ. ડિવિઝન ખાતેના પેટ્રોકેમિકલ પ્લાન્ટના વિસ્તૃતિકરણ અને ડિબોટલનેકિંગ માટે **પર્યાવરણીય મંજૂરી** તેઓના તા. ૦૩ એપ્રિલ, ૨૦૧૭ના પત્ર ક્ર. નં. J-11011/39/2016-IA-II (I) થી આપેલ છે. જેની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડની કચેરીએ તેમજ ની વેબસાઇટ [illegible] http://www.moef.nic.in ઉપર જોઈ શકાશે.

સહી/-

તારીખ: ૧૦-૦૪-૨૦૧૭ પ્રેસિડન્ટ - રિલાયન્સ દહેજ મેન્યુ. ડિવિઝન

EC: Even manufacturers can't manipulate EVMs

New Delhi: The EVMs are robust and tamper-proof and even the manufacturers cannot manipulate them at the time of production, the Election Commission said on Sunday, countering allegations that the machines are unreliable.

With the Opposition's questions on the reliability of the electronic voting machines getting louder, the Commission has come out with a list of 'frequently asked questions' to put across its views in public domain.

Recently the Commission had issued two statements defending the machines. The FAQs are the third attempt by the poll watchdog to counter the doubts on the machines' reliability.

One of the first questions the FAQ addresses is whether the machine can be hacked?

No, asserts the Commission.

The M1 (model one) of EVM was manufactured till 2006 and had all necessary technical features it "non-hackable contrary to claims made by some activists", it said.

The M2 model of EVMs produced after 2006 and up to 2012 incorporated additional safety features. It can detect "malicious sequenced key presses".

"Further, the ECI-EVMs are not computer controlled, are stand alone machines and not connected to the internet or any other network. Hence, there is no chance of hacking by remote devices... also do not have any frequency receiver or decoder for data for wireless or any external hardware port for connection to any other non-EVM accessory or device. Hence no tampering is possible," the poll panel said.

The Commission also rejected suggestions that the machines can be manipulated by the manufacturer itself.

"Not possible," it said. The EVMs have been manufactured in different years since 2006 and sent to different states. The manufacturers -- ECIL and BEL -- would not know several years ahead which candidate will contest from a particular constituency and what will be the sequence of the candidates on the ballot unit," it said.

It also asserted that no 'trojan horse' can be injected into the EVM in the field. In fact, the new M3 EVIN produced after 2013 have additional features like tamper detection and self diagnostics.

The tamper detection feature makes an EVM inoperative the moment anyone tries to open the machine. The self diagnostic feature checks the EVM fully every time it is switched on. Any change in its hardware or software will be detected.

It said contrary to "misinformation and as alleged by some", India does not use any EVMs produced abroad.

The EVMs are produced indigenously and the software programme code is written in-house and not outsourced.

"The programme is converted into machine code and only then given to the chip manufacturer abroad because we don't have the capability of producing semi-conductor microchips within the country.

"Every microchip has an identification number embedded into memory and the producers have their digital signatures on them. So, the question of their replacement does not arise at all," it said. PTI

Kejri again raises issue of rigged EVMs

New Delhi: Delhi Chief Minister **Arvind Kejriwal** on Sunday raked up the issue of alleged EVM manipulation, despite the election commission's assertion that the voting machines are robust and tamper-proof. Kejriwal raised the issue referring to media reports that a few machines, used during the bypoll in Rajasthan's Dholpur today, may have been tampered with and claimed that EVMs were being brought from Rajasthan to be used in the upcoming municipal polls. "Will the MCD polls be neutral? Why does not the EC probe these machines? What is the point of polls in a situation like this? "Why defective EVMs voting only BJP? They (are) not "defective". Their software changed. Let EC give us one of these EVM, we'll prove they are tampered (sic)," the CM said in a series of tweets. Earlier, Kejriwal had claimed that EVMs were being brought from Uttar Pradesh to conduct the polls, a charge the State Election Commission had rejected. PTI

NEWS DIGEST

Mamata misusing police, says Rijiju

Union Minister of State for Home Kiren Rijiju on Sunday accused the Mamata Banerjee government in West Bengal of running a 'dictatorship', alleging that it was misusing state power to 'torture' political opponents. The minister told reporters that the police in the state was acting under the pressure of politicians as evident by the "fake cases" launched against his party leaders for carrying arms. "In this state, the government is running a dictatorship," he said in Suri.

Curfew relaxed in Bhadrak: The Rapid Action Force (RAF) and CRPF took out a flag march even as curfew was relaxed for four hours on Sunday in Bhadrak town where violence had broken out over alleged abusive remarks against Hindu deities on social media. The RAF and CRPF personnel staged the march through sensitive areas after they arrived at the arson-hit town, a senior official said.

NRI offers 2kg gold ornaments at Tirupati: An NRI woman devotee has made an offering of golden foot covers (Paaduka) weighing two kg and worth about Rs 61 lakh, at the famous hill shrine of Lord Venkateswara at Tirumala on Sunday. A Lakshmi from Andhra Pradesh, who has settled down in USA, sent the offering through her parents to the hill temple as a fulfillment of her vow as she was blessed with a child after a decade of her marriage.

'3.50cr women support triple talaq'

Jaipur: The All India Muslim Personal Law Board (AIMPLB) on Sunday claimed that it has received 3.50 crore forms from Muslim women around the country favouring Shariyat and triple talaq.

Some people are trying to create "an atmosphere that the Muslim community has a high rate of divorce", chief organiser of the AIMPLB's women wing Asma Zohra said while addressing a gathering of around 20,000 women at a workshop in Eidgah here.

"We have received 3.50 crore forms in favour of Shariyat and triple talaq from Muslim women in the country and the number of women against these are very less," she claimed.

"It is a conspiracy to malign the Muslim community and an attempt to break the social structure of the community in the name of women's rights," Zohra alleged. PTI

રિલાયન્સ ઈન્ડસ્ટ્રીઝ લિમિટેડ - દહેજ મેન્યુફેકચરિંગ ડિવિઝન
મુ. દહેજ, તા. વાગરા, જી. ભરૂચ-૩૯૨૧૩૦

જાહેર નિવિદા

પર્યાવરણ મંજૂરી

આથી જણાવવાનું કે ભારત સરકારના પર્યાવરણ, વન અને જળવાયુ પરિવર્તન મંત્રાલય, નવી દિલ્હી, દ્વારા પ્લોટ-૧, જી.આઇ.ડી.સી.-દહેજ, મુ. દહેજ, તા. વાગરા, જી. ભરૂચ સ્થિત અમારા દહેજ મેન્યુફેકચરિંગ ડિવિઝન ખાતેના પેટ્રોકેમિકલ્સ પ્લાન્ટના વિસ્તૃતીકરણ અને ડીબોટલનેકીન્ગ માટે તા. ૧૯ ઓગષ્ટ, ૨૦૨૧ ના પત્ર ક્ર. નં. J-11011/39/2016-IA-II (I) થી પર્યાવરણ મંજૂરી આપેલ છે.

જેની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડની કચેરીએ તેમજ મંત્રાલયની વેબસાઇટ એટલે કે https://parivesh.nic.in ઉપર જોઇ શકાશે.

સહી
પ્રેસિડેન્ટ - રિલાયન્સ ઈન્ડસ્ટ્રીઝ લિમિટેડ
દહેજ મેન્યુફેકચરિંગ ડિવિઝન

તા. ૨૪/૦૮/૨૦૨૧

લીમખેડા સિંગવડમાં શિક્ષણ સજ્જતા કસોટીનો ફિયાસ્કો

લીમખેડાના ૧૦૮૨ પૈકી માત્ર ૧૨૬ જ્યારે સિંગવડ ૬૯૪ પૈકી છ શિક્ષકે પરીક્ષા આપી

લીમખેડા, તા. ૨૪

લીમખેડા અને સિંગવડ તાલુકા માં આજે કુલ ૨૮ સ્થળોએ શિક્ષણ સજ્જતા સર્વેક્ષણ કસોટી લેવાતા લીમખેડા તાલુકાના ૧૨૬ અને સિંગવડ તાલુકાના માત્ર ૬ શિક્ષકોએ વર્ગખંડમાં પરીક્ષા આપી હતી.

શિક્ષણ સજ્જતા સર્વેક્ષણ ને લઇને શિક્ષકોના બંને સંઘો આમને-સામને આવી ગયા છે જેમાં કેટલાક શિક્ષકો તરફેણ કરી રહ્યા છે અને કેટલાક શિક્ષકોએ વિરોધ કર્યો છે.

આજે સરકારે તારીખ નક્કી કરેલી તારીખે કસોટી રાખતાં લીમખેડા તાલુકાના ધોરણ ૧ થી ૫ ના ૭૦૮, ધોરણ ૬ થી ૮ ના ૩૩૯ અને ૩૫ એચ.ટાટ શિક્ષકો મળી કુલ ૧૦૮૨ શિક્ષકો મારી તાલુકામાં કુલ ૧૭ સ્થળોએ કસોટી લેવામાં આવી હતી જેમાં માત્ર ૧૨૬ શિક્ષકોએ કસોટી આપી હોવાનું પ્રાથમિક તબક્કે જાણવા મળ્યું હતું. સિંગવડ તાલુકા માં ધોરણ ૧ થી ૫ ના ૪૩૪ અને ૬ થી ૮ના ૨૪૬ તેમજ એચ ટાટ શિક્ષકો ૧૪ મળી કુલ ૬૯૪ પૈકી માત્ર ૬ શિક્ષકો કસોટીમાં બેઠા હોવાનું જાણવા મળ્યું હતું મોટાભાગના શિક્ષકોએ હોલ ટિકિટ ડાઉનલોડ કરી દીધી હોવાનું પણ જાણવા મળ્યું છે. કસોટીમાં મોટાભાગે શિક્ષક સંઘના કર્મચારીઓએ સહયોગ આપી કસોટી આપી હોવાનું જાણવા મળ્યું છે. લીમખેડા તાલુકામાં માત્ર ૧૩.૬૩ ટકા અને સીંગવડ માં માત્ર ૪.૧૬ ટકા શિક્ષકોએ શિક્ષક સજ્જતા કસોટી આપી હોવાનું જાણવા મળ્યું હતું.

શિનોરમાં સરકારી કેરોસીન ૩ વર્ષથી પુરૂં પાડવામાં આવતું નથી

શિનોર,તા.૨૪

શિનોર તાલુકામાં છેલ્લા ત્રણ વર્ષથી સરકારી ગોદામમાં કાર્ડધારકો માટે કેરોસીન પૂરૂં પાડવા નહીં આવતાં સરકારી અનાજની ૨૮ દુકાન પરથી માસિક રેશનની કુપનમાં કેરોસીનના ઉલ્લેખ છથતાં તે મળતું નહીં હોવાથી કાર્ડધારકોમાં રોષ ફેલાયો છે.

કાર્ડ ધારકોની કેરોસીન વિના ભારે હાલાકી

શિનોરના કાર્ડધારકો પૈકી જેમને ઉજ્જવલા યોજનાનો લાભ મળયો નથી. તેમના ગેસ જોડાણ મંજૂરી નહીં મળતાં રદ થયાં છે તેઓની હાલત સરકારી કેરોસીન નહીં મળતાં કફોડી થઇ છે. જે કુટુંબોને ઉજ્જવલા યોજનાનો લાભ અપાયો છે અને તેમણે ગેસ જોડાણ અન્યત્ર વેચી માર્યા છે. તેમની સામે કાનૂની કાર્યવાહી કરવા કાર્ડધારકોની માગ છે. જેમનાં ગેસ જોડાણ રદ થયાં છે તેમને કેરોસીન પૂરૂં પાડવાની પણ માગ કરી છે.

પાદરા પંથકમાં ડેન્ગ્યુ, મેલેરિયા જેવા રોગોએ માથું ઉચકતા દવાખાના ઉભરાયા

પાદરા,તા.૨૪

પાદરા વડુ પંથકમાં કેટલાય દિવસોથી શરદી, તાવ, ઉધરસ, ઉલટી વિગેરેના કેસોમાં ઉછાળો આવ્યો છે સાથે ડેન્ગ્યુ, ચિકનગુનિયા, મેલેરિયા વિગેરે કેસો પણ નોંધાવા લાગ્યા છે પાદરા વડુ સરકારી દવાખાના સહિત ખાનગી દવાખાના દર્દીઓથી ઉભરાવા લાગ્યા છે. સરકારી દવાખાનાઓમાં દર્દીઓની સંખ્યામાં વધારો થયાનું જાણવા મળે છે.

સરકારી દવાખાનામાં દર્દીઓની સંખ્યામાં ૪૦ થી ૫૦ ટકાનો વધારો

પાદરા વડુ પંથકમાં છેલ્લા એક માસ ઉપરાંત થી ધોધમાર વરસાદ થયો નથી તેમાંય ઘણા દિવસોથી સતત ભેજવાળું વાતાવરણ પ્રવર્તે છે. ગયા અઠવાડિયે ઝરમરીયાં થવાના કારણે મચ્છરોનો વ્યાપક ઉપદ્રવ થયો છે.

ડેન્ગ્યુ, મેલેરિયા, દાએરીયા તાવનો વાવર માથું ઊંચકી રહ્યો છે. પાદરા- વડુ સરકારી દવાખાના સહિત ચાણસદ, કન્ઝટ, કરખડી, મોભા, મુજપુર, સાધી, ડબકા, પીએચસી સેન્ટરોમાં સરકારી હોસ્પિટલોમાં દર્દીઓની સંખ્યા વધારો થતો જાય છે. ડેન્ગ્યુ, મેલેરિયા, ચિકનગુનિયાના દર્દીઓ ખાનગી હોસ્પિટલો માં સારવાર લઇ રહ્યા છે જ્યારે શરદી, ખાંસી, તાવ, ઉધરસ, જેવા દર્દીઓનો ખાનગી તેમજ સરકારી દવાખાનાઓમાં ધસારો થઇ રહ્યો છે. આગામી અઠવાડિયામાં વરસાદ નહિ પડે તેમજ સતત વાદળિયા રહેશે તો રોગચાળાની સ્થિતિ સર્જાશે. તાવ, શરદી, ડાએરીયા, ઉલટી વાઇરસના દર્દીઓથી ખાનગી, સરકારી દવાખાનાં ઉભરાવા લાગ્યા છે. સતત વાદળિયા છવાતાં ફેફસાના દર્દીઓમાં ચિંતાજનક ઉછાળો આવી શકે છે.

મહીસાગર જિલ્લાના માજી ગૃહપ્રધાનનું નિધન

લુણાવાડા

મહીસાગર જિલ્લાના પૂર્વ ધારાસભ્ય અને પૂર્વ ગૃહ અને શિક્ષણ પ્રધાન પ્રબોધકાંત પંડ્યાનું અમદાવાદ ખાતે લાંબી માદગી બાદ અવસાન થતાં તેમની અંતિમક્રિયા માટે તેમના પાર્થિવ શરીરને અંતિમ સંસ્કાર માટે કડાણાના જાગુનામુવાડા લાવવામાં આવ્યા હતા.

દાહોદ રેલવે સ્ટેશન રોડ પર

રાહદારી હાથમાંથી મોબાઈલ ઝૂંટવી ગઠિયો ફરાર

દાહોદ તા.૨૪

દાહોદ શહેરમાં આવેલા રેલવે સ્ટેશન રોડ ખાતેથી સમી સાંજે ચાલતા પસાર થઈ રહેલા એક ૨૦ વર્ષના યુવક પાસેથી બે બાઈક પર સવાર થઈ આવેલા અજાણ્યા શખ્સોએ ૨૪ હજારનો કિંમતનો મોબાઈલ લઈ નાસી જતાં પોલીસમાં ફરીયાદ નોંધાવા પામી છે.

દાહોદ પોલીસ મથકે ફરિયાદ દાખલ

ગત તા.૨૩ ના રોજ દાહોદ તાલુકાના વાંદરીયા ગામે કાકરીમાળી ફળિયામાં રહેતા વિશાલભાઈ રાજુભાઈ ભુરીયા પોતાની નોકરી પરથી છુટી સાંજે દાહોદ શહેરમાં આવેલા ગોદી રોડ જકાતનાકાથી ચાલતા રેલવે સ્ટેશન રોડ પરથી પસાર થઈ રહ્યા હતા.આ દરમિયાન બે બાઈક ઉપર સવાર થઈ આવેલા અજાણ્યા ચોર શખ્સોએ વિશાલભાઈના હાથમાંથી ૨૪ હજારની કિંમતનો મોબાઈલ ફોન ચોરી કરી લઈ નાસી ગયા હતા.આ સંબંધે વિશાલભાઈ રાજુભાઈ ભુરીયાએ દાહોદ શહેર પોલીસ મથકે ફરિયાદ નોંધાવતા પોલીસે ગુનો નોંધી કાયદેસરની કાર્યવાહી હાથ ધરી છે.

હાલોલમાં શિક્ષક સજ્જતા કસોટીમાં ૧૦૨૩ પૈકી માત્ર ૧૦૪ શિક્ષકે ભાગ લીધો

હાલોલ,તા.૨૪

રાજ્ય સરકારે હાથ ધરેલા શિક્ષક સજ્જતા સર્વેક્ષણ (કસોટી)માં હાલોલ તાલુકાના ૧૦૨૩ પૈકી ફક્ત ૧૦૪ શિક્ષકોએ કસોટીમાં ભાગ લીધો હતો. હાલોલ તાલુકામાં શિક્ષક સજ્જતા સર્વેક્ષણમાં ફક્ત ૧૦ ટકા શિક્ષકોએ ભાગ લીધો હતો.

તાલુકાના ૯૦ ટકા શિક્ષકોએ સજ્જતા કસોટીનો બહિષ્કાર કર્યો

હાલોલ- તાલુકાની ૨૧૬ શાળાના ૧૦૨૩ શિક્ષકો માટે તાલુકાના ૧૮ સર્વેક્ષણ કેન્દ્ર પર શિક્ષક સજ્જતા સર્વેક્ષણ રખાયું હતું. જેમાં તમામ કેન્દ્રો પર થઇને માત્ર ૧૦૪ શિક્ષકોએ ભાગ લીધો હતો. ૯૦ ટકા શિક્ષકો સર્વેક્ષણમાં ગેરહાજર રહ્યા હતા.

આ કસોટી બાબતે શિક્ષક મહાસંઘે આક્રમકતાથી શિક્ષકોના અપમાન સમાન દિશા વિહીન સર્વેક્ષણ (કસોટી) નો વિરોધ કર્યો હતો. છતાં રાજ્ય સરકારે કસોટીનું આયોજન કર્યું હતું. જેના વિરોધમાં હાસંઘે બહિષ્કારનું આહવાન કર્યું હતું. જેને લઇ હાલોલ તાલુકા પ્રાથમિક શિક્ષકોએ માત્ર તેનો વિરોધ કર્યો હતો.

છોટાઉદેપુરના પુનીયાવાંટ બસ સ્ટેન્ડ પાસે કારમાંથી દારૂ સાથે એક ઝડપાયો

છોટાઉદેપુર,તા.૨૪

છોટાઉદેપુર હાઈવે ઉપરથી કારમાંથી રૂા.૨૭,૬૦૦ ના દારૂ સાથે એક ઇસમ ઝડપાઇ ગયો હતો.

છોટાઉદેપુર જિલ્લા પોલીસ ઉચ્ચ અધિકારીઓ દ્વારા જિલ્લામાં ચાલતી દારૂની હેરાફેરી વિરુધ્ધ કડક કાર્યવાહી કરવા સૂચના આપી હતી છોટાઉદેપુર પોલીસ સ્ટેશન વિસ્તારમાં પેટ્રોલીંગમાં હતા તે દરમ્યાન બાતમી મળેલ કે એક ઈસમ સફેદ કલરની સ્વિફ્ટ ડીઝાયર ગાડીમાં દારૂ ભરી છોટાઉદેપુરથી વડોદરા તરફ ખેપિયો જઇ રહ્યો હોવાની બાતમીના આધારે પોલીસે પુનીયાવાંટ બસ સ્ટેન્ડે નાકાબંધી કરી સ્વીફ્ટ કારને કોર્ડન કરી કાર તેમજ તેમાં ભરેલા દારૂ સાથે એક ઇસમ ભરતભાઈ છોટુભાઈ ઠાકોર (ઉ.૩૭ રહે. મંજોલા મદાપર ફળીયું તા.આમોદ જી. ભરૂચ) (હાલ રહે. કરજણ) ને ટીન બિયર નંગ ૨૪૦ કુલ કિ રૂા. ૨૭,૬૦૦ અને સ્વીફ્ટ કાર કિ ૨,૫૦,૦૦૦ મોબાઈલ નંગ-૧ કિ રૂા.૫૦૦૦ તથા રોકડા રૂ.૫૦૦ કુલ મુદ્દામાલ ૨,૮૭,૬૦૦ સાથે ઝડપી લઇ તેની સામે છોટાઉદેપુર પોલીસે ગુનો દાખલ કરી વધુ કાર્યવાહી હાથ ધરી છે.

ગોધરાની મેકકેબ હાઈસ્કૂલના આચાર્ય ઉપરાંત

શાળા મંડળના પ્રમુખ અને મંત્રી સામે ખોટા લઘુમતી પ્રમાણપત્રની ફરિયાદ

ગોધરા,તા. ૨૪

ગોધરા શહેરના દાહોદ રોડ પરની મેકકેબ મેમોરિયલ શાળા મંડળના પ્રમુખ, મંત્રી તેમજ આચાર્ય અંગત ફાયદા માટે બોગસ લઘુમતી પ્રમાણપત્ર બનાવી પંચમહાલ જિલ્લા શિક્ષણાધિકારી ની કચેરી સાથે વિશ્વાસઘાત, છેતરપીંડી કરતાં જિલ્લા શિક્ષણ નિરીક્ષકે પોલીસમાં ફરિયાદ નોંધાવી છે. પોલીસે ફરિયાદ ના આધારે ગુનો દાખલ કરી વધુ તપાસ હાથ ધરી છે.

ગોધરા પોલીસે ગુનો દાખલ કરી વધુ તપાસ હાથ ધરી

દાહોદ રોડ આઇ.ટી.આઇ. પાસે આવેલી મેકકેબ મેમોરિયલ હાઇસ્કૂલના પ્રમુખ સાયમન જે કિશ્રન, મંત્રી ઈમાનુએલ એસ. કાન્ત તેમજ આચાર્ય સુરેશભાઇ પરમારે હાઇસ્કૂલની સ્થાપના થઇ ત્યારથી વર્ષ ૧૯૮૪ થી આજ દિન શાળા પાસે અધિકૃત પ્રમાણપત્ર નહીં હોવાનું જાણતા હોવા છતાં તેઓએ માધ્યમિક શિક્ષણ બોર્ડના પત્રમાં હિલ મેમોરિયલ હાઇસ્કૂલ (ફતેગંજ, વડોદરા)ના લઘુમતી પ્રમાણ પત્રમાં છેડછાડ કરી હિલ મેમોરિયલ હાઇસ્કૂલ (ફતેગંજ, વડોદરા)ની જગ્યાએ મેકબેક મેમોરિયલ હાઇસ્કૂલનું નામ લખી તેમજ જિલ્લા શિક્ષણાધિકારી ની કચેરીમાં રજૂ થયેલા આ લઘુમતી પ્રમાણપત્ર બનાવટી હોવાનું જાણતા હોવા છતાં તેઓએ અંગત ફાયદા માટે તેનો સાચા તરીકે ઉપયોગ કરી રજૂ કરી જિલ્લા શિક્ષણાધિકારી કચેરી સાથે વિશ્વાસઘાત તેમજ છેતરપીંડી કરતાં આ મામલે પંચમહાલ શિક્ષણ નિરીક્ષકે ગોધરા શહેર એ ડિવિઝન પોલીસમાં ફરિયાદ નોંધાવતા પોલીસે ફરિયાદ નોંધી વધુ તપાસ હાથ ધરી છે.

નર્મદા નદીમાં એન સી ટી એલનું પ્રદૂષણ રોકવા જી પી સી બીને રજુઆત

ભરૂચ, તા.૨૪

નર્મદા નદીમાં ઝઘડિયા, અંકલેશ્વર,પાનોલી ઔદ્યોગિક વસાહતોમાંથી નીકળતું ગંદુ કેમિકલ યુક્ત પાણી મળી રહ્યું છે.ઝઘડિયા વસાહતમાંથી કેમિકલ યુક્ત પાણી પાઈપ લાઈન મારફતે કાંટિયા જાળ પાસે દરિયામાં જાય છે.

કેમિકલ યુક્ત ગંદા પાણીથી નદીની માછલીઓ અને જીવસૃષ્ટિને નુકસાન

સંચાલન નર્મદા કલીન ટેક કંપની કરી રહી છે. ગંદુ પાણી ભાડભૂત પરિયોજનાના જળાશય વિસ્તારમાં જઇ નર્મદાનાં પાણીને પ્રદૂષિત કરી રહ્યું છે.ઘણા સમયથી વારંવાર આ પાઈપ લાઈન તૂટવાની ઘટના બની રહી છે.આ પાઈપ લાઈનનું સંચાલન કરનારા કંપની એનસીટીએલ કોઇ જ કામ કરી રહી નથી. આ કેમિકલયુક્ત પાણી નર્મદા નદીમાં ભળતા નદીની માછલીઓ અને જીવનસૃષ્ટિને નુકસાન થઇ રહ્યું છે. વધુમાં બેરેજમાં ઉપરવાસમાં આવુ પાણી સતત વહી રહ્યું છે જે ભાડભૂત બેરેજ બન્યા પછી જળાશયને પ્રદૂષિત કરશે.

નર્મદા કલીન ટેક લિમિટેડને પ્રદૂષિત પાણી સીધું દરિયામાં નાંખવા અને યોગ્ય ધારા ધોરણનું પાલન કરવા ફરજ પાડે છે.નેશનલ ગ્રીન ટ્રીબ્યુનલે આપેલા ચૂકાદા મુજબ પ્રદૂષિત પાણી નદીમાં છોડવાનું નથી પરંતુ શુદ્ધિકરણ કરી પાઈપ લાઈન મારફતે દરિયામાં નાખવાનું છે. ઝઘડિયા વસાહત કોઇ સીઇટીપી પ્રક્રિયા કર્યા વગર કેમિકલયુક્ત ગંદુ પાણી સીધે સીધું દરિયામાં ઠાલવી દેવાય છે.આ પાઈપ લાઇનો વારંવાર લીકેજ થવાથી નર્મદા નદીના માછીમારોને કેમિકલ સીધેસીધું અસર કરી રહ્યું છે.

અંકલેશ્વર ખાતેથી પસાર થતી અમલાવાડી તેમજ અમરાવતી નદીમાં આવું ઔદ્યોગિક ગંદુ પાણી રોકવા કાર્યવાહી કરાય છે તે પાણી સીધું નર્મદા નદીમાં જઇ રહ્યું છે.થોડા સમય પહેલા અંકલેશ્વર ખાતે એન સી ટી એલના સીઇટીપી માંથી મોટા પ્રમાણમાં કેમિકલયુક્ત ગંદુ પાણી આમલા ખાડીમાં છોડવામાં આવતાં તે પાણી સૂચિત ડેમના ઉપરવાસના વિસ્તારમાં કોયલી ખાડી થઇ દાતી વિસ્તાર પાસે નર્મદા નદીમાં ભળી ગયું હતું.

બાલાસિનોરથી ગુમ થયેલી યુવતી માતર ગામેથી મળી આવી

લુણાવાડા તા.૨૪

બાલાસિનોર પોલીસ મથકે યુવતીની ગુમ થઇ હોવાની ફરિયાદના આધારે મહીસાગર લોકલ ક્રાઇમ બ્રાન્ચ દ્વારા યુવતીને શોધી કાઢી હતી.બાતમીના આધારે બાલાસિનોર પોલીસ સ્ટેશનમાં જાણવા જોગ ગુમ થનાર દક્ષાબેન કાભાયભાઇ નાનાભાઇ ઠાકોર (રહે.ઓથવાડ નાની)હાલ વનરાજભાઇ મંગળભાઇ ઠાકોર રહે.ઓથવાડ તા.બાલાસીનોર જી.મહીસાગર સાથે હાલ માતર ખાતે રહે છે.એલ.સી.બી. પોલીસે બાતમીવાળી જગ્યા એ જઇ તપાસ કરતા ગુમ થયેલી યુવતી વનરાજભાઇ મંગળભાઇ ઠાકોર સાથે મળી આવી હતી.પોતે સ્વખુશી નિવેદન લખાવા માગતા વધુ કાયદેસરની કાર્યવાહી માટે તથા પરત મળી આવ્યા અંગેની નોધ કરવા માટે બાલાસીનોર પોલીસ સ્ટેશને જાણ કરી કાર્યવાહી હાથ ધરી હતી.

જાહેર નોટીસ

સબ ડિવીઝન મેજિસ્ટ્રેટ દાહોદની કોર્ટમાં, અરજદાર તરફે વિ.વ.શ્રી..... કેસ.નં.૩૦/૨૦૨૧

અરજદાર : સંગાડા પરૂભાઈ રમસુભાઈ રહે. ઈટાવા, મંદિર ફળિયું, તા.જિ.દાહોદ — વિરૂધ્ધ — સામાવાળા : તલાટી કમ મંત્રીશ્રી, ઈટાવા તા.દાહોદ, જિ.દાહોદ

જન્મ મરણ અધિનિયમની કલમ: ૧૩(૩) મુજબની જન્મની નોંધણી કરવા બાબત.

આથી તમામ લાગતા વળગતા ઈસમોને જણાવવામાં આવે છે કે, અત્રેની કોર્ટના અરજદાર સંગાડા પરૂભાઈ રમસુભાઈની પુત્રી નામે સંગાડા રીયાબેન પરૂભાઈનો જન્મ તા.૮.૬.૨૦૧૬ ના રોજ ઈટાવા તા.દાહોદ, જિ. દાહોદ મુકામે તેઓના નિવાસ સ્થાને થયેલ છે જે અરજી અને સોગંધનામાથી જાહેર થયેલ છે. અરજદારની પુત્રીનો જન્મ થયેલ ત્યારે અરજદાર દ્વારા જન્મની નોંધણી તલાટી કમ મંત્રીશ્રી, ઈટાવા તા.દાહોદ, જિ. દાહોદના જન્મ મરણ નોંધણી રજીસ્ટરમાં નોંધ કરાવેલ નથી. તેથી સદરહુ અરજદારને તેમની પુત્રીના જન્મના દાખલાની જરૂરીયાત હોઈ અરજદાર જન્મ મરણ અધિનિયમની કલમ:૧૩(૩) મુજબ અત્રેની કોર્ટમાં ઉપરોક્ત નંબરની અરજી દાખલ કરેલ છે જેથી ઉપરોક્ત બાબતે લાગતાં વળગતાં જે કોઈ ઈસમને વાંધો, વિરોધ યા તકરાર હોય તો તેઓએ દિન ૩૦(ત્રીસ) માં કે, પહેલા જાતે યા વકીલશ્રી મારફતે અત્રેની કોર્ટ સમક્ષ હાજર રહેવું. જો તેમ કરવામાં કસુર કરવામાં આવશે તો અરજદારની ઉપરોક્ત અરજી બાબતે નામદાર કોર્ટ દ્વારા યોગ્ય હુકમ કરવામાં આવશે જે અંગે નોંધ લેશો.

આજ તારીખ: ૧૭મી માહે: ઓગષ્ટ સને ૨૦૨૧ના રોજ મારી સહી તથા કોર્ટનો સિક્કો કરી આપ્યો.

સહી/- (એમ.એમ.ગણાસવા) હુકમથી સબ ડિવીઝનલ મેજિસ્ટ્રેટ,દાહોદ

(કોર્ટનો સિક્કો)

મે.ગોધરાના સબ ડિવીઝનલ મેજીસ્ટ્રેટ સાહેબની કોર્ટમાં, મુ. ગોધરા

જન્મ/મરણ અરજી નંબર: ૮૬/૨૦૨૦

અરજદાર: (૧) મનિષ ખેમચંદ લાલવાણી, રહે. બી/એચ, ન્યુ બસ્ટેન, લાલબાગ રોડ, તા. ગોધરા, જિ. પંચમહાલ

વિરૂધ્ધ :

સામાવાળા : (૧) જન્મમરણ રજીસ્ટ્રાર, મુખ્ય અધિકારીશ્રી, નગરપાલિકા, ગોધરા

જાહેર નોટીસ

આથી જાહેર જનતાને તેમજ લાગતા વળગતા હીત ધરાવતા તમામ ઇસમોને આ જાહેર નોટીસથી જાણ કરવામાં આવે છે કે,

ઉપરોક્ત અરજદારે તેમના દાદા નામે ''દિયચંદ ધનરાજમલ લાલવાણી'' નું મરણ તા.૦૮-૦૯-૧૯૮૫ ના રોજ ગોધરા ખાતે થયેલ હતો. તેવું અમારી સમક્ષ જાહેર કરી અરજદારે તેમના દાદા નામે ''દિયચંદ ધનરાજમલ લાલવાણી''નું મરણની નોંધ સામાવાળાના મરણ રજીસ્ટરે કરવાની રહી ગયેલ હોઈ, સામાવાળાના રજીસ્ટરે મરણની નોંધણી કરાવવા સારૂ અત્રેની કોર્ટમાં અરજી દાખલ કરેલ છે.

વાસ્તે સદરહું અરજદારની અરજી સામે, જે કોઈ લાગતા વળગતા ઇસમોને વાંધો-તકરાર હોય તો તેમણે આ કોર્ટની સમક્ષ તા.૧૫-૦૯-૨૦૨૧ના રોજ સવારે ૧૨-૦૦ કલાકે લેખિતમાં પોતાના વાંધા-તકરાર રજુ કરવા. જો તેમ કરવામાં કસુર કરશો તો આ કોર્ટ સદર અરજી અંગે કાયદેસરની આગળની કાર્યવાહી કરશે. જેની નોંધ લેશો.

આજ તારીખ ૧૭-૦૮-૨૦૨૧ ના રોજ મારી સહી તથા કોર્ટનો સિક્કો કરીને આપ્યો.

હુકમથી (એન.બી. રાજપુત) સબ ડિવીઝનલ મેજીસ્ટ્રેટ, ગોધરા પ્રાન્ત ગોધરા.

(કોર્ટનો સિક્કો)

હાલોલના સબ ડીવીઝનલ મેજીસ્ટ્રેટની કોર્ટમાં, મુ. હાલોલ

અરજદાર:- વિજયકુમાર ઘનશ્યામભાઇ દરજી રહે. નીતા નગર, કણજરી રોડ, મુ.પો.તા.હાલોલ, જિ.પંચમહાલ.

જન્મ મરણ અરજી નં.૧૬૧/૨૦૨૧

વિરૂધ્ધ

સામાવાળા:- જન્મ મરણ રજીસ્ટ્રાર અને તલાટી કમ મંત્રીશ્રી, કણજરી, કણજરી ગ્રામ પંચાયત, તા.હાલોલ, જિ.પંચમહાલ.

-:: હુકમ ::-

આથી જાહેર જનતાને તેમજ લાગતા વળગતા હિત ધરાવતા તમામ ઇસમોને આ જાહેર નોટીસથી જાણ કરવામાં આવે છે કે,

ઉપરોક્ત વિગતના અરજદાર વિજયકુમાર ઘનશ્યામભાઇ દરજીનાઓનો જન્મ તા.૦૮/૦૫/૧૯૭૫ ના રોજ મુ. કણજરી, તા.હાલોલ, જિ.પંચમહાલ ખાતે થયેલ તેવું અમારી સમક્ષ જાહેર કરી અરજદારે તેઓના જન્મની નોંધ સામાવાળાના જન્મ રજીસ્ટરે નોંધણી કરાવવા સારૂ અત્રેની કોર્ટમાં અરજી દાખલ કરેલ છે.

વાસ્તે સદરહું અરજદારની અરજી સામે, જે કોઇ લાગતા વળગતા ઇસમોને વાંધો તકરાર હોય તો તેમણે આ નોટીસ પ્રસિધ્ધ થયેથી દિન -૩૦ (ત્રીસ) માં અત્રેની કોર્ટ સમક્ષ પોતાના વાંધા તકરાર રજુ કરવા. જો મુદતમાં વાંધો તકરાર રજુ કરવામાં નહીં આવે તો આ કોર્ટ સદર અરજી અંગે નિયમોનુસારની આગળની કાર્યવાહી કરશે જેની નોંધ લેશો.

આજ તા.૨૩, માહે ઓગષ્ટ, સને ૨૦૨૧ ના રોજ મારી સહી તથા કોર્ટનો સિક્કો કરીને આપ્યો.

હુકમથી સહી અવાચ્ય (બે.કે.ગૌતમ) સબ ડીવીઝનલ મેજીસ્ટ્રેટ હાલોલ પ્રાન્ત હાલોલ

(કોર્ટનો સર્ક્યુલર સીલ)

હાલોલના સબ ડીવીઝનલ મેજીસ્ટ્રેટની કોર્ટમાં, મુ. હાલોલ

અરજદાર:- કપિલાબેન ચંદુભાઇ દરજી રહે. શ્રી હરિ ટાઉનશીપ, ગોકુલધામ રેસીડન્સી, આજવા રોડ, મુ.પો.વડોદરા, જી.વડોદરા

જન્મ મરણ અરજી નં.૧૬૨/૨૦૨૧

વિરૂધ્ધ

સામાવાળા:- જન્મ મરણ રજીસ્ટ્રાર અને તલાટી કમ મંત્રીશ્રી, વરસડા, વરસડા ગ્રામ પંચાયત, તા.હાલોલ, જિ.પંચમહાલ.

-:: હુકમ ::-

આથી જાહેર જનતાને તેમજ લાગતા વળગતા હિત ધરાવતા તમામ ઇસમોને આ જાહેર નોટીસથી જાણ કરવામાં આવે છે કે,

ઉપરોક્ત વિગતના અરજદાર કપિલાબેન ચંદુભાઇ દરજીનાઓનો જન્મ તા.૦૫/૦૪/૧૯૫૩ ના રોજ મુ. વરસડા, તા.હાલોલ, જિ.પંચમહાલ ખાતે થયેલ તેવું અમારી સમક્ષ જાહેર કરી અરજદારે તેઓના જન્મની નોંધ સામાવાળાના જન્મ રજીસ્ટરે નોંધણી કરાવવા સારૂ અત્રેની કોર્ટમાં અરજી દાખલ કરેલ છે.

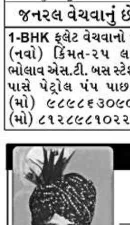
વાસ્તે સદરહું અરજદારની અરજી સામે, જે કોઇ લાગતા વળગતા ઇસમોને વાંધો તકરાર હોય તો તેમણે આ નોટીસ પ્રસિધ્ધ થયેથી દિન -૩૦ (ત્રીસ) માં અત્રેની કોર્ટ સમક્ષ પોતાના વાંધા તકરાર રજુ કરવા. જો મુદતમાં વાંધો તકરાર રજુ કરવામાં નહીં આવે તો આ કોર્ટ સદર અરજી અંગે નિયમોનુસારની આગળની કાર્યવાહી કરશે જેની નોંધ લેશો.

આજ તા.૨૩, માહે ઓગષ્ટ, સને ૨૦૨૧ ના રોજ મારી સહી તથા કોર્ટનો સિક્કો કરીને આપ્યો.

હુકમથી સહી અવાચ્ય (બે.કે.ગૌતમ) સબ ડીવીઝનલ મેજીસ્ટ્રેટ હાલોલ પ્રાન્ત હાલોલ

(કોર્ટનો સર્ક્યુલર સીલ)

બેસણું



સ્વર્ગવાસ : ૨૦-૦૮-૨૦૨૧

બેસણું : ૨૬-૦૮-૨૦૨૧

ઉત્તર ક્રિયા: ૦૧-૦૯-૨૦૨૧

સ્વ. વિરપરા રામસિંહ સ્વરુપસિંહ

લી. વિરપરા રણવીરસિંહ સ્વરુપસિંહ
વિરપરા જીતેન્દ્રસિંહ રામસિંહ
વિરપરા દિગ્વિજયસિંહ રામસિંહ
સોલંકી અરવિંદસિંહ સ્વરુપસિંહ
સોલંકી ઇન્દ્રસિંહ સ્વરુપસિંહ
સોલંકી દેવેન્દ્રસિંહ સ્વરુપસિંહ
તથા સમસ્ત સોલંકી પરિવાર

ગામ: મનાજીના મુવાડા, તા. લુણાવાડા, જી.મહિસાગર

સ્વ. વિરપરા રામસિંહ સ્વરુપસિંહ

આઠમી પુણ્યતિથિએ શ્રધ્ધાંજલિ

સ્વ. અંબાલાલ નરોત્તમભાઈ પટેલ

જન્મ તા. ૨૫-૧૦-૧૯૫૦

સ્વ. તા. ૨૫-૦૮-૨૦૧૩

સમયનું ઝરણું વહેતું રહેશે,
દિન-રાતનો ક્રમ ચાલતો રહેશે
અને આપના સત્કર્મોની સુરભી
અવિરતપણે પ્રસરતી રહેશે..
પ્રભુ આપના દિવ્ય આત્માને શાંતિ અર્પે એવી પ્રાર્થના..

લિ. ગં.સ્વ. રમીલાબેન અંબાલાલ પટેલ
મણીલાલ નરોત્તમભાઈ પટેલ
ઠાકોરભાઈ નરોત્તમભાઈ પટેલ
કેયુર ડાહ્યાભાઈ પટેલ
ધર્મેશ અંબાલાલ પટેલ
અનિલા ધર્મેશકુમાર પટેલ
તૃપ્તિ અંબાલાલ પટેલ
પંકજ રામુભાઈ પટેલ

(વતનઃ કંઠિયાજાળ, તા. હાંસોટ) અદિતિ, યશ, ધ્રુવી તથા સમસ્ત પરિવાર-અંકલેશ્વર.

બેસણું

કુમારી પ્રિયાબહેન (પિયુ) ઘનશ્યામકુમાર

જન્મ તા. ૬-૧-૨૦૦૨

સ્વ. તા. ૨૧-૮-૨૦૨૧

મો. નં. : 9979153056

અમારી દિકરી તારીખ ૨૧-૮-૨૦૨૧ શનિવારના રોજ દેવલોક પામેલ છે. પરમ કૃપાળુ પરમાત્મા સદ્‌ગતના દિવ્ય આત્માને શાંતિ આપે તેવી પ્રાર્થના.

બેસણું : તા. ૨૬-૦૮-૨૦૨૧, ગુરૂવાર
સમય : સવારે ૯-૦૦ કલાકે
સ્થળ : મુ. પટારીઆ(ગોધરની બાજુમાં) લુણાવાડા-સંતરામપુર હાઈવે
સુતક : તા. ૨૭-૮-૨૦૨૧, શુક્રવાર
ઉત્તરક્રિયા : તા. ૨ - ૯ - ૨૦૨૧ ગુરૂવાર

લિ.
ગઢવી શિવદાન ઈશ્વરદાન
ગઢવી નટવરસિંહ શિવદાન
ગઢવી ઘનશ્યામકુમાર નટવરસિંહ
ગઢવી પુષ્પાબહેન ઘનશ્યામકુમાર

પ્રથમ વાર્ષિક પુણ્યતિથીએ હાર્દિક શ્રધ્ધાંજલી

સ્વ. શાંતાબેન શિવાભાઈ પટેલ

સ્વ. તા. ૨૫/૦૮/૨૦૨૦

જીવનમાં હરપળ હસતા રહ્યા, સ્નેહથી સૌને હૈયે
વસતા રહ્યા, આશા અને અરમાનોની શ્રેષ્ઠ ક્ષણોમાં
તમે ઓચિંતિ લીધી વિદાય. તમારા દિવ્ય સંસ્કારો
અમારા જીવનમાં સીંચી, જીવનને ઐશ્વર્ય આપી
ગયા તમે. તમારું વાત્સલ્ય, તમારો પ્રેમ કદીયે ન ભુલીશું.
અમે અમારા જીવનની પળે પળ યાદ કરીશું તમને,
પ્રભુ આપના દિવ્ય આત્માને શાંતિ આપે તેજ પ્રાર્થના...

પટેલ ભીખાભાઈ એસ. | પટેલ જશોદાબેન બી.
પટેલ તરૂણકુમાર બી. | પટેલ જયાબેન ટી.
પટેલ નીલ તરૂણકુમાર

મુ.તરાલના મુવાડા, તા.લુણાવાડા, જી.મહીસાગર

CHANGE OF NAME

I Abdulrashid Abdulhamid Tajbhai declare that I have changed my name from ABDURRASHID ABDULHAMID TAJBHAI to ABDULRASHID ABDULHAMID TAJBHAI

C-13,Sapna Society, Idgah Amboli Road,Ankleshwar,Dist.Bharuch,Gujarat

નામ પરિવર્તન

મારૂં જુનું નામ કુતુબખાન ફોરોઝભાઈ ઝાબુઆવાલા હતું જે બદલીને નવું નામ કુતુબખાન ફિરોઝભાઈ ઝાબુઆવાલા રાખેલ છે. પાસપોર્ટ નંબર J9877549. સરનામું:- 104, સફદર આરકેડ, મેઈન ઓવર બ્રીજ, ઠક્કર ફળિયા, દાહોદ - 389151.

ઓપન ઈન્ટરવ્યું

ગોપાલક વિકાસ મંડળ, અણિયાદ

GVM NURSING COLLEGE, ANIYAD

ગોપાલક વિકાસ મંડળ, અણિયાદ, તા. શહેરા, જી. પંચમહાલ સંચાલિત GVM NURSING COLLEGE (ANM, GNM, B.Sc. & M.Sc. NURSING) કોલેજ માટે નીચે મુજબની લાયકાત ધરાવતા ઉમેદવારની જરૂરિયાત હોઇ ઇચ્છુક ઉમેદવારે લાયકાતની સ્વ પ્રમાણિત નકલો, બાયોડેટા તથા પાસપોર્ટ સાઇઝના ફોટો સાથે નીચે જણાવેલ સરનામે હાજર રહેવું

લાયકાત : 1. M.Sc. Nursing (Psychiatric, OBG, CHN, Pediatric) 2. B.Sc. Nursing 3. Post Basic Nursing

સ્થળ : GVM NURSING COLLEGE ગામ : અણિયાદ, તા : શહેરા, જી. પંચમહાલ - ૩૮૯૨૧૦

તારીખ : ૩૧/૦૮/૨૦૨૧ સમય : સવારે ૧૧.૩૦ થી સાંજે ૫.૦૦

સંપર્ક : ૭૫૬૭૪૭૩૫૪૨, ૮૧૪૧૫૯૦૯૭૫

જાહેર નોટીસ

આથી અમો એડવોકેટ **રાજા ગોપાલ**, ભરૂચના તે અમારા અસીલ **રિધ્ધિ સિધ્ધી લેન્ડ બીલ્ડ ડેવલોપર્સ પ્રા.લી.**, રજી.ઓફીસ : ૩૬, સમૃધ્ધી, મોલ–૨૧ પાછળ, રાજીવ ગાંધી પરીસર, એમ.આઈ.રોડ, જયપુર–૩૦૨ ૦૦૧ (રાજસ્થાન) નાઓની સૂચના અને ફરમાઈશ અન્વયે જાહેર જનતાને આ જાહેર ચેતવણીની નોટીસ આપી જાહેર જનતાને તાકીદ કરીએ છીએ કે, અમારા અસીલે **મેસર્સ સુવાસ રીયાલીટી પ્રા. લી.** નાઓ પાસેથી તા.૨૦/૦૮/૨૦૧૨ નાં રોજ તેઓની **મોજે ગામ : ગડખોલ, તા.અંકલેશ્વર, જી.ભરૂચ ના રેવન્યુ સર્વે નંબર : ૧૧૩/૨/૮, ૧૧૩/બી૧/પી૧, ૧૧૩/૧/પી૧, ૧૧૫/૧/પી, ૧૧૪/પી૧, ૧૧૨/પી૧ પૈકી પ્લોટ નંબર : ૩૦૦૧ (જી.આઈ.ડી.સી.અંકલેશ્વર), જેનું ક્ષેત્રફળ : ૪૩૧૬૫ ચો.મી. વાળી જમીન** અંગે એક કબજા સાથેનો વેચાણ બાનાખત તા.૨૦/૦૮/૨૦૧૨ નાં રોજ કરેલ. અને સદરહું જમીન અંગે જી.આઈ.ડી.સી. ની જે કાંઈ પેનલ્ટી, ટેક્ષ ચૂકતે થયેથી યાને ટાઈટલ કલીયરન્સ થયેથી બાકીનો અવેજ ચૂકતે કરી રજીસ્ટર વેચાણ દસ્તાવેજ કરાવી લેવાની મુખ્ય શરત સદરહું બાનાખતમાં લખવામાં આવેલ. પરંતુ બાનાખતની મુખ્ય શરત મુજબ સદર જમીનનું જી.આઈ.ડી.સી. ની પેનલ્ટી તથા જમીનનું ટાઈટલ કલીયરન્સ થઈ ગયેલ હોવા છતાં સદર જમીનના માલીક રજી. વેચાણ દસ્તાવેજ કરી આપતા ન હોવાથી અમારા અસીલે અંકલેશ્વરના ત્રીજા એડીશનલ સીનીયર સીવીલ જજ સાહેબની કોર્ટમાં સ્પે. મુ. નં. ૨૦/૨૦૨૧ થી દસ્તાવેજ કરી આપવા માટેનો દાવો કરેલ છે જે હાલ પેન્ડીંગ છે. અમારા અસીલની જાણમાં આવેલ છે કે, ઉપરોકત જમીનના માલીક ગેરકાયદેસર રીતે સદર જમીનને અન્ય ઈસમોને ટ્રાન્સફર, વેચાણ કરવાની પેરવી કરી રહયા છે. અમારા અસીલે સદર જમીનનો કબજા સાથેનો વેચાણ બાનાખત કરાવેલ છે. અને સદર જમીન ઉપર અમારા અસીલનો કાયદાકીય અધિકાર હોય જેથી સદર જમીન અંગે કોઈપણ ઈસમ, સંસ્થા, પેઢી, બેંકે કોઈપણ પ્રકારનો વ્યવહાર કરવો નહિં. અને જો કરશો તો તે વ્યવહાર અંગેની અંગત જવાબદારી જે તે વ્યક્તિ, ઈસમ, સંસ્થા, પેઢીની રહેશે અને આવા ખોટા વ્યવહાર વિરૂધ્ધ અમારા અસીલ કાયદેસરની પ્રક્રિયા કરી દિવાની તેમજ ફોજદારી રાહે પગલાં ભરશે જેની જાહેર જનતાએ નોંધ લેવી.

ભરૂચ.તા.૨૩-૦૮-૨૦૨૧

સરનામુ:૧૫, રચનાનગર, મકતમપુર રોડ,ભરૂચ . મો.નં.૯૮૯૮૦૭૨૫૪૨

અસીલની સુચના અન્વયે મારી મારફતે

સહી/-(રાજા ગોપાલ) એડવોકેટ

રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેડ - દહેજ મેન્યુફેકચરિંગ ડિવિઝન
મુ. દહેજ, તા. વાગરા, જી. ભરૂચ-૩૯૨૧૩૦

જાહેર નિવિદા | પર્યાવરણ મંજૂરી

આથી જણાવવાનું કે ભારત સરકારના પર્યાવરણ, વન અને જળવાયુ પરિવર્તન મંત્રાલય, નવી દિલ્હી, દ્વારા પ્લોટ-૧, જી.આઈ.ડી.સી.-દહેજ, મુ. દહેજ, તા. વાગરા, જી. ભરૂચ સ્થિત અમારા દહેજ મેન્યુફેકચરિંગ ડિવિઝન ખાતેના પેટ્રોકેમિકલ્સ પ્લાન્ટના વિસ્તૃતીકરણ અને ડીબોટલનેકીંગ માટે તા. ૧૯ ઓગષ્ટ, ૨૦૨૧ ના પત્ર ક. નં. J-11011/39/2016-IA-II (I) થી પર્યાવરણ મંજૂરી આપેલ છે.

જેની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડની કચેરીએ તેમજ મંત્રાલયની વેબસાઈટ એટલે કે https://parivesh.nic.in ઉપર જોઈ શકાશે.

સહી
પ્રેસિડેન્ટ - રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેડ
દહેજ મેન્યુફેકચરિંગ ડિવિઝન

તા. ૨૪/૦૮/૨૦૨૧

-: જાહેર ચેતવણી :- તા.૨૫/૦૮/૨૦૨૧

[illegible]

મો.નં.૮૮૬૬૦૪૬૫૯૩

સુનીલકુમાર ચીમનલાલ પરીખ, (એડવોકેટ)

ઓફિસઃ સપન પ્રેસ સામે, સ્ટેશન રોડ, હાલોલ-૩૮૯ ૩૫૦, જી.પંચમહાલ.

(સુનીલકુમાર ચીમનલાલ પરીખ) એડવોકેટ સહી અવાચ્ય અસીલની સુચનાથી

Reliance Industries Limited

Dahej Manufacturing Division
P.O. :Dahej, Ta: Vagra, Dist: Bharuch-392 130

PUBLIC NOTICE — **ENVIRONMENTAL CLEARANCE**

It is hereby informed that the Ministry of Environment, Forest & Climate Change, Government of India, New Delhi has accorded **ENVIRONMENTAL CLEARANCE** to **M/s Reliance Industries Limited** for Expansion & Debottlenecking of existing Petrochemical Plant of Dahej Manufacturing Division (DMD) at Plot No. 1, GIDC Dahej, District Bharuch, Gujarat vide their letter No. J-11011/39/2016-IA-II (I) dated 19th August 2021

Copy of the clearance letter is available at Gujarat State Pollution Control Board and may also be seen on the Website of the Ministry of Environment, Forest & Climate Change at https://parivesh.nic.in

Sd/-

Date:24/08/2021

President – Dahej Mfg. Div.

Sena workers pr... BJP over Rane's re...

Workers Square Off Against Each Other

Mumbai/Pune/Amravati: Union minister Narayan Rane's remarks against Maharashtra Chief Minister Uddhav Thackeray set off protests in Mumbai and several other cities which included pelting of stones and vandalising offices of BJP in some areas by Shiv Sena cadres.

In Mumbai, activists of Yuva Sena, the youth wing of the Sena, and the BJP clashed with each other near Rane's residence on the Juhu Tara Road in Santacruz (West).

Stones were pelted from both sides, following which police used cane-charge to disperse the agitators, an official

Police personnel wield their batons against the support... and BJP as a clash breaks out between them in Mumba...

while he was having his lunch. He is nearly 70. Should a person of such age be treated like this? We feel there is a

needs to be checked and he should be hospitalized," the BJP legislator added.

Lad also expressed appre-

Stones were... na leader and ... brao Patil said ... his balance".

"He should...

...Deo meet Rahul; no leadership change

Chhattisgarh CM Bhupesh Baghel with state in-charge PL Punia and Chhattisgarh health minister T S Singh Deo comes out of Congress leader Rahul Gandhi's residence in New Delhi on Tuesday

...Baghel and Deo, with the latter lobbying hard for months to replace Chief Minister Baghel. On July 17, Deo walked out of the Council of Ministers and met the Congress national leadership to direct Sidhu to immediately ... in his aides. PTI

...ial in July this year.

During his Delhi visit, Baghel said he would abide by the decision of the leadership. "I will abide by the decision of the leadership," he said. He said that he had consulted party state President K. Annamalai over his decision to quit. IANS

Fuel price: Min says people will get relief soon

New Delhi: The government is very sensitive to the issue of rise in fuel prices, Union Minister for Petroleum and Natural Gas **Hardeep Singh Puri** said on Tuesday, asserting that people will get some relief in the coming months.

International oil prices are slowly coming down and stabilising, the minister added, addressing a press conference here.

"The central government is very sensitive to this issue...I see that in the coming months relief will come," he told reporters, replying to a query if any relief can be expected in the near future.

Puri, however, defended the government on the consistent rise of fuel prices in the country, saying the Centre imposes an excise duty of Rs 32 per litre and the revenue thus generated is spent on various welfare schemes.

"The central government is also very sensitive to other responsibilities that we have...the government provided free rations to 80 crore people, free vaccines, all other facilities. So it's a part of that picture," he said. PTI

Rahul slams Mo...

New Delhi: Congress leader Rahul Gandhi on Tuesday slammed the Centre's move to monetise its assets across key sectors, saying the Modi dispensation is in the process of selling India's "crown jewels" built by previous governments with public money over 70 years.

Addressing a press conference here with former Union finance minister P Chidambaram, he said the BJP has claimed that nothing happened in India for 70 years, but now all assets created in all these years are be-

Congress leader Ra...

ing sold.

Gandhi alleg... Narendra Mod... ment's privatis...

Annexure XCI

List of Environmental Clearances

Sr. No.	EC	Accorded By	Date of issue
1.	**EC vide letter no. J-11011/27/90-IA-II** dated 14th March 1991 for Gandhar Petrochemical Compex.	MoEF (IA-II Division)	14.03.91
2.	**EC vide letter no. J-16011/45/96-IA-III** dated 26th December 1996 for jetty	MoEF (IA Division)	26.12.96
3.	**EC vide letter no. J-11012/11/97-IA-II** dated 21st May 1998.	MoEF (IA Division)	21.05.98
4.	**EC vide letter No. J-11011/482/2006-IA II (I) for** CAPEX project at Gandhar Petrochemicals Complex	MoEF (IA Division)	11.06.07
5.	**EC vide letter: F.No. J-11011/402/2007– IA II (I) for** expansion project of M/s Reliance Industries Limited, Dahej Manufacturing Division	MoEF (IA Division)	20.03.08
6.	**EC vide letter No. SEIAA /GUJ/EC/5(e)& 1(d) /124/2011 for** setting up of EODs , Acrylic Acid and Esters, Phenol, PTA, PET Plants and 200 MW CCPP in the existing petrochemical unit at Dahej Manufacturing Division, P.O Dahej, Tal Vagra, Dist. Bharuch by M/s Reliance Industries Limited	SEIAA, Gujarat	23.06.11
6a.	Amendment to EC granted on 23.06.11 vide letter No. SEIAA /GUJ/EC/5(e)& 1(d) /160/2011 dtd, 09.08.11	SEIAA, Gujarat	09.08.11
6b.	Amendment to EC granted on 23.06.11 vide letter No. SEIAA /GUJ/EC/5(e) & 1(d) /278/2011 dtd. 12.09.12	SEIAA, Gujarat	12.09.12
7.	**EC vide letter No. SEIAA/GUJ/EC/1(d) & 7(e)/96/2015 dated 02.03.2015 for** setting up of a coal based Captive Cogeneration Power Plant (CCPP) of 3 X 90 MW (270 MW) and proposed modification in existing Reliance Dahej Marine Terminal (RDMT) Jetty for receiving the coal by creating coal handling facility with 2.5 MMTPA capacity in Narmada Estuary at Dahej, Dist: Bharuch	SEIAA, Gujarat	02.03.15
7a.	Amendment to EC granted on 02.03.15 vide letter No. SEIAA/GUJ/EC/1(d) & 7(e)/583/2016 dated 28.09.2016	SEIAA, Gujarat	28.09.16
8.	**EC vide letter No. F. No. J-11011/39/2016-IA-II (I) dated 03.04.2017** for Expansion & Debottlenecking of petrochemical plant of Dahej Manufacturing Division (DMD)	MoEF (IA Division)	03.04.17
9.	**EC vide letter No. F. No. J-11011/39/2016-IA-II (I) dated 19.08.2021** for Expansion & Debottlenecking of petrochemical plant of Dahej Manufacturing Division (DMD)	MoEF (IA Division)	19.08.21
10	**EC vide letter No. F. No. J-11011/39/2016-IA-II (I) dated 11.09.2023** for Expansion & Debottlenecking of petrochemical plant of Dahej Manufacturing Division (DMD)	MoEF (IA Division)	11.09.23
10a.	Amendment to EC granted on 11.09.23 vide letter No. F. No. J-11011/39/2016-IA-II (I) dated 11.03.2024	MoEF (IA Division)	11.03.24

ANNEXURE XCII

Fresh Water Consumption

(April 2024 – September 2024)

Fresh Water Consumption (KLD)			
Prescribed Limit	**Avg**	**Min**	**Max**
1,38,700	87716	80477	91849

Effluent Details

(April 2024 – September 2024)

Description	Consent Permissible Limit (KLD)	Average (KLD)	Min (KLD)	Max (KLD)
Quantity of Effluent Generation	51,002	38,826	36898	41099
Quantity of Effluent Recycle	14,710	19,715	18641	20603
Quantity of Effluent Discharge	36,292	19,111	16834	20650
Percentage of Recycle	30 %	49%	46%	52%