

Date: 27th May, 2024

RIL-DMD/HSEF/ENV/2024/29

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
- 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

Acknowledgment

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. L.11011/27/90 IA II Cata

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

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

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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	ЕО	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	

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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 MoEF&CC / SEIAA. Complied.

Date: 30/05/2024

AIR QUALITY
2 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 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. all results are conforming to the standards prescribed by GPCB norms. Details of AAQ Monitoring data can be referred as Annexure VI. Complied. Online analyzers for Stack emission monitoring are provided. VCM emissions are being monitored through MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and the monitoring report is submitted to GPCB on monthly basis. VCM emission's summary for the period Oct'23 - Mar'24 is given in condition no 4. Pl. refer Annexure III of Stack monitoring reports for detailed monitoring results of VCM. Complied. The emissions and AAQ are being monitored on monthly basis through MoEF&CC recognized & 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 & 98. The report of the stack emission and AAQ reports are submitted every month to GPCB and six monthly to Regional Office of MoEF&CC. MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. All results are conforming to the standards prescribed by GPCB norms. Pl. refer detailed Stack Emission Monitoring Report enclosed as Annexure III. Detailed Ambient Air Quality Monitoring Report including other locations is available as Annexure VI. Compiled.

Date: 30/05/2024

3

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 Oct'23 – Mar'24. Further no change will be carried out without the approval of Pollution Control Board. Complied. 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. Complied.

1	MISCELLANEOUS	The incinerator should have a stand-by system for un circumstances.	noreseen
Γhere	Submission: Complied are three incinerators in VCM plant, of eseen circumstances. Complied.	f which one is on standby and can be used during any	Date: 30/05/2024
5	WASTE MANAGEMENT	The project authorities should recycle the waste to the extent and liquid effluent coming out of the plants should stipulated standards. There should be only minimum described by the control of the plants of the	uld meet the
Recycles alid walid walid Mumber MoEl Anne within within	lers as per CCA order no AWH-121992 till 3rd November, 2026. Complied. The gh MoEF&CC recognized & NABL acceptai and the same is conforming to the CF&CC recognition letter and NABL cerxure II. Effluent quality is conforming the monitoring report is enclosed as Annual content.	n extent both internally and by selling to authorized 2 dated 25th November 2022, granted by GPCB and e treated effluent is being monitored every month credited laboratory M/s Netel (India) Limited, Navi GPCB standards for the period Oct'23 – Mar'24. tifficate of M/s Netel (India) Limited is enclosed as to the standard stipulated by GPCB. The detailed treated nexure VII. Complied. Treated effluent is being recycled p, green belt development. The Effluent recycling is charge from the complex. Complied.	Date: 30/05/2024
5	Statutory compliance	The project authority must strictly adhere to the stiput by the State Pollution Control Board and the State Gov	
Stipul Cons s vali	solidated Consent & Authorisation) orded up to 3rd November, 2026 are strictly olidated Consents & Authorization (CC)	control Board vide CTO (Consent to Operate) / CCA er no AWH-121992 dated 25th November 2022 which y adhered to. The detailed compliance status report of A) granted by GPCB is enclosed as Annexure I.	Date: 30/05/2024
7	WATER QUALITY MONITORING AND PRESERVATION	The liquid effluent to be discharged into the sea shou temperature difference of not more than 50C as compa water temperature	
The li		aintains temperature difference of less than 5 oC as ond is provided to store the treated effluent to attain into the sea. Complied.	Date: 30/05/2024
atmos			
atmos	MISCELLANEOUS	The project authority must submit comprehensive EI the proposed activity along with the future activity proposed/approved by this Ministry, before July 1991	A report for
PPs Compappro	Submission: Complied orehensive EIA study for the proposed a	the proposed activity along with the future activity proposed/approved by this Ministry, before July 1991 activity along with the future activity proposed/out and completed in September 1991 and the report	A report for Date: 30/05/2024

PPs Submission: Complied

The gaseous emissions from various process units are monitored on monthly basis through MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results given below indicated 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. All results are conforming to the standards prescribed by GPCB norms. Pl. refer detailed Stack Emission Monitoring Report enclosed as Annexure III. Complied. At no time the emission level has gone beyond the stipulated standards prescribed by GPCB during Oct'23 – Mar'24. Please refer detailed Stack emission monitoring report enclosed as Annexure III. 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 Oct'23 – Mar'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.

Date: 30/05/2024

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 Oct'23 – Mar'24 was 14.55 MGD, which is not exceeding the permissible limit for water drawl of 22 MGD. Complied. 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. Complied.

Date: 30/05/2024

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 bases. The details of quality of treated effluent is furnished in condition no. 8. Complied.

Date: 30/05/2024

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. Complied.

Date: 30/05/2024

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. Complied.

14	GREENBELT	The green belt design should be finalised and got app this Ministry within a period of one year	proved from
	Ç ,	it was developed as per guidelines given by NEERI.	Date: 30/05/2024
15	WASTE MANAGEMENT	The project authority should prepare a well-designed solid waste disposal generated during various processe in treatment plant. The plan for disposal should be sub Ministry within two years.	s operation or
Hazard Author hazard Counc waster Hazard is give	led Hazardous and Other Waste (Manarisation (AWH-121992) from GPCB fous wastes is available which is valid il (NPC), New Delhi was retained by I management system and the solid was dous and solid wastes collected, stored	at site is being managed in accordance with the agement and Transboundary Movement) Rules, 2016. or collection / treatment / storage / disposal of up to 3rd November, 2026. M/s. National Productivity Erstwhile IPCL for providing the design of the solid te disposal plan was submitted to the Ministry. and disposed during reporting period Oct'23 – Mar'24 a - 4 submitted to GPCB for the year 2022-23 enclosed	Date: 30/05/2024
16	Risk Mitigation and Disaster Management	A detailed risk analysis based on Maximum Credible Analysis should be done once the process design and I frozen. Based on this a disaster management plan has t and after approval by the concerned nodal agency, sho submitted to this Ministry	ay-out is to be prepared
Detaile the site Emerg	e based on which the Disaster Manage	m Credible Accident Analysis scenario is carried out for ment Plan (i.e. On-site Emergency Plan and Off-site x. The DMP is approved by the DISH. The DMP is	Date: 30/05/2024
17	MISCELLANEOUS	The funds earmarked for the environmental protection should not be diverted for other purposes and year-wis should be reported to this Ministry.	
Dedica other a – Mar' incurre • Onlin contro	activities at the plant. The recurring en 24 was around INR 108.3 Crores. Sored during Oct'23 – Mar'24 is appendence Continuous emission and effluent management (Effluent treatment & management).	are allocated each year and it is not diverted for any vironmental expenditure for the reporting period Oct'23 me of the major areas where environment expenditure d below: • Environment monitoring – INR 31.49 Lakhs nonitoring systems – INR 46.27 Lakhs • Pollution gement / APCM) – INR 102.71 Crores • Waste t development – INR 2.83 Crores Complied.	Date: 30/05/2024
18	MISCELLANEOUS	The Ministry may revoke clearance if implementatio stipulated conditions is not satisfactory.	n of the
	Submission: Complied		Date: 30/05/2024
	ondition is not applicable to us.		

PPs Noted.	Submission: Complied		Date: 30/05/2024
20	WATER QUALITY MONITORING AND PRESERVATION	Routine toxicity bioassay based on the effluent with fish-food organism must be carried out at least once in	
Bioass treated carried 100%	l effluent. The local fishes are taken as a lout in the laboratory as per the IS 658.	cted in the laboratory with the test containers for the the Testing animal for this experiment and the test is 2. Result of 96% survival of fish after 96 hours in od of Oct'23 – Mar'24. The analysis results of omplied.	Date: 30/05/2024
21	MISCELLANEOUS	A separate environmental management cell with sui people to carry out various functions should be set up control of Senior executive who will report directly to organization.	under the
A sepa plus ye		ronment Head with environment qualification and 17 2 qualified Environment professionals (Env. Engg). omplied.	Date: 30/05/2024
22	MISCELLANEOUS	The project authority must set up a laboratory facility and analysis of samples under the supervision of compersonnel who will directly report to the Chief Executive.	petent technica
RIL-D technic sample	cians under the supervision of competer	ce (Laboratory) dept., manned with qualified Lab- nt & well-experienced managers who also carry out the y reports to the Technical Head of the complex. For the ease refer Annexure XII. Complied.	Date: 30/05/2024
23	MISCELLANEOUS	The villagers who are likely to be displaced due to sproject should be rehabilitated as per Govt. of India C State Govt. guidelines whichever is acceptable to loca Rehabilitation Master Plan should be submitted and g within 6 months of this approval	buidelines, or all population.
	Submission: Complied ilitation plan submitted and approved in	n the EIA of the complex. Complied.	Date: 30/05/2024
24	WATER QUALITY MONITORING AND PRESERVATION	Ground water near the solid waste disposal site as we the plant should be regularly monitored.	vell as around
Groun		the solid waste disposal site as well as around the ring results are available as Annexure X. Complied.	Date: 30/05/2024
25	Risk Mitigation and Disaster Management	The storage tanks and spheres must conform to the made by the Chief Inspector of Factories, Controller etc. Wherever required, it should be supplemented by	of Explosives

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. Complied.

26

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 MoEF&CC / SEIAA as detailed in condition no. 2. Complied.

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

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

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

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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	Ethylene Oxide	Tons per Annum (TPA)	N/A	1,50,000	62,371	
19	Ethylene Glycol	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	

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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. Complied.

Date: 01/06/2024

2 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 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 were planted. The growth is under care / observation. Photographs of Mangrove plantation carried out at Jetty can be seen in Annexure XIII.

Date: 01/06/2024

3 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: 01/06/2024

4 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: 01/06/2024

5 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. Complied.

Date: 01/06/2024

6

7

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. Complied. 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. Complied.

Date: 01/06/2024

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 & other OSRP equipment's requirements are being maintained by external agency. For firefighting one 18" 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. Complied.

Date: 01/06/2024

8

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. Complied.

Date: 01/06/2024

	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.			
A separ		vironment Head with environment qualification and 15 by 2 qualified Environment professionals (Env. Engg). lent. Complied.	Date: 01/06/2024	
10	Human Health Environment	Provisions of Dock Safety Act and guidelines issued FASLI/CLI, Bombay for the safety and health of the w be followed.		
RIL is	Submission: Complied following strict safety & health regulationed requirements. Complied.	ations for employees & workers at all the complexes as	Date: 01/06/2024	
11	MISCELLANEOUS	Standby DG sets must be provided to ensure uninters supply to the environmental protection equipment's an water supply for the firefighting system.		
Uninter	Submission: Complied rrupted power supply for emergency uous water supply for firefighting sys	lighting and instrument control panel is provided at jetty. stem is also available. Complied.	Date: 01/06/2024	
12	MISCELLANEOUS	Third Party inspection should be ensured during consoperational phases with adequate insurance cover. The should confirm regular intervals of 6 (Six) months to the endorsing a copy to the Regional office at Bhopal of the offices of the Central and State Pollution Control Board intervals and state phase to the control of the suggested sefective measures as	authorities he ministry his Ministry ands about the	
		implementation of the suggested safeguard measures a data/report should be made available for inspection by would be constituted by the Ministry, if found necessar	a team which	
It may jetty & submitt Region	supervised jetty construction. All out ted the data / report about the implem	data/report should be made available for inspection by would be constituted by the Ministry, if found necessar Ltd (EIL), New Delhi, was our consultant for erecting r installation are adequately insured. Erstwhile IPCL had nentation of the suggested safeguard measures to the offices of the Central and State Pollution Control Board	a team which	
It may jetty & submitted Region	please be noted that Engineers India supervised jetty construction. All outed the data / report about the implemal Office of Ministry at Bhopal and of	data/report should be made available for inspection by would be constituted by the Ministry, if found necessar Ltd (EIL), New Delhi, was our consultant for erecting r installation are adequately insured. Erstwhile IPCL had nentation of the suggested safeguard measures to the offices of the Central and State Pollution Control Board	Date: 01/06/2024	
It may jetty & submittle Region and the 13 PPs S All the authori	please be noted that Engineers India supervised jetty construction. All outed the data / report about the implemal Office of Ministry at Bhopal and of same is made available for inspection MISCELLANEOUS Submission: Complied conditions for environment safeguare	data/report should be made available for inspection by would be constituted by the Ministry, if found necessar Ltd (EIL), New Delhi, was our consultant for erecting r installation are adequately insured. Erstwhile IPCL had nentation of the suggested safeguard measures to the offices of the Central and State Pollution Control Board on. Complied. This ministry or any other competent authority may so other conditions for environment safeguards, subseque	Date: 01/06/2024	
It may jetty & submittle Region and the 13 PPs S All the authori	please be noted that Engineers India supervised jetty construction. All out ted the data / report about the implemal Office of Ministry at Bhopal and of same is made available for inspection MISCELLANEOUS Submission: Complied conditions for environment safeguard ty are being complied with. No additional conditions for environment with the conditions for environment safeguard to the complied with the conditions for environment safeguard to the complied with the conditions for environment safeguard to	data/report should be made available for inspection by would be constituted by the Ministry, if found necessary. Ltd (EIL), New Delhi, was our consultant for erecting reinstallation are adequately insured. Erstwhile IPCL had nentation of the suggested safeguard measures to the offices of the Central and State Pollution Control Board on. Complied. This ministry or any other competent authority may so other conditions for environment safeguards, subsequencessary, which should be complied with.	Date: 01/06/2024 Stipulate any ently if deeme Date: 01/06/2024 uding the le to the or imposition or project	

15	MISCELLANEOUS		nistry reserves the right to revoke this clearants stipulated are not complied with to the satisf	
	Submission: Complied ondition is not applicable to us.			Date: 01/06/2024
16	Statutory compliance	regularly the river N	ject Proponent shall undertake environmental to monitor ambient air quality, noise and wat Varmada where the proposal is located and se the regional office of this Ministry in Bhopal	er quality of nd six monthl
RIL ha water of within conside Ambie & NAI letter a conform Annex accredi standar Ambie	and outside the petrochemical complex ering wind directions and the maximum and air monitoring is carried out twice a BL accredited laboratory M/s Netel (Includ NABL certificate of M/s Netel (Indiming to the standards prescribed by GP ure VI. Noise level at the site is monito ited laboratory M/s Netel (India) Limited prescribed under EPA Rules, 1989 view of the standards prescribed under EPA Rules PA Rules PA Rules PA Rules PA Rules PA Rules PA Ru	as established based on the Ground Le week at each dia) Limited, ia) Limited in CB. Detailed red on montied, Navi Muriz. 75 dBA (iod Oct'23 –	ed 7 ambient air quality monitoring stations be mathematical modeling studies wel Concentration in downwind direction. In location through MoEF&CC recognized Navi Mumbai. MoEF&CC recognition is enclosed as Annexure II. All results are di AAQ Monitoring data can be referred as hly basis through MoEF&CC & NABL mbai. Ambient noise levels conform to the Day Times) and 70 dBA (Night time). Mar'24 has not exceeded the prescribed	Date: 01/06/2024
17	MISCELLANEOUS		posed terminal building near the jetty shall be by for operational requirements of the jetty as oponents.	
	Submission: Complied rminal building near the jetty is used ex ied.	clusively for	r operational requirement of the jetty.	Date: 01/06/2024
18	Risk Mitigation and Disaster Management	pipelines of the safety	posed construction of security walls on both scarrying hazardous chemicals should be restructed. Additional paths across the pipeline stoy the proponent to facilitate easy access to the	icted to meet hall be
Securit restrict		over-bridge	ines carrying hazardous chemicals were above the pipeline (outside jetty gate) has pulation. Complied.	Date: 01/06/2024
			_	
		Visit R	emarks	
ast Site	e Visit Report Date:	Visit R	emarks N/A	

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

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

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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	

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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 MoEF&CC. 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 Oct'23 – Mar'24: Around 8,080 trees have been planted in the complex, at open areas of GIDC near site and at road dividers outside of complex. Complied.

Date: 30/05/2024

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. Complied

Date: 30/05/2024

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 MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai as prescribed by GPCB. MoEF&CC recognition letter and NABL certificate is enclosed as Annexure II. It can be seen from the above table that all results are conforming to the standards prescribed by GPCB norms. Pl. refer detailed Stack Emission Monitoring Report enclosed as Annexure III. Effluent quality is conforming to the standard stipulated by GPCB. The detailed treated effluent monitoring report is enclosed as Annexure VII. No ACN Plant is constructed / commissioned. Therefore, monitoring of cyanide toxic was not carried out. Complied

Date: 30/05/2024

4

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. Complied.

Date: 30/05/2024

5 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 Oct'23 – Mar'24 was 89,332 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. Complied.

Date: 30/05/2024

6

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/2023/87 dated 28th November, 2023 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/85 dated 28th November, 2023 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.

Date: 30/05/2024

7

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: 30/05/2024

8

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. Complied.

Date: 30/05/2024

Visit Remarks

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

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

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

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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	

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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 (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. 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. Isolation of leaking equipment is immediately done based on the LEL detector alarm. Complied. 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 (Oct'23 – Mar'24) the same were carried out at all the plants. Typical LDAR Report of one the plant is enclosed as Annexure XIX. Complied.

Date: 30/05/2024

AIR QUALITY
2 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 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. 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. 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. 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. Complied. 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. 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. This condition is not applicable to us.

Date: 30/05/2024

3 AIR QUALITY

Fugitive emissions of HC from product storage tank yards etc. must

MONITORING AND PRESERVATION

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. Complied. 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. The Low Sulfur fuels are used in the plant to minimize SO2 emissions. Ethane / NG usage is maximized in the plant having sulphur content <1 ppm. Complied.

Date: 30/05/2024

4

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. Complied. Halogenated organics from VCM plant are incinerated in the incinerator provided at the plant as recovery is not techno-economically feasible. Complied. Emission streams containing organic carbon i.e unsaturated hydrocarbons, are connected to the existing flares. Halogenated compounds are not sent to flare. Complied.

Date: 30/05/2024

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. Complied. 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. Detailed stack emission monitoring report is enclosed as Annexure III. The results are conforming to the norms specified by GPCB during review period of Oct'23 – Mar'24. Complied. Steam injection system is provided in flare stacks for reducing NOx generation and have smokeless operation. Complied.

Date: 30/05/2024

6

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 & 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. 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.

Date: 30/05/2024

AIR QUALITY MONITORING AND The gaseous emissions (SO2, NOx, CO, NMHC, Cl2 and HCl) from the various process units should conform to the standards

PRESERVATION

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 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. 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. During Oct'23 – Mar'24, emission levels have not exceeded the prescribed / stipulated standards. Details of the same can be seen in Annexure III. 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 and pollution control system is rectified immediately. During the period of Oct'23 – Mar'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.

Date: 30/05/2024

8

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 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. Detailed monitoring report is enclosed as Annexure III. It can be seen that all results are conforming to the standards prescribed. Complied. 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.

Date: 30/05/2024

9

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 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 . Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Complied. 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. Complied.

Date: 30/05/2024

10

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. Complied.

Date: 30/05/2024

11

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. 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.

Date: 30/05/2024

12

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. Complied. 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. Detailed stack emission monitoring report is enclosed as Annexure III. The results are conforming to the norms specified by GPCB during review period of Oct'23 – Mar'24. Complied.

Date: 30/05/2024

13

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 36,435 m3/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 Oct'23 – Mar'24 is given below: Description, Permissible Limit (KLD), Avg, Min, Max: Effluent Generation; 51,002; 36,435; 32,890; 39,316. It can be seen that the average effluent generation rate from the complex for the period Oct'23 – Mar'24 is well below the permissible limit of 51,002 m3/d. Complied. 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. 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 Percentage of treated effluent recycled is maximized against the limit. Complied. 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 treated effluent quality is well within the prescribed norms. Detailed treated effluent monitoring report is enclosed as Annexure VII. 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 96% survival of fish after 96 hours in 100% effluent is achieved for the review period of Oct'23 – Mar'24. The analysis results of Bioassay test are provided in the above condition. Complied. 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 Percentage of treated effluent recycled is maximized against the limit. Complied.

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. Complied.

Date: 30/05/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	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 Oct'23 – Mar'24. The emissions from various stacks are well within the prescribed standards. Detailed emission results from various stacks can be seen in Annexure III. 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 Oct'23 – Mar'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.

Date: 30/05/2024

2 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)	
Noise leaccredit the presof M/s I enclose hoods, sof the sa standard	ted laboratory M/s Netel (India) Limited cribed workplace noise level of 85 dB. Netel (India) Limited is enclosed as Ard as Annexure XXXII. Complied. Provisilencers, enclosures etc. has been madame is enclosed as Annexure XXXIII.	y basis through MoEF&CC recognized & NABL ed, Navi Mumbai and it is observed to be well within A. MoEF&CC recognition letter and NABL certificate mexure II. Detailed noise monitoring report is vision of noise control measures including acoustic le for all sources of high noise generation. Photographs Complied. Ambient noise levels conforms to the iz. 75 dBA (Day Times) and 70 dBA (Night time). Its Annexure XIV. Complied.	Date: 30/05/2024
3	Statutory compliance	The project authorities must strictly comply with the made in Manufacture, Storage and Import of Hazardov Rules 1989 as amended in 2000 for handling of hazard etc. Necessary approvals from Chief Control of Explos provided before commission of the project.	s Chemicals ous chemicals
Provision amende audit resemerger mock de Provision Details neighbor approva	d in 2000 are being complied by ensur- port (submitted to DISH regularly) end ney response plan. Copy of one such p rills on regular basis. One such mock do on of emergency alert system like sirent of siren submitted to DISH is enclosed oring industries. Agreement copy is end als required for storage of HC from Child before commissioning of the project.	inport of Hazardous Chemicals (MSIHC) Rules 1989 as ring the following activities: • Preparation of safety closed as Annexure XXXIV. • Preparation of lan is enclosed as Annexure XXXV. • Conducting drill report is enclosed as Annexure XXXVI. • as, announcement etc and ensuring their healthiness. If as Annexure XXXVII. • Mutual aid arrangement with closed as Annexure XXXVIII. Complied. The lief Control of Explosives are in place and they were Approval details of the same is enclosed as Annexure	Date: 30/05/2024
1	WASTE MANAGEMENT	The project authorities must strictly comply with the regulations with the Hazardous Wastes (Management a Rules, 2003. Authorization from the State Pollution Comust be obtained for collection/treatment/ Storage/ dishazardous wastes.	and Handling) ontrol Board
RIL DN (Manag Handlin Hazardo subsequ	ement and Transboundary Movement) ag and Disposal of Hazardous wastes gous and Other Wastes (Management arent amendments thereof. Photographs are XXXIX. Complied. Hazardous was	regulations of Hazardous and Other Wastes Rules, 2016 and its subsequent amendments thereof. Renerated at site is being done in accordance with the ad Transboundary Movement) Rules, 2016 and its of Hazardous waste storage area is enclosed as the Authorization has been obtained from GPCB for uzardous wastes. Authorization (AWH-121992) from	Date: 30/05/2024

5

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

Annexure IX. Complied.

This condition is not applicable to us. 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/2023/87 dated 28th November, 2023 to SEIAA and Gujarat Pollution Control

Board and vide letter no. RIL-DMD/HSEF/ENV/2023/85 dated 28th November, 2023 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.

6

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 & Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to. Complied.

Date: 30/05/2024

7

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 MoEF&CC / SEIAA. Complied.

Date: 30/05/2024

8

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 Oct'23 – Mar'24 was around INR. 108.3 Crores. Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 31.49 Lakhs • Online Continuous emission and effluent monitoring systems – INR 46.27 Lakhs • Pollution control systems (Effluent treatment & management / APCM) – INR 102.71 Crores • Waste management – INR 73.24 Lakhs • Green belt development – INR 2.83 Crores Complied. The funds provided for Environmental improvement activities are used only for the said purpose. They are not diverted for other activities at site. Complied.

Date: 30/05/2024

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 MoEF&CC along with the first compliance report of this EC. Newspaper cutting is enclosed as Annexure XL. Complied.

Date: 30/05/2024

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.			of the
PPs Submission: Complied 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. Date: 30/05/20			Date: 30/05/2024	
11	MISCELLANEOUS	The ministry may revoke or susp mplementation of any of the abov		tisfactory
	abmission: Complied dition is not applicable to us.			Date: 30/05/2024
12	MISCELLANEOUS	The ministry reserves the right to ound necessary. The company in amplement these conditions		
This con	abmission: Complied dition is not applicable to us. Company stry in this EC. Complied.	nas implemented all the conditions	s prescribed by	Date: 30/05/2024
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		ion) Act, 981, The c Liability		
PPs Su Noted.	ıbmission: Complied			Date: 30/05/2024
	ıbmission: Complied			
	ıbmission: Complied	Visit Remarks		
Noted.	ibmission: Complied Visit Report Date:	Visit Remarks		
Noted. Last Site V				

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

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

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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	

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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. Complied.

Date: 01/06/2024

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 MoEF&CC recognized & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the MoEF&CC and GPCB prescribed standards. MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Details of the above Treated Effluent Monitoring Results is enclosed as Annexure VII. effluent discharge quality and gaseous emissions released from the complex are conforming to the stipulated standards. Details of the above Stack Monitoring Results is enclosed as Annexure III. Complied.

Date: 01/06/2024

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 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. the results are conforming to the standard stipulated by GPCB. Details of the above results can be seen as Annexure III. Complied. During Oct'23 – Mar'24, emission levels have not exceeded the prescribed standards. Details of the same can be seen in Annexure III. 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 and pollution control system is rectified immediately. During the period of Oct'23 – Mar'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.

Date: 01/06/2024

4 AIR QUALITY 4 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.

Date:

01/06/2024

Complied. 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 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 results are conforming to the norms specified by GPCB during review period of Oct'23 – Mar'24. Detailed stack emission monitoring report is enclosed as Annexure III. Complied. Steam injection system is provided in flare stacks for reducing NOx generation and have smokeless operation. Complied.

5

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. Complied. 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. Isolation of leaking equipment is immediately done based on the LEL detector alarm. Complied. 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 (Oct'23 – Mar'24) the same were carried out at all the plants. Typical LDAR Report of one the plant is enclosed as Annexure XIX. Complied.

Date: 01/06/2024

6

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 AAOM location map can be seen in Annexure XVII. Ambient air quality 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. 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. 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. Complied. 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. Complied. 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. 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

Date: 01/06/2024

as Annexure XIX. Complied. This condition is not applicable to us.

7

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. Complied. 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. The Low Sulfur fuels are used in the plant to minimize SO2 emissions. Ethane / NG usage is maximized in the plant having sulphur content <1 ppm Complied.

Date: 01/06/2024

8

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 & 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. Complied. 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.

Date: 01/06/2024

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. Complied. Halogenated organics from VCM plant are incinerated in the incinerator provided at the plant as recovery is not techno-economically feasible. Complied. Emission streams containing organic carbon i.e unsaturated hydrocarbons, are connected to the existing flares. Halogenated compounds are not sent to flare. Complied.

Date: 01/06/2024

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 MoEF&CC recognised & NABL accredited laboratory M/s Netel (India) Limited, Navi Mumbai and its results shown below indicate the conformance to the prescribed standard. MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. All results are conforming to the standards prescribed. Detailed stack monitoring report is enclosed as Annexure III. Complied.

Date: 01/06/2024

11

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. 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.

Date: 01/06/2024

12

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. Complied. 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. Results are conforming to the norms specified by GPCB during review period of Oct'23 – Mar'24. Detailed stack emission monitoring report is enclosed as Annexure III. Complied.

Date: 01/06/2024

13

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 36,435 m³/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. Average effluent generation rate from the complex for the period Oct'23 – Mar'24 is well below the permissible limit of 51,002 m3/d.Complied. 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. 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 Percentage of treated effluent recycled is maximized against the limit. Complied. 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 MoEF&CC and the same is discharged through the marine disposal system after conforming to the standards. Detailed treated effluent monitoring report is enclosed as Annexure VII. 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 96% survival of fish after 96 hours in 100% effluent is achieved for the review period of Oct'23 - Mar'24, The

Date: 01/06/2024

analysis results of Bioassay test is provided in the above condition. k Complied. 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 Percentage of treated effluent recycled is maximized against the limit. Complied.

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. Complied.

Date: 01/06/2024

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. Complied.

Date: 01/06/2024

16 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 MoEF&CC. 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. Complied. 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. Complied.

Date: 01/06/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	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 Oct'23 – Mar'24 was around INR 108.3 Crores. Some of the major areas where environment expenditure incurred during

Date: 01/06/2024

Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 31.49 Lakhs • Online Continuous emission and effluent monitoring systems – INR 46.27 Lakhs • Pollution control systems (Effluent treatment & management / APCM) – INR 102.71 Crores • Waste management – INR 73.24 Lakhs • Green belt development – INR 2.83 Crores Complied. The funds provided for Environmental improvement activities are used only for the said purpose. They are not diverted for other activities at site. Complied.

2 MIS

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 MoEF&CC / SEIAA. Complied.

Date: 01/06/2024

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 Oct'23 – Mar'24. The emissions from various stacks are well within the prescribed standards. Detailed emission results from various stacks can be seen in Annexure III. 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 Oct'23 – Mar'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.

Date: 01/06/2024

4

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. Complied. 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. Complied.

Date: 01/06/2024

5

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

Date: 01/06/2024

Annexure XXXIX. Copy of TREM Card is enclosed as Annexure XLII and Manifest is enclosed as Annexure XLIII for reference. Complied. 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 Oct'23 - Mar'24 is given in Annexure VIII. Please refer Form - 4 submitted to GPCB for the year 2023-24 as Annexure IX. Complied. The Ministry reserves the right to stipulate additional conditions if 6 **MISCELLANEOUS** found necessary. The company in a time bound manner will implement these conditions. Date: **PPs Submission:** Complied 01/06/2024 This condition is not applicable to us. The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal/ Central Pollution Control Board/ State Pollution 7 Statutory compliance 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 MoEF&CC regularly. Last Compliance report was submitted vide our letter no. RIL-Date: DMD/HSEF/ENV/2023/87 dated 28th November, 2023 to SEIAA and Gujarat Pollution Control 01/06/2024 Board and vide letter no. RIL-DMD/HSEF/ENV/2023/85 dated 28th November, 2023 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. 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 8 **MISCELLANEOUS** Environment (Protection) Act, 1986, Hazardous Wastes (Management And Handling) Rules 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules Date: PPs Submission: Complied 01/06/2024 Noted. The project authorities must strictly adhere to the stipulations made 9 by the Gujarat State Pollution Control Board and the state Statutory compliance Government PPs Submission: Complied As seen in the above conditions and the summary table of environmental monitoring results, we are Date: complying with all the standards and stipulations made by the Gujarat State Pollution Control Board 01/06/2024 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. Complied. 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 10 Noise Monitoring & Prevention 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)

Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed as

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 occupational noise level of 85 dBA. MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed noise monitoring report is enclosed as Annexure XXXII. Complied. 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. Ambient noise levels conforms to the standard prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time). Detailed noise monitoring report is enclosed as Annexure XIV. Complied.

Date: 01/06/2024

11

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 MoEF&CC along with the first compliance report of this EC. Newspaper cutting is enclosed as Annexure XL. Complied.

Date: 01/06/2024

12

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's financial closure and project commencement was provided along with the first compliance report of this EC. Complied.

Date: 01/06/2024

13

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: 01/06/2024

Visit Remarks

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

Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

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

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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** Risk Mitigation and Disaster First Aid Box and required antidotes for the chemicals used in the 1 unit shall be made readily available in adequate quantity. Management PPs Submission: Complied Date: First Aid Box is available at strategic locations in each plant and antidotes for chemicals are readily 31/05/2024 available at OHC in adequate quantity. Photograph of First Aid box located at plant control room can be seen in Annexure LVIII. Complied. Handling and charging of the chemicals shall be done in such a 2 **Human Health Environment** manner that minimal human exposure occurs. Date: PPs Submission: Complied 31/05/2024 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. Complied. AIR QUALITY 3 MONITORING AND Only natural gas shall be used as a fuel in the proposed expansion. **PRESERVATION PPs Submission:** Complied Date: Only PTA and PET plants have been commissioned out of proposed plants of this EC. Natural gas is 30/05/2024 being used as a fuel in the PET plant during review period of Oct'23 - Mar'24. Whereas PTA plant does not require any fuel as it has no furnace, boilers, heaters or vaporizers. Complied. Regular maintenance of machinery and vehicles shall be undertaken 4 Noise Monitoring & Prevention to reduce the noise impact Date: PPs Submission: Complied 31/05/2024 Regular & preventive maintenance of machinery and vehicles is undertaken. Complied. Noise suppression measures such as enclosures, buffers and /or 5 Noise Monitoring & Prevention protective measures shall be provided. Date: **PPs Submission:** Complied 31/05/2024 Noise suppression measures like acoustic chambers are provided wherever required. Complied. Authorization from the GPCB must be obtained for collection / 6 WASTE MANAGEMENT treatment / storage/ disposal of hazardous wastes. PPs Submission: Complied Authorization for Hazardous wastes management is obtained from GPCB vide Authorization Order Date: No. AWH-121992 dated 25th November 2022, for collection / treatment / storage / disposal of 31/05/2024 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 2022-23 as Annexure IX. Complied. The hazardous wastes shall be stored in separate designated 7 WASTE MANAGEMENT hazardous waste storage facility with impervious bottom and leachate collection facility before its disposal.

PPs Submission: Complied

Date:

guideli	eripheral drain for collection of leachate interval to Central Hazardous waste st- nes with impervious flooring, leachate	tored at designated area having impervious bottom e/spill as interim storage. This waste is shifted at orage facility which is developed as per CPCB collection facility and rain protection shelter. is enclosed as Annexure XXXIX. Complied.	31/05/2024
8	WASTE MANAGEMENT	ETP sludge, incinerator ash etc. shall be disposed in landfill site	the secured
ETP sl plants l		OF site. Incinerator is not installed for PTA and PET stor ash. Record of ETP sludge disposal in common.	Date: 31/05/2024
9	WASTE MANAGEMENT	The wastes like spent resins from phenol plant, spent cartridges, spent charcoal, adsorbents, oil cotton rags e disposed by incineration.	
Phenol as per t		sin from it is not generated. Other wastes are handled nted by GPCB. Details of waste disposal is enclosed as	Date: 31/05/2024
10	Noise Monitoring & Prevention	Employees shall be provided with ear protection mea earplugs and earmuffs.	asures like
		ory for use by everyone working in high noise areas.	Date: 31/05/2024
11	Noise Monitoring & Prevention	Construction equipment generating minimum noise a shall be chosen	and vibration
Constr	Submission: Complied uction equipment generating low noise Complied.	and vibration was chosen during the erection of the	Date: 31/05/2024
Construplant. (uction equipment generating low noise	and vibration was chosen during the erection of the Ear plugs and/muffs shall be made compulsory for the workers working near the noise generating activities / equipment.	31/05/2024
PPs S Use of supervision	Noise Monitoring & Prevention Submission: Complied PPEs like ear plugs / ear muffs are made	Ear plugs and/muffs shall be made compulsory for the workers working near the noise generating activities /	31/05/2024 ne constructio machines / Date:
PPs S Use of supervision	Noise Monitoring & Prevention Submission: Complied PPEs like ear plugs / ear muffs are madised through work permit procedure, Complied	Ear plugs and/muffs shall be made compulsory for the workers working near the noise generating activities / equipment.	31/05/2024 ne constructio machines / Date: 31/05/2024
PPs Straight Construction of the construction	Noise Monitoring & Prevention Submission: Complied PPEs like ear plugs / ear muffs are madised through work permit procedure, Corresponding to the procedure of the procedure of the presentative at plants. Complied Noise Monitoring & Prevention Submission: Complied	Ear plugs and/muffs shall be made compulsory for the workers working near the noise generating activities / equipment. de compulsory at site. It is being ensured and contractor Field Round and Daily Field round by Plant Construction equipment meeting the norms specified	Date: 31/05/2024 Date: 31/05/2024 Date: Date:
PPs Straight Construction of the construction	Noise Monitoring & Prevention Submission: Complied PPEs like ear plugs / ear muffs are madised through work permit procedure, Corresponding to the Noise Monitoring & Prevention Noise Monitoring & Prevention Submission: Complied uction equipment meeting the norms sp	Ear plugs and/muffs shall be made compulsory for the workers working near the noise generating activities / sequipment. The decompulsory at site. It is being ensured and contractor Field Round and Daily Field round by Plant Construction equipment meeting the norms specified 1986 shall only be used.	31/05/2024 ne construction machines / Date: 31/05/2024 I by EP Act, Date: 31/05/2024

30/05/2024

The average industrial effluent generation after commissioning of the PTA and PET plant, is 36,435 KLD for the period of Oct'23 – Mar'24 which is less than the permissible limit of 51,002 KLD prescribed under Consolidated Consent & Authorisation (CCA) Order No. No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026. Data for effluent generation quantity for the period Oct'23 - Mar'24 is as below which is also being submitted to GPCB on monthly basis. Effluent Generation (KLD) Permissible Limit; Avg Min; Max: 51,002; 36,435; 32,890; 39,316. Complied.

15

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. Complied.

Date: 30/05/2024

16

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 Oct'23 - Mar'24. Effluent discharge from the complex 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 is enclosed as Annexure II. 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. Complied.

Date: 30/05/2024

17

WATER OUALITY 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 Oct'23 - Mar'24 was 89,332 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 & 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 Oct'23 - Mar'24 is presented as below Fresh Water Consumption (KLD) Prescribed Limit; Avg; Min ;Max :1,38,700; 89,332; 82,008 :94,667. Complied. 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. Complied. 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. Complied.

Date: 30/05/2024

18

WATER QUALITY

Out of 44,600 KLD of treated effluent 14,080 KLD shall be

MONITORING AND PRESERVATION

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 Oct'23 - Mar'24., out of the 36,435 KLD effluent generated from complex, 18,338 KLD of treated effluent was recycled. The average of effluent generation and recycle quantities during reporting period of Oct'23 – Mar'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. Description; Permissible Limit (KLD); Average (KLD): Effluent Generation; 51,002; 36,435: Effluent Recycle; 14,710; 18,338: Percentage of Recycle; 30 %; 50%. Complied. Average quantity of 18,097 KLD of treated effluent discharged from RIL-DMD into Gulf of Cambay in the deep sea area through existing effluent disposal pipeline during this period of Oct'23 - Mar'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 & Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 36,292 m³/d. The average effluent discharge during Oct'23 – Mar'24 is presented below: Description; Permissible Limit (KLD); Average (KLD): Quantity of Effluent Discharge; 36,292; 18,097. It can be seen from above results that the, the average effluent discharge from the complex has not exceeded the permissible limit of 36,292 KLD during reporting period. Complied.

Date: 30/05/2024

19

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. Complied. Online pH, BOD, COD & TSS analyzers are provided at the outlet of the ETP. Photograph of online monitoring system and analyzer room can be seen in Annexure XLV. Complied.

Date: 30/05/2024

20

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 & recycle is given in condition no. 5. Photograph of Typical logbook is enclosed as Annexure XLVI. Complied.

Date: 30/05/2024

21

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 Oct'23 – Mar'24, no leakage was observed. Complied. During Oct'23 – Mar'24, no such eventualities have arisen. Complied.

Date: 30/05/2024

22

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

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. Complied.

Date: 30/05/2024

23

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 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 III. Results are conforming to the norms specified by GPCB during review period of Oct'23 – Mar'24. NOx emission from boilers / furnaces can be seen in detailed stack emission monitoring data enclosed as Annexure III. Complied. Low NOX burners have been provided in the combustion units with online analyzers in the plants. Complied.

Date: 30/05/2024

24

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. Complied. Necessary precautions are taken for safe storage / handling of hazardous / toxic chemicals as detailed in point no. 30. Complied. 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. Complied.

Date: 31/05/2024

25

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. Complied.

Date: 31/05/2024

26

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. 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.

27	Risk Mitigation and Disaster Management	Personal Protective Equipments shall be provided to usage shall be ensured and supervised.	workers and i
Person		ovided to employees and contractors and are made This is being ensured regularly. Complied.	Date: 31/05/2024
28	Human Health Environment	Occupational health surveillance of the workers shall its records shall be maintained. Pre-employment and p medical examination for all the workers shall be under the Factories Act & Rules.	eriodical
Occupa sample Annexi well as frequer mainta formali Typica	lab analysis reports of periodic medica ure XXXI. Complied. Occupational He company employees) is one of the on- ncy prescribed in the Factories Act and ined in OHC. Occupational Health Sur- ity (i.e. Pre-Employment Medical Exam	ers is done and its records are maintained. Typical all examination of one such employee is attached as ealth Surveillance of employees (both contractors as going activities at RIL-DMD and is carried out at a Gujarat Factory Rules and the records are being veillance is carried out - At the time of joining mination) and on annual basis for all employees. c medical examination of one such employee is	Date: 31/05/2024
29	WATER QUALITY MONITORING AND PRESERVATION	Regular performance evaluation of the ETP shall be every year to check its adequacy through credible insticulting college of Engineering, NPC or such other institutes of Its records shall be maintained.	itutes like LD
Perforr enviror Instrun Vallabl include	nmental auditor appointed by GPCB an nentation Centre for applied Research a h Vidyanagar -388 120, appointed by C es performance evaluation of ETP for the	gencies is being carried out regularly through d the records are maintained. M/s. Sophisticated and Testing (SICART) Parul Institute of Technology, GPCB has done annual environmental audit which he year 2022-23. The report is being submitted ertificate is enclosed as Annexure XLVII. Complied.	Date: 30/05/2024
30	MISCELLANEOUS	The unit shall join and participate financially and tecany common environmental facility infrastructure as a same is taken up either by GIDC or GPCB or any such created for this purpose by the Govt/GIDC	nd when the
During particip		, no such proposal came from GIDC / GPCB. RIL will such project proposed or being taken up by Govt /	Date: 30/05/2024
31	AIR QUALITY MONITORING AND PRESERVATION	The fugitive emission in the work zone environment monitored. The emissions shall conform to the standar by the concerned authorities from time to time (e.g. Di Industrial Safety & Health) Following steps shall be ta the fugitive emission of VOCs: >Provision of internal tanks with flexible double seal for storage tanks > Province mechanical seals in pumps >Regular inspection of float and proper maintenance of floating roof seals for exist > Preventive maintenance of valves and other equipme	ds prescribed irectorate of aken to reduce floating roof vision of ating roof seals ing tanks

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 & Health & ACGIH (American Conference of Governmental Industrial Hygienist). LDAR Report of PTA / PET plant is enclosed as Annexure LI. Complied. Storage Tanks are designed as per API standard in the PTA and PET plants and it is provided with internal floating roof with flexible double seal. Photographs of the same is enclosed as Annexure LII. Complied. Mechanical seals are provided in the pumps / compressors of the PTA and PET plants. Complied. Regular inspection and proper preventive maintenance of floating roof seals is being carried out. Complied. Preventive maintenance of valves and other equipment is being done regularly in the Date: plants as per schedule. Complied. Regular skimming of oil from oil separators / equalization tank is 31/05/2024 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. Complied. 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. Complied. Strengthening of green cover through gap plantation and maintenance of the existing green cover spread over the area of 231 ha is being done. Photographs of green belt developed during the reporting period is enclosed as Annexure XXIX. Complied. 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. Complied. 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. Complied. Not applicable as no incinerator is installed in PTA and PET plants. Regular performance evaluation of the air pollution control systems AIR QUALITY shall be undertaken every year to check its adequacy, through 32 MONITORING AND credible institutes like LD college of Engineering, NPC or other such **PRESERVATION** 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 Date: carried out through environmental auditor appointed by GPCB. M/s. Sophisticated Instrumentation 31/05/2024 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. Complied. AIR OUALITY The company shall install and operate continuous ambient air 33 MONITORING AND quality monitoring station within the premises. The monitoring **PRESERVATION** station shall be fixed in consultation with the GPCB PPs Submission: Complied Date: Continuous Ambient Air Quality Monitoring Station (CAAQMS) is installed and operational within 31/05/2024 the premises. Photograph of CAAQMS can be seen in Annexure LIV. Complied. Location of CAAOMS is fixed by consulting GPCB officials during their visit and after getting their concurrence. Complied. The company must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in 34 WASTE MANAGEMENT accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 as may be amended from time to time Date: PPs Submission: Complied

31/05/2024 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. Complied. Spent catalysts, alumina desiccant, spent lead acid batteries, 35 WASTE MANAGEMENT degraded Dowtherm, spent molecular sieve etc., and shall be sold only to the registered reprocessors / recyclers. **PPs Submission:** Complied Date: Spent catalysts, alumina desiccant, spent lead acid batteries, degraded Dowtherm, spent molecular 31/05/2024 sieve, etc., are sold only to the registered reprocessors / recyclers. Details of waste disposal is enclosed as Annexure VIII. Complied. Discarded containers/ barrels/ bags/liners shall be either reused or 36 WASTE MANAGEMENT sold only to the authorised recyclers after decontamination. PPs Submission: Complied Date: Discarded containers / barrels / bags generated from respective plants get decontaminated, labelled 31/05/2024 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. Complied. 37 WASTE MANAGEMENT Used oil shall be sold only to the registered recycler Date: PPs Submission: Complied 31/05/2024 Used oil is sold to the registered recyclers / re-processors. Details of waste disposal is enclosed as Annexure VIII. Complied. Provisions of the Manufacture, Storage & Import of Hazardous Risk Mitigation and Disaster 38 Chemical Rules, 1989 & Factories Act, 1948 shall be strictly Management 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. • Date: Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXV. • 31/05/2024 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. Risk Mitigation and Disaster Recommendations made in the Risk Assessment Study Report 39 submitted by the project proponent shall be implemented Management PPs Submission: Complied Date: Recommendations made in the risk assessment study report are implemented and complied with for 31/05/2024 existing units including PTA and PET plants. e.g. • Control rooms are constructed having blast proof & shock proof walls. • Storage area is separated from process areas and flammable materials. • Provided proper dyke for storage tanks with fire protection measures. Complied. All necessary precautionary measures shall be taken to avoid any Risk Mitigation and Disaster 40 kind of accident during storage and handling of: Toxic chemicals or Management

		Hazardous chemicals.	
Follow handlir storage	ng of toxic / hazardous chemicals: • Sepe areas. • Storage areas are separated fro	to avoid accidents at the site during storage and parate dyke area provided for the different products and purpose building process areas and flammable materials. • equate Fire protection systems are provided. Complied.	Date: 31/05/2024
41	Risk Mitigation and Disaster Management	All the materials shall be stored in optimum quantity necessary permissions in this regard shall be obtained (before commencing the expansion activities.	
All ma permis		cities matching with the production capacities and ined for the same. PESO approval for one of the ed.	Date: 31/05/2024
42	Risk Mitigation and Disaster Management	Transportation of hazardous chemicals shall be done provisions of the Motor Vehicle Act & Rules.	as per the
Transp Emerge carrier Driver for carr	ency information panel on Carrier • The unit) identification number on the shipp Safety Training Center and it is valid for	ed out as per the Motor Vehicle Act & Rules like: • the product name, UN number, and CTU (Container ping document. • Training imparted to drivers by RIL for one year for liquid / gas carrier drivers and two year lill be given by Driver Safety Training Center. • TREM trainings. Complied.	Date: 31/05/2024
43	Noise Monitoring & Prevention	To minimize the noise pollution the following noise of measures shall be implemented.	control
These	Submission: Complied measures are ensured in the PTA and Pl phase itself. Complied.	ET plants by addressing the requirements during the	Date: 31/05/2024
44	Noise Monitoring & Prevention	Selection of any new plant equipment shall be made specification of low noise levels	with
	Submission: Complied oise generating equipment have been se	elected in the design stage itself. Complied.	Date: 31/05/2024
45	Risk Mitigation and Disaster Management	Training shall be imparted to all the workers on safet aspects of chemicals handling.	y and health
PPs S Training chemic contract which bahej, practic	Management Submission: Complied ng is imparted to all the workers on safe cal handling related, safety and health tr ctor workers as well. The level-1 and levelincludes the safe work practices related employees are imparted safety training	1	y and health Date: 31/05/2024
PPs S Training chemic contract which Dahej, practic	Management Submission: Complied ng is imparted to all the workers on safe cal handling related, safety and health tr ctor workers as well. The level-1 and level includes the safe work practices related employees are imparted safety training es, safe chemical handling and use of P	aspects of chemicals handling. ety and health aspects of chemicals handling. The raining is imparted to all workers on RIL role and all vel-2 training is provided to the contract workers to safe chemical handling and use of PPEs. At RIL-through induction and refresher training on safe work	Date: 31/05/2024 e shall be

done to	o reduce noise generation. Complied.		31/05/2024
47	Noise Monitoring & Prevention	Vehicles and construction equipment with internal co-	
Vehicle	Submission: Complied es and construction equipment with interpretate during the erection of the complex construction of the co	ernal combustion engines without proper silencer were he plant. Complied.	Date: 31/05/2024
48	Noise Monitoring & Prevention	Noise control equipment and baffling shall be emplo generators especially when they are operated near the sensitive areas.	
Low N	Submission: Complied oise generating DG sets are being used tial or sensitive zone nearby. Complied	at the site. The site is with in industrial zone. No	Date: 31/05/2024
49	Noise Monitoring & Prevention	Noise levels shall be reduced by the use of adequate motorized equipment.	mufflers on a
		been provided on all the motorized equipment	Date: 31/05/2024
50	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced day light roof to utilize maximum natural light in the prinstead of electrical lighting	
Day lig	Submission: Complied ght roofs are provided at our store and vexure LXII. Complied.	varehouse areas. Photographs of the same is enclosed	Date: 31/05/2024
51	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced switching system for lighting and water tank pumping	
Autom	Submission: Complied atic switching system for lighting are ping system for water tank pumping is al	rovided at various areas of plants. Automatic so provided. Complied.	Date: 31/05/2024
52	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced shall be preferred wherever possible to save pumping of	
	Submission: Complied y flow is being preferred wherever it is	possible. Complied.	Date: 31/05/2024
53	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced electronic ballast to save energy	: Use of
	Submission: Complied onic ballast / relevant systems are provident	ded in lighting equipments. Complied	Date: 31/05/2024
54	MISCELLANEOUS	CLEANER PRODUCTION AND WASTE MINIMI unit shall undertake the Cleaner Production Assessmenthrough a reputed institute / organization and shall form	nt study

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. Complied.

Date: 31/05/2024

55

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. Complied.

Date: 31/05/2024

56

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, 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 & PET plants are monthly monitored through MoEF&CC recognised & 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. The results are well within the norms prescribed by GPCB. Detailed stack emission monitoring report is enclosed as Annexure III. Complied. 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. Complied.

Date: 30/05/2024

57

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 & 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 results are well within the norms prescribed by GPCB. Detailed stack emission monitoring report is enclosed as Annexure III. Complied.

Date: 30/05/2024

58

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. Complied.

Date: 31/05/2024

59

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. Complied. Chemicals from the storage tanks are transferred to the reactors in an automated manner with a closed loop system to avoid any manual exposure. Complied. Manufacturers / suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications 60 Noise Monitoring & Prevention 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 Date: PPs Submission: Complied 31/05/2024 Low noise generating equipment have been selected in the design stage itself. Equipment meet the national regulatory norms. Complied. 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, 61 Noise Monitoring & Prevention 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 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 noise level in & around the plant are well within the prescribed limit of 85 dB(A). The detailed noise Date: monitoring report for Oct'23 - Mar'24 is enclosed as Annexure XXXII. Complied. prescribed under 31/05/2024 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 & PET plants at 7 locations during day time and night time. The summary of report is given in this condition. Results indicate that the ambient noise levels during the reporting period Oct'23 – Mar'24 has not been exceeded the prescribed limit. Detailed noise monitoring report is enclosed as Annexure XIV. Complied. 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 condition no. 43 Complied. **ENERGY PRESERVATION** The project proponent shall install energy efficient devices and 62 **MEASURES** appliances conforming to the Bureau of Energy Efficiency norms Date: PPs Submission: Complied 31/05/2024 Energy efficient devices have been provided in the plant like variable frequency drives etc. Complied. **ENERGY PRESERVATION** The energy audit shall be conducted at regular intervals and the 63 **MEASURES** recommendations of the audit report shall be implemented. Date: PPs Submission: Complied 31/05/2024 Electrical Energy Audit is being carried out once in two years by third party. Recommendations of the audit report are implemented. Complied. The project proponent shall implement the application of solar **ENERGY PRESERVATION** energy which shall be utilized as solar lighting for illumination of 64 **MEASURES** common areas, lighting of internal roads and passages in addition to utilization of solar water heating systems.

	Submission: Complied f Solar energy is already explored, curr	ently under evaluation and approval stage.	Date: 31/05/2024
65	ENERGY PRESERVATION MEASURES	The transformers and motors shall have minimum ef 85%.	fficiency of
	Submission: Complied formers and motors of efficiency highe	r than 85% are selected at design stage itself. Complied.	Date: 31/05/2024
66	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced factor shall be maintained by the unit.	d: Proper load
	Submission: Complied nate load factor is maintained.		Date: 31/05/2024
67	ENERGY PRESERVATION MEASURES	Variable frequency drives shall be installed	
	Submission: Complied ble Frequency Drives installed at PTA a	and PET plants. Complied.	Date: 31/05/2024
68	ENERGY PRESERVATION MEASURES	Energy conservation measures shall include use of elighting system, use of CFL tubes to minimize energy programmable timers for pumping system and lighting controllers for water pumps, centralized cooling etc	use, use of
Energy	Submission: Complied y conservation methods like use of LEI ag, programmable timers for lighting in	D lighting for office, street lighting and plant peripheral	Date: 31/05/2024
	closed in Annexure LX. Complied.	non-plant areas are being implemented. Photographs	
are en		The company shall undertake the following waste m measures: f. Use of high pressure hoses for cleaning to wastewater generation.	
are end 69 PPs High p	WASTE MANAGEMENT Submission: Complied oressure hoses are used for cleaning when the	The company shall undertake the following waste m measures: f. Use of high pressure hoses for cleaning to	
69 PPs	WASTE MANAGEMENT Submission: Complied oressure hoses are used for cleaning when the	The company shall undertake the following waste m measures: f. Use of high pressure hoses for cleaning to wastewater generation.	Date: 31/05/202
PPs High p Compl	WASTE MANAGEMENT Submission: Complied or cleaning whiled. WASTE MANAGEMENT WASTE MANAGEMENT Submission: Complied	The company shall undertake the following waste m measures: f. Use of high pressure hoses for cleaning to wastewater generation. The company shall undertake the following waste m measures: g. Regular preventive maintenance for avoir	Date: 31/05/202
PPs High p Compl	WASTE MANAGEMENT Submission: Complied or cleaning whiled. WASTE MANAGEMENT WASTE MANAGEMENT Submission: Complied on the level regular preventive maintenance	The company shall undertake the following waste m measures: f. Use of high pressure hoses for cleaning to wastewater generation. The company shall undertake the following waste m measures: g. Regular preventive maintenance for avois spillage etc.	Date: 31/05/202 di: Constant
PPs High p Compl TO PPs At plansystem T1 PPs Depart Consta	WASTE MANAGEMENT Submission: Complied or cleaning whiled. WASTE MANAGEMENT WASTE MANAGEMENT Submission: Complied on the level regular preventive maintenance on Complied. ENERGY PRESERVATION MEASURES Submission: Complied the three of the level targets have been fixed and the level targets hav	The company shall undertake the following waste m measures: f. Use of high pressure hoses for cleaning to wastewater generation. The company shall undertake the following waste m measures: g. Regular preventive maintenance for avois spillage etc. Energy saving practices as follows shall be practiced monitoring of energy consumption and defining target.	Date: 31/05/202 di: Constant

PDc	Submission: Complied		_
Illumii have b	nation level audit is being carried out o	once in two years as a Part of Electrical audit. Sensors atomatically switch off lighting in case of no movement	Date: 31/05/2024
73	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced cells for lighting	: Use of sola
		tograph of the same is enclosed as Annexure LXI.	Date: 31/05/2024
74	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced water heater for canteen & washing area.	: Use of solar
		ady explored and Solar water heater project is under	Date: 31/05/2024
75	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced maximum extent possible and technically feasible, ene equipment like motors, pumps, air conditioning system selected.	rgy efficient
Energy	Submission: Complied y efficient equipments like motors, pur maximum extent possible, wherever fe	nps, air conditioning systems are selected and installed easible. Complied	Date: 31/05/2024
76	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced awareness on energy conservation	: Promoting
Regula	Submission: Complied ar training and awareness campaigns are the c	re carried out for all employees on energy conservation. essionals. Complied.	Date: 31/05/2024
77	ENERGY PRESERVATION MEASURES	Energy saving practices as follows shall be practiced the staff on methods of energy conservation and to be this.	
	Submission: Complied ng is being imparted regularly by our I	Learning and Development Department.	Date: 31/05/2024
78	WASTE MANAGEMENT	The company shall undertake the following waste m measures: b. Reuse of by-products from the process as or raw materials substitutes in other process.	
Reuse residue		ver possible such as Productive management of waste vering Suspended solids powder resulting in reuse of	Date: 31/05/2024
79	WASTE MANAGEMENT	The company shall undertake the following waste m measures: c. Use of automated and enclosed filling to	

Automated and enclosed material transfer system implemented to minimize spillages. Photograph enclosed as Annexure LXIII. Complied.

Date: 31/05/2024

80

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. Complied.

Date: 31/05/2024

81

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. Complied.

Date: 31/05/2024

82

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. Complied. 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. Complied.

Date: 31/05/2024

83

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. Complied.

Date: 31/05/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	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.

2	MISCELLANEOUS	In the event of failure of any pollution control system the unit, the unit shall be safely closed down and shall until the desired efficiency of the control equipment has achieved.	not be restarte
Pollution of pollution from reequipm	ation control system, a trigger / alarn starting. During the period of Oct'23	onnected through the DCS system. In the event of failure is raised in the DCS system which prevents the plant 3 – Mar'24, no such failure of pollution control of the state-of-art control room equipped with DCS iied.	Date: 31/05/2024
3	MISCELLANEOUS	Pucca flooring / impervious layer shall be provided i areas, chemical storage areas and chemical handling a minimize soil contamination.	
Pucca f	Submission: Complied looring has been provided in all wors required. Complied.	rk areas, chemical storage areas and chemical handling	Date: 31/05/2024
4	MISCELLANEOUS	Leakages from the pipes, pumps, shall be minimal ar shall be arrested promptly	nd if occurs
All pipe	Submission: Complied es and material transfer systems are by identified and arrested. Complied	visually inspected at regular frequency and leaks are	Date: 31/05/2024
5	MISCELLANEOUS	All recommendations made in the EIA, EMP and oth submitted by the project proponent shall be strictly im	
		sabilitied by the project proponent shall be suretry in	piememeu
	Submission: Complied mendations of EIA / EMP has been in		Date:
Recomi			Date: 31/05/2024 ditional A or any othe
6 PPs S No add:	mendations of EIA / EMP has been in MISCELLANEOUS Submission: Complied	The project proponent shall also comply with any ad condition that may be imposed by The SEAC or SEIA competent authority for the purpose of the environment	Date: 31/05/2024 ditional A or any other
6 PPs S No add:	MISCELLANEOUS Submission: Complied itional condition has been imposed by	The project proponent shall also comply with any ad condition that may be imposed by The SEAC or SEIA competent authority for the purpose of the environment and management	Date: 31/05/2024 ditional A or any othental protection Date: 31/05/2024 nall be carried ne case may be sal from those sh reference quacy of
PPs S No add: Oct'23 PPs S Expans required	MISCELLANEOUS Submission: Complied itional condition has been imposed by MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS Submission: Complied ition or Modification of the RIL-DMI	The project proponent shall also comply with any ad condition that may be imposed by The SEAC or SEIA competent authority for the purpose of the environment and management By SEIAA, Gujarat for this EC during review period No further expansion or modifications in the plant shout without prior approval of the MoEF / SEIAA, as the In case of deviations or alterations in the project proposubmitted to MoEF/SEIAA/SEAC for clearance, a free shall be made to the SEIAA / SEAC to assess the adequations imposed and to add additional environment measures required, if any. D complex has been carried out only after obtaining the der the EIA Notification, 2006. No changes / deviations	Date: 31/05/2024 ditional A or any othental protection Date: 31/05/2024 nall be carried ne case may be sal from those sh reference quacy of

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 MoEF&CC / SEIAA / GPCB for the period Oct'23 – Mar'24 is about INR. 108.3 Crores. Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 31.49 Lakhs • Online Continuous emission and effluent monitoring systems – INR 46.27 Lakhs • Pollution control systems (Effluent treatment & management / APCM) – INR 102.71 Crores • Waste management – INR 73.24 Lakhs • Green belt development – INR 2.83 Crores Complied. Funds allocated for Environmental Management is used only for that purpose and not diverted for any other use. Complied.

Date: 31/05/2024

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 MoEF&CC, Bhopal. Newspaper cutting is enclosed as Annexure XL. Complied.

Date: 31/05/2024

10

Statutory compliance

It shall be mandatory for the project management to submit halfyearly 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 MoEF&CC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/87 dated 28th November, 2023 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/85 dated 28th November, 2023 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.

Date: 31/05/2024

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: 31/05/2024

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's financial closure and project commencement was provided along with the first compliance report of this EC.

Date: 31/05/2024

13

MISCELLANEOUS

The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found

	Submission: Complied ondition is not applicable to us.		Date: 31/05/2024
14	MISCELLANEOUS	The above conditions shall be enforced, inter-alia unprovisions of the Water (Prevention & Control of Poll 1974, Air (Prevention & Control of Pollution) Act, 19 Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans boundary Movement and the Public Liability Insurance Act, 1991 along with amendments and rules	ution) Act, 81, the es ent) Rules, 200
PPs S Noted.	Submission: Complied		Date: 31/05/2024
15	MISCELLANEOUS	This Environmental Clearance is valid for five years of issue	from the date
PPs S	Submission: Complied		Date: 31/05/2024

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

Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

Acknowledgment

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
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	SEIAA/GUJ/EC/1(d)&7(e)/96/2015

Category	Thermal Projects
Sub-District	N/A
Entity's PAN	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year

2024

Remarks (if any)

Reporting Period

01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

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

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	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:
31/05/2024

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 18,097 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 Oct'23 – Mar'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 & Authorisation (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 36,292 m3/d. The average effluent discharge during Oct'23 – Mar'24 is presented below: Description; Permissible Limit (KLD); Average: (KLD) Quantity of Effluent Discharge; 36,292; 18,097. It can be seen from above results that the, the average effluent discharge from the complex has not exceeded the permissible limit of 36,292 KLD during reporting period. Complied.

Date: 31/05/2024

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 $Oct^23 - Mar^24$ is 182 KL/day. Complied. Additional effluent from DM plant is being treated in the existing ETP. Complied. 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. Complied.

Date: 31/05/2024

4 WATER QUALITY 4 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 Oct'23 – Mar'24. From results, it is seen that the ETP is operating regularly and efficiently and all the results are complying with the GPCB norms. Detailed treated effluent

momic	oring report is enclosed as Annexure VI	I. Complied.	
5	WATER QUALITY MONITORING AND PRESERVATION	Guard ponds of adequate storage capacity shall be prestorage of effluent in case of emergency maintenance of discharge pipeline.	
Guard ETP as discha	s well as within plants for storage of eff rge pipeline. Photograph of Guard Ponc enance of effluent discharge pipeline car	Guard Ponds of 17,000 m3 each) have been provided at luent in case of emergency maintenance of effluent d is enclosed as Annexure LXXI. No emergency rried out during review period Oct'23 – Mar'24.	Date: 31/05/2024
б	WATER QUALITY MONITORING AND PRESERVATION	The unit shall provide metering facility at the inlet at ETP and maintain the records of daily effluent generat and furnish it to the GPCB from time to time. The unit provide on line monitoring system for pH, TDS & TO the outlet of the ETP.	ion and reuse shall also
Guard ETP as dischar mainte Compl records of flow pH, BO monito	s well as within plants for storage of eff rge pipeline. Photograph of Guard Pond mance of effluent discharge pipeline can lied. Metering facility i.e. Flow meters has are maintained and submitted to GPCly we meters at the inlet and outlet of the ET OD, COD & TSS analyzers are provided oring system and analyzer room can be a rge into Gulf of Khambhat in the deep s	Guard Ponds of 17,000 m3 each) have been provided at fluent in case of emergency maintenance of effluent d is enclosed as Annexure LXXI. No emergency rried out during review period Oct'23 – Mar'24. have been provided at the inlet and outlet of ETP and B from time to time as and when asked. Photographs TP can be seen in Annexure XLIV. Complied. Online d at the outlet of the ETP. Photograph of online seen in Annexure XLV. Our treated effluent is see a area therefore norms of TDS is not applicable to us.	Date: 31/05/2024
7	ENERGY PRESERVATION MEASURES	Training to the staff on methods of energy conservativigilant for this.	ion and to be
	Submission: Complied ng is being imparted regularly by our Le	earning and Development Department. Complied.	Date: 01/06/2024
8	WASTE MANAGEMENT	The company shall undertake following waste minim measures: Metering and control of quantities of active minimize waste.	
All act	Submission: Complied tive ingredients are metered at all the plaients to ensure waste minimization. Con	ants. Metering and control is provided for active mplied.	Date: 01/06/2024
	AIR QUALITY MONITORING AND PRESERVATION	Enclosure shall be provided at coal loading and unloaperations.	ading
9			
PPs Enclos	Submission: Complied sure has been provided at coal loading a ed as Annexure LXXVII. Complied.	and unloading operations. Photographs of the same is	Date: 31/05/2024

Municip such as		g properly collected and disposed as per defined	Date: 31/05/2024
11	WASTE MANAGEMENT	Ash from silos shall be transported through closed t utilization by Cement/ construction agencies.	ankers for
	ubmission: Complied m silos is transported through closed t	ankers / bulkers / covered trucks. Complied.	Date: 31/05/2024
2	Risk Mitigation and Disaster Management	Recommendations made in the Risk Assessment stu- submitted by the project proponent shall be implemen	
Recomrexisting proof w	units including CCPP. e.g. • Control	nt study report are implemented and complied with for rooms are constructed having blast proof & shock process areas and flammable materials. • Provided tion measures. Complied.	Date: 31/05/2024
13	ENERGY PRESERVATION MEASURES	Use of electronic ballast to save energy	
	ubmission: Complied nic ballast / relevant systems are provi	ded in lighting equipment. Complied	Date: 01/06/2024
4	ENERGY PRESERVATION MEASURES	To the maximum extent possible and technically fer efficient equipment like motors pumps, air conditioni be selected.	
Energy	ubmission: Complied efficient equipment like motors pump imum extent possible, wherever feasil	s, air conditioning systems are selected and installed to ble. Complied.	Date: 01/06/2024
15	ENERGY PRESERVATION MEASURES	Gravity flow shall be preferred wherever possible to energy.	save pumping
	ubmission: Complied flow has been utilized wherever possi	ible. Complied.	Date: 01/06/2024
16	Marine/Coastal	The RIL shall strictly implement the measures sugg Comprehensive Marine EIA report by the National In Oceanography, Mumbai and suggested in the EIA rep Nagpur for mitigation of likely adverse impacts on coenvironment.	stitute of oort by NEERI,
The meand impostone in	plemented. For eg. ESP, covered conve	rial EIA studies are included in the design of the plant eyors, tall chimney, covered storage shed for coal, lime in existing RDMT jetty is not yet started. Photographs	Date: 31/05/2024
17	Statutory compliance	In terms of captive power generation within the RII complex, at any given point of time, the total installed complex shall not exceed 499 MW and operating power capacity of the complex shall not exceed 270 MW. That been amended vide EC amendment order no SEIAA/GUJ/EC/1(d) & 7(e)/583/2016. The amended	I capacity of the ver generation his Condition

		given below: "In terms of captive power generation wi DMD complex, at any given point of time, the total ins of the complex shall not exceed 499 MW and operating generation capacity of the complex shall not exceed 46	talled capaci g power
The tot	tion capacity of the complex has not exc	s not exceeded 499 MW and operating power ceeded 465 MW during the period of Oct'23 – Mar'24.	Date: 31/05/2024
18	Statutory compliance	The additional amended condition is given below: "U comply the emission standards mentioned in the Notifi MoEF&CC vide no. S.O.3305 dated 07/12/2015."	
RIL Di Power dated 0 MoEF& its resu MoEF& conform	Plant emission standards mentioned in 17/12/2015. Stack emissions parameters &CC recognized & NABL accredited laults shown below indicate the conformat &CC recognition letter and NABL certi	ower Plant (CCPP) is complying with the Thermal the Notification by MoEF&CC vide no. S.O.3305 like SO2, NOx, PM are monthly monitored through aboratory M/s Netel (India) Limited, Navi Mumbai and nce to the MoEF&CC prescribed standards. ficate is enclosed as Annexure II. Results are during review period of Oct'23 – Mar'24. Detailed as Annexure III. Complied.	Date: 31/05/2024
19	Marine/Coastal	Cargo handling capacity of the RDMT jetty shall be TPA even after the proposed expansion/modification	<5 million
	-	ee Dahej Marine Terminal (RDMT) jetty is yet to be	Date: 31/05/2024
20	Marine/Coastal	The RIL shall strictly adhere to the provisions of the Notification, 2011 issued by the Ministry of Environme Forests, GOI.	
The pro Notific		jetty is yet to be started. The provisions of the CRZ nvironment and Forests, GOI will be followed as and	Date: 31/05/2024
21	MISCELLANEOUS	The RIL shall obtain all necessary clearances permiss different Government Departments/Agencies before construction activity related to the proposed project.	
RIL-DI Departi one suc	ments / Agencies before commencing a	res permissions from different Government any construction activity related to the CCPP. Copy of LXIV. The proposed modification in existing RDMT	Date: 31/05/2024
22	Risk Mitigation and Disaster Management	The RIL shall prepare Safety/fire control plan for coahandling/liquid handling and take all measures and approfficer to oversee compliance.	
Safety require compli extingu	ed measures are taken. We have also appances. Fire protection systems consists uishers, 600 fire buckets, 56 foam systems	I for coal handling / liquid handling for CCPP and all pointed Safety officers for the area to oversee mainly of 7 fire tenders, more than 5500 portable fire ms and a network of more than 1100 double head ith 250 water spray system / fume suppression system /	Date: 31/05/2024

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. Complied. The RIL shall have to obtain necessary permission from the 23 Marine/Coastal GMB/Government for jetty/port under Maritime Board Act, 1980 and shall submit it to the GCZMA PPs Submission: Complied Date: Prior to implantation of Jetty modification plan, the necessary permission from the GMB / 31/05/2024 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. The RIL shall abide by the safety and environment protection 24 **MISCELLANEOUS** measures emerges out of study earned out by the WPACOS Limited and DHI India Date: PPs Submission: Complied 31/05/2024 The proposed modification in existing RDMT jetty is yet to be started. The RIL shall participate financially for any common facility that may be established or any common study that may be carried out for **MISCELLANEOUS** 25 the Gulf of Khambhat region for environmental protection and/or management purpose. PPs Submission: Complied Date: RIL will participate financially for any common facility that may be established or any common 31/05/2024 study that may be carried out for the Gulf of Khambhat region for environmental protection and / or management purpose, as & when called for. The RIL shall have to face the consequences whatsoever due to implementation of the Kalpsar Project proposed by the Government **MISCELLANEOUS** 26 of Gujarat and shall have to take all necessary actions as may be desired by the Government. PPs Submission: Complied Date: RIL will face the consequences whatsoever due to implementation of the Kalpsar Project proposed 31/05/2024 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. The RIL shall construct/modify the jetty in such way that there shall 27 Marine/Coastal not be any impacts on ecology of the area. Date: PPs Submission: Complied 31/05/2024 Noted and shall be a part of modification plan of Jetty. However, the proposed modification in existing RDMT jetty is not yet started. AIR QUALITY The RIL shall carry out transportation and handling of the coal in 28 MONITORING AND such a way that there shall not be any impact of coal dust in nearby **PRESERVATION** area. **PPs Submission:** Complied Date: All necessary measures have been implemented to ensure no impact of coal dust in nearby area 31/05/2024 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

sprinkler system and fire water pipeline network laid around 90 km. Also, more than 9000 automatic

29	Marine/Coastal	The dredging material shall be disposed off in such a shall not be any impacts on marine environment. In case of dredged material in deep sea, it shall be disposed of model study for its disposal locations, influence zone, marine environment, if any and mitigation measures subsecomplied with by the RIL.	se of disposa only after a its impact on
Noted	Submission: Complied and shall be complied as a part of mag RDMT jetty is not yet started.	odification plan of Jetty. The proposed modification in	Date: 31/05/2024
30	MISCELLANEOUS	The RIL shall prepare and furnish the detailed Disaster Management Plan to the concerned offices including the District Authorities and Forest & Environment Department.	
Disasto CCPP.		prepared for existing plants and the same is extended for strict Authorities – DISH / Factory Inspector. Copy of the nplied.	Date: 31/05/2024
31	Risk Mitigation and Disaster Management	The RIL shall prepare and regularly update their Loc Contingency and Disaster Management Plan in conson National Oil Spill and Disaster Contingency Plan and s same to the Department of Forest & Environment after	ance with the
		vetted through the Indian Coast Guard.	
RIL is Nation enclos	nal Oil Spill and Disaster Contingenc	and Disaster Management Plan in consonance with the by Plan and it is updated regularly. Copy of the same is ll be updated after modification in Jetty and will be	Date: 31/05/202
RIL is Nation enclos submit	having Local Oil Spill Contingency nal Oil Spill and Disaster Contingence ed as Annexure LXIX. The same wi	and Disaster Management Plan in consonance with the by Plan and it is updated regularly. Copy of the same is ll be updated after modification in Jetty and will be	31/05/202
RIL is Nation encloss submit 32 PPs Noted. superv	having Local Oil Spill Contingency nal Oil Spill and Disaster Contingence de as Annexure LXIX. The same witted to the Department of Forest & EMISCELLANEOUS Submission: Complied RIL will bear the cost of the external	and Disaster Management Plan in consonance with the by Plan and it is updated regularly. Copy of the same is all be updated after modification in Jetty and will be invironment. The RIL shall bear the cost of the external agency the appointed by this Department for supervision/monitori	at may be ng of propos Date:
RIL is Nation encloss submit 32 PPs Noted. superv	having Local Oil Spill Contingency nal Oil Spill and Disaster Contingence ed as Annexure LXIX. The same witted to the Department of Forest & E MISCELLANEOUS Submission: Complied RIL will bear the cost of the externation / monitoring of proposed activ	and Disaster Management Plan in consonance with the by Plan and it is updated regularly. Copy of the same is all be updated after modification in Jetty and will be invironment. The RIL shall bear the cost of the external agency the appointed by this Department for supervision/monitori activities.	at may be ng of propos Date: 31/05/2024
RIL is Nation enclose submit 32 PPs Noted. superv departs 33 PPs The Enand rep 2022-2 approv	having Local Oil Spill Contingency hal Oil Spill and Disaster Contingence de as Annexure LXIX. The same witted to the Department of Forest & E MISCELLANEOUS Submission: Complied RIL will bear the cost of the externation / monitoring of proposed activement in the reporting period. Statutory compliance Submission: Complied national extension of the externation of the e	and Disaster Management Plan in consonance with the cy Plan and it is updated regularly. Copy of the same is all be updated after modification in Jetty and will be invironment. The RIL shall bear the cost of the external agency that appointed by this Department for supervision/monitori activities. The RIL shall bear the cost of the external agency that appointed by this Department for supervision/monitori activities. The RIL shall furnish the environmental audit report aspects on coastal and marine environment to this Department to this	at may be ng of propos Date: 31/05/202

RIL-DI		or rivers are blocked due to proposed activities in Tapi ave been carried out in Tapi Estuary. Complied.	Date: 31/05/2024	
35	Marine/Coastal	It shall be ensured that project activities do not lead to any shorelin changes. Periodic monitoring shall be carried out to assess the shoreline changes.		
All nec implemmonito	nented. The proposed modification	ject activities do not lead to any shoreline changes shall be in existing RDMT jetty is not yet started. Periodic se shoreline changes during construction phase of project. DMT jetty is not yet started.	Date: 31/05/2024	
36	MISCELLANEOUS	It shall be ensured that due to the project activities, there is no adverse Impact on the drainage of the area.		
	Submission: Complied ed project has not impacted the dra	ninage pattern of the area. Complied.	Date: 31/05/2024	
37	MISCELLANEOUS	Superstructure shall be constructed with pre-cast /cast in-situ sla so far as possible. Water demand during construction should be reduced by use of curing agents, plasticizers and other best practic		
Super s structui		st / cast in-situ slab wherever possible along with steel nentioned were followed during construction to reduce	Date: 31/05/2024	
38	MISCELLANEOUS	The construction activities shall be carried out only under the constant supervision and guidelines of the institute of the National repute.		
The co	Submission: Complied nstruction activities are carried out s institutes. Complied.	under the constant supervision of RIL project group and	Date: 31/05/2024	
		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 of this study.		
39	Marine/Coastal	considering the increase in the Ship/barges traffic in the accidental shrinking of barges/ships, due to proposed convening the Disaster/safety and environmental aspeabide by the safety and environment protection measurement.	he area, construction, ects and shall	
PPs S The pro had bee	Submission: Complied opposed modification in existing RD en carried out for this purpose and to	considering the increase in the Ship/barges traffic in the accidental shrinking of barges/ships, due to proposed convening the Disaster/safety and environmental aspeabide by the safety and environment protection measurement.	he area, construction, ects and shall	
PPs S The pro had bee	Submission: Complied oposed modification in existing RD en carried out for this purpose and to a part of marine study conducted	considering the increase in the Ship/barges traffic in the accidental shrinking of barges/ships, due to proposed convening the Disaster/safety and environmental aspet abide by the safety and environment protection measure of this study. DMT jetty is not yet started. Comprehensive Marine EIA the recommendation shall be complied with. Simulation	Date: 31/05/2024	

41	MISCELLANEOUS	Structural design aspects in accordance to the seism strictly adhered to.	ic zone shall b
	Submission: Complied ral design of the CCPP has been carrie	d out considering seismic zone of the area. Complied.	Date: 31/05/2024
42	WASTE MANAGEMENT	Fly ash should be used as building material in the construction per provisions of Fly Ash Notification under EPA.	
Fly ash used as dispose Disposa	building material in the construction, d at landfill site as per provisions of F	posed as per the Fly Ash Notification. The fly ash is cement industries, road making and excess material is ly Ash Notification under EPA. Month Fly Ash 3 13056 Dec-23 15376 Jan-24 16098 Feb-24 15318	Date: 31/05/2024
43	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.	
The cor		e project plant were properly stored within the the RIL-DMD site and construction materials like to actual users. Complied.	Date: 31/05/2024
44	WASTE MANAGEMENT	The construction debris and /or any other type of wardisposed of into the sea, creek or in the CRZ areas The removed from the construction site immediately after is over.	e debris shall l
No con in the C	• • • • • • • • • • • • • • • • • • • •	of waste have been disposed of into the sea, creek or been removed from the construction site on regular phase. Complied.	Date: 31/05/2024
45	WASTE MANAGEMENT	Disposal of debris including the excavated material construction phase shall not create adverse effect on a communities and shall be disposed off taking the precedent safety and health aspects only at the approved approval of the competent authority.	eighboring autions for
The cordispose plastics	d-off within our premises for filling pu, packaging etc. has been sold to actua	roperly stored within premises. Debris has been arpose and construction materials like steel, wood, I users for recycling. Adverse impact on neighboring amplex located in notified industrial area. Complied.	Date: 31/05/2024
46	MISCELLANEOUS	Only lead free paints shall be used in the project.	
	Submission: Complied ead free paints were used in the projec	t. Complied.	Date: 31/05/2024
Only L	1 3		

		concerned Government Departments/Agencies.	
Constr central not app the cor concer	rules and regulations. The Coastal Reg plicable to construction activities of CC astruction designs / drawings relating to ned Government Departments / Agenci	aken meticulously conforming to the existing local and gulation Zone Notification, 2011 & its amendments are PP as it was within the RIL complex. Complied. All the construction activities have approvals of the es such as Directors of Industrial Safety & Health me is enclosed as Annexure LXX. Complied.	Date: 31/05/2024
48	MISCELLANEOUS	The construction camps shall be located outside the Construction labor shall be provided with the necess including sanitation, water supply, fuel, etc. and the collabor shall be provided with the necessary amenities in sanitation, water supply, fuel, etc. and it shall be ensure environmental conditions are not deteriorated by the collabors	sary amenitie instruction icluding ed that the
The co	cessary amenities including sanitation, v	L DMD premises which is outside the CRZ area. All water supply, fuel, etc. are provided to the construction teriorated by construction labor. Complied.	Date: 31/05/2024
49	AIR QUALITY MONITORING AND PRESERVATION	Vehicles hired for bringing construction material at s good conditions and confirm to applicable air and nois standards and should be operated only during non-peak	e emission
		rial at site were in good conditions and confirming to	Date: 31/05/2024
applica		nd were operated only during non-peak hours.	31/03/2024
applica Compl		The Diesel Generator Set, if any to be provided during construction phase shall be of enclosed type and confir EPA Rules for air and noise emission standards.	ng the
applica Compl 50 PPs S The Di	Noise Monitoring & Prevention Submission: Complied	The Diesel Generator Set, if any to be provided durin construction phase shall be of enclosed type and confir EPA Rules for air and noise emission standards.	ng the rming to the Date:
applica Compl 50 PPs S The Di	Noise Monitoring & Prevention Submission: Complied desel Generator Set used during constructions.	The Diesel Generator Set, if any to be provided durin construction phase shall be of enclosed type and confir EPA Rules for air and noise emission standards.	Date: 31/05/2024 ont shall be mell in the er shall be
applica Compl 50 PPs 3 The Di the EP. 51 PPs 3 During supply	Noise Monitoring & Prevention Submission: Complied iesel Generator Set used during construct A Rules for air and noise emission standard WATER QUALITY MONITORING AND PRESERVATION Submission: Complied g construction phase domestic water required system i.e. intake well in the Narmada	The Diesel Generator Set, if any to be provided durin construction phase shall be of enclosed type and confir EPA Rules for air and noise emission standards. ction phase were of enclosed type and confirming to dards. Complied. During construction phase domestic water requireme through the existing water supply system i.e intake well Narmada river at village Angareshwar. No ground wat tapped in any case for the project requirements during	Date: 31/05/2024 ont shall be mell in the er shall be
applica Compl 50 PPs 5 The Di the EP. 51 PPs 5 During supply	Noise Monitoring & Prevention Submission: Complied iesel Generator Set used during construct A Rules for air and noise emission standard WATER QUALITY MONITORING AND PRESERVATION Submission: Complied g construction phase domestic water required system i.e. intake well in the Narmada	The Diesel Generator Set, if any to be provided durin construction phase shall be of enclosed type and confir EPA Rules for air and noise emission standards. ction phase were of enclosed type and confirming to dards. Complied. During construction phase domestic water requireme through the existing water supply system i.e intake well Narmada river at village Angareshwar. No ground wat tapped in any case for the project requirements during construction phase.	Date: 31/05/2024 ant shall be mell in the er shall be the Date: 31/05/2024 hall be kept easures generation. The

31/05/2024

for existing complex through MoEF&CC & 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. MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed noise monitoring report is enclosed as Annexure XXXII. Complied. Ambient noise levels conforms to the standard prescribed under EPA Rules, 1986 viz. 75 dBA (Day Times) and 70 dBA (Night time). Detailed noise monitoring report is enclosed as Annexure XIV. Complied.

WATER QUALITY
53 MONITORING AND
PRESERVATION

No ground water shall be tapped for any purpose for the project requirements.

PPs Submission: Complied

No ground water is used for the project. The water requirement for the project is met through existing Narmada water. Complied.

Date: 31/05/2024

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 19,129 KL/day (9,736KL/day of DM water + 7,359 KL/day of cooling tower make up water + 2,034 KL/day service water) during the review period. The average fresh water requirement of the complex for the period Oct'23 – Mar'24 was 89,332 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 & 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 Oct'23 – Mar'24 is presented as below Fresh Water Consumption (KLD) Prescribed Limit; Avg; Min; Max: 1,38,700; 89,332; 82,008; 94,667. Complied. 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. Complied. 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. Complied.

Date: 31/05/2024

55

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. Complied.

Date: 31/05/2024

56

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.

Effluent disposal pipeline is being regularly checked by site maintenance department for leakages through walkthrough surveys. During Oct'23 – Mar'24, no leakage was observed. Complied. During Oct'23 – Mar'24, no such eventualities have arisen. Complied.

Date: 31/05/2024

57

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. Complied.

Date: 31/05/2024

58

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. Parul Institute of Technology, Parul University, Vadodara, 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. Complied.

Date: 31/05/2024

59

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 Oct'23 – Mar'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: 31/05/2024

60

AIR QUALITY MONITORING AND PRESERVATION The company shall prepare schedule and carry out regular 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. Complied.

Date: 31/05/2024

61

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. Results indicate that the values are well within the norms prescribed. Detailed stack emission monitoring report is enclosed as Annexure III. Complied.

62	AIR QUALITY MONITORING AND PRESERVATION	An arrangement shall be made that in case of total fair ESP and if the ESP is not recharged within 10 minutes and consequently the boiler shall be tripped.	
Alarms	Submission: Complied / Tripping systems are provided so an & consequently unit tripping. Com	that during tripping of transformers it will lead to tripping mplied.	Date: 31/05/2024
63	WATER QUALITY MONITORING AND PRESERVATION	Surface run off from the jetty shall be adequately ma avoid oil, SS and coal dust entering the estuarine envir- sweeping shall be adopted at the jetty and washing sha	onment, dry
PPs Submission: Complied The proposed modification in existing Reliance Dahej Marine Terminal (RDMT) jetty is yet to be started.		Date: 31/05/2024	
64	MISCELLANEOUS	Imported Coal to the tune of 6,850 TPD shall be used the proposed CCPP	l as a fuel in
3,448 T	Submission: Complied PD of imported coal has been used sible limit of 6,850 TPD. Complied	as fuel in CCPP during Oct'23 – Mar'24 against	Date: 31/05/2024
65	AIR QUALITY MONITORING AND PRESERVATION	There shall be no use of fuel and hence there shall be emission from the proposed coal handling jetty.	no flue gas
		ance Dahej Marine Terminal (RDMT) jetty is yet to be	Date: 31/05/2024
66	AIR QUALITY MONITORING AND PRESERVATION	Height of flue gas stacks attached to the CFBC boiler working and 01 no standby) shall be minimum 220 me 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. Complied.		Date: 31/05/2024	
67	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 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.	
Continu SO2, & Boilers provision period i	NOx concentrations in the flue gas is enclosed as Annexure LXXIV. Con of load reduction if PM emission	ave been installed for all Boiler stacks to monitor PM, emission. Photographs of CEMS installed at CCPP Complied. As per Standard Operating Procedure, there is a reaches close to 50 mg/Nm³. However, during review ited The online monitoring results of Boiler stacks is B servers. Complied.	Date: 31/05/2024
a variao.			

The fur monitor against Safety	ored periodically for existing facilities t standards prescribed by the concer	evironment (i.e. Work place environmental monitoring) is es including CCPP. Occupational exposure is compared med authorities periodically (e.g Directorate of Industrial inference of Governmental Industrial Hygienist). Fugitive LXXV. Complied.	Date: 31/05/202
69	AIR QUALITY MONITORING AND PRESERVATION	All handling & transport of coal shall be exercised the coal conveyors only.	hrough cover
Covere	h these covered conveyors. Photogr	CPP and handling & transportation is being carried out raphs of the same is enclosed as Annexure LXXVI.	Date: 31/05/2024
70	AIR QUALITY MONITORING AND PRESERVATION	Water shall be sprinkled on coal stock piles periodic some moisture in top layer and also while compacting fugitive emission.	
Water piles p		d at coal storage yard. Water is sprinkled on coal stock in top layer and also while compacting to reduce the	Date: 31/05/2024
71	AIR QUALITY MONITORING AND PRESERVATION	All transfer points shall be fully enclosed.	
PPs S	MONITORING AND PRESERVATION Submission: Complied	All transfer points shall be fully enclosed. ne CCPP including the transfer points. All transfer points	Date: 31/05/202
PPs S	MONITORING AND PRESERVATION Submission: Complied ed coal conveyors are provided in the		31/05/2024 or paved
PPs S Covere are full 72 PPs S Interna	MONITORING AND PRESERVATION Submission: Complied ed coal conveyors are provided in the ly enclosed / covered. Complied. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied all roads are either concreted or asphala	ne CCPP including the transfer points. All transfer points Internal roads shall be either concreted or asphalted	31/05/2024 or paved
PPs S Covere are full 72 PPs S Interna	MONITORING AND PRESERVATION Submission: Complied ed coal conveyors are provided in the ly enclosed / covered. Complied. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied all roads are either concreted or asphala	Internal roads shall be either concreted or asphalted properly to reduce the fugitive emission during vehiculated properly to reduce the fugitive emission during	or paved clar movement Date: 31/05/202
PPs 3 Covered are full 72 PPs 3 Internative hicuit 73 PPs 3 The co	MONITORING AND PRESERVATION Submission: Complied ed coal conveyors are provided in the lay enclosed / covered. Complied. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied en roads are either concreted or asphalar movement. Photograph of the same AIR QUALITY MONITORING AND PRESERVATION AIR QUALITY MONITORING AND PRESERVATION Submission: Complied en conveyor system from jetty to play	Internal roads shall be either concreted or asphalted properly to reduce the fugitive emission during vehicular alted properly to reduce the fugitive emission during ume is enclosed as Annexure LXXVIII. Complied. Coal shall be conveyed by piped conveyor system from plant. Alternatively coal shall be conveyed through during the conveyed through during plant.	or paved clar movement Date: 31/05/202
PPs 3 Covered are full 72 PPs 3 Internative hicuit 73 PPs 3 The co	MONITORING AND PRESERVATION Submission: Complied ed coal conveyors are provided in the lay enclosed / covered. Complied. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied en roads are either concreted or asphalar movement. Photograph of the same AIR QUALITY MONITORING AND PRESERVATION AIR QUALITY MONITORING AND PRESERVATION Submission: Complied en conveyor system from jetty to play	Internal roads shall be either concreted or asphalted properly to reduce the fugitive emission during vehicular alted properly to reduce the fugitive emission during ume is enclosed as Annexure LXXVIII. Complied. Coal shall be conveyed by piped conveyor system for plant. Alternatively coal shall be conveyed through duryard from nearby Jetties of M/s Adani or Essar.	or paved plar movement of the state of the s

AIR QUALITY Air borne coal dust shall be controlled with water sprinklers at 75 MONITORING AND suitable locations in the plant. **PRESERVATION** PPs Submission: Complied Date: Air borne coal dust is controlled by providing DFSS (Dry Fogging Spray System) at coal unloading 31/05/2024 area & transfer points. At coal storage shed sprinkling system is provided at suitable locations. Complied. Regular monitoring of ground level concentrations of SO2, NOx, PM10 and PM2.5 shall be carried out in the impact zone and its AIR QUALITY records shall be maintained. Ambient air quality levels shall not MONITORING AND 76 exceed the standards stipulated by the GPCB. If at any stage these **PRESERVATION** 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 Date: the maximum Ground Level Concentration in downwind direction. AAQM location can be seen in 31/05/2024 the map enclosed as Annexure XVII. Ambient air quality 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. All results are conforming to the standards prescribed by GPCB. Detailed AAQ Monitoring data can be referred as Annexure VI. Complied. AIR QUALITY 77 MONITORING AND Fly ash shall be transported through closed/covered trucks only. **PRESERVATION** Date: PPs Submission: Complied 31/05/2024 Fly ash is transported through closed / covered trucks and bulkers only. Complied. AIR OUALITY All trucks shall be properly covered at top and bottom with perfect 78 MONITORING AND sealing of plastic/tarpaulin sheets. **PRESERVATION** Date: **PPs Submission:** Complied 31/05/2024 All trucks are properly covered with tarpaulin sheets. Complied. AIR QUALITY Adequate dust suppression/ extraction system at crusher house as 79 MONITORING AND well as for the coal stock yard shall be provided to abate dust **PRESERVATION** 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. Complied.

Date: 31/05/2024

A green belt shall be developed all around the plant boundary, Jetty

GREENBELT 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 & 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. Complied.

Date: 31/05/2024

81	AIR QUALITY MONITORING AND PRESERVATION	All regularly used roadways around the site must be with a tank mounted road sweeper and washed by a trucart.	
Arrang		used roadways around the site has been done using ing machine is enclosed as Annexure LXXIX. Complied.	Date: 31/05/2024
82	AIR QUALITY MONITORING AND PRESERVATION	The company shall install and operate continuous amquality monitoring station within the premises. The loc continuous ambient air quality monitoring station shall consultation with the GPCB.	cation of the
Contin	mises. Photograph of CAAQMS ca MS is fixed by consulting GPCB of	ring Station (CAAQMS) is installed and operational within an be seen in Annexure LXXXI. Complied. Location of official in his visit and after getting their concurrence.	Date: 31/05/2024
83	AIR QUALITY MONITORING AND PRESERVATION	Regular cleaning of roads and removal of the accumulation from road sides.	ılated dust
		f the accumulated dust from road sides is being done.	Date: 31/05/2024
84	AIR QUALITY MONITORING AND PRESERVATION	The storage yard shall be covered with screens/walls 8 m height on three sides	of at least 7
The sto	Submission: Complied orage yard is completely covered we as Annexure LXXX. Complied.	vith walls and roof. Photograph of coal storage area is	Date: 31/05/2024
CHCIOS		Third party performance evaluation of the air pollution systems including ESP shall be earned out at least once check its performance and efficiency through a reputed organization like NPC, L D College of Engineering -A	e in a year to l institute / .hmedabad or
85	MISCELLANEOUS	such other institutes of similar repute, and its records s maintained	

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

86

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.

Date: 31/05/2024

Page 16 of 29

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. 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 2022-23 as Annexure IX. Complied.

87

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. Complied.

Date: 31/05/2024

88

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. Complied.

Date: 31/05/2024

89

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 & for Bed Ash 01 silo of 1600 MT have been provided. Photographs of the same is enclosed as Annexure LXXXII. Complied. No ash pond has been constructed in the DMD complex. Complied.

Date: 31/05/2024

90

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. Details of Fly Ash disposal is as given below: Month; Fly Ash Disposal Quantity (MT): Oct-23; 16631: Nov-23; 13056: Dec-23; 15376: Jan-24; 16098: Feb-24; 15318: Mar-24; 18463. Complied.

Date: 31/05/2024

91

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. Complied.

Date: 31/05/2024

92

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

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. Complied.

Date: 31/05/2024

93

MISCELLANEOUS

Training shall be given to all workers on safety and health aspects

		of handling chemicals.	
		of handing chemicals.	
Trainin chemic contrac which i Dahej, practice	all handling related, safety and health to tor workers as well. The level-1 and le includes the safe work practices related employees are imparted safety training	ety and health aspects of chemicals handling. The raining is imparted to all workers on RIL role and all evel-2 training is provided to the contract workers d to safe chemical handling and use of PPEs. At RIL-g through induction and refresher training on safe work PPE. Records of various trainings imparted to all is	Date: 31/05/2024
94	Risk Mitigation and Disaster Management	Necessary emergency lighting system along with emback up system shall be provided.	ergency pow
Necess	Submission: Complied ary emergency lighting system along ved. Complied.	with emergency power back up system has been	Date: 31/05/2024
95	Risk Mitigation and Disaster Management	Fire protection system based on National Fire Protect Association (NFPA) approved guidelines shall be proved consist of fire hydrant system all-round the plant area a yards. High velocity water spray system for transforme fire detection and alarm manual fire alarm system, portextinguishers, adequate capacity fire water storage tank	rided It shall and storage ers. automatic table fire
Fire proguideliand sto	nes. Adequate Fire protection systems rage yards, Nitrogen spray system for	onal Fire Protection Association (NFPA) / TAC consists of fire hydrant system all-round the plant area transformers have been provided. Automatic fire n, portable fire extinguishers, adequate capacity fire	Date: 31/05/2024
96	Risk Mitigation and Disaster Management	Personal Protective Equipment shall be provided to vusage shall be ensured and supervised.	vorkers and i
Person	Submission: Complied al Protective Equipment (PPE) are proentering the plant. This is being ensure	vided to employees and contractors and are compulsory ed regularly. Complied.	Date: 31/05/2024
97	Risk Mitigation and Disaster Management	First Aid Box and required Antidotes for the chemica unit shall be made readily available in adequate quantitimes.	
First A availab	•	s in each plant and antidotes for chemicals are readily graph of First Aid box located at plant control room	Date: 31/05/2024
98	Human Health Environment	Tie up shall be done with nearby health care unit for immediate medical attention in case of emergency, reg checkup of the workers and keeping its record etc.	
	Submission: Complied ational Health Center (OHC) is established	shed at the petrochemical complex for providing	

The project management shall prepare a comprehensive Disaster Management Plan (DMP) for the project as per the guidelines from Risk Mitigation and Disaster 99 Directorate of Industrial Safety and Health. Detailed DMP prepared Management shall be implemented to bring down risk involved / hazards / accidents as low as reasonably practicable. PPs Submission: Complied Date: A comprehensive Disaster Management Plan (DMP) has been prepared for existing complex and 31/05/2024 updated same for CCPP and implemented to bring down risk involved / hazards / accidents as low as reasonably practicable. Complied. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories 100 **Human Health Environment** 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 Date: prescribed in the Factories Act and Gujarat Factory Rules and the records are being maintained in 31/05/2024 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. 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. Complied. Pre-employment and periodical medical examination is carried out by OHC annually and records are maintained as per the Gujarat Factories Act & Rules. Complied. Selection of any new plant equipment shall be made with 101 Noise Monitoring & Prevention specification of low noise levels Date: PPs Submission: Complied 31/05/2024 Low noise generating equipment have been selected in the design stage itself. Complied. 102 **MISCELLANEOUS** All transporting routes within the premise shall have paved roads. Date: PPs Submission: Complied 31/05/2024 All transporting routes within the premise have paved roads. Complied. Noise suppression measures such as enclosures, buffers and/or 103 Noise Monitoring & Prevention protective measures shall be provided Date: **PPs Submission:** Complied 31/05/2024 Noise suppression measures like acoustic chambers are provided wherever required. Photographs of the same is enclosed as Annexure XXXIII. Complied. Manufacturers/suppliers of major noise generating machines/ equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications 104 Noise Monitoring & Prevention 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 Date: Low noise generating equipment have been selected in the design stage itself. Necessary 31/05/2024 confirmation taken from suppliers for steam turbine generator, pumps, and compressors etc. for noise level of equipment. Equipment meet the national regulatory norms. Complied.

Regular maintenance of machinery and vehicles shall be undertaken

105

Noise Monitoring & Prevention

	ubmission: Complied & preventive maintenance of machine	ery and vehicles is undertaken. Complied.	Date: 31/05/2024
106	Human Health Environment	Ear plugs and/muffs shall be made compulsory for the workers working near the noise generating activities/machines/equipment.	ne constructio
Use of F supervis		de compulsory at site. It is being ensured and ontractor Field Round and Daily Field round by Plant	Date: 31/05/2024
107	Noise Monitoring & Prevention	Noise levels shall be reduced by the use of adequate motorized equipment.	mufflers on a
		been provided on all the motorized equipment	Date: 31/05/2024
108	Noise Monitoring & Prevention	The overall noise level in and around the plant area swell within the prescribed standards by providing nois measures Including acoustic insulation, hoods, silence vibration dampers etc. on all sources of noise generated ambient noise levels shall confirm to the standards pre the Environment (Protection) Act and Rules Workplace for workers shall be as per the Factories Act and Rules	e control rs, enclosures on. The scribed under e noise levels
The ove standard generati. MoEF& it is obserecognit noise lever monitori. Ambien Times) a presente has not lever the standard sta	Is. Noise control measures such as acong source with-in the plant. Noise level CC recognized & NABL accredited latered to be well within the prescribed ion letter and NABL certificate of M/s well in & around the plant are well within report for the period Oct'23 – Mark the noise levels conform to the standard and 70 dBA (Night time). The summand. Results indicate that the ambient not been exceeded the prescribed limit. Done XIV. Complied. Workplace noise levels accepted the prescribed limit.	t area shall be kept well within the prescribed bustic hoods, silencers etc. are provided at high noise el at the site is monitored on monthly basis through aboratory M/s Netel (India) Limited, Navi Mumbai and workplace noise level of 85 dBA. MoEF&CC is Netel (India) Limited is enclosed as Annexure II. The print the prescribed limit of 85 dB(A). The detailed noise '24 is enclosed as Annexure XXXII. Complied. prescribed under EPA Rules, 1989 viz. 75 dBA (Day rry of the ambient noise levels or Oct'23 – Mar'24 is poise levels during the reporting period Oct'23 – Mar'24 etailed noise monitoring report is enclosed as evels for workers is maintained well below the limit of The results of work place noise level is given in the	Date: 31/05/2024
109	Noise Monitoring & Prevention	Employees shall be provided with ear protection mean plugs or ear muffs.	asures like ea
		ory for use by everyone working in high noise areas.	Date: 31/05/2024
		Proper oiling, lubrication and preventive maintenance	
110	Noise Monitoring & Prevention	carried out of the machineries and equipments to reduce generation	te noise

111	Noise Monitoring & Prevention	Construction equipment generating minimum noise a shall be chosen.	and vibration
Constru	Submission: Complied action equipment generating low noise Complied.	and vibration was chosen during the erection of the	Date: 31/05/2024
112	Noise Monitoring & Prevention	To minimize the noise pollution the following noise measures shall be implemented.	control
		requirements during the design phase itself.	Date: 31/05/2024
113	ENERGY PRESERVATION MEASURES	The project proponent shall Implement the application energy which shall be utilized as solar lighting for illustration areas, lighting of internal roads and passages utilization of solar water heating systems	mination of
	Submission: Complied Solar energy is already explored and u	nder evaluation and approval stage.	Date: 31/05/2024
114	Noise Monitoring & Prevention	Vehicles and construction equipment with internal co- engines without proper silencer shall not be allowed to	
	Submission: Complied		Date:
not allo	wed to operate during the erection of t	ernal combustion engines without proper silencer were he plant. Complied.	31/05/2024
115 PPs S	ENERGY PRESERVATION MEASURES Submission: Complied efficient devices have been provided i	he plant. Complied. The project proponent shall install energy efficient d	evices and ency norms Date:
115 PPs S Energy	ENERGY PRESERVATION MEASURES Submission: Complied efficient devices have been provided i	The project proponent shall install energy efficient d appliances conforming to the Bureau of Energy Efficient	evices and ency norms Date: 31/05/2024
PPs S Energy Compli	ENERGY PRESERVATION MEASURES Submission: Complied efficient devices have been provided i ed. Noise Monitoring & Prevention Submission: Complied	The project proponent shall install energy efficient d appliances conforming to the Bureau of Energy Efficient the plant like variable frequency drives etc. Construction equipment meeting the norms specified.	evices and ency norms Date: 31/05/2024
PPs S Energy Compli 116 PPs S Constru	ENERGY PRESERVATION MEASURES Submission: Complied efficient devices have been provided i ed. Noise Monitoring & Prevention Submission: Complied ection equipment meeting the norms sp	The project proponent shall install energy efficient d appliances conforming to the Bureau of Energy Efficient the plant like variable frequency drives etc. Construction equipment meeting the norms specified 1986 shall only be used.	Date: 31/05/2024 B by EP Act, Date: 31/05/2024
PPs S Energy Compli 116 PPs S Constru 117 PPs S Low No	ENERGY PRESERVATION MEASURES Submission: Complied efficient devices have been provided i ed. Noise Monitoring & Prevention Submission: Complied action equipment meeting the norms spection phase of the plants. Complied. Noise Monitoring & Prevention	The project proponent shall install energy efficient d appliances conforming to the Bureau of Energy Efficient the plant like variable frequency drives etc. Construction equipment meeting the norms specified 1986 shall only be used. Pecified by EP Act, 1986 were used during the Noise control equipment and baffling shall be employenerators especially when they are operated near the sensitive areas.	Date: 31/05/2024 Date: 31/05/2024 Date: 31/05/2024

Departition targets.		energy consumption is monitored against those mption is done by Energy cell with BEE Qualified	Date: 31/05/2024
119	ENERGY PRESERVATION MEASURES	The energy audit shall be conducted at regular Intercommendations of the audit report shall be implen	
Energy	Submission: Complied audit done by third party for existing to being done for CCPP. Complied.	facilities and the recommendations are implemented.	Date: 31/05/2024
120	ENERGY PRESERVATION MEASURES	Adjusting the settings and illumination levels to energy used for desired comfort level	nsure minimum
Illumin have be	een provided in few office rooms to aut	nce in two years as a Part of Electrical audit. Sensors tomatically switch off lighting in case of no movement inclosed as Annexure LXXXIII. Complied.	Date: 01/06/2024
121	ENERGY PRESERVATION MEASURES	Use of solar cells for lighting.	
	•	ograph of the same is enclosed as Annexure LXI.	Date: 01/06/2024
122	ENERGY PRESERVATION MEASURES	Variable frequency drives shall be installed.	'
	Submission: Complied le Frequency Drives installed in the pla	ants. Complied.	Date: 31/05/2024
123	ENERGY PRESERVATION MEASURES	Energy conservation measures shall include use of lighting system, use of CFL tubes to minimize energy programmable timers for pumping system and lightic controllers for water pumps, centralized cooling etc.	y use. use of ng, water level
Energy	Submission: Complied conservation methods like use of LED tented. Photographs of the same is encl	D lighting for office and street lighting, are being losed as Annexure LX. Complied.	Date: 31/05/2024
124	ENERGY PRESERVATION MEASURES	Use of solar water heater for canteen & washing a	rea.
		dy explored and Solar water heater project is under	Date: 01/06/2024
125	ENERGY PRESERVATION MEASURES	Proper load factor shall be maintained by the unit	,
	Submission: Complied ate load factor is maintained. Complied	l.	Date: 01/06/2024
126	ENERGY PRESERVATION MEASURES	The transformers and motors shall have minimum %.	efficiency of 85

		than 85% are selected at design stage itself.	Date: 31/05/2024
127	ENERGY PRESERVATION MEASURES	Provision of day light roof to utilize maximum natur production plant instead of electrical lighting	ral light in the
Day lig	Submission: Complied that roofs are provided at our store and vare LXII. Complied.	warehouse areas. Photograph of the same is enclosed as	Date: 01/06/2024
128	ENERGY PRESERVATION MEASURES	Automatic switching system for lighting & water tar shall be used.	nk pumping
Automa	Submission: Complied atic switching system for lighting are ping system for water tank pumping is a	provided at various areas of plants. Automatic lso provided Complied.	Date: 01/06/2024
129	WASTE MANAGEMENT	Use of automated and enclosed filling to minimize s	pillages.
	Submission: Complied ated and enclosed material transfer sys	tem implemented to minimize spillages. Complied.	Date: 01/06/2024
130	WASTE MANAGEMENT	Use of high pressure hoses for cleaning to reduce was generation	astewater
		ich ensures reduction in wastewater generation.	Date: 01/06/2024
131	WASTE MANAGEMENT	Waste Minimization & Cleaner Production: The uniundertake the Cleaner Production Assessment study the reputed institute/organization and shall form a CP tear company. The recommendations thereof along with the shall be furnished to the GPCB.	nrough a m in the
Site has minimi includis	zation. Which generates low wastes an	of for achieving resource reduction and waste and gives maximum energy efficiency for existing plants in application to Gujarat Cleaner Production Council	Date: 01/06/2024
132	WASTE MANAGEMENT	Regular preventive maintenance for avoiding leakag	ge, spillage etc
At plan	Submission: Complied at level regular preventive maintenance . Complied.	of equipment is carried out and maintained in the SAP	Date: 01/06/2024
133	WASTE MANAGEMENT	Reuse of by-products from the process as raw mater materials substitutes in other process	ials or raw
	Submissions Countied		
Reuse or residue		er possible such as Productive management of waste vering Suspended solids powder resulting in reuse of d spent carbon at CCPP. Complied.	Date: 01/06/2024

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. Complied.

Date: 01/06/2024

135

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. Complied. Adequate plantation carried out on road sides near the site and open areas of GIDC 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. Complied.

Date: 01/06/2024

136

WASTE MANAGEMENT

Use of close feed system into batch reactors.

PPs Submission: Complied

Closed feed systems are installed for existing plants and CCPP. Complied.

Date: 01/06/2024

137

WASTE MANAGEMENT

Dry cleaning/mopping of floor instead of floor washing

PPs Submission: Complied

Practiced at all the administrative buildings including plant control rooms. Complied.

Date: 01/06/2024

138

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. Complied.

Date: 01/06/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	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. Complied.

Date: 01/06/2024

2	WATER QUALITY MONITORING AND PRESERVATION	To check the ingress of salty water into landside	
	Submission: Complied gress of salty water into landside is a	regularly monitored. Complied.	Date: 01/06/2024
3	MISCELLANEOUS	A separate Environmental Management Cell equipp fledged laboratory facilities and qualified personnel sl for environmental monitoring and management during and operational phases of the project. A separate budgearmarked annually for this purpose and the details sh to various regulatory authorities from time to time.	nall be created g construction get shall be
A sepa plus yo Enviro DMD technio samplo Compl monito	ear experience. The cell is supported onment Head reports the Site Preside has a full-fledged Quality Assurance cians under the supervision of compo e analysis. The Laboratory Head directly lied. Sufficient funds are earmarked oring and analysis. Recurring expendent	nvironment Head with environment qualification and 17 by 3 qualified Environment professionals (Env. Engg). nt. The detailed organogram is presented as below: RIL-e (Laboratory) dept., manned with qualified Labetent & well-experienced managers who also carry out the ectly reports to the Technical Head of the complex. every year for environmental management including liture incurred to comply with the conditions stipulated by d Oct'23 – Mar'24 is about INR. 53.4 Crore. Complied.	Date: 01/06/2024
1	MISCELLANEOUS	In the event of failure of any pollution control system the unit, the unit shall be safely closed down and shall until the desired efficiency of the control equipment hachieved.	not be restarte
Polluti of poll from r	ution control system, a trigger/alarm	onnected through the DCS system. In the event of failure is raised in the DCS system which prevents the plant 23 – Mar'24, no such failure of pollution control	Date: 01/06/2024
5	MISCELLANEOUS	The company shall strictly follow all the recommendmentioned in the Charter on Corporate Responsibility Environment Protection (CREP) published by the Cer Control Board, as may be applicable.	for
	Submission: Complied nmendations mentioned in the CREP	are being complied.	Date: 01/06/2024
5	PUBLIC HEARING	All issues raised during the public hearing shall be a comprehensively.	ddressed
	Submission: Complied ues raised during the public hearing	have been addressed comprehensively. Complied.	Date: 01/06/2024
7	MISCELLANEOUS	The RIL-DMD shall provide adequate funds for environment protestion. The funds earmarked for environment protestall be maintained, in a separate account and there she diversion of these funds for any other purpose.	ection measure
Adequ		plementing the environmental management and is used re incurred to comply with the conditions stipulated by	Date: 01/06/2024

MoEF&CC / SEIAA / GPCB for the period Oct'23 - Mar'24 is about INR. 53.4 Crore. Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 20.53 Lakhs • Online Continuous emission and effluent monitoring systems - INR 34.36 Lakhs • Pollution control systems (Effluent treatment & management / APCM) - INR 50.55 Lakhs • Waste management - INR 54.79 Lakhs • Green belt development - INR 97.04 Lakhs Complied. The RIL-DMD shall regularly submit the half-yearly compliance report on the conditions stipulated in hard and soft copies to the 8 Statutory compliance 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 MoEF&CC regularly. Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/87 dated 28th Date: November, 2023 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-01/06/2024 DMD/HSEF/ENV/2023/85 dated 28th November, 2023 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.

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&E department during review period.

Date: 01/06/2024

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 2022-23 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. Complied.

MISCELLANEOUS

13

Date: 01/06/2024

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. Complied.

Date: 01/06/2024

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:
01/06/2024

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

		Hazardous Wastes (Management Handling and Transle Rules. 2008 along with their amendments and rules.	ooundary)
PPs S Noted.	Submission: Complied		Date: 01/06/2024
14	MISCELLANEOUS	A separate budget shall be earmarked for environme management and socio-economic activities and details be furnished to the Forests and Environment Departme well as the MoEF, Gol. The details with respect to the from this budget head shall also be furnished.	s thereof shall ent, SEIAA as
Adequate conon MoEF& the majbelow: monito manage	nic activities. Recurring expenditur &CC / SEIAA / GPCB for the period jor areas where environment expen • Environment monitoring – INR 3 bring systems – INR 46.27 Lakhs •	mplementing environmental management and socio- re incurred to comply with the conditions stipulated by od Oct'23 – Mar'24 is about INR. 108.3 Crore. Some of aditure incurred during Oct'23 – Mar'24 is appended 31.49 Lakhs • Online Continuous emission and effluent Pollution control systems (Effluent treatment & res • Waste management – INR 73.24 Lakhs • Green belt d.	Date: 01/06/2024
15	MISCELLANEOUS	No further expansion or modifications or developme cause environmental impacts shall be carried out with prior clearance from the concerned authority.	
			1
Expans		MD complex has been carried out after obtaining the under the EIA Notification, 2006. Complied.	Date: 01/06/2024
Expans	sion or Modification of the RIL-DN		01/06/2024
Expans require	sion or Modification of the RIL-DN and Environmental Clearance (EC) u	The project authorities shall also adhere to the stipul the Gujarat Pollution Control Board.	01/06/2024 ations made t
Expans require	sion or Modification of the RIL-DM de Environmental Clearance (EC) u Statutory compliance Submission: Complied	The project authorities shall also adhere to the stipul the Gujarat Pollution Control Board.	onal Office o
Expans require 16 PPs S All the	Submission: Complied MISCELLANEOUS Submission: Complied Submission: Complied	The project authorities shall also adhere to the stipul the Gujarat Pollution Control Board. Onsent is being complied with. The project authorities shall inform the GPCB. Regi MoEF and SEIAA about the date of financial closure approval of the project by the concerned authorities ar	Date: 01/06/2024 ations made to Date: 01/06/2024 onal Office or and final and the date of Date: Date:
Expans require 16 PPs S All the	Submission: Complied MISCELLANEOUS Submission: Complied Submission: Complied	The project authorities shall also adhere to the stipul the Gujarat Pollution Control Board. Onsent is being complied with. The project authorities shall inform the GPCB. Regi MoEF and SEIAA about the date of financial closure approval of the project by the concerned authorities ar start of the project	onal Office of and final and the date of the the RIL-DMI

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.

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 & 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 today by Reliance Foundation not only in our area but for entire India. Photographs of some of the activities are enclosed as Annexure LXXXIV. Complied.

Date: 01/06/2024

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: 01/06/2024

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 MoEF&CC / SEIAA / GPCB for the period Oct'23 – Mar'24 is about INR. 108.3 Crore. Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 31.49 Lakhs • Online Continuous emission and effluent monitoring systems – INR 46.27 Lakhs • Pollution control systems (Effluent treatment & management / APCM) – INR 102.71 Crores • Waste management – INR 73.24 Lakhs • Green belt development – INR 2.83 Crores Complied. Funds allocated for Environmental Management is used only for that purpose and not diverted for any other use. Complied.

Date: 01/06/2024

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 information has already been submitted to the Regional Office of the MoEF&CC, Bhopal. Complied.

Date: 01/06/2024

23 MISCELLANEOUS

This environmental clearance is valid for five years from the date of

		issue.	
PPs S Noted.	Submission: Complied		Date: 01/06/202
24	MISCELLANEOUS	The above conditions will be enforced, inter-alia uprovisions of the Water (Prevention and Control of F 1974, the Air (Prevention and Control of Pollution) A Environment (Protection) Act. 1986, Municipal Solia (Management and Handling) Rules, 2000 and the Pu Insurance Act. 1991 and the Rules made there under time.	Pollution) Act, Act, 1981, the d Wastes blic Liability
PPs S Noted	Submission: Complied		Date: 01/06/202
25	MISCELLANEOUS	Any appeal against this environmental clearance sh National Green Tribunal, if preferred, within a perior prescribed under Section 16 of the National Green T 2010.	d of 30 days as
	Submission: Complied		Date: 01/06/202
Noted.			01700

Last Site Visit Report Date:

Additional Remarks:

Visit R	emarks
	N/A

DMD Annexures are attached as Additional Document

Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

Acknowledgment

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

Plot / Survey / Khasra
No.

State

GUJARAT

MoEF File No.

J-11011/39/2016-IA-II

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

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

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a 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	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 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. Detailed AAQ Monitoring data can be referred as Annexure VI. Emissions from the stacks 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 prescribed standard. Detailed stack emission monitoring report is enclosed as Annexure III. 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 MoEF&CC, Bhopal / CPCB on six monthly basis and to Gujarat Pollution Control Board on monthly basis.

Date: 01/06/2024

2 AIR QUALITY
2 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: 01/06/2024

3

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 Oct'23 – Mar'24 was 89,332 m³/day which is not exceeding the permissible limit of 1,38,700 m³/day as prescribed under Consolidated Consent & 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 Oct'23 – Mar'24 is presented as below Fresh Water Consumption (m³/day) >Prescribed Limit Avg Min Max; >1,38,700 89,332 82,008 94,667; No ground water is used for the project. The water requirement for the project is met through existing Narmada water.

Date: 01/06/2024

4

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: 01/06/2024

5

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: 01/06/2024

6

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: 01/06/2024

7

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: 01/06/2024

8

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), 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. • Date: Provision of emergency alert system like sirens, announcement etc and ensuring their healthiness. 01/06/2024 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 & 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. Compliance to all the environmental conditions stipulated in the earlier environmental clearance shall be satisfactorily implemented 9 Statutory compliance and compliance reports submitted to the Ministry's Regional Office at Bhopal. PPs Submission: Complied All the environment conditions stipulated in earlier Environment Clearances are complied with. Six Date: monthly compliance reports of all the ECs are being submitted to MoEF&CC Bhopal regularly for 01/06/2024 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 pollution control and monitoring equipments shall be installed, tested and interlocked with the process. SPCB shall grant 'Consent to 10 **MISCELLANEOUS** 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 equipment's like Bag filters, absorbers, scrubbers, cyclone separator etc. are already installed, tested and interlocked with process to control Date: process emissions. Consent to Establish (CTE) for proposed debottlenecking and expansion project 01/06/2024 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 & Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026. AIR QUALITY The fuel used for the proposed project shall largely ethane, lean gas, 11 MONITORING AND & off ga **PRESERVATION** Date: **PPs Submission:** Complied 01/06/2024 The clean fuels e.g. Ethane, lean gas, & off gas etc. is used as fuel in existing plants and will be continued for the proposed project. Occupational health surveillance of the workers shall be done on a 12 **Human Health Environment** regular basis and records maintained as per the Factories Act. Date: PPs Submission: Complied 01/06/2024 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. The same will be extended to proposed project. 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.

13

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 & Authorization (CCA) Order No. AWH-121992 dated 25th November 2022, valid up to 3rd November, 2026 is 51,002 m³/d. Effluent generation quantity for the existing plant prescribed under Consolidated Consent & 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 Oct'23 – Mar'24 is given below: > Description; Permissible Limit (m³/day); Avg; Min; Max; Effluent Generation 51,002 36,435 32,890 39,316 From the above table it can be seen that the average effluent generation rate from the complex for the period Oct'23 – Mar'24 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 MoEF&CC / CPCB / GPCB. The photographs of existing ETP & RO Plant is annexed as Annexure XXV. >Description Permissible Limit (m³/day) Average (m³/day); >Quantity of Effluent Recycle 14,710 18,338 Details of the above Treated Effluent Monitoring Results is enclosed as Annexure

Date: 01/06/2024

14

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: 01/06/2024

15

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 & 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: 01/06/2024

16

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 & 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: 01/06/2024

17 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 Oct'23 – Mar'24: Around 8,000 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: 01/06/2024

18

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: 01/06/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	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.

Date: 01/06/2024

2 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 respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance shall be posted on the website of the company.	of
Six mo Compl Novem DMD/A Also Si submit	iance report was submitted vide ou iber, 2023 to SEIAA and Gujarat P HSEF/ENV/2023/85 dated 28th No tacks, Ambient Air Quality Effluen	oring data is submitted to MoEF&CC regularly. Last r letter no. RIL-DMD/HSEF/ENV/2023/87 dated 28th collution Control Board and vide letter no. RIL-ovember, 2023 to Integrated Regional office of MoEF&CC. at, Noise monitoring reports & Hazardous reports are of of submission of last EC Compliance report is enclosed	Date: 01/06/2024
3	Statutory compliance	The environmental statement for each financial year March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sl on the website of the company along with the status of environmental clearance conditions and shall also be srespective Regional Offices of MoEF by e-mail.	the concerned Environment hall also be pure f compliance of
For exi prescri the fina	bed Form-V is submitted to the Gu	tement for each financial year ending 31st March in jarat Pollution Control Board. Environment Statement for via letter no RIL-DMD/HSEF/ENV/2023/68 dated 25th s Annexure LXXXVIII.	Date: 01/06/2024
4	Statutory compliance	The project proponent shall inform the public that the been accorded environmental clearance by the Ministry the clearance letter are available with the SPCB/Commalso be seen at Website of the Ministry at http://moef.shall be advertised within seven days from the date of clearance letter, at least in two local newspapers that a circulated in the region of which one shall be in the velanguage of the locality concerned and a copy of the sforwarded to the concerned Regional Office of the Ministry	ry and copies on the and may nic.in. This issue of the are widely ernacular ame shall be
The pu India & enclose	z Gujarati Newspaper – Divyabhas	notice published in English Newspaper – The Times of kar on 10th & 11th April 2017 respectively which is y of the same has already been submitted to the Regional r letter dated 13th April 2017.	Date: 01/06/2024
5	MISCELLANEOUS	The project authorities shall inform the Regional Of the Ministry, the date of financial closure and final approject by the concerned authorities and the date of staproject.	proval of the
PPs S	Submission: Complied ied	<u>'</u>	Date: 02/01/2024
	Submission: Complied Concerned authorities will be info	rmed.	Date: 01/06/2024
	Statutory compliance	The project authorities must strictly adhere to the sti	pulations mad

PPs Submission: Complied

For existing plants, as mentioned in above conditions and the summary of environmental monitoring 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 & Authorisation) order no AWH-121992 dated 25th November 2022 which is valid up to 3rd November, 2026 are strictly adhered to.

Date: 01/06/2024

7

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. Details of AAQ Monitoring data can be referred as Annexure VI.

Date: 01/06/2024

8

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: 01/06/2024

9

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 & Rules. Records of various trainings imparted to all is enclosed as Annexure LIX. Above mentioned points / measures will be extended to proposed project.

Date: 01/06/2024

10

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 MoEF&CC. 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

Date: 01/06/2024

only after obtaining the prior approval from MoEF&CC / 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.

AIR QUALITY
11 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 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. Details of AAQ Monitoring data can be referred as Annexure VI.

Date: 01/06/2024

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 MoEF&CC recognized & 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). MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Detailed noise monitoring report is enclosed as Annexure XIV.

Date: 01/06/2024

13

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: 01/06/2024

14

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 2 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 & 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: 01/06/2024

15 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: 01/06/2024

16

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 & 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.

Date: 01/06/2024

17

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 MoEF&CC / SEIAA / GPCB for the period Oct'23 – Mar'24 is about INR. 108.3 Crore. Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 31.49 Lakhs • Online Continuous emission and effluent monitoring systems – INR 46.27 Lakhs • Pollution control systems (Effluent treatment & management / APCM) – INR 102.71 Crores • Waste management – INR 73.24 Lakhs • Green belt development – INR 2.83 Crores

Date: 01/06/2024

Visit Remarks

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

Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

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

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a per CTO
1	Ethane/ Propane	Tons per Annum (TPA)	N/A	6,50,000	0	
2	Propylene	Tons per Annum (TPA)	N/A	1,60,000	19,480	
3	Mixed C4+	Tons per Annum (TPA)	N/A	47,450	16,420	
4	Ethylene	Tons per Annum (TPA)	N/A	7,00,000	4,30,513	
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	PEG	Tons per Annum (TPA)	N/A	19,850	0	
14	Ethylene Vinyl Acetate (EVA)	Tons per Annum (TPA)	N/A	15,000	0	
15	PTA	Tons per Annum (TPA)	N/A	65,00,000	25,66,340	
16	Crude Benzoic Acid Mix	Tons per Annum (TPA)	N/A	1,20,000	15,157	
17	Coal Based Power	MW	N/A	270	-	
18	Tri Ethylene Glycol	Tons per Annum (TPA)	N/A	1,270	663	
19	Chlorine	Tons per Annum (TPA)	N/A	1,87,000	1,50,343	
20	Caustic Soda	Tons per	N/A	2,21,000	1,69,331	

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: 31/05/2024

2

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. Being Complied.

Date: 31/05/2024

3

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: 31/05/2024

4

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. Complied

Date: 31/05/2024

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 2 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 & well-experienced managers who also carry out the sample analysis. The Laboratory Head directly reports to the Technical Head of the complex. Complied.

Date: 31/05/2024

6

5

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 13 crew members / officers in each shift round the clock. The same will be extended to proposed project, Complied.

Date: 31/05/2024

7

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 & TSS analyzers are provided at the outlet of the ETP. Photograph of online monitoring system and analyzer room can be seen in Annexure XLV. Being Complied.

Date: 31/05/2024

8

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. The same will be extended to proposed project. All workers & employees are provided with required safety kits/mask for personal protection. Complied.

Date: 31/05/2024

9

Statutory compliance

The National Emission Standards for Petrochemical (Basic &

	Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9 November, 2012 as amended time to time shall be followed.		
Propos stacks Netel (standar values to the s Emissi emissi	are monthly monitored through MoEF& India) Limited, Navi Mumbai and its red. All results are conforming to the state of process stacks for the reporting period standards prescribed. Detailed stack emon levels are displayed at a convenient	plant / complex is yet to be started. Emissions from the &CC recognized & NABL accredited laboratory M/s esults indicate the conformance to the prescribed ndards prescribed. Review of monthly monitored od Oct'23 – Mar'24 shows all results are conforming ission monitoring report is enclosed as Annexure III. location near the main gate of the company. Stack y submitted to the Regional Office of the MoEF&CC, GPCB on monthly basis. Complied.	Date: 31/05/2024
10	Risk Mitigation and Disaster Management	Recommendations of mitigation measures from poss shall be implemented based on Risk Assessment studie through 3D modeling for worst case scenarios using la	es conducted
	Submission: Complied ed expansion of DMD petrochemical p	plant / complex is yet to be started. Being Complied	Date: 31/05/2024
11	Risk Mitigation and Disaster Management	Hazardous chemicals shall be stored in tanks, tank farms, drun carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	
For ext per per transfe F. No.	mission granted by PESO. Flame arres rred by pumps. For details please refer	are stored in tanks, tank farms, drums, carboys etc. as ters are already provided on tanks. Solvent is being to Sr. No. A (X) of compliance report of EC Order no April 2017. The same will be continued for proposed	Date: 31/05/2024
12	AIR QUALITY MONITORING AND PRESERVATION	Regular VOC monitoring shall be done at vulnerable	e points.
Propose monitor accredithe GP Limite plant use color order to the property of	oring in ambient air is being done regulated laboratory M/s Netel (India) Limited CB / MoEF&CC. MoEF&CC recognited is enclosed as Annexure II VOCs at tender the Leak detection and Repair Proposed as Annexure XIX. For details pleated	plant / complex is yet to be started. VOCs (Benzene) arly through MoEF&CC recognized & NABL ed, Navi Mumbai and the results are being submitted to ion letter and NABL certificate of M/s Netel (India) he process areas are also being monitored in every ogram (LDAR). Typical LDAR Report of one the plant use refer to Sr. No. A (IV) of compliance report of EC ted 03rd April 2017. The same will be continued for	Date: 31/05/2024
13	WASTE MANAGEMENT	The oily sludge shall be subjected to melting pit for and the residue shall be bio- remediated. The sludge shall be bio- remediated to melting pit for and the residue shall be bio- remediated. The sludge shall be bio- remediated. The sludge shall be bio- remediated.	nall be stored
	Submission: Complied ed expansion of DMD petrochemical p	plant / complex is yet to be started. Will be complied	Date: 31/05/2024
14	WASTE MANAGEMENT	The company shall undertake waste minimization mediators a)Metering and control of quantities of active is minimize waste. b)Reuse of by-products from the process materials or as raw material substitutes in other process automated filling to minimize spillage. d)Use of Close	ngredients to sess as raw ses. c)Use of

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 ingredients to ensure waste minimization. Will be continued for the proposed project. Complied. Proposed expansion of DMD petrochemical plant / complex is yet to be implemented. Will be complied Automated and enclosed material transfer system implemented to minimize spillages. Proposed expansion of DMD petrochemical plant / complex is yet to be started Complied. Proposed expansion of DMD petrochemical plant / complex is yet to be started. Will be complied Will be considered during design stage of proposed project. The proposed project is yet to be started. Will be complied The proposed project is yet to be started. Will be complied

Date: 31/05/2024

15 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% 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. Complied.

Date: 31/05/2024

16 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. Complied

Date: 31/05/2024

17 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: 31/05/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	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 S Noted.	Submission: Complied		Date: 31/05/2024	
2	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.		
The pul India & Annexu	z Gujarati Newspaper – Gujarat Samacl	e published in English Newspaper – The Times of har on 24th August 2021, which is enclosed as dy been submitted to the Regional Office of the August 2021. Complied.	Date: 31/05/2024	
3	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, 201 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.		
PPs S Noted.	Submission: Complied		Date: 31/05/2024	
4	Statutory compliance	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall 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 submittee 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.		
No furt without petroch only aft and 202	t prior approval of MoEF&CC. This EC nemical complex for which RIL-DMD I ter obtaining the prior approval from M 21. No changes / deviations / alteration	rochemical plants at RIL-DMD have been carried out C is also issued for expansion of our existing has got the EC in 1991 and expansion was carried out IoEF&CC / SEIAA in 2007, 2008, 2011, 2015,2017 in the project proposal from those submitted to the DMD complex during the review period. Complied.	Date: 31/05/2024	
5	ENERGY PRESERVATION MEASURES	The energy source for lighting purpose shall be pref based, or advanced having preference in energy conse environment betterment.		
Will be LED lig		posed project Energy conservation methods like use of ant peripheral lighting, programmable timers for nted. Complied.	Date: 31/05/2024	
6	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 MoEF&CC recognized & NABL accredited laboratory M/s Date: Netel (India) Limited, Navi Mumbai and it conforms to the standard prescribed under EPA Rules, 31/05/2024 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. MoEF&CC recognition letter and NABL certificate of M/s Netel (India) Limited is enclosed as Annexure II. Results indicate that the ambient noise levels during the reporting period Oct'23 – Mar'24 has not exceeded the prescribed limit. Detailed noise monitoring report is enclosed as Annexure XIV. Complied. 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 Corporate Environmental 7 administration and shall be implemented. The company shall Responsibility 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 Date: surrounding area. CSR activities are undertaken by involving local villages and administration. 31/05/2024 Further, RIL is committed to our Corporate Social Responsibility (CSR) activities for creating, maintaining and sustaining safe & 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. Complied. 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 **MISCELLANEOUS** as the State Government alonQ with the implementation schedule for 8 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 Date: stipulated by MoEF&CC / SEIAA / GPCB for the period Oct'23 - Mar'24 is about INR. 108.3 31/05/2024 Crore. Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below: • Environment monitoring – INR 31.49 Lakhs • Online Continuous emission and effluent monitoring systems - INR 46.27 Lakhs • Pollution control systems (Effluent treatment & management / APCM) - INR 102.71 Crores • Waste management - INR 73.24 Lakhs • Green belt development – INR 2.83 Crores Complied. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, 9 **MISCELLANEOUS** Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. Date: PPs Submission: Complied

31/05/2024 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 Complied. 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 10 well as by e-mail) to the respective Regional Office of MoEF&CC, Statutory compliance 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 MoEF&CC, Gandhinagar and CPCB / GPCB / SEIAA regularly. Last Compliance report was Date: submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/87 dated 28th November, 2023 to SEIAA 31/05/2024 and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/85 dated 28th November, 2023 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 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. Complied. 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 11 Statutory compliance (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 Date: submitted to the Gujarat Pollution Control Board. Environment Statement for the financial year 31/05/2024 2022-23 was submitted via letter no RIL-DMD/HSEF/ENV/2023/68 dated 25th September, 2023. 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. Complied. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the **MISCELLANEOUS** 12 project by the concerned authorities and the date of start of the project. Date: PPs Submission: Complied 31/05/2024 Noted. Concerned authorities will be informed. 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 13 **MISCELLANEOUS** Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory. Date: PPs Submission: Complied

31/05/2024

Noted.

14	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.
	abmission: Complied dition is not applicable to us.	Date: 31/05/2024
15	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 Su Noted.	abmission: Complied	Date: 31/05/2024
		Visit Remarks
Last Site	Visit Report Date:	N/A
Additiona	l Remarks:	DMD Annexures are uploaded as Additional Attachment.

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

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.

Sr. No.	CCA Conditions	Complian	ce Status of	CCA Condit	ions
I.	Consent Amendment Order No : AWH-121992, date of Issue 25/11/2022				
1.	SPECIFIC CONDITIONS				
a)	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.	Complied.			
b)	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.	Complied.			
c)	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.	All the conditions of Environment C F.No.J-11011/39/2 complied with.	Clearance (É	C) issued vid	de letter no.
d)	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.			
2.	CONDITION UNDER THE WATER ACT:				
2.1	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:	The summary of Domestic water consumption reporting period of Oct'23 – Mar'24 is present			
	as under: a. Domestic: 2100 KL/Day (Existing 2100	Dom	estic Water C (KL/da	-	
	KLD+ Proposed: NIL) b. Industrial: 1,36,600 KL/Day (Existing	Prescribed Limit	Avg	Min	Max
	1,35,900 KLD + Proposed 700 KLD)	2100	904	858	959
	Total: 1,38,700 KL/Day (Existing 1,38,000 KLD + Proposed 700 KLD)	The summary of reporting period of below:			

		Fres	h Water Cor (KL/day		
		Prescribed Limit	Avg	Min	Max
		1,38,700	89,332	82,008	94,667
		Complied.			
	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)	Average domestic vand waste water go reporting period of the permissible limit Data for domestic Oct'23 – Mar'24 is submitted to GPCB	eneration wa Oct'23 – Ma of 51,002 has effluent gen presented b	as 36,435 k ar'24 which <l day.<br="">neration qu elow which basis.</l>	(L/day during is well within antity for the is also being
	Total: 51,002 KL/Day (Existing 50,802 KLD +		(KL/da		•
	Proposed 200 KLD)	Permissible Limit	Avg	Min	Max
2.2		1680	498	314	549
		Data for effluent generation quantity for the Oct'23 – Mar'24 is presented below which is also being submitted to GPCB on monthly basis. Effluent Generation			
			(KL/da		1
		Permissible Limit	Avg	Min	Max
		51,002	36,435	32,890	39,316
2.3	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	Complied. Average effluent rearound 18,338 KL/ Mar'24, out of the strom complex, 18,4 discharged into the through the existing with multiport diffus. The summary for period Oct'23 – Mar	day. In the 36,435 KL/day PKL/day e deep se effluent diser.	review per lay of efflue of treated ea (Gulf o sposal pipel t data for	riod Oct'23 – ent generated effluent was f Khambhat) line equipped
	after conforming norms as per previous CCA shall be discharged into the deep sea (Gulf of Khambhat) through the existing effluent disposal	Aspect		ible Limit /day)	Avg. Quantity (KL/day)
	pipeline equipped with multiport diffuser. After conforming norms as per previous CCA, cooling	Effluent Generation	51	,002	36,435
	tower blowdown shall be discharged into the deep sea (Gulf of Khambhat) through the	Effluent Discharge	36	,292	18,097
	existing effluent disposal pipeline equipped with	Effluent Recycle		,710	18,338
	multiport diffuser.	Percentage of Effluen Recycling	30	0 %	50%
		It can be seen from treated Effluent recommendation possible. Treated effluent is through MoEF&CC	cycling is do	one to max itored on n	imum extent

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 Oct'23 – Mar'24 is presented below.

Parameter	Unit	GPCB Consent	Avg	Min	Max
,		Limit			
pН	-	5.5-9.0	7.91	7.72	8.20
Colour and odour	-	All efforts shall be made to remove colour and unpleasa nt odour as far as practicab le.	Colorle	ss and Odd	ourless
Suspended Solids	mg/l	100	22.50	19.00	25.00
Temperature	o C	Shall not exceed 5°C above the receiving water temperat ure	28.48	27.40	29.60
Oil & Grease	mg/l	20	< 0.2	< 0.2	< 0.2
Total Residual Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1
Ammonical Nitrogen (as N)	mg/l	50	13.13	12.50	14.30
Total Kjeldahl Nitrogen(as NH3)	mg/l	100	17.62	5.10	32.40
Free Ammonia (as NH3)	mg/l	5	< 0.1	< 0.1	< 0.1
Biochemical Oxygen Demand	mg/l	100	39.37	34.20	42.50
Chemical Oxygen Demand	mg/l	250	147.00	124.00	172.00
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	1.18	1.10	1.30
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	0.28	0.21	0.35	
	Sulphides	mg/l	5	< 0.1	< 0.1	< 0.1	
	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	0.93	0.60	1.30	i
	Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004	
	Nitrate Nitrogen	mg/l	20	10.00	6.00	13.00	1
•	Bioassay Test	-	90% survival of fish after 96 hours in 100% effluent	,	vival of fish 00% effluer		

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.	Name of fuel	Quantity			
No.	Name of fuel				
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 Oct'23 – Mar'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.	4.57 MT/hr
3	Gaseous Fuel - Lean Gas or Residue Gas , Ethane, NG etc.	20.26 MT/hr
4	Coal	143.85 MT/hr
5	Biomass in available form for Coal Based Captive Co-generation Plant (CCPP)	27.78 MT/hr

Complied.

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 Oct'23 – Mar'24 is presented below.

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)	Param eter	Permissi ble Limit
14	Incinerat or (VCM Plant)	65	DM Water & Caustic Scrubber (HCI	PM S02	150 mg/Nm3 40 mg/Nm3
	, , , , , ,		Scrubber), Low N0x	NOx	25 mg/Nm3
			burner	CO C12	150 mg/Nm3 10
				НС	mg/Nm3 15 mg/Nm3
				HCI	30
				VCM	mg/Nm3 6.6 mg/Nm3

s f	Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
r		PM (mg/Nm ³)	150	3.22	2.38	4.25
t		SO ₂ (mg/Nm ³)	40	6.80	5.45	8.46
-		NOx (mg/Nm ³)	25	17.29	12.32	20.74
ı	VCM - Stack	Cl ₂ (mg/Nm ³)	10	<1.0	<1.0	<1.0
(attached to Incinerator VCM Plant — Stack attached to	HCI (mg/Nm ³)	30	2.38	2.10	2.76
		CO (mg/Nm ³)	150	1.24	1.18	1.35
		HC (mg/Nm ³)	15	2.38	2.14	2.73
ij		VCM (mg/Nm ³)	6.6	<1.5	<1.5	<1.5
t		Cl2 (mg/Nm ³)	10	<1.0	<1.0	<1.0
		HCI (mg/Nm ³)	30	2.60	2.41	2.76
	Vent Scrubber Chlor Alkali Plant - Stacks Attached to Hypo and HCI synthesis Unit	HC (mg/Nm ³)	15	< 0.2	< 0.2	< 0.2
		Cl ₂ (mg/Nm ³)	9	<1.0	<1.0	<1.0
		HCI (mg/Nm ³)	20	2.83	2.15	3.86
		PM (mg/Nm ³)	150	3.43	2.75	3.85
	PVC Plant-	SO ₂ (ppm)	100	8.22	6.42	9.54
	Stacks attached to	NOx (ppm)	50	20.55	15.32	24.36
_	PVC Dryers	CO (mg/Nm ³)	150	2.36	2.24	2.63
		VCM (mg/Nm ³)	6.6	<1.5	<1.5	<1.5
	PTA Plant - Stacks	PM (mg/Nm ³)	150	3.15	2.12	3.83
	attached to Off gas	SO ₂ (mg/Nm ³)	40	<5	<5	<5
	scrubber, atmospheric scrubber and vent scrubber	NOx (mg/Nm³)	25	<4	<4	<4

3.3 The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder:

Sr. No.	Parameters	Permissible Limit (microgram/M3)	
		Annual	24 Hours Average
1.	Particulate Matter (PM10)	60	100
2.	Particulate Matter (PM2.5)	40	60
3	Oxides of Sulphur (Sox)	50	80
4.	Oxides of Nitrogen (NOx)	40	80

- 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.

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	62.70	43.00	76.00
PM _{2.5}	60 μg/m ³	23.06	10.00	38.00
SO ₂	80 μg/m ³	22.63	12.90	31.50
NOx	80 μg/m ³	29.49	20.00	37.60

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

Complied.

3.4 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.

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 Oct'23 – Mar'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 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.

II. Consent Order No : AWH-111189, date of Issue 16/01/2021

2.	The consent under Water Act –1974 shall be valid up to 03/11/2026 for the use of outlet for	Products are being mentioned in the control		ed as per det	ails
	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	Complied.			
	mentioned in consent condition.				
SPEC	CIFIC CONDITIONS				
a)	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.	All the conditions stipulated by SEIAA / MoEF in the order of Environment Clearance issued vide letter n F.No.J-11011/39/2016-IA-II(I), dated 03/04/2017 a complied with.			le letter no.
		Complied.			
b)	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.	Complied.			
c)	Unit shall follow coal handling guideline framed by Board and provide close ash handling system.	Fully covered dedicated coal storage and handling shis provided and coal handling guidelines framed by board are complied with.			
		Close ash handlin	g system is a	ilso provided.	
d)	Unit shall install online Continuous Emission	Complied.	sion Monitor	ing Systems	(CEMS) is
u)	Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for	Continuous Emission Monitoring Systems (CEMS) i installed and linked with the server of GPCB for reatime data transfer.			
	boiler more than 8 TPH capacity or equivalent capacity of TFH.	Complied.			
3.	CONDITION UNDER THE WATER ACT	r complica.			
3.1	The quantity of total fresh water consumption shall not exceed 1,38,000 KL/day.	otal fresh water consumption Average fresh water re-			
		Fre	esh Water Co	nsumption	
			(KL/da		
		Prescribed Limit	Avg	Min	Max
		1,38,000	89,332	82,008	94,667
				<u>. </u>	
3.2	The quantity of total waste water generation shall not exceed 50,802 KL/day.	Complied. Average waste was of Oct'23 – Mar'2 within the permiss	24 was 36,4	35 KL/day w	hich is well
		Data for effluent Mar'24 is prese submitted to GPC	nted below	which is	
		Effluent Generation			
			(KL/da	ay)	
		Permissible Limit	(KL/da	Min	Max
			,		Max 39,316

3.3 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.

Average effluent recycle quantity from the complex is around 18,338 KL/day. In the review period Oct'23 – Mar'24, out of the 36,435 KL/day of effluent generated from complex, 18,097 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 Oct'23 – Mar'24 is given as below:

Aspect	Permissible Limit (KL/day)	Avg. Quantity (KL/day)
Effluent Generation	50,802	36,435
Effluent Discharge	36,292	18,097
Effluent Recycle	14,510	18,338
Percentage of Effluent Recycling	30 %	50%

It can be seen from the above data table that the treated Effluent recycling is done to maximum extent possible.

Complied.

3.4 TRADE EFFLUENT

3.4.1 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.

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 Oct'23 – Mar'24 is presented below.

Parameter	Unit	GPCB Consent Limit	Avg	Min	Max
рН	-	5.5-9.0	7.91	7.72	8.20
Colour and odour	1	All efforts shall be made to remove colour and unpleasa nt odour as far as practicab le.	Colorle	ss and Odc	ourless
Suspended Solids	mg/l	100	22.50	19.00	25.00
Temperature	o C	Shall not exceed 5°C above the receiving water temperat	28.48	27.40	29.60

		ure			
Oil & Grease	mg/l	20	< 0.2	< 0.2	< 0.2
Total Residual					
Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1
Ammonical Nitrogen (as N)	mg/l	50	13.13	12.50	14.30
Total Kjeldahl Nitrogen(as NH3)	mg/l	100	17.62	5.10	32.40
Free Ammonia (as NH3)	mg/l	5	< 0.1	< 0.1	< 0.1
Biochemical Oxygen Demand	mg/l	100	39.37	34.20	42.50
Chemical Oxygen Demand	mg/l	250	147.00	124.00	172.00
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	1.18	1.10	1.30
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	0.28	0.21	0.35
Sulphides	mg/l	5	< 0.1	< 0.1	< 0.1
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	0.93	0.60	1.30
Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004
Nitrate Nitrogen	mg/l	20	10.00	6.00	13.00
Bioassay Test	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.				
3.4.4	and r	e effluent treatment units shamaintained efficiently so the nt always conforms to the ed in condition no.3.4.1.	maintained efficiently. The wastewater generated at the						
3.4.5	capac	uard pond having adequents of the condition of the condit	re discharging		d pond having d and operated				
4	CONE	DITIONS UNDER THE AIR A	ACT						
4.1		ollowing shall be used as fue	l.		e quantity of Oct'23 – Mar'24				porting
	Sr. No.	Fuel	Quantity			Fuel		Δνα	Quantity
	1	Liquid Fuel - Naptha/HSD/LDO etc.	48.5 MT/Hr.	1 Lic	uid Fuel - Naptha		CC.		O MT/hr
	2	Gaseous Fuel -Lean Gas, Residue Gas, Ethane, NG etc.	55 MT/Hr.		iseous Fuel -Lean nane, NG etc.	Gas, Residu	e Gas,	4.57	MT/hr
	3	Gaseous Fuel - Lean Gas or Residue Gas , Ethane, NG etc.	21 MT/Hr.	3 Ga	iseous Fuel - Lear nane, NG etc.	Gas or Resi	idue Gas ,	20.26	6 MT/hr
	4	Coal	300 MT/Hr.	4 Co	al			143.8	35 MT/hr
	5	Biomass in available form for Coal Based Captive Co-	60 MT/Hr.		omass in available ptive Co-generation			27.78	3 MT/hr
	6	generation Plant (CCPP) Lime Stone*		6 Lir	ne Stone*			120.5	6 MT/Day
	Limes gener emiss	Bed Material* Ite stone and Bed Material Istone is used in Coal base Ite ation Power Plant as lime in Ite ation control and Bed Mater Iterature control.	d Captive Co- jection for SO ₂	7 Be	d Material*			33.25	MT/Day
4.2	achiev	applicant shall install rehensive adequate air pollu ve prescribed norms control nieve standards.		controlli in the s to achie	te Air Pollutior ng the proces tacks and APO ve the prescrib mary of the fl ns for the peri	s emissior CEs are bo ed standa ue gas e	ns have eing ope rds by G	been presented respectively. BPCB. and P	rovided egularly Process
			Monitori	in Condition no ling results indicare conforming APCEs effici	4.3 and 4.4 icate that to the position to the position to the position.	4. the emis	ssions fro	om the	
				Complie	ed.				
4.3	The flue gas emission through stack attached to boiler / furnace / heater shall conform to the standards as given in CCA:				s emissions the ce / heater a CC recognised el (India) Limite	are regula d & NABL ed, Navi M	arly mol accred lumbai.	nitored lited lab	though oratory
					mary of the f Oct'23 – Mar'24				ioi lile
				Plant	Parameter	GPCB Consent Limit	Avg	Min	Max

	Т	П		1	1	I		
		GCU Plant -	PM (mg/Nm ³)	10	3.14	2.48	3.76	
		Stack attached	SO ₂ (mg/Nm³)	50	6.31	4.36	7.46	
		Furnaces	NOx (mg/Nm³)	350	57.85	51.25	64.13	
		VCM Plant - Stack	PM (mg/Nm³)	10	3.20	2.25	3.92	
		attached to EDC	SO ₂ (mg/Nm ³)	50	7.21	4.75	9.16	
		Furnaces	NOx (mg/Nm³)	350	63.19	55.42	68.74	
		CPP Plant - Stack	PM (mg/Nm³)	10	3.56	3.56	3.56	
		Attached to	SO_2 (mg/Nm 3)	50	6.74	6.74	6.74	
		Boilers/HR SGs/STGs	NOx (mg/Nm³)	350	62.74	62.74	62.74	
		PET-3	PM (mg/Nm³)	10	3.53	3.05	4.10	
		Plant - Stacks attached to	SO ₂ (mg/Nm³)	50	8.47	7.42	9.58	
		Heaters	NOx (mg/Nm³)	350	62.00	53.18	68.36	
		CCPP -	PM (mg/Nm³)	50	22.05	14.53	25.18	
		Stacks attached to	SO ₂ (mg/Nm ³)	600	262.68	245.12	281.46	
		Boilers	NOx (mg/Nm³)	300	74.97	64.65	82.54	
		(" – " : Plant	was not in opera	ation / 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:	of rectors, though M laboratory	ss emission process, an loEF&CC re M/s Netel (I ry of the gatacks for the below.	d vessel a ecognised ndia) Limi aseous ei	are regul & NAI ted, Nav missions	larly moi BL acci i Mumba s from v	nitored redited ni. various	
		Plant	Paramete	GPC r Cons Lim	ent Avg	Min	Max	
			PM (mg/Nm ³	3) 150	3.22	2.38	4.25	
			SO ₂ (mg/Nm	i ³) 40	6.80	5.45	8.46	
			NOx (mg/Nm	1 ³) 25	17.29	9 12.32	20.74	
		VCM - Stack	Cl ₂ (mg/Nm ³) 10	<1.0	<1.0	<1.0	
1		attached to Incinerator					+	
		Incinerator	HCI (mg/Nm	³) 30	2.38	2.10	2.76	
		Incinerator	HCI (mg/Nm				2.76 1.35	
		Incinerator		3) 150		1.18		
		Incinerator	CO (mg/Nm ³	³) 150	2.38	1.18	1.35	
			CO (mg/Nm ² HC (mg/Nm ² VCM (mg/Nr Cl2 (mg/Nr	3) 150 3) 15 m ³) 6.6	2.38	1.18 3 2.14 5 <1.5	1.35	
		VCM Plant – Stack attached to Vent	CO (mg/Nm ² HC (mg/Nm ² VCM (mg/Nr Cl2 (mg/Nr	150 150 150 150 150 150 150 150 150 150	2.38 <1.5 <1.0	1.18 2.14 5 <1.5 <1.0	1.35 2.73 <1.5	

			1		
Scrubber	HC (mg/Nm ³)	15	< 0.2	< 0.2	< 0.2
Chlor Alkali Plant - Stacks Attached to	Cl ₂ (mg/Nm ³)	9	<1.0	<1.0	<1.0
Hypo and HCl synthesis Unit	HCI (mg/Nm ³)	20	2.83	2.15	3.86
	PM (mg/Nm ³)	150	3.43	2.75	3.85
PVC Plant-	SO ₂ (ppm)	100	8.22	6.42	9.54
Stacks attached to	NOx (ppm)	50	20.55	15.32	24.36
PVC Dryers	CO (mg/Nm ³)	150	2.36	2.24	2.63
	VCM (mg/Nm ³)	6.6	<1.5	<1.5	<1.5
PTA Plant - Stacks attached to	PM (mg/Nm³)	150	3.15	2.12	3.83
Off gas scrubber, atmospheric	SO ₂ (mg/Nm ³)	40	< 5	< 5	< 5
scrubber and vent scrubber	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	62.70	43.00	76.00
PM _{2.5}	60 μg/m³	23.06	10.00	38.00
SO ₂	80 μg/m³	22.63	12.90	31.50
NOx	80 μg/m³	29.49	20.00	37.60
O ₃	180 μg/m ³	8.20	4.70	10.50
NH ₃	400 μg/m ³	18.48	10.50	29.40
CO	4 mg/m ³	1.53	1.20	1.86
Benzene	5 μg/m³	< 1.0	< 1.0	< 1.0

		Dh	1	Z 0 1	-01	< 0.1
		Pb As	1 μg/m ³ 6 ng/m ³	< 0.1 < 1.0	< 0.1 < 1.0	< 1.0
		Ni	20 ng/m³	5.32	0.00	8.30
		BAP	1 ng/m ³	< 0.5	< 0.5	< 0.5
		It can be s	seen from the a	above table	that all re	
		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.	are being controlling GPCB pre A summa emissions Condition that the e	and Air Pollution operated very the gaseous scribed standary of the flue for the period no 4.3 and 4 missions from prescribed standard	efficiently a emissions ands. gas emissions of the control of the	nd continuand to aclusions and Mar'24 is ng results	Process given in indicate
		results giv	se refer to the ren in Condition nt air quality is of AAQ.	n no 4.5, w	hich indic	ates that
		continuous emissions	ing all the plan sly, we are a and hence am prescribed by 0	able to co obient air qu	ntrol the	gaseous
		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 conding gaseous tolerance I 4.5 above, the above parameter tolerance	dition is noted emissions are limit specified in The details of econditions is of gaseous limit specified Oct'23 – Mar'24	maintaine n the condit monitoring which indic emissions l by GPCE	ed well wation no 4.3 results are that are well w	vithin the st, 4.4 and e given in the vithin the
		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.	portholes, emissions use of Bo various so identification	nimneys in the ladders, platform. The is accessive to accessive the ladders of the ladders of the ladders.	orm etc. for sible for in e Chimney ssion are	monitorin spection to vents att identified	g the air o/and for ached to and the
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 levels fro Acoustic I provided for ensures the and hence standards dB(A) during the standards for the standards dB(A) during the standards dB(A) du	measures are m all the so noods, silence or all sources on the control of wo prescribed unong day time and	ources with rs, enclosu of high nois orkplace noi oise levels der EPA Ru d 70 dB(A)	nin the pares etc had be generational discourage in the graph of the g	oremises. las been on which eneration to the that is 75 ont time.
			mary of the a period Oct'23 –			

Monitoring Location	Lir	Day Time nit – 75 d		Night Time Limit – 70 dB(A)			
Location	Avg	Min	Max	Avg	Min	Max	
Nr. Ethane Tank	55.3	52.6	57.1	50.1	48.6	51.5	
Site Guest House	51.0	48.9	52.7	48.3	45.2	49.8	
Nr. CCPP	54.1	53.3	54.8	51.1	50.4	52.1	
Nr. PTA	54.6	50.7	59.1	52.2	49.1	54.4	
Nr. ETP Guard Pond	55.8	52.6	58.2	52.1	50.3	54.4	
RDMT Jetty	54.9	51.4	57.3	51.9	48.7	54.2	
Jageshwar village	55.8	53.8	57.4	50.6	48.9	52.7	

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

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 Oct'23 – Mar'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	0.00
2	Oil from wastewater treatment	1.7 / I	124.81
3	Chemical Sludge from Waste water treatment	35.3 / I	182.12
4	ETP Sludge containing polymeric constituents	35.3 / I	12.53
5	Used or Spent oil	5.1 / I	77.89
6	Wastes or residues containing oil*	5.2 / I	13.02
7	Process residues (Residue from Vinyl Chloride Monomer VCM production)	22.2 / 1	4330.67
8	Empty barrels / containers / liners contaminated with hazardous chemicals/ wastes (Discarded Containers)	33.1 / I	75.04
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

	10	Sludge and filters contaminated with oil	3.3 / I	So ever generated		12	Spent ion exchange resin	35.2 / I	27.58
		Spent Carbon		(500) So ever		13	Spent Solvent (Degraded Dowtherm)	20.2 / I	23.11
	11	Spent ion exchange	36.2 / I	generated (500) So ever		14	Cargo / Tank Residue, Washing Water and Sludge containing Oil	3.1 / I	0.00
	12	resin	35.2 / I	generated (500)		15	Cargo / Tank Residue and Sludge containing Chemical	3.2 / I	0.00
	13	Spent Solvent (Degraded Dowtherm)	20.2 / I	216		16	Bilge Water Containing Oil from Ships	3.4 / I	0.00
		Cargo / Tank				Othe	r (Non-Hazardous) Waste		
	14	Residue, Washing Water and Sludge containing Oil	3.1 / I	100		17	Brine Sludge		6385.41
	15	Cargo / Tank Residue and Sludge containing Chemical	3.2 / I	100		18	Polymer Lumps / Sweep Powder Bio sludge from ETP		395.00 3521.05
	16	Bilge Water Containing Oil from Ships	3.4 / I	100	-	19			3521.05
	Othe	er (Non-Hazardous) Was	te			Con	nplied.		
	17	Brine Sludge		15000					
	18	Polymer Lumps / Sweep Powder		4800					
	19	Bio sludge from ETP		18250					
5.2	contan reacto waste tarpau effluer waste The au collect transp Hazard SLF mentic GPCB Inhous & Co-p	dous wastes at com developed by the	oil soake lge from ed filters, eces, oil udge ger t, etc. d to opera the facto mate c mon TS unit at notific dated 05 on incine	d coke, SCO pits & tanks oily soil, oil y mud fron ate facility for ory premises disposal of DF and ow a location eation no 04.1999 an eration facility	O loss, loss	disp auth gen Haz ther	ardous wastes generated a losed based on the metho norisation issued to us. Al erated at site is managed ardous Waste Rules, 201 eof. nplied.	ds prescribed I the hazard in accordan 6 and its a	d under the ous wastes ce with the
	up to 1	16/01/2021.		•					
5.4	stated be spe the En	below and such otherified in the rules fro	ner condit om time t n) Act-19	tions as ma to time unde 86.	ıy er		s condition is noted.		
5.5	IERM	S AND CONDITION	5 UF AU	IHURISAT	ION	4			
5.5.1	inspec	authorization shall tion at the request o Gujarat Pollution Co	f an offic	roduced fo er authorize rd.		requ	authorization is produce uest of any officer auth ution Control Board.		
						Con	nplied.		
5.5.2	and hazard	ersons authorized sh transfer of other dous wastes with ssion of the Gujal	wise tra	ansport th aining pric	e or	All t are Mar	the hazardous wastes gene covered under the Author pagement and Handling of I tes mentioned in the a	rization obtai Hazardous W	ned for the astes. Only

	Board.	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.
554		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	Every expansion and modernisation of the RIL-DMD
	conditions as mentioned in the consents form/order should immediately be intimated to this Board.	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.	
		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	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.
6.6	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.
	30 000	The summary of Ground water monitoring results of Bore Well-1 for the period Oct'23 – Mar'24 is presented

		as below.				
		Parameter	UNIT	Avg	Min	Max
		рН		7.66	7.46	7.82
		Conductivity	μS/c m	1238.83	1118.00	1333.00
		TDS	mg/l	828.83	748.00	896.00
		Turbidity	NTU	5.43	4.90	6.20
		P-alkalinity (as CaCO3)	mg/l	23.97	21.30	28.10
		M-Alkalinity (as CaCO3)	mg/l	42.35	34.50	50.60
		Total Suspended Solids	mg/l	12.00	12.00	12.00
		Total Hardness (as CaCO3)	mg/l	177.40	22.50	285.30
		Ca-hardness as CaCO3	mg/l	122.83	11.60	194.90
	_	Mg hardness (as CaCO3)	mg/l	61.40	10.90	102.30
	-	Chloride (as CI)	mg/l	193.28	176.20	224.10
		Sulphates (as SO4) Free Residual Cl2	mg/l	61.95 < 0.1	52.20 < 0.1	72.30 < 0.1
		Iron (as Fe)	mg/l mg/l	1.95	0.20	3.90
		Chemical Oxygen Demand	mg/l	< 1.0	< 1.0	< 0.1
		"Biochemical Oxygen Demand (3 day at 27°C)"	mg/l	< 1.0	< 1.0	< 0.1
		Carbonate (CO3)	mg/l	22.53	11.80	33.50
		Phosphate (PO4)	mg/l	< 3.0	< 3.0	< 3.0
		Nitrate (NO3)	mg/l	1.33	1.20	1.50
		Fluorides (as F)	mg/l	0.57	0.31	0.66
	_	Bicarbonate (HCO3)	mg/l	59.52	46.30	78.70
	-	Sodium (Na)	mg/l	70.65	47.10	98.40
	-	Potassium (K) Oil & Grease	mg/l	4.80 < 0.2	4.10 < 0.2	5.80 < 0.2
		Phenol	mg/l mg/l	< 0.001	< 0.001	< 0.001
6.8	RIL-DMD shall periodically carry out coastal	Monitoring reports are basis and to MoEF&CC Complied.				nonthly
	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.	·				
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 of processes and vessels norms followed by interpretable by interpretable by the processes and vessels norms followed by interpretable by interpretable by the process of the proces	as per	r the safe al organi	ty practic	es and
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.	Complied. Risk analysis is being of in the complex and prepared and updated complex. Every process activiting handling activities of the chemicals are covered Disaster management.	Disaste by cons es and azardo d in th	er mana sidering a I transpo us waste	gement plactivities rt, storag	olan is s in the ge and cardous
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.	Complied. Awareness session or are conducted for surresame is reported to Factories Act and Rule.	roundin local	g village	people a	and the

	T	T
		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: 4007/154722754/05/000, valid from 1st July 2023 to 30th June 2024. 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.



असाधारण

EXTRAORDINARY

भाग II-खपड 3-उप-खपड (ii)

PART II-Section 3-Sub-section (ii)

प्राधिकार से प्रकाशित PUBLISHED BY AUTHORITY

H. 3404]

नई दिल्ली, शुक्रवार, अक्तूबर 18, 2019/आश्विन 26, 1941

No. 34041

NEW DELHI, FRIDAY, OCTOBER 18, 2019/ASVINA 26, 1941

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 प्रवत्त शक्तियों का प्रयोग करते हुए भारत सरकार के तत्कालीन पर्यावरण और वन मंत्रालय की अधिसूचना संख्यांक का.आ.1174(अ) नारीख 18 जुलाई, 2007 से निस्नालिखित 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 प्रविष्टियाँ रखी जाएंगी, अर्थात् :-

(1)	(2)	(3)	(4)	
"37	मै. नीटेल (इंडिया) लिमिटेड,	(i) श्रीमती श्रद्धा श्रीराम के रे	17 अस्वर, 2019 से	
	डक्ल्यू-408, राबेल एगआईडीसी, टीटीसी ईडस्ट्रियल	(ii) सुन्ती नीलिमा घोडुराम दाल्बी	16 अत्वर, 2024"	
	एरिया, नदीं मुंबई-400701-महाराष्ट्र ।	(iii) सुधी सुरेखा कीताराम जामदार		

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

जिगमेट टक्पा, संयुक्त सचिव

टिप्पण: मृत्व अधिसूचना भारत के राजपच, असाधारण, का.आ.1174(अ), तारीख 18 ज्लाई 2007 द्वारा प्रकाशित की गई श्री 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.	(i)	Mrs. Shraddha Sriram Kere	17th October,2019
		W-408, Rabale MIDC, TTC Industrial Area,	(ii)	Ms. Neelima Dhonduram Dalvi	То
1		Navi Mumabi-400701, Maharashtra	(iii)	Ms. Surekha Sitaram Jamdar	16 th 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.





National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

NETEL (INDIA) LTD.

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, RABALE MIDC, NAVI MUMBAI, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-6709

Issue Date: 17/06/2022 Valid Until: 16/06/2024

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: NETEL (INDIA) LTD.

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer

Annexure III

Stack Emission Monitoring Report

(October 2023 – March 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/N m³	50 mg/Nm³	350 mg/Nm ³	10 mg/Nm³	50 mg/Nm	350 mg/Nm	10 mg/Nm	50 mg/Nm³	350 mg/Nm			
Oct-23	2.71	6.83	57.12	2.95	6.18	56.54	2.74	6.16	51.25			
Nov-23	3.32	6.67	55.62	3.61	6.43	57.83	2.87	5.83	52.27			
Dec-23	3.23	6.42	53.15	3.39	6.12	56.19	3.16	6.23	58.42			
Jan-24	2.81	6.74	57.15	3.54	6.32	61.28	3.76	7.14	63.75			
Feb-24	3.27	4.36	59.62	2.85	4.91	62.25	2.48	5.32	64.13			
Mar-24	3.61	6.83	56.47	3.32	6.63	60.59	2.81	7.25	63.74			
Min	2.71	4.36	53.15	2.85	4.91	56.19	2.48	5.32	51.25			
Max	3.61	6.83	59.62	3.61	6.63	62.25	3.76	7.25	64.13			
Average	3.16	6.31	56.52	3.28	6.10	59.11	2.97	6.32	58.93			
Percentile 10	2.76	5.39	54.39	2.90	5.52	56.37	2.61	5.58	51.76			
Percentile 25	2.92	6.48	55.83	3.04	6.14	56.86	2.76	5.91	53.81			
Percentile 50	3.25	6.71	56.80	3.36	6.25	59.21	2.84	6.20	61.08			
Percentile 75	3.31	6.81	57.14	3.50	6.40	61.11	3.09	6.91	63.75			
Percentile 98	3.58	6.83	59.37	3.60	6.61	62.15	3.70	7.24	64.09			

Plant >			GCL	J Furnace				
Source >		H-13		H-14				
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx		
Limit >	10 mg/Nm³	50 mg/Nm³	350 mg/Nm³	10 mg/Nm³	50 mg/Nm ³	350 mg/Nm³		
Oct-23	2.93	5.74	52.18	2.87	6.18	62.42		
Nov-23	3.25	7.46	58.41	2.98	6.81	56.18		
Dec-23	3.41	5.75	56.25	3.42	6.78	58.36		
Jan-24	3.57	6.35	58.63	3.25	6.74	56.58		
Feb-24	3.24	6.1	57.25	2.73	5.12	52.81		
Mar-24	3.1	6.56	61.28	2.93	7.45	57.85		
Min	2.93	5.74	52.18	2.73	5.12	52.81		
Max	3.57	7.46	61.28	3.42	7.45	62.42		
Average	3.25	6.33	57.33	3.03	6.51	57.37		

Percentile 10	3.02	5.75	54.22	2.80	5.65	54.50
Percentile 25	3.14	5.84	56.50	2.89	6.32	56.28
Percentile 50	3.25	6.23	57.83	2.96	6.76	57.22
Percentile 75	3.37	6.51	58.58	3.18	6.80	58.23
Percentile 98	3.55	7.37	61.02	3.40	7.39	62.01

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

Plant >		VCM Plant										
Source >	EDC	Furnace(F	I-210)	EDC F	- urnace(F	1-220)	EDC	Furnace(H	-1220)			
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx	PM	SO ₂	NOx			
Limit >	10 mg/N m³	50 mg/Nm³	350 mg/Nm ³	10 mg/Nm	50 mg/N m³	350 mg/Nm	10 mg/N m³	50 mg/Nm	350 mg/Nm			
Oct-23	3.45	6.82	63.46	3.92	7.45	65.12	3.28	6.62	61.35			
Nov-23	2.95	7.16	67.18	3.42	8.38	63.25	3.71	7.42	61.73			
Dec-23	2.56	6.71	61.25	3.12	7.46	65.42	3.86	8.61	67.35			
Jan-24	3.41	7.82	68.74	3.85	7.74	62.65	3.24	9.16	68.24			
Feb-24	2.25	4.75	55.42	2.64	5.42	60.36	3.15	8.25	63.74			
Mar-24	2.81	6.32	58.24	3.24	6.28	63.33	2.73	7.45	60.52			
Min	2.25	4.75	55.42	2.64	5.42	60.36	2.73	6.62	60.52			
Max	3.45	7.82	68.74	3.92	8.38	65.42	3.86	9.16	68.24			
Average	2.91	6.60	62.38	3.37	7.12	63.36	3.33	7.92	63.82			
Percentile 10	2.41	5.54	56.83	2.88	5.85	61.51	2.94	7.02	60.94			
Percentile 25	2.62	6.42	58.99	3.15	6.57	62.80	3.17	7.43	61.45			
Percentile 50	2.88	6.77	62.36	3.33	7.46	63.29	3.26	7.85	62.74			
Percentile 75	3.30	7.08	66.25	3.74	7.67	64.67	3.60	8.52	66.45			
Percentile 98	3.45	7.75	68.58	3.91	8.32	65.39	3.85	9.11	68.15			

Plant >	(CPP-I Plant	t	CPP-II Plant						
Source >	> Common Stack				Stack-1			Stack-2		
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx	PM	SO ₂	NOx	
Limit >	10 mg/N m ³	50 mg/Nm³	350 mg/N m ³	10 mg/Nm	50 mg/Nm	350 mg/Nm	10 mg/Nm	50 mg/N m ³	350 mg/Nm ³	
Oct-23	-	-	-	-	-	-	-	-	-	
Nov-23	-	-	-	-	-	-	-	-	-	
Dec-23	-	-	-	-	-	-	-	-	-	
Jan-24	-	-	-	-	-	-	-	-	-	
Feb-24	-	-	-	-	-	-	-	-	-	
Mar-24	-	-	-	-	-	-	-	-	-	

Min	-	-	-	-	-	-	-	-	-
Max	-	-	-	-	-	-	-	-	-
Average	-	-	-	-	-	-	-	-	-
Percentile 10	-	-	-	-	-	-	-	-	-
Percentile 25	-	-	-	-	-	-	-	-	-
Percentile 50	-	-	-	-	-	-	-	-	-
Percentile 75	-	-	-	-	-	-	-	-	-
Percentile 98	-	-	-	-	-	-	-	-	-

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

Plant >		CPP III Plant										
Source >	UTILI	TY BOILI	ER-3	UTIL	ITY BOILE	R-4		HRSG-4				
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx	PM	SO ₂	NOx			
Limit >	10 mg/Nm³	50 mg/N m³	350 mg/N m ³	10 mg/Nm³	50 mg/Nm	350 mg/N m ³	10 mg/N m³	50 mg/N m³	350 mg/N m³			
Oct-23	-	-	-	3.56	6.74	62.74	-	-	-			
Nov-23	-	-	-	-	-	-	-	-	-			
Dec-23	-	-	-	-	-	-	-	-	-			
Jan-24	-	-	-	-	-	-	-	-	-			
Feb-24	-	-	-	-	-	-	-	-	-			
Mar-24	-	-	-	-	-	-	-	-	-			
Min	-	-	-	3.56	6.74	62.74	-	-	-			
Max	-	-	-	3.56	6.74	62.74	-	-	-			
Average	-	ı	ı	3.56	6.74	62.74	-	-	•			
Percentile 10	-	•	ı	3.56	6.74	62.74	-	-				
Percentile 25	-	-	ī	3.56	6.74	62.74	-	-	-			
Percentile 50	-	ı	ı	3.56	6.74	62.74	-	-	-			
Percentile 75	-	-	-	3.56	6.74	62.74	-	-	-			
Percentile 98	-	-	-	3.56	6.74	62.74	-	-	-			

Plant >		PET-3 Plant										
Source >	Н	HTM HEATER-A			HTM HEATER-B							
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx						
Limit >	10 mg/Nm³	50 mg/Nm³	350 mg/Nm ³	10 mg/Nm³	50 mg/Nm³	350 mg/Nm ³						
Oct-23	3.16	8.28	59.36	3.56	8.15	53.18						
Nov-23	-	-	-	3.43	8.37	54.25						
Dec-23	-	-	-	3.62	8.52	68.15						
Jan-24	3.25	8.41	64.22	-	-	-						
Feb-24	4.1	9.32	67.42	3.45	7.64	59.75						
Mar-24	3.65	8.13	64.25	3.18	8.42	66.42						

Min	3.16	8.13	59.36	3.18	7.64	53.18
Max	4.10	9.32	67.42	3.62	8.52	68.15
Average	3.54	8.54	63.81	3.45	8.22	60.35
Percentile 10	3.19	8.18	60.82	3.28	7.84	53.61
Percentile 25	3.23	8.24	63.01	3.43	8.15	54.25
Percentile 50	3.45	8.35	64.24	3.45	8.37	59.75
Percentile 75	3.76	8.64	65.04	3.56	8.42	66.42
Percentile 98	4.07	9.27	67.23	3.62	8.51	68.01

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

Plant >			PET-3	Plant		
Source >	Н	TM HEATER-	С	Н	TM HEATER	·D
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx
Limit >	10 mg/Nm³	50 mg/Nm ³	350 mg/Nm ³	10 mg/Nm ³	50 mg/Nm ³	350 mg/Nm³
Oct-23	-	-	-	3.42	8.65	58.25
Nov-23	3.67	7.42	58.74	3.44	8.28	56.56
Dec-23	3.05	8.26	62.54	3.43	8.87	57.13
Jan-24	3.91	7.83	61.74	3.73	9.12	67.23
Feb-24	3.27	8.42	63.28	3.95	9.58	65.35
Mar-24	3.76	9.25	68.36	-	-	-
Min	3.31	8.12	57.32	3.11	7.53	54.25
Max	3.74	9.64	60.25	3.75	9.26	59.56
Average	3.53	8.73	58.98	3.48	8.34	57.11
Percentile 10	3.35	8.18	57.73	3.17	7.57	55.08
Percentile 25	3.42	8.27	58.34	3.25	7.63	56.32
Percentile 50	3.53	8.42	59.36	3.63	8.16	57.63
Percentile 75	3.64	9.03	59.81	3.65	9.11	57.78
Percentile 98	3.73	9.59	60.21	3.74	9.25	59.42

Plant >		CCPP Plant							
Source >		BOILER-1		BOILER-2					
Parameter >	PM	SO2	NOx	PM	SO2	NOx			
Limit >	50 mg/Nm³	600 mg/Nm³	300 mg/Nm ³	50 mg/Nm³	600 mg/Nm³	300 mg/Nm³			
Oct-23	21.75	256.32	64.65	22.68	259.75	77.12			
Nov-23	23.52	245.12	72.36	23.78	256.38	78.25			
Dec-23	23.25	250.42	68.74	21.34	264.57	71.25			
Jan-24	22.44	272.45	73.61	24.12	267.23	75.42			
Feb-24	16.54	281.46	74.28	18.12	268.5	82.54			
Mar-24	22.71	267.42	71.36	21.54	273.28	77.53			

Min	16.54	245.12	64.65	18.12	256.38	71.25
Max	23.52	281.46	74.28	24.12	273.28	82.54
Average	21.70	262.20	70.83	21.93	264.95	77.02
Percentile 10	19.15	247.77	66.70	19.73	258.07	73.34
Percentile 25	21.92	251.90	69.40	21.39	260.96	75.85
Percentile 50	22.58	261.87	71.86	22.11	265.90	77.33
Percentile 75	23.12	271.19	73.30	23.51	268.18	78.07
Percentile 98	23.49	280.56	74.21	24.09	272.80	82.11

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

Plant >			ССРР	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/Nm³
Oct-23	24.35	252.13	73.83	22.81	263.28	75.57
Nov-23	23.45	254.22	77.63	24.54	261.58	74.82
Dec-23	22.56	254.28	74.63	23.14	261.32	72.81
Jan-24	23.64	264.41	80.75	23.82	254.63	74.36
Feb-24	14.53	272.32	77.65	15.25	261.58	75.25
Mar-24	24.25	268.23	73.41	25.18	273.52	81.36
Min	14.53	252.13	73.41	15.25	254.63	72.81
Max	24.35	272.32	80.75	25.18	273.52	81.36
Average	22.13	260.93	76.32	22.46	262.65	75.70
Percentile 10	18.55	253.18	73.62	19.03	257.98	73.59
Percentile 25	22.78	254.24	74.03	22.89	261.39	74.48
Percentile 50	23.55	259.35	76.13	23.48	261.58	75.04
Percentile 75	24.10	267.28	77.65	24.36	262.86	75.49
Percentile 98	24.34	271.91	80.44	25.12	272.50	80.78

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

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

Plant >	Chlor Alkali Plant							
Source >	Нур	o Unit	HCL Synt	hesis Unit				
Parameter >	Cl ₂	HCI	Cl ₂	HCI				
Limit >	9 mg/Nm³	20 mg/Nm³	9 mg/Nm³	20 mg/Nm³				
Oct-23	<1	2.15	<1	2.53				
Nov-23	<1	2.48	<1	2.72				
Dec-23	<1	2.16	<1	2.59				
Jan-24	<1	2.85	<1	3.26				
Feb-24	<1	3.41	<1	3.86				
Mar-24	<1	2.72	<1	3.24				
Min	<1	2.15	<1	2.53				
Max	<1	3.41	<1	3.86				
Average	<1	2.63	<1	3.03				
Percentile 10	<1	2.16	<1	2.56				
Percentile 25	<1	2.24	<1	2.62				
Percentile 50	<1	2.60	<1	2.98				
Percentile 75	<1	2.82	<1	3.26				
Percentile 98	<1	3.35	<1	3.80				

Plant >				VCM	Plant					
Source >		Incinerator [PK-701]								
Parameter >	PM	SO ₂	NOx	Cl ₂	HCI	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/Nm³	150 mg/Nm ³	6.6 mg/Nm³		
Oct-23	3.05	6.41	19.47	<1.0	2.36	1.23	2.41	<1.5		
Nov-23	2.82	7.16	15.12	<1.0	2.26	1.21	2.32	<1.5		
Dec-23	3.35	6.75	12.75	<1.0	2.1	1.24	2.41	<1.5		
Jan-24	3.81	7.32	18.75	<1.0	2.21	1.21	2.35	<1.5		
Feb-24	4.25	8.16	14.52	<1.0	2.45	1.25	2.73	<1.5		
Mar-24	3.53	6.78	16.71	<1.0	2.31	1.18	2.25	<1.5		
Min	2.82	6.41	12.75	<1.0	2.10	1.18	2.25	<1.5		
Max	4.25	8.16	19.47	<1.0	2.45	1.25	2.73	<1.5		
Average	3.47	7.10	16.22	<1.0	2.28	1.22	2.41	<1.5		
Percentile 10	2.94	6.58	13.64	<1.0	2.16	1.20	2.29	<1.5		
Percentile 25	3.13	6.76	14.67	<1.0	2.22	1.21	2.33	<1.5		
Percentile 50	3.44	6.97	15.92	<1.0	2.29	1.22	2.38	<1.5		

Percenti	le 75	3.74	7.28	18.24	<1.0	2.35	1.24	2.41	<1.5
Percenti	le 98	4.21	8.08	19.40	<1.0	2.44	1.25	2.70	<1.5

Plant >		VCM Plant								
Source >				Incinerato	r [PK-702]					
Parameter >	PM	SO ₂	NOx	Cl2	HCI	HC	СО	VCM		
Limit >	150 mg/Nm³	40 mg/Nm ³	25 mg/Nm³	10 mg/Nm³	30 mg/Nm ³	15 mg/Nm³	150 mg/Nm ³	6.6 mg/Nm³		
Oct-23	2.63	5.81	19.25	<1.0	2.2	1.35	2.28	<1.5		
Nov-23	2.96	6.25	19.36	<1.0	2.42	1.28	2.21	<1.5		
Dec-23	3.12	7.42	17.28	<1.0	2.61	1.26	2.28	<1.5		
Jan-24	3.48	7.14	20.54	<1.0	2.37	1.23	2.14	<1.5		
Feb-24	3.81	7.64	20.74	<1.0	2.27	1.2	2.35	<1.5		
Mar-24	4.23	8.46	19.25	<1.0	2.76	1.26	2.62	<1.5		
Min	2.63	5.81	17.28	<1.0	2.20	1.20	2.14	<1.5		
Max	4.23	8.46	20.74	<1.0	2.76	1.35	2.62	<1.5		
Average	3.37	7.12	19.40	<1.0	2.44	1.26	2.31	<1.5		
Percentile 10	2.80	6.03	18.27	<1.0	2.24	1.22	2.18	<1.5		
Percentile 25	3.00	6.47	19.25	<1.0	2.30	1.24	2.23	<1.5		
Percentile 50	3.30	7.28	19.31	<1.0	2.40	1.26	2.28	<1.5		
Percentile 75	3.73	7.59	20.25	<1.0	2.56	1.28	2.33	<1.5		
Percentile 98	4.19	8.38	20.72	<1.0	2.75	1.34	2.59	<1.5		

Plant >		VCM Plant								
Source >		Incinerator [PK-1701]								
Parameter >	PM	SO ₂	NOx	Cl2	HCI	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		
Oct-23	2.95	6.16	17.4	<1.0	2.32	1.25	2.36	<1.5		
Nov-23	2.71	5.69	16.49	<1.0	2.3	1.28	2.24	<1.5		
Dec-23	2.71	6.28	17.15	<1.0	2.46	1.21	2.35	<1.5		
Jan-24	3.36	5.45	16.41	<1.0	2.71	1.26	2.52	<1.5		
Feb-24	2.84	6.28	12.32	<1.0	2.56	1.23	2.56	<1.5		
Mar-24	2.38	7.25	17.63	<1.0	2.18	1.2	2.37	<1.5		
Min	2.38	5.45	12.32	<1.0	2.18	1.20	2.24	<1.5		
Max	3.36	7.25	17.63	<1.0	2.71	1.28	2.56	<1.5		

Average	2.83	6.19	16.23	<1.0	2.42	1.24	2.40	<1.5
Percentile 10	2.55	5.57	14.37	<1.0	2.24	1.21	2.30	<1.5
Percentile 25	2.71	5.81	16.43	<1.0	2.31	1.22	2.35	<1.5
Percentile 50	2.78	6.22	16.82	<1.0	2.39	1.24	2.37	<1.5
Percentile 75	2.92	6.28	17.34	<1.0	2.54	1.26	2.48	<1.5
Percentile 98	3.32	7.15	17.61	<1.0	2.70	1.28	2.56	<1.5

Plant >		VCM Plant							
Source >		VCM Vent Scrubber							
Parameter >	Cl ₂	HCI	HC						
Limit >	10 mg/Nm³	30 mg/Nm³	15 mg/Nm³						
Oct-23	< 1	2.53	< 0.2						
Nov-23	< 1	2.74	< 0.2						
Dec-23	< 1	2.56	< 0.2						
Jan-24	< 1	2.76	< 0.2						
Feb-24	< 1	2.41	< 0.2						
Mar-24	< 1		< 0.2						
Min	< 1	2.41	< 0.2						
Max	< 1	2.76	< 0.2						
Average	< 1	2.60	< 0.2						
Percentile 10	< 1	2.46	< 0.2						
Percentile 25	< 1	2.53	< 0.2						
Percentile 50	< 1	2.56	< 0.2						
Percentile 75	< 1	2.74	< 0.2						
Percentile 98	< 1	2.76	< 0.2						

Plant >	PTA-5 Plant								
Source >	OFF G	SAS SCRUE	BBER	ATN	I SCRUBE	3ER	VENT SCRUBBER		
Parameter >	PM	PM SO ₂ NO		PM	PM SO ₂ NO		PM	SO ₂	NOx
Limit >	150 mg/Nm³	40 mg/Nm³	25 mg/Nm ³	150 mg/Nm ³	40 mg/Nm	25 mg/Nm	150 mg/Nm ³	40 mg/Nm³	25 mg/Nm
Oct-23	2.85	<5	<4	2.81	< 5	<4	2.67	<5	<4
Nov-23	2.74	<5	<4	2.82	< 5	<4	2.78	<5	<4
Dec-23	2.54	<5	<4	2.12	<5	<4	2.78	<5	<4
Jan-24	2.76	<5	<4	2.38	<5	<4	3.25	<5	<4

Feb-24	3.56	<5	<4	2.84	<5	<4	3.46	<5	<4
Mar-24	3.12	<5	<4	2.41	<5	<4	3.65	<5	<4
Min	2.54	<5	<4	2.12	<5	<4	2.67	<5	<4
Max	3.56	<5	<4	2.84	<5	<4	3.65	<5	<4
Average	2.93	< 5	<4	2.56	<5	<4	3.10	<5	<4
Percentile 10	2.64	<5	<4	2.25	<5	<4	2.73	<5	<4
Percentile 25	2.75	< 5	<4	2.39	<5	<4	2.78	<5	<4
Percentile 50	2.81	<5	<4	2.61	<5	<4	3.02	<5	<4
Percentile 75	3.05	<5	<4	2.82	<5	<4	3.41	<5	<4
Percentile 98	3.52	<5	<4	2.84	<5	<4	3.63	<5	<4

Plant >	PTA-6 Plant								
Source >	OFF GAS SCRUBBER			ATI	M SCRUB	BER	VENT SCRUBBER		
Parameter >	PM	SO ₂	NOx	PM	SO ₂	NOx	PM	SO ₂	NOx
Limit >	150 mg/Nm ³	40 mg/Nm³	25 mg/Nm³	150 mg/Nm ³	40 mg/Nm	25 mg/Nm³	150 mg/Nm ³	40 mg/Nm	25 mg/Nm
Oct-23	3.81	<5	<4	2.87	<5	<4	3.25	<5	<4
Nov-23	3.75	<5	<4	3.32	<5	<4	3.66	<5	<4
Dec-23	3.58	<5	<4	2.84	<5	<4	3.32	<5	<4
Jan-24	3.69	<5	<4	3.25	<5	<4	3.73	<5	<4
Feb-24	3.67	<5	<4	3.52	<5	<4	3.28	<5	<4
Mar-24	3.83	<5	<4	3.39	<5	<4	3.12	<5	<4
Min	3.58	<5	<4	2.84	<5	<4	3.12	<5	<4
Max	3.83	<5	<4	3.52	<5	<4	3.73	<5	<4
Average	3.72	<5	<4	3.20	<5	<4	3.39	<5	<4
Percentile 10	3.63	<5	<4	2.86	<5	<4	3.19	<5	<4
Percentile 25	3.68	<5	<4	2.97	<5	<4	3.26	<5	<4
Percentile 50	3.72	<5	<4	3.29	<5	<4	3.30	<5	<4
Percentile 75	3.80	<5	<4	3.37	<5	<4	3.58	<5	<4
Percentile 98	3.83	<5	<4	3.51	<5	<4	3.72	<5	<4

Plant >	PVC Plant									
Source >		[IH:1]		PVC Dryer [IH:2]						
Parameter >	PM	SO ₂	NOx	СО	VCM	PM	SO ₂	NOx	CO	VCM
Limit >	150 mg/Nm	100 ppm	50 ppm	150 mg/Nm ³	6.6 mg/Nm	150 mg/Nm ³	100 ppm	50 ppm	150 mg/Nm	6.6 mg/Nm
Oct-23	3.85	8.74	23.45	2.32	<1.5	3.42	7.63	24.36	2.25	<1.5
Nov-23	3.38	8.36	23.28	2.41	<1.5	2.81	8.45	17.15	2.36	<1.5
Dec-23	3.65	8.42	21.63	2.25	<1.5	3.26	7.41	18.46	2.29	<1.5
Jan-24	3.42	8.78	22.45	2.31	<1.5	3.75	9.25	21.27	2.47	<1.5
Feb-24	3.81	9.54	20.36	2.63	<1.5	3.42	8.27	15.32	2.41	<1.5
Mar-24	3.64	7.41	21.36	2.24	<1.5	2.75	6.42	17.52	2.32	<1.5
Min	3.38	7.41	20.36	2.24	<1.5	2.75	6.42	15.32	2.25	<1.5
Max	3.85	9.54	23.45	2.63	<1.5	3.75	9.25	24.36	2.47	<1.5
Average	3.63	8.54	22.09	2.36	<1.5	3.24	7.91	19.01	2.35	<1.5
Percentile 10	3.40	7.89	20.86	2.25	<1.5	2.78	6.92	16.24	2.27	<1.5
Percentile 25	3.48	8.38	21.43	2.27	<1.5	2.92	7.47	17.24	2.30	<1.5
Percentile 50	3.65	8.58	22.04	2.32	<1.5	3.34	7.95	17.99	2.34	<1.5
Percentile 75	3.77	8.77	23.07	2.39	<1.5	3.42	8.41	20.57	2.40	<1.5
Percentile 98	3.85	9.46	23.43	2.61	<1.5	3.72	9.17	24.05	2.46	<1.5

Photograph of State of the art Control Room equipped with DCS







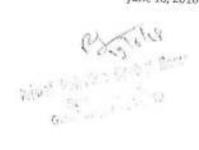
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Reliance Industries Limited CIN # L17110MH1973PLC019786

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 fluce will be at existing location. A copy of study report received from ERM is enclosed for your ready reference.

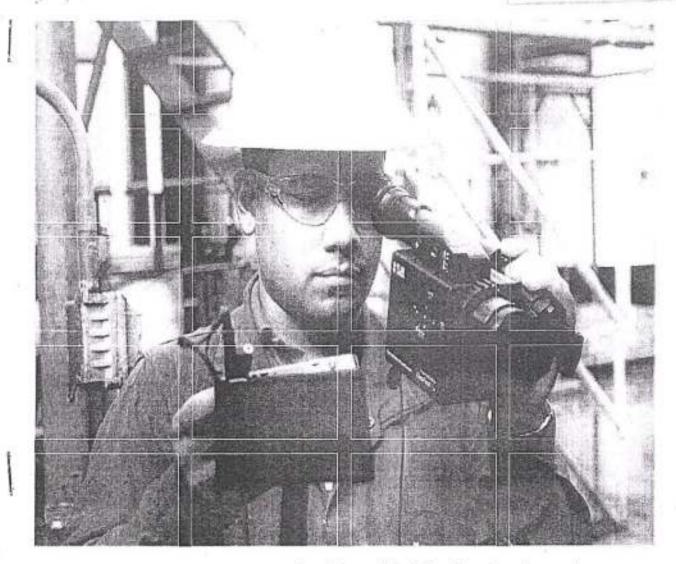
In compliance to the above referred condition of the Environment Clearance, we request you to kindly consider the locations for Ambient Air Quality Monitoring.

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.



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

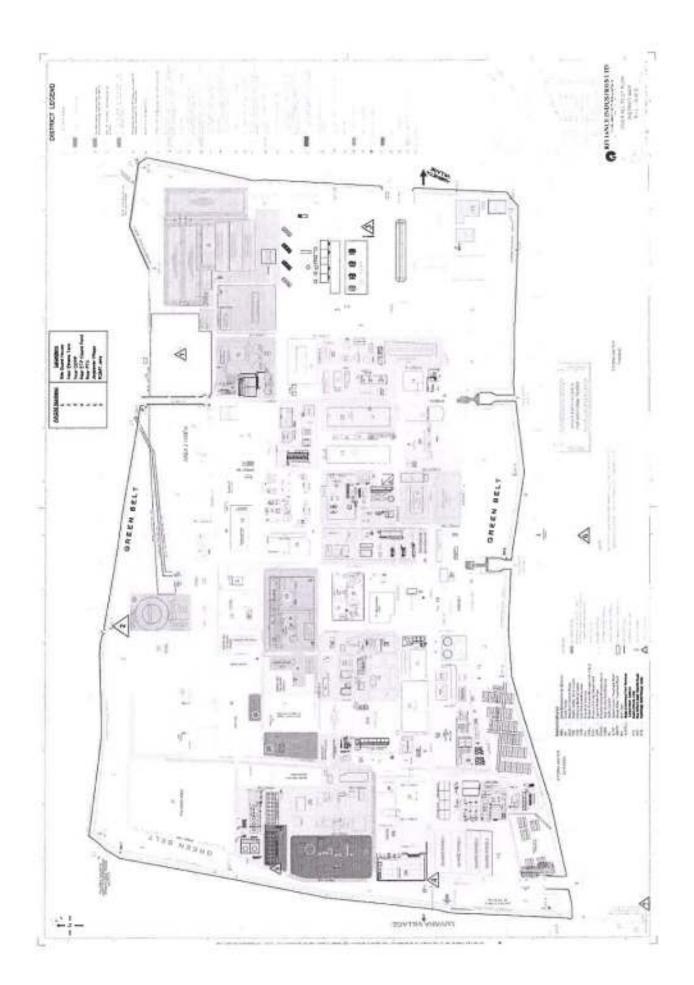
Reliance Industries Limited

Report

January 2018

www.erm.com





Ambient Air Quality Monitoring Report

(October 2023 - March 2024)

LOCATION	MINIMUM		PEI	RCENTII	E.		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT – PM 2.5	μg/m³						μg/m³	µg/m³
Site Guest House	10.0	13.1	16.0	20.0	22.0	26.0	27.0	19.0
Nr. CCPP	18.0	21.0	23.8	26.0	29.0	34.0	35.0	26.2
Nr. PTA	13.0	15.0	18.0	23.0	26.0	30.9	33.0	22.1
Nr. ETP Guard Pond	16.0	21.0	23.0	25.0	29.0	35.0	37.0	25.7
RDMT Jetty	11.0	14.2	18.0	21.0	24.0	29.0	29.0	21.0
Nr. Ethane Tank	20.0	22.0	24.8	27.0	30.3	36.0	38.0	27.6
Jageshwar Village	11.0	14.1	17.0	20.0	23.0	28.0	29.0	19.7

LOCATION	MINIMUM		PE	RCENTII	LE		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT – PM 10	μg/m3						μg/m3	μg/m3
Site Guest House	48.0	51.1	56.0	60.0	63.0	67.0	68.0	58.9
Nr. CCPP	53.0	58.2	63.0	66.5	70.3	75.0	76.0	66.3
Nr. PTA	48.0	54.2	59.0	64.0	67.0	72.0	73.0	62.6
Nr. ETP Guard Pond	52.0	56.0	60.8	63.5	67.0	72.0	74.0	63.4
RDMT Jetty	43.0	53.2	57.0	63.0	66.0	71.0	72.0	61.7
Nr. Ethane Tank	51.0	57.2	62.0	66.5	70.0	74.0	75.0	65.5
Jageshwar Village	48.0	53.0	56.0	61.5	65.0	71.0	72.0	60.5

LOCATION	MINIMUM		PEI	RCENTII	LE		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT - SO ₂	μg/m³						μg/m³	μg/m³
Site Guest House	13.8	16.2	18.1	21.1	22.6	25.1	25.8	20.4
Nr. CCPP	18.3	21.8	23.6	25.4	28.5	30.6	31.5	25.7
Nr. PTA	16.7	19.4	21.5	23.6	25.5	28.5	29.2	23.4
Nr. ETP Guard Pond	17.3	19.1	21.0	23.2	25.4	28.2	29.0	23.2
RDMT Jetty	14.8	16.6	19.4	22.4	24.7	27.7	28.2	22.0
Nr. Ethane Tank	17.8	20.3	22.7	24.3	26.7	29.5	29.7	24.5
Jageshwar Village	12.9	14.5	16.3	19.7	21.8	24.6	25.1	19.2

LOCATION	MINIMUM		PE	RCENTI	LE		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT - NO _X	μg/m³						μg/m³	μg/m³
Site Guest House	20.0	23.2	24.8	26.9	28.4	31.5	32.3	26.5
Nr. CCPP	23.8	26.9	29.1	31.9	33.7	37.2	37.5	31.4
Nr. PTA	25.2	26.3	28.8	30.5	32.4	35.4	36.5	30.5
Nr. ETP Guard Pond	24.9	26.7	29.1	31.5	33.6	36.8	37.5	31.2
RDMT Jetty	20.7	24.1	26.4	28.3	30.6	33.4	33.6	28.3
Nr. Ethane Tank	25.2	28.3	29.3	32.1	34.5	36.8	37.6	31.9
Jageshwar Village	20.2	22.8	24.8	27.0	28.4	31.3	32.2	26.7

LOCATION	MINIMUM		PEI	RCENTII	LE		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT – O ₃	μg/m³						μg/m³	µg/m³
Site Guest House	6.8	7.0	7.3	7.7	8.1	8.8	8.9	7.7
Nr. CCPP	7.3	7.6	8.1	8.5	8.9	9.5	10.3	8.5
Nr. PTA	4.8	7.6	8.0	8.5	8.9	9.6	9.8	8.5
Nr. ETP Guard Pond	6.5	7.0	7.3	8.1	8.4	9.7	10.5	8.0
RDMT Jetty	4.7	7.4	7.6	8.0	8.3	8.8	9.1	7.9
Nr. Ethane Tank	7.0	7.4	7.8	8.3	8.9	9.6	9.9	8.3
Jageshwar Village	6.9	7.5	8.1	8.5	8.8	9.4	9.5	8.4

LOCATION	MINIMUM		PEI	RCENTII	-E		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT - NH ₃	μg/m³						μg/m³	μg/m³
Site Guest House	10.5	12.4	13.3	14.8	16.5	19.2	20.3	15.0
Nr. CCPP	15.2	19.2	20.5	22.6	24.4	27.5	29.4	22.5
Nr. PTA	15.2	17.2	18.4	20.4	22.6	25.8	26.4	20.5
Nr. ETP Guard Pond	13.8	15.2	16.7	18.6	20.5	24.1	24.2	18.6
RDMT Jetty	11.6	13.1	14.7	16.2	18.1	20.6	21.4	16.3
Nr. Ethane Tank	13.6	16.1	18.3	20.3	22.6	25.8	26.1	20.3
Jageshwar Village	11.4	13.2	14.5	16.2	17.6	20.3	21.1	16.2

LOCATION	MINIMUM		PEI	RCENTII	_E		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT – CO	mg/m³						mg/m³	mg/m³
Site Guest House	1.3	1.4	1.5	1.6	1.6	1.7	1.7	1.5
Nr. CCPP	1.4	1.5	1.6	1.7	1.8	1.8	1.9	1.7
Nr. PTA	1.3	1.3	1.5	1.6	1.6	1.7	1.7	1.5
Nr. ETP Guard Pond	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.5
RDMT Jetty	1.3	1.3	1.5	1.6	1.7	1.8	1.9	1.6
Nr. Ethane Tank	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.5
Jageshwar Village	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.3

LOCATION	MINIMUM		PE	RCENTI	LE		MAXIMUM	AVERAGE VALUE μg/m³ < 1.0 < 1.0 < 1.0			
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE			
POLLUTANT - C ₆ H ₆	μg/m³						μg/m³	μg/m³			
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	0.0			
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		PE	RCENTIL	.E		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT – Pb	μg/m³						µg/m³	µg/m³
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		PE	RCENTII	.E		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT - As	ng/m³						ng/m³	ng/m³
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		PI	ERCENTII	LE		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT - Ni	ng/m³						ng/m³	ng/m³
Site Guest House	2.2	2.9	3.9	4.8	5.5	7.2	7.5	4.7
Nr. CCPP	3.7	4.9	5.6	6.1	6.5	7.3	7.4	6.0
Nr. PTA	3.9	4.3	5.0	5.9	6.8	8.0	8.3	5.9
Nr. ETP Guard Pond	2.7	3.7	4.1	5.3	6.4	7.8	8.0	5.3
RDMT Jetty	1.8	2.7	3.2	4.5	5.8	7.2	7.6	4.5
Nr. Ethane Tank	2.7	3.7	5.0	6.0	6.2	6.8	6.9	5.5
Jageshwar Village	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

LOCATION	MINIMUM		PE	RCENTIL	E		MAXIMUM	AVERAGE
LOCATION	VALUE	10	25	50	75	98	VALUE	VALUE
POLLUTANT - BAP	ng/m³						ng/m³	ng/m³
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

Annexure VII

Treated Effluent Quality Monitoring Report

(October 2023 – March 2023)

Sr.			GPCB				RE	SULTS				
No.	Parameter	Unit	Norms	Apr'23	May'23	Jun'23	Jul'23	Aug'23	Sep'23	Avg	Min	Max
1	рН	_	5.5-9.0	7.72	7.75	7.81	8.05	8.2	7.93	7.91	7.72	8.20
2	Colour and odour	made colou unple as far	asant odour		Co	olourless a	nd Odourle	ss			lourless a	
3	Total Suspended Solids	mg/l	100	24	23	19	22	25	22	22.50	19.00	25.00
4	Temperature	°C	Shall not exceed 5°C above the receiving water temperature	29.6	28.7	27.4	28.5	29.1	27.6	28.48	27.40	29.60
5	Oil & Grease	mg/l	20	< 0.2	< 0.2	< 0.2	1.4	1.6	1.4	< 0.2	< 0.2	< 0.2
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	< 0.4	< 0.4	< 0.4	12.5	14.3	12.6	< 0.4	< 0.4	< 0.4
8	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	100	5.1	6.2	5.7	27.6	32.4	28.7	17.62	5.10	32.40
9	Free Ammonia (as NH ₃)	mg/l	5	< 1.0	< 1.0	< 1.0	3.5	3.1	2.6	< 0.1	< 0.1	< 0.1
10	Biochemical Oxygen Demand	mg/l	100	41.5	37.9	34.2	42.5	38.3	41.8	39.37	34.20	42.50
11	Chemical Oxygen Demand	mg/l	250	124	142	128	162	154	172	147.0 0	124.0 0	172.0 0
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	1.2	1.1	1.2	1.2	1.1	1.3	1.18	1.10	1.30
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	0.35	0.24	0.21	0.35	0.28	0.25	0.28	0.21	0.35
24	Sulphides	mg/l	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.16	< 0.1	< 0.1	< 0.1
25	Phenolic compounds (as C ₆ H₅OH)	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	< 0.1	< 0.1	< 0.1	0.31	0.24	0.19	< 0.1	< 0.1	< 0.1
27	Iron (as Fe)	mg/l	3	0.9	0.6	0.7	1.2	0.9	1.3	0.93	0.60	1.30
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	13	10	12	11	8	6	10.00	6.00	13.00
30	Bioassay Test	afte	survival of fish r 96 hours in 0% effluent	>90% survival of fish observ ed after 96 hours in 100% effluent	observe	survival ed after 9 00% efflu	6 hours					

Details of Hazardous Waste Collection, Storage, Treatment and Disposal (October 2023 – March 2024)

Sr. No.		Physical / Chemical Form	Waste Category	Consented Quantity (MT / Yr)	Disposal Quantity (MT / Yr)	Description of Storage	Treatment	Details of Transportation	Mode of Disposal
-	Spent Catalyst from various units and Molecular Sieve / alumina desiccant	Solid / Metal & Metal oxides	1.6/1	411.75	0.00	Collected in Bags / Drums. Bags / Drums. Bags / Drums are stored on impervious flooring during storage period.	I	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	1/2/1	1060	124.81	Stored in Slop Oil Tank	ı	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	1/8:38	3200	182.12	Stored in Sludge Drying Bed		Transported in tractor trolley.	Disposal at own / Common TSDF.
4	ETP Sludge containing polymeric constituents	Semi-Solid / Inorganic solids	1/8:38	300	12.53	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 / 1	225	77.89	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.
9	Wastes or residues containing oil*	Solid / Cotton	5.2 / 1	So ever generated (600)	13.02	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	22.271	20750	4330.67	Stored in Heavy End Storage Tank	-	ſ	Disposal by Incineration at own Incinerator.

Sr. No.		Physical / Chemical Form	Waste Category	Consented Quantity (MT / Yr)	Disposal Quantity (MT / Yr)	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	33.1/1	450	75.04	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.
0	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (Bags / Liners)	Solid / Plastic	33.1/1	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	3.371	So ever generated (500)	0.00	Collected in Drums / Bags. Drums / Bags. Drums / Bags are stored on impervious flooring during storage period.	I	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	36.271	So ever generated (500)	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	I	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 / 1	So ever generated (500)	27.58	Collected in Bags. Bags are stored on impervious flooring during storage period.	I	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 / 1	216	23.11	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	3.1/1	100	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	l	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 / Yr)	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 / 1	100	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	l	Cargo / Tank Residue and Sludge containing Chemical is transported for recycling / reprocessing by authorized transporter.	Cargo / Tank Residue and Disposal at common TSDF for Sludge containing Chemical is incineration / sell to authorised transported for recycling / vendors for recycle / reprocessing by authorized co-processing facility / co-processing in captive coal based power plant
16	Bilge Water Containing Oil from Ships	Liquid / Hydrocarbon	3.4 / 1	100	0.00	Collected in Drums. Drums are stored on impervious flooring during storage period.	ЕТР	Bilge Water Containing Oil from Ships is transported for recycling / reprocessing by authorized transporter.	Bilge Water Containing Oil Disposal by treatment at ETP / at from Ships is transported for recycling / reprocessing by reprocessing / Co-processing facility / co-processing in captive coal based power plant

Spent Catalyst:

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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.

Molecular Sieve: <u>.</u>

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

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

Chemical Sludge from Wastewater treatment: ਰਂ

Chemical sludge generated from Effluent treatment plant is sent for landfilling at own / common TSDF.

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

- Used or Spent oil: Used oil is collected in drums and stored at designated storage location. It is sold to approved recyclers / reprocessors. <u>ب</u>
- Waste or Residues containing oil: Waste & residues containing oil generated is collected in drums and stored at designated storage location. Disposal at Co-processing တ်
- Process Residue (Residue from Vinyl chloride monomer production): Process Residue generated from Vinyl chloride monomer production plant is incinerated into own incinerator. j

- **Discarded containers:** Decontaminated containers & used empty paint drums are sold to authorized vendors.
- Bags / Liners: Whenever generated, packed in Bundles and stored on impervious flooring. It is sold to approved recyclers / reprocessors. <u>.</u>
- 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. Ÿ.
- 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.
- 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 Ė
- Alumina Desiccant: It is collected in drums and sold to authorized recyclers / reprocessors / Co-processing facility / co-processing in captive coal based power plant. ċ
- 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. ö
- 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. ġ
- 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. ᇴ
- 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.

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June 19, 2023

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

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

Ref: Authorization No. AWH-121992 dated 25.11.2022 via Letter No. GPCB/BRCH-B-CCA-717(20)/ID-15565/689234

Dear Sir.

Please find enclosed the duly filled Form 4 under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the financial year 2022-23.

Thanking you,

Yours faithfully,

For Reliance Industries Limited,

Raja Raman Chaudhary Head - Environment

Encl: As above

Cc:

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

Head Office

Head No.-10-A,

Sector No.-10-A,

Gandhinagar-382010



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For Reliance Industries Limited,

Raja Raman Chaudhary Head - Environment

Encl: As above

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

BHARUCH - 392015

Post Received
Suparut Pollution Control Board
BHARUCH
21/6/23

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-121992 issued on 25.11.2022
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	Please refer Annexure 2
2.	Quantity dispatched	
	(i) to disposal facility	
	(iii) to recycler or co-processors or pre-processor (iii) others	Please refer Annexure 2
3.	Quantity utilized in-house, if any -	Nil
4.	Quantity in storage at the end of the year -	680 22 MT

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

1.	Total quantity received -	8180.36 MT (Generated)
2.	Quantity in stock at the beginning of the year -	Please refer Annexure 2
3.	Quantity treated -	Nil
4.	Quantity disposed in landfills as such and after treatment –	677.32 MT
5.	Quantity incinerated (if applicable) -	7574.32 MT
6.	Quantity processed other than specified above -	Nil
7.	Quantity in storage at the end of the year -	Landfill – 187.08 MT Incinerate – 398.54 MT

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

1.	Quantity of waste received during the year -	
	(i) domestic sources	Not Applicable
	(ii) imported (if 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: 16.06.2023

Place: Dahej

Signature of the Occupier or Operator of the disposal facility

Shailesh Nigam

Site President

Reliance Industries Limited Dahej Manufacturing Division P.O. Dahej - 392130.

Ta. Vagra, Dist. Bharuch.

Gujarat



Annexure - 1

Production during April 2022 to March 2023

Sr. No.	Plants	Products	Capacity (MTPA)	Production (MTPA)
1.	Ethane Propane Recovery Unit (EPRU)	Ethane / Propane	6,50,000	0
2.	Gas Cracker Unit (GCU)	Ethylene	5,50,000	4,59,670
		Propylene	1,60,000	18,195
3.	Vinyl Chloride Monomer (VCM)	Ethylene Dichloride	5,88,000	2,03,879
		Vinyl Chloride Monomer	3,60,000	3,39,375
4.	Polyvinyl Chloride (PVC)	Polyvinyl Chloride	3,60,000	3,45,376
5.	Chlor Alkali Plant (CA)	Chlorine	1,87,000	1,56,436
		Caustic Soda	2,21,000	1,77,550
6.	Ethylene Oxide (EO) / Ethylene Glycol (EG)	Ethylene Oxide	50,000	42,310
		Ethylene Glycol	3,08,350	1,93,064
7.	High Density Poly Ethylene (HDPE)	HDPE - I / HDPE - II	2,40,000	1,79,377
		UHMW - PE	2,500	0
8.	Ethylene Vinyl Acetate (EVA)	EVA	13,000	0
9.	Purified Terephthalic Acid (PTA)	Purified Terephthalic Acid	30,00,000	24,54,437
10.	Polyethylene Terephthalate (PET)	Polyethylene Torophthalato	10,00,000	6,51,022

Sr. No.	Plants	Products	Capacity (MTPA)	Production (MTPA)
11.	Gas Cracker Unit (GCU)	Mixed C ₄ +	47,500	17,090
		RARFS (Pyrolysis gasoline)	54,750	9,095
		Fuel Oil	40,000	9,294
		Tar Residue	5,472	0
12.	Vinyl Chloride Monomer (VCM)	HCL	36,000	19,232
13.	Chlor Alkali Plant (CA)	Sodium Hypochlorite	11,000	1,410
		Dilute H ₂ SO ₄	4,600	3,195
		HCL	15,000	10,138
14.	Ethylene Oxide (EO) / Ethylene Glycol (EG)	Di Ethylene Glycol	30,550	19,319
		Tri Ethylene Glycol	1,270	821
		PEG	19,850	0
		TEG Bottom	2,880	443
15.	Purified Terephthalic Acid (PTA)	Crude Benzoic Acid Mix	60,000	14,487

Details of Hazardous Waste (April 2022 to March 2023)

		The second		Sec. 2	A			Thesetoher Gasetty (MT/Vs)	STREET, IN	04/4					
700	Notes of the Waste	Chemical	talegery Calegory	Consentan Country (MT / M)	Operating Streets (betters)	Gaueray Gaueray (W277th)	Same of the same o	To vicecles or to employees or pro- proceeding	Otton	Statement Otylia / Unicad strenge in-frence (Balance	Oty is closups (Balance	Description of Sheaps	Thatment	Details of Transpartstas	Weds of Disposal
Special confine	Specification from salaca code and Malacan Series sharing descools	Solie I Mesa 8 Metal continu	118/1	41135	22.50	150.58	000	306.18	10 0	0.00	4.16	Collected in Bags / Dezma Sags / Drant are streed on Imperious Transing darking obstrace parted	1.	Operit cessive I Mchacute State Caramete Obstoom to transpood for secploing in percentage formal autoched removale	289 SS MT and to undonce venters by records.
8	Of 15th Ambievalor (Newsonia)	Updit Hydronenen	1/1/1	980	42.00	139.43	08.8	21940	20	0.00	22.90	Stemple Stay Of Tark	L	Of hith manipurate transported to	Dispute by safety to seguine of receptors /
0.0	Chartelet Studyn ham Maste wiCy totallment	Sold (Progado solda	10.00	167	12.00	27.727	2	000	81	52,833	10.01	Sheet in Distigat Drying Bed.	1	All and the same of the same o	Opposed at cent (EUF).
1.6	ETP Budge constraints polyment constraints	Sees Sold / Nerganis solon	1/2%	390	11,00	65.59	0.00	71.48	=	80	286	Source Studys Dyny Bed dump strongs period and final in thems print to demonst	1	ATP Study streamed Popmers continued a Transported to Co processing through authorized	_
H	Used or Epost of	Lipati i Hydrolaebon	1111	ñ	#	150.61	0.000	2,011	0.00	800	10.00	Colected in Dazes, Organs are shored on impandate footing furing storings onergo.	a	Used at lipiet Of is bisequehed for reprocuenting through surfaced frampoter.	Capacid by selling to registered recycling in recognition.
24	Waste or resistant committee	Bolle J Cotton	920	So ever persoded (800)	121	17.08	300	11.34	8	80	6.38	Collected in Disarie, Disarie are stooped on impandous fooling during shotoge passes.	1	Water or remities centering at a computed to statements in a tripped through autocase transaction.	Dispose at Co processing Facility
250	Proper treduce (Residue Son Vinit Chiestle Moserne With protection)	Dquisi I Hydrocarbos	22.2/	25. PK	62.50	3441.66	800	200	000	7574.32	20 20	Short is Heavy End Stangs Tank	£	ı	Disposal by trainmentor at over inches was
PR. S.	En sy barels / containers / for a underweind with Petinbos chemicals / sealer (Discreted Contains)	Soils / Metal 8. Plants	5.0	8	12.55	E	980	16.07	000	900	\$101	Collected in District Learningers Charter is destribed as a stored on Transversa Tenerity from starage present.	Decortamouther	1	Disputed by selfing as sering after descriptions.
2 2 2 2 2	Ein My barnth / rontainers / line is contembrated with hethodoxa phenicals / vezien (Se za f. Lines)	Seist Plante	111	F	130	000	800	900	600	800	070	k	ī	1	16
Sec.	Charles and Rans con emission with all	Seld / Notes wing with high comban	1111	So ever generated 5000	0.00	000	800	80 0	500	900	683	i	¥	í	
Ĭ.	Spent Datase	therety Carbon	36277	So mar parameted (500)	0000	800	800	500	900	80.0	0 B	Callected in Druma / bags. Druma / heps and stood on American flooring	4	Spent Carbon is terracered for secyclogic reprincipant Branch suffected transcolor	
1	Spart in aerhangs rash	Seld/Co polymor of Steams	1320	Stores pressured from	90'0	141.30	800	148.55	900	80	8	Coffected in Begs dags are exact on expensions found during shough period	Ti.	Speri on occasings not a banquiste for Topic in verythey impocuning brough authorities	Channel of Coursementy Facility
100	Spert Salvest (Dispused Dorthers)	Sold/Sheet & Merginson	Маги	276	900	39.30	80'0	220	900	800	930	Collected of Drums, Drums are strong an imperious flooring during stronger	Y	Sperif Salvett (Degladed Developer) is taingached for seyding ringbooming fraugh	S86 to sufficient venture for temption reprocessing the presument halfler
2 m 20	Catho / Tank Residue. Working Waler and Eladge con atting Oil	Liquid / Boild Hythacadan	25.11	ij	800	80 0	100	0.00	970	8	000	ï	1	-	
100	Cargo / Tank Residue and Skinge certaining Chemical	Seld/ hospies selfs	3271	180	80'0	80 6	000	000	10'0	000	000	ı	- 1	1	
100	Bigs Hoter Contemig Cil. Yan Ships	Uppd./	1/9'8	100	30'0	000	0.80	4.00	90'9	000	000	ı	1	1	
	Tetal Day	Total Quantity (RET)			28.73	SQUEATS.	22'0	074.77	80'0	8255.64	880.22				

Ground Water Monitoring Report (October 2023 – March 2024)

October 2023

	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	NIM	MAX	AVG
S. 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			
-	Hd		7.5	7.7	7.7	7.7	7.8	7.8	7.8	7.9	7.5	7.9	7.7
2	Conductivity	m2/cm	1118.0	675.0	828.0	631.0	1128.0	772.0	613.0	745.0	613	1128	807
က	TDS	l/gm	856.0	471.0	555.0	415.0	770.0	562.0	412.0	507.0	412	770	550
4	Turbidity	UTN	4.9	5.6	6.7	5.3	7.4	9.5	8.6	10.2	2	10	8
5	P-alkalinity as CaCO3	l/gm	< 5.0	< 5.0	< 5.0	14.6	21.3	18.7	< 5.0	< 5.0	15	21	18
9	M-Alkalinity (as CaCO3)	l/gm	34.5	28.3	37.4	31.9	32.4	38.2	72.3	25.8	26	72	42
7	Total Suspended Solids	l/6m	< 5.0	15.0	15.0	11.0	18.3	< 5.0	< 5.0	< 5.0	11	18	15
ω	Total Hardness as CaCO3	l/bm	22.5	116.5	104.1	365.2	188.1	235.1	281.6	112.5	23	365	209
6	Ca-hardness as CaCO3	l/gm	11.6	72.8	59.2	123.3	98.3	116.5	165.3	71.6	12	165	101
10	Mg hardness (as CaCO3)	l/gm	10.9	43.7	48.9	221.9	87.8	122.6	116.3	30.9	11	222	109
Ξ	Chloride as Cl	l/gm	178.3	158.7	181.3	414.5	183.6	146.2	198.5	182.3	146	415	233
12	Sulphates as SO4	l/bm	52.2	38.6	43.2	44.3	65.2	56.3	37.6	35.6	36	65	48
13	Free Residual CI2	l/ɓw	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4	Iron as Fe	l/6m	0.2	< 0.1	0.2	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
15	Chemical Oxygen Demand	l/gm	< 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)	l/bm	< 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)	l/bm	13.1	< 5.0	0'5>	11.6	13.6	12.5	< 5.0	< 5.0	11.6	13.6	12.6
18	Phosphate (PO4)	l/bm	< 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)	l/6m	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
20	Fluorides (as F)	l/gm	9.0	< 0.2	< 0.2	0.5	0.5	0.5	< 0.2	< 0.2	0.5	0.5	0.5
21	Bicarbonate (HCO3)	l/gm	46.3	28.5	52.6	47.5	45.3	62.1	49.9	44.2	28.5	62.1	49.0
22	Sodium (Na)	l/bm	50.5	43.5	62.5	44.1	67.2	57.3	51.6	55.3	43.5	67.2	56.1
23	Potassium (K)	l/bm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
24	Oil & Grease	l/gm	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.0	0.0	0:0
25	Phenol	l/gm	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0:0	0:0	0:0

November 2023

	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	N N	MAX	AVG
Sr. No	Parameter	TINO	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			
-	Hd	ı	7.5	7.7	7.7	7.8	7.8	7.8	7.8	7.9	7.5	7.9	7.8
2	Conductivity	m2/cm	1275.0	616.0	875.0	625.0	1047.0	825.0	703.0	682.0	616	1047	803
8	TDS	l/gm	748.0	695.0	585.0	870.0	812.0	568.0	615.0	531.0	531	870	673
4	Turbidity	UTN	6.2	5.7	4.8	6.5	8.7	9.3	8.9	10.8	2	11	8
2	P-alkalinity as CaCO3	l/gm	< 5.0	< 5.0	< 5.0	22.9	23.1	20.5	< 5.0	< 5.0	21	23	22
9	M-Alkalinity (as CaCO3)	l/gm	39.7	32.4	42.5	38.4	34.5	41.6	74.1	30.4	30	74	46
7	Total Suspended Solids	l/gm	< 5.0	< 5.0	8.0	10.0	0.6	< 5.0	< 5.0	< 5.0	8	10	6
8	Total Hardness as CaCO3	l/gm	78.6	122.8	107.2	352.8	191.5	242.5	225.6	106.3	79	353	207
6	Ca-hardness as CaCO3	l/gm	8.99	76.4	60.5	134.6	98.3	119.3	177.5	6.87	61	178	113
10	Mg hardness (as CaCO3)	l/gm	52.8	44.4	46.7	218.2	93.2	123.2	98.1	27.4	27	218	107
1	Chloride as Cl	l/gm	176.5	166.2	195.6	284.5	156.1	175.2	199.2	198.2	156	285	206
12	Sulphates as SO4	l/6w	57.8	42.1	35.8	47.2	63.1	58.2	42.6	38.5	36	63	48
13	Free Residual CI2	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0:0	0.0
14	Iron as Fe	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	0.0		0.0
15	Chemical Oxygen Demand	l/gm	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.0	0:0	0.0
16	Biochemical Oxygen Demand (3 day at 27°C)	l/gm	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.0		0.0
11	Carbonate (CO3)	l/6m	12.3	< 5.0	< 5.0	12.8	14.5	13.2	< 5.0	< 5.0	12.3	14.5	13.5
18	Phosphate (PO4)	l/6m	< 3.0	< 3.0	< 3.0	< 3.0	> 3.0	< 3.0	< 3.0	< 3.0	0.0	0.0	0.0
19	Nitrate (NO3)	l/gm	< 0.5	> 0.5	2.0 >	5.0 >	5.0 >	< 0.5	< 0.5	< 0.5	0.0		0.0
20	Fluorides (as F)	l/gm	0.3	< 0.2	< 0.2	9.0	0.4	0.5	< 0.2	< 0.2	0.3		0.5
21	Bicarbonate (HCO3)	l/gm	53.5	45.1	51.7	46.3	45.2	59.6	52.5	48.1	45.1	59.6	51.0
22	Sodium (Na)	l/bm	56.2	49.3	62.3	42.6	65.5	65.2	63.2	51.3	42.6	65.5	57.3
23	Potassium (K)	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
24	Oil & Grease	l/gm	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.0		0.0
25	Phenol	l/gm	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0	0.0	0.0

December 2023

	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	NIN	MAX	AVG
S. 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			
-	Hd		7.6	7.8	7.8	7.8	7.9	7.9	7.8	7.8	7.6	7.9	7.8
2	Conductivity	mS/cm	1242.0	0.889	854.0	681.0	1175.0	841.0	685.0	726.0	681	1175	852
е	TDS	mg/l	831.0	481.0	566.0	448.0	895.0	531.0	509.0	547.0	448	895	605
4	Turbidity	NTU	5.3	5.5	6.3	5.9	9.1	9.6	9.1	10.1	2	10	8
5	P-alkalinity as CaCO3	l/gm	< 5.0	< 5.0	< 5.0	21.6	20.6	19.7	< 5.0	< 5.0	20	22	21
9	M-Alkalinity (as CaCO3)	l/gm	34.5	30.1	38.1	32.5	39.7	40.1	79.3	26.3	26	79	45
7	Total Suspended Solids	l/gm	< 5.0	< 5.0	0.6	7.0	8.0	< 5.0	< 5.0	< 5.0	7	6	8
8	Total Hardness as CaCO3	mg/l	168.2	125.6	111.5	349.2	197.2	238.1	265.1	115.2	112	349	217
6	Ca-hardness as CaCO3	l/gm	140.1	79.3	73.1	128.6	100.3	116.2	190.7	83.9	73	191	120
10	Mg hardness (as CaCO3)	l/gm	28.1	46.3	38.4	220.6	6:96	121.9	74.4	31.3	28	221	104
11	Chloride as Cl	mg/l	176.2	165.4	193.4	327.8	182.3	144.6	208.2	189.2	145	328	215
12	Sulphates as SO4	l/gm	56.3	32.6	37.1	48.6	68.2	55.3	38.5	41.2	33	89	49
13	Free Residual Cl2	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
41	Iron as Fe	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
15	Chemical Oxygen Demand	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.0	0.0	0.0
16	Biochemical Oxygen Demand (3 day at 27°C)	l/bm	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.0	0.0	0.0
17	Carbonate (CO3)	l/gm	11.8	< 5.0	< 5.0	13.8	12.9	13.5	< 5.0	< 5.0	11.8	13.8	13.2
18	Phosphate (PO4)	l/gm	< 3.0	< 3.0	> 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	0.0	0.0	0.0
19	Nitrate (NO3)	l/bm	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.0	0.0	0.0
20	Fluorides (as F)	l/bm	2.0	< 0.2	< 0.2	0.5	9.0	9.0	< 0.2	< 0.2	0.5	9.0	9.0
21	Bicarbonate (HCO3)	l/bm	51.2	42.3	51.5	47.3	46.5	64.1	52.1	45.8	42.3	64.1	51.7
22	Sodium (Na)	l/gm	47.1	36.2	66.5	45.2	63.5	55.2	57.5	58.2	36.2	66.5	56.1
23	Potassium (K)	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
24	Oil & Grease	l/bm	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.0	0.0	0.0
25	Phenol	l/ɓw	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0	0.0	0.0

	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	NIM	MAX	AVG
S. So	Parameter	UNIT	itor 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			
7	Hd	-		7.8	6.7	7.7	7.8	7.8	7.9	7.7	7.7	6.7	7.8
2	Conductivity	mS/cm	1210.0	795.0	898.0	1045.0	1102.0	975.0	1123.0	887.0	795	1123	994
က	TDS	mg/l	807.0	547.0	613.0	760.0	779.0	0.799	777.0	0.7.0	547	779	691
4	Turbidity	NTU	5.1	5.3	6.7	6.2	8.1	9.3	8.7	10.3	2	10	8
5	P-alkalinity as CaCO3	l/gm	22.5	18.5	24.6	23.7	28.4	18.4	17.2	15.6	16	28	21
9	M-Alkalinity (as CaCO3)	l/gm	50.6	33.4	49.3	48.5	37.3	36.8	77.3	28.1	28	77	48
7	Total Suspended Solids	l/gm	< 5.0	< 5.0	11.0	15.0	8.7	< 5.0	< 5.0	< 5.0	6	15	12
∞	Total Hardness as CaCO3	l/gm	285.3	162.5	147.2	331.1	285.3	240.7	275.4	167.3	147	331	241
6	Ca-hardness as CaCO3	mg/l	194.9	98.3	9.96	119.7	184.7	116.1	185.4	118.4	26	185	138
10	Mg hardness (as CaCO3)	l/gm	90.4	64.2	50.6	211.4	100.6	124.6	0.06	48.9	49	211	111
11	Chloride as Cl	l/gm	224.1	202.6	235.2	219.9	199.3	195.2	209.6	211.4	195	235	213
12	Sulphates as SO4	l/bm	72.3	46.8	58.5	52.3	79.5	50.4	63.1	45.4	45	80	59
13	Free Residual CI2	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
41	Iron as Fe	l/gm	1.2	2.1	2.5	1.7	3.1	4.5	4.7	3.7	1.2	4.7	3.3
15	Chemical Oxygen Demand	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.0	0.0	0.0
16	Biochemical Oxygen Demand (3 day at 27°C)	l/bm	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.0	0.0	0.0
17	Carbonate (CO3)	l/gm	32.6	33.2	29.8	25.6	37.1	25.3	34.8	28.4	25.3	37.1	30.4
18	Phosphate (PO4)	l/gm	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	0.0	0.0	0.0
19	Nitrate (NO3)	l/gm	1.2	1.0	1.1	1.0	1.1	1.3	1.1	1.2	1.0	1.3	1.1
20	Fluorides (as F)	l/gm	0.5	0.5	0.4	0.3	0.5	0.5	9:0	0.5	0.3	9:0	0.5
21	Bicarbonate (HCO3)	l/gm	65.3	41.6	50.4	42.6	57.8	61.3	56.5	57.8	41.6	61.3	53.7
22	Sodium (Na)	l/gm	84.5	52.5	64.1	53.5	9.62	57.1	69.5	71.1	52.5	79.6	62.9
23	Potassium (K)	l/gm	4.1	4.2	3.8	2.9	4.8	5.1	3.7	3.6	2.9	5.1	4.0
24	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.0	0.0	0.0
25	Phenol	l/gm	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0:0	0.0	0.0

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	M	MAX	AVG
Parameter UNIT	TINO		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			
- Hd			7.8	7.9	8.1	7.9	7.8	7.9	7.9	7.9	4.0	8.1	7.4
Conductivity µS/cm	mS/cm		1255.0	774.0	952.0	978.0	1218.0	938.0	1025.0	0.606	5.0	1218	905
TDS mg/l	l/gm		835.0	491.0	601.0	620.0	753.0	0.609	653.0	629.0	5.0	753	578
Turbidity NTU	UTN	1	5.6	4.8	6.5	8.9	7.8	6.5	7.8	9.1	0.1	6	7
P-alkalinity as CaCO3 mg/l	l/gm	1	21.3	17.2	26.3	24.2	29.5	20.2	19.4	17.2	5.0	30	21
M-Alkalinity (as CaCO3) mg/l	l/gm	1	44.2	30.9	47.1	43.6	39.1	42.4	65.2	32.6	5.0	65	43
Total Suspended Solids mg/l	l/gm	1	< 5.0	0.6	15.0	17.0	11.0	12.0	14.0	10.0	5.0	17	13
Total Hardness as CaCO3 mg/l	l/gm	1	231.2	148.6	141.5	295.3	258.2	234.5	228.2	191.5	5.0	295	206
Ca-hardness as CaCO3 mg/l	l/gm	1	147.3	99.3	86.3	97.1	161.4	131.4	141.4	132.3	5.0	161	115
Mg hardness (as CaCO3)	l/gm	1	83.9	49.3	55.2	198.2	96.8	103.1	86.8	59.2	5.0	198	100
Chloride as Cl mg/l	l/gm	1	196.5	181.8	258.1	191.2	221.5	176.3	181.8	203.3	2.5	258	187
Sulphates as SO4 mg/l	l/gm	1	63.8	32.5	46.3	50.5	81.3	47.6	51.3	51.4	1.0	81	51
Free Residual Cl2 mg/l	l/gm	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.1	0.1
Iron as Fe mg/l	l/gm		2.5	3.1	3.2	2.1	4.0	4.2	5.1	4.4	0.1	5.1	3.5
Chemical Oxygen Demand mg/l	l/gm		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	1.0	1.0
Biochemical Oxygen Demand (3 mg/l day at 27°C)	l/gm		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0		1.0
Carbonate (CO3) mg/l	l/gm		33.5	22.4	24.3	21.9	45.1	17.2	26.7	28.1	5.0	45.1	26.7
Phosphate (PO4) mg/l	l/gm		< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	3.0	3.0	3.0
Nitrate (NO3) mg/l	l/gm		1.5		1.4	1.5	1.3	1.6	1.3	1.2	0.5		1.3
Fluorides (as F) mg/l	l/gm		2.0		0.5	0.4	0.5	9.0	0.8	9.0	0.2	0.8	0.5
Bicarbonate (HCO3) mg/l	l/gm		62.1	51.3	54.2	47.1	53.5	59.2	63.1	59.3	5.0	63.1	50.6
Sodium (Na) mg/l	l/gm	1	87.2	49.6	72.3	41.3	86.2	58.3	53.1	82.8	0.1	86.2	0.09
Potassium (K) mg/l	l/gm		4.5		4.7	3.0	5.5	6.2	4.7	4.1	0.1		4.3
Oil & Grease mg/l	l/gm		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.2		0.2
Phenol mg/l	l/gm		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0	0.0	0.0
		1											

	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	NIM	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	Hd		7.7	7.7	7.8	7.7	7.9	7.8	7.7	7.8	7.65	7.93	7.80
2	Conductivity	m2/cm	1333.0	618.0	1023.0	1096.0	1302.0	988.0	1076.0	1025.0	618	1302	1054
3	TDS	l/gm	0.968	434.0	683.0	0.069	830.0	703.0	723.0	701.0	434	830	669
4	Turbidity	NTU	5.5	3.8	6.1	7.3	9.3	7.6	6.9	8.3	4	о	7
5	P-alkalinity as CaCO3	l/gm	28.1	10.1	33.2	26.1	32.6	19.4	18.8	16.3	10	33	24
9	M-Alkalinity (as CaCO3)	l/gm	50.6	26.4	51.6	52.4	42.3	46.2	71.6	30.4	26	72	49
7	Total Suspended Solids	l/gm	12.0	11.0	14.0	18.0	20.0	18.0	17.0	13.0	11	20	16
80	Total Hardness as CaCO3	l/gm	278.6	122.4	134.6	348.2	260.5	261.6	296.8	182.6	122	348	244
6	Ca-hardness as CaCO3	l/gm	176.3	84.6	90.5	127.6	162.9	123.2	195.5	127.2	85	196	138
10	Mg hardness (as CaCO3)	l/gm	102.3	37.8	44.1	220.6	97.6	138.4	101.3	55.4	38	221	114
1	Chloride as Cl	l/gm	208.1	151.3	253.6	328.4	219.2	192.1	206.9	216.2	151	328	237
12	Sulphates as SO4	l/gm	69.3	39.6	44.2	57.3	74.6	50.8	55.2	55.6	40	75	56
13	Free Residual Cl2	l/gm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
4	Iron as Fe	l/6m	3.9	4.3	4.2	3.5	5.1	5.2	6.3	6.1	3.5	6.3	5.0
15	Chemical OxygenDemand	l/gm	< 1.0	< 1.0	< 1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
16	Biochemical Oxygen Demand (3 day at 27°C)	l/gm	< 1.0	< 1.0	< 1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0	0.0	0.0
17	Carbonate (CO3)	l/gm	31.9	20.3	32.8	32.1	44.3	18.6	33.4	36.5	18.6	44.3	32.6
18	Phosphate (PO4)	l/gm	< 3.0	> 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	0.0	0.0	0.0
19	Nitrate (NO3)	l/gm	1.3	1.1	1.5	1.3	1.2	1.3	1.2	1.1	1.1	1.5	1.3
20	Fluorides (as F)	l/gm	9.0	0.5	9.0	0.3	0.5	9.0	9.0	9.0	0.3	9.0	0.5
21	Bicarbonate (HCO3)	l/gm	78.7	46.2	53.1	49.6	51.6	63.4	58.3	63.6	46.2	63.6	56.2
22	Sodium (Na)	l/gm	98.4	46.5	89.3	49.4	98.1	58.1	56.1	78.5	46.5	98.1	71.8
23	Potassium (K)	l/6m	5.8	6.3	5.7	4.1	9.9	6.9	5.1	6.2	4.1	6.9	5.7
24	Oil & Grease	l/gm	< 0.2	z·0 >	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
25	Phenol	l/bm	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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

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
				Class A: 2147 KL,	
2	CPP	Naptha and HSD	P/HQ/GJ/15/1982(P12304)	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
				Class A: 920 KL,	
				Class B: 550 KL,	
8	PTD	PG-LFO-PFO-WO	P/HQ/GJ/15/2002(P12324)	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
				Class A: 332 KL,	
10	PTA	p-Xylene, HSD, Methanol	P/HQ/GJ/15/5364(P346978)	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

(October 2023 – March 2024)

						М	onitorin	g Locati	on					
Month		thane ınk		Guest use	Nr. C	CPP	Nr.	PTA		ETP I Pond	RDM	ΓJetty		shwar age
	Day Time	Night Time												
		II.	ı	II.		Ambier	nt Noise	Levels i	n dB(A)	II.			I	
Oct-23	55.2	51.5	48.9	45.2	54.8	52.1	59.1	54.4	53.7	50.3	52.6	49.1	57.4	52.7
Nov-23	52.6	50.1	51.3	48.7	53.3	50.8	55.8	51.3	52.6	50.3	51.4	48.7	53.8	50.6
Dec-23	54.9	50.1	50.5	48.2	54.7	51.3	57.8	54.1	55.9	54.4	55.2	53.8	56.6	51.4
Jan-24	55.4	49.7	52.7	49.1	53.8	50.4	50.7	53.7	57.9	53.1	56.3	54.2	55.8	50.3
Feb-24	56.3	48.6	51.8	49.8	54.1	50.9	51.7	49.1	58.2	52.7	57.3	53.1	56.2	49.6
Mar-24	57.1	50.3	50.7	48.7	53.8	51.2	52.2	50.8	56.7	51.6	56.8	52.5	54.8	48.9
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	52.6	48.6	48.9	45.2	53.3	50.4	50.7	49.1	52.6	50.3	51.4	48.7	53.8	48.9
Max	57.1	51.5	52.7	49.8	54.8	52.1	59.1	54.4	58.2	54.4	57.3	54.2	57.4	52.7
Avg	55.3	50.1	51.0	48.3	54.1	51.1	54.6	52.2	55.8	52.1	54.9	51.9	55.8	50.6



20 December, 2023

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	14.12.2023	PET3 Plant	Line Reactor bottom flange leak

This is for your kind information and record please.

Thanking you,

Yours faithfully,

For Reliance Industries Limited,

(Jignesh P. Patel)

Head - Safety

Encl: As above

भूतिष्ठ इंबाई अ।।।२।३०२९ भीद्योगिक संबाधती अने स्वास्थ



Date: 28th November, 2023

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 April 2023 to September 2023.

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
- EC Order no. J-11011/402/2007- IA II (I) dated 20th March 2008
- EC Order no. SEIAA /GUJ/EC/5(e)&1(d)/124/2011 dated 23rd June 2011
- 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. SEIANGUJ/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

Llear 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

Rest Resolved Appro Folias John Sorre BHASBEH

Encl.: As above

Co T. Regional Officer,

Gujarat Pollution Control Board, C - 1/119/3, GIDC Phase II. Narmadanagar, Bharuch - 392015. State Environment Impact Assessment Authority (SEIAA).
 Gujarat Politition Control Board.

Paryavaran Bhavan, Sector 10 A.

Gandhiriagar - 382 010



Date: 28th November, 2023

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 - Dahei Manufacturing Division for the period April 2023 to September 2023

- Ref: 1) EC Order no. J-11011/27/90-IA-II dated 14th March 1991
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 - 3) EC Order no. J-11012/11/97-IA-II dated 21st May 1998.
 - 4) EC Order no. J-11011/482/2006-IA-II (f) dated 11th June 2007
 - EC Order no. J-11011/402/2007- IA II (I) dated 20th March 2008.
 - EC Order no. SEIAA /GUJ/EC/5(e)&1(d)/124/2011 dated 23rd June 2011
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 - 8) EC Order no. SEIAA/GUJ/EC/1(d)&7(e)/96/2015 dated 02/d March 2015
 - 9) Amendment in EC No. SEIAA/GUJ/EC/1(d) & 7(a)/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.



Date: 28th November, 2023.

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 2023 to September 2023.

Reference:

- EC Order no. J-11011/27/90-IA-II dated 14th March 1991
- EC Order no. J-16011/45/96-IA-III dated 26th December 1996 EC Order no. J-11012/11/97-IA-II dated 21th May 1998
- EC Order no. J-11011/482/2006-IA-II (I) dated 11th June 2007
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- 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 13" September 2012
- EC Order no SEIAA/GUJ/EC/1(d)&7(e)/96/2015 dated 02rd March 2015
- Amendment in EC No. SEIAA/GUJ/EC/1(d) & 7(e)/583/2016, dated 26th 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 - Danej 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

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

The Member of Secretary,

State Environment Impact Assessment Authority (SEIAA), Gandhinagar

0/2.

Reliance industries Limited CN 9 L17110MH1973PLC019786

RIL-DMD/HSEF/ENV/2018/29

June 18, 2018

To, Member Secretary Gujarat Pollution Control Board, Paryawaran 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 BC dated 3rd April 2017, granted by MoliF, 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.

Dalicj Manufacturing Division

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.



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

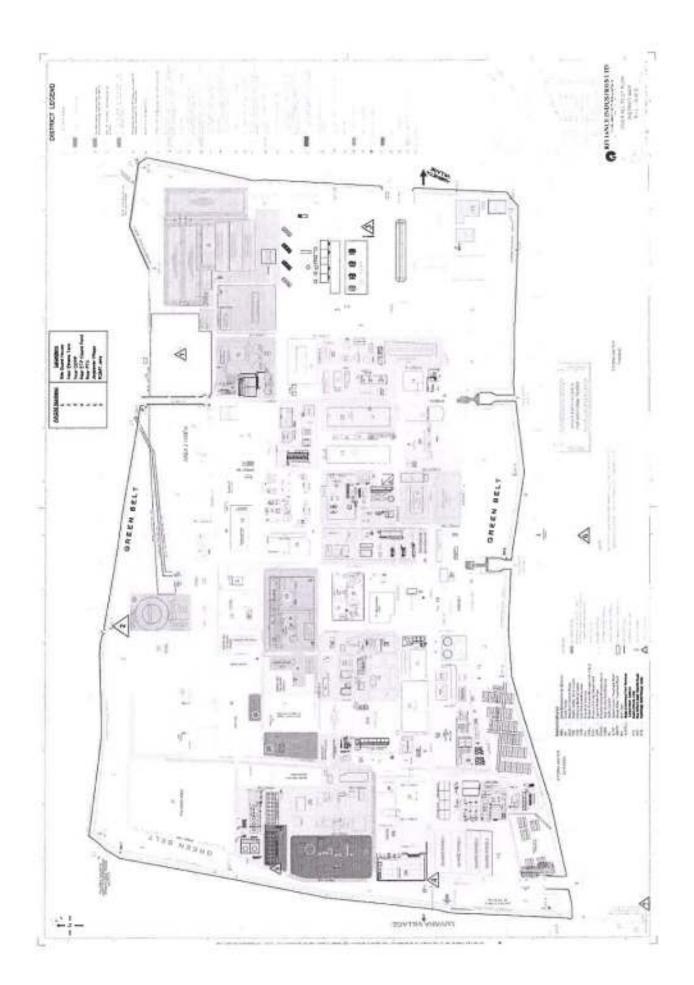
Reliance Industries Limited

Report

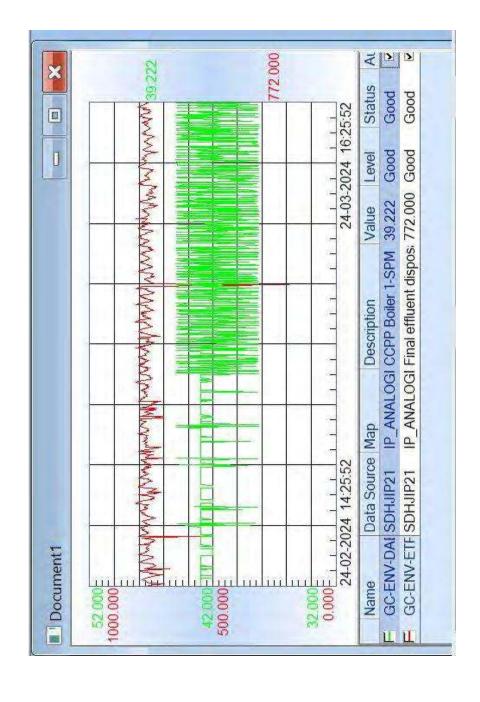
January 2018

www.erm.com





CCPP Boiler-1 Stack - Aspen Process Explorer



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Per (Suget Pandy)

Reliance Industries Limited Dahej Manufacturing Division

Name of Person A	Name of Person Monitoring:	1		1			richanich monding					Mouth: TCD-CH
	or a constant	H	ardile	1 hales							Equipment us	Equipment used:
SI 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	Date of Notification (Attended/ S/D job, inaccessible)	ate of Notification Plant Maintenance	Status of leak Plant Maintenance (Attended/ S/D job,
1	18.02.2024	100	1091/00	VALVE	2.005-003-16000	Ethylana	1:13			J. Colonial	-	manufact support
N	18.02.2024	100	P125A	Pump	140000000	Hexano	2					
tu	18.02.2024	100	P121A	SUCTION VALVE	1400000.00	Houase	2					
٨	18.02.2024	100	P121A	DISCHARGE VALVE	1400000.00	Houase	1111					
ch	18.02.2024	100	P1218	Pump	140000000	Hexane	7 7 7					
6	18.02.2024	100	P122A	Pump	140000000	Hexare	2 7					
7	18.02.2024	100	PIZZA	BUCTION VALVE	140000,00	Heodite	700					
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10	18.02.2024	500	P1228	DISCHARGE VALVE	14/000000	Headne						
11	16.02.2024	100	XV57pt	Valve	2.0/0-EE3-17025-	England						
12	18.02.2024	100	P125A	Punp	HOUGHAL.	Hasana	25					
3	18.02.2024	100	PIZIA	SATVA NOLLDINS	10.00-5M-	Hosans	2					
14	18.02,2024	100	PIZSA	DISCHARGE VALVE	10.00-SML-	Hexano	=					
15	18.02.2024	100	P1250	Pump	10.00-SML-	Hesano						
18	18.02.2024	100	P1250	SUCTION VALVE	10.00-SML-	Heseno	2	- 1				
17	18.02.2024	100	P1250	DISCHARGE VALVE	10.00-SWL-	Hexare	2	-				
18	18.02.2024		177604	Valve		Hexano	2	-				
18	18.02.2024	1001	PIZM	Puelp	10.005.8ML-18003-	Hecano	23	-				
20	18.02.2024	100	P1244	SUCTION VALVE	10.005-SML-18000-	House		-				

Signature (Plant Manager): -

Signature (Maintenance Manager):

Reliance Industries Limited Dahej Manufacturing Division

TOTAL CARREST STATE OF THE PARTY OF THE PART	On Manufacture					Frequency: Quarterly	Juarterly			Quarter:	3011/10/3
tame of Pers		91								Equip	nent used
8.8	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 loak (Attended/ S/D job, Inaccessible)	Date of monitoring after repair	Concentration after Repair (ppm / ppb)
	30, 12, 2023	Gas states	XYIDDI	sake	0.00-663-86570	Ethylane	NIL				A 7000 A 7000
	30 12 2023	Gas station	П	Safety yaive	0,0000	Drigino	NIL				
	30 12 2023	Cast Station		Value	0.000 E03-0070	Ditplase	NIL				
	30 12 2023	Gos statem		Satisty value	046653965°C	Ettylane	NIL				
	30 12 2023	Ges station	XVT203	Value	H2989714-0102	Proceeding	NIC				
	30,12,2023	Gas station	877251	Safety valve	204-PPL9-867W	Propiase	NIL				
	30.12.2023	Ges station	XV1202	Volve	5,120,000	Hydrogen	NIL				
	30,12,2023	Ges Mattern	2051304	Water	NOSER-00311-VB-00.1	Eday	NIL				
	30,12,2023	Gas 886m	XVVIDES	Value	A.G.B. BY HAT 11009-	Balance	NIL				
	30, 12, 2023	ties station	MOCKAN	Vales	1.09.415-12015-bb55ca	Ellylane	NIL				
	30,12,2023	190	STORES	AATWA	2.05-223-1000-53570.0	Ettylete	NIL				
	30.12.2023	100	PERS.	Purp	00000001	Hauaro	NII				
	30,12,2023	900	PIZIA	SHOUND WATER	department.	наши	NIL				
	30.12.2023	100	PIZIA	DISCAHROE VALVE	0.0000000	Hearn	NIL				
	30 12 2023	100	81216	Pump	14000000	Няхало	NIL				
	20 12 2023	100	Person	STOTION WATER	140000000	Heany	NIL				
	30.12.2023	100	PSESS	Purp	94508000	PAGE 1	Z N				
	30.12.2023	100	P1220	BUCKON VALVE	945020.00	Hearn	N				
	30,12,2023	100	P1239	DISCHARGE VALUE	наокоде	Haurs	Z.				
	20,023,00	100		Valve	2,005-650-17020-650700	Shippers.	NIL				
1	30 12 2023	100		Punp	609900-3WS-80000	Hacera	NIL				
	30.12.2023	100	WEIG	DISCHARGE VALUE	COCCEP-MC-00/01	PROFIT	NIL				
	30.12.2023	100	B5234	Punp	22828P-MS-0031	10000	TIM				
	30.12.2023	100	BESTA	SACTION NOTAE	10.000-SHE-BESSOS	Stores	NIII I				
	30,12,2023	100	BEELA	DISCHARGE VALVE	15/043-5ML-88565031	Heore	NI.				
	2002.21.00	100	MERKE	Yaha		Heodera	NIL				
	0202.21.00	100	PISMA	greeb	1206-5W-1400-8867CE	Hoose	NIL				
75.55	30, 12, 2023	100	Wester	BATANAGUSUS	10.00-GWL-19003-9867C8	Hours	NI.				
	30,12,2023	100	VP214	SATAN BORNHORO	16.005-8W-18000-88657C8	House	NIL				
	30.12.3023	100	P124B	grand	10 000-3ML 10001-3M2-00 01		NIL				
	30.12.2023	100	89214 69214	BUTHAN MATAE	10.00.001.0001.884100		NIL				
827	30.12.2023	031	91048	DISCHARGE WALVE	10.000.000.0000.0000.000	100000	NII				
	30.12.2023	100	106114	Valve	The same same and a same same	announ .					
	30 12 2023	100		Valve	Contract Con	NOON!	MIL				
950	30.12.2023	ij		Jahre	OCCUPANT STREET, STREE	Thomas	NII				
	30 12 2023	100	PVISGE	Velve	The same of the sa	20000					
	30, 12, 2023	100		Valva	CANADA-FEBRUARION	British	NIL				

Signature (Maiedenance Manager):

30,12,2023	5 5	2044402	Value	3.30-87-44011-8860H	States	14.5
30.12.2023	430	Atthe	Purip	#.00H0L-1012-88590		12121
00.12.2023	800	Year	SATAN NOLLDOK	8.00-HDL-41012-58555	налага	7
30,12,2023	420	Tribbel.	DISCHARGE VALVE	26688-21017-10H-0008	Hearth	
30.12.2023	400	Bitted	Purg	* D988821019-100-600-6	Hears	2
30,12,2023	400	811140	SWITH MOLLONG	\$.00+DL-1012-85550	Hanne	-
30,12,2023	920	94358	SATAN SERVICES	8.00HOL-1012-88850	#KERS#	
30.12.2023	800	Perze	Part	4 00 HML 4701 48550	Denish)	-
30.12.2023	400	MINE	BUCKING WALVE	09889100 ADD HARD BARD B	man in	
30.12.2023	400	54124	DISCHARGE VALVE	200888445474707A	Parage	
30.12.2023	400	39128	Pasts	200301-11014-3814-00.4	25634	
30.12.2023	404	24120	SATIVAMOLIDAS	4,000-1001-1001-00000	Hessee	1
30 12 2023	400	P4125	SATAN SOUTHD SAG	4,00H4L410/1-08550	Headan	
30.12.2023	400	MESS.	Party	3.55H8C-450000-8888C	House	
30.12.2023	+00.	Pavak	SATAN NOSCONS	201990-00009-00-00-00-00-00-00-00-00-00-00-	790000	-
30 12 2023	400	PATRA	BATAN BESINDED	25588 OKO64-2540 E	TO DO S	1.1
30.12.2023	400	96198	Fremp	5.0/5H5C-450030-88650	1400000	2
30.12.2023	908	P4138	BATTA NOLIDES	3.00H0C-450050-88880	996269	
30.12.2023	400	Pe13B	SONSCHARGE VALVE	3.9/FH2C-450050-BEOSC	House	1
30.12.2023	400	XV4503	Valve	3 35HSC-45000 05000	Heaton	1.1

Reliance industries Limited Dahej Manufacturing Division

T 2103 A 2003 A 2004				\rightarrow 1					II.	If Yes, Give Detail of		Plant	119-1		
AAAA/3cw/ac	A/N	N/A Benddac	N/A pumes Sursene	N/A Butst	Y / N Yapour	N/A	Y/N Valy	Section Nume	Sub Section Name	Equipment Type (Pump,Compressor, FRVs, Valves, Flanges etc.)	Sources ID number	Service Material	REMARK	NAME & SICN OF OPERATOR	ENGINEER SIGN OF
16/02/24	t	3	2	2,	ζ	ζ,	ż	7	1	7	i	1	· old	145	P
27 BOLD	2	Z	7	2	2	3	て	7	1	j	1	1	d X	2	0
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30/L/12/1	20	7	Z	7	Z	7	Z	7	r	ij	p	7	2/0	End.	34
41/2/24	2	3	5	7	7	3	ţ	1	1	1	1	١	S	る中で	0
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26/2/24	ナ	8	1	Z		7	1	1	1	,	1	7	676	545	5
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5×12/04	Z,	Z	2	2	2	2	7	1	1)	7	9. 1	MA	4
54 (5/67	2	Z	2	2	Z	Z	2	1	1	1,	7	١	0,10	PSP .	4

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Name at Person Monitoring:	son Mont	oring:			TOTAL CONTROL OF STREET						Equipment us	Equipment used: LEL meter
No. Non	Monitoring 4	Section Name	Sub Section Name	Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID Number	Service Material	50	PSID Number	Concentration observed (%)	Concentration Date of Notification observed (%) to Plant Maintenance	Concentration Date of Noofication Statu observed (%) to Plant Maintenance (Atland	Concentration Date of Noofication Statu observed (%) to Plant Maintenance (Atland
-	5	Sphero Area	9-00-A	Plange: PSV 2017 AR	ALESSES STATE	PROPANE	- 1	1278-02-04-1-			3	3
N		Spring Area	V00-5	Flavge PSV 2101 A IV	418-92-3149-854	PROPANE		3275-92-04-1-	1	1	1	1
u		Sphore Area	5 GS A	Flange PSV 3101 8 IV	4"-1"-50-3150-814	BANDARE		3276-86-04-1	774-8-04-1- O	1	1	1
		Bahara Area	5-00-A	Flunder PSV biggots line	1 1/2"-P-92-3124-61A	PROPANE		3276-63-04-1-				
U.		Sphere Area	9-03-A	Flange: PSV 3101 A Flaire Inst IV	8-FL-92-3126-B1A	BNNACARE		3278-65-04-1-				
0		Sphero Area	5-03-A	Flange: PSV 1101 8 Flare Inc IV	6"-FL-92-\$127-B1A	PROPANE	_	5276-55-04-1	1	1	1	1
		Sprice Avea	941A	Fitings: Martinia top aldo Jody ling to sphere, Jetly line IV, Vap. Line to aphree, Vap. Line IV	503.4	SAVAGRA	_	3276-02-04-1- 131 H	1	,	,	,
, te		Sphere Area	SGJA	Flange: LSHH 3101, LT 3102, LT 3102, LV, SLTs PQ PQ 3101 park LT 3101, PI 3101	803 A	PROPAGE		3270-92-04-1-	1	1	1	1
	4	Sphere Asse	S03A	Tubing Committant PSHH 8101, PT \$101, PG 9101, DPLT 3102	803A	BWIGH		1270-92-04-1-	1	1	1	1
,	2	Spire Area	\$ED	Flange: Bottom ROV 3101, Jety See ROV 3162 Van Line ROV 3101	VID-8	Bredond	_	3276-92-04-1-	1	1	1	1
	1	any sisude	500 A	Flange Sphere bottom (risk 02 Max LV)	10°-P-82-0104-94A	PROPANE		3276-92-04-1-	-	1	1	1
	2	Spraw Avan	8-03 A	Flange Bottom ins TG 3101	V 10-5	PROPANE		3276-92-04-1-	Ť	Ť	Ť	Ť
1	_	SELY ALBUS	\$-60 A	Flamper bottom line HPV IV	Z-P-92-0140-B1A	PROPANE		3278-92-04-1-	7	7	7	7
,	,	Sphare Area	8-08 A	At Guff any unities adversar	T-P-62-3142-814	PROPANE	200	3275-92-04-1-	175-92-04-1- O			
0	0	Contract Arms	8000	Flange: Projecte bottom line (IV	F19-82-3159-814	PROPANE		1314 1314				
1		Rathman Armen	0 0000	Flange PSLL 4101 IV & re-rubing	8-00 A	PROPARE		1276-82.04-1- 131-H				
1	L	Bidden Arms	DAY .	Flange: 369/ (Birth, Line ROV 3502 NV	81.P-90-0120-81A	BNACOPE		3276-92-04-1- 1314H	200	225	225	225
2 1		Salvere Vieto	8.03 A	Flange, Jody See VVARV	VIB-DVIC-CO-01	BNANDBA		1278-122 D4-1-				
8		School View	5000	Pange: Gioussion line IV	2, VIB-984-28-d15.	BNACONG	$\overline{}$	3276-92 04-1-				
22		Schere Asso	5000	Flange Property line from Garrey SV & MRV	81.P-92-1120.BJX	BWWdOM	-	1276-92-04-1-				
13		Sonoto Asses	5004	LT. CHANGE ALCOHOLD INCO INCO THE THREE TANKS OF THE TANK	41.P-92-4155-B1A	BMMdObd	-	1314				
2			0000	Flange: Vap. Balance ROV 3103 I/V	@-P-92-5122-B1A	BWHOSH		1276-92 04-1-				
2 1		Service very	8 8 8 A	Flange Propare/Propylene Vap. Line	3-A-92-2178-B1A	SWADBIR	-	3278-92 D4-3- 131-4			0	
3		day assure	883	Flatge Propare/Propylene Vap. Line IV	4"-P-92-3170-B1A	HROPANE	_	131-4			0	0
3	L	and an artist	N COMO	Flange: Properte vap. Filter PSV db, (IV	2"-9.92-4153-814	BNANDBH	-	1276-92-04-1-				
,	۷	Water assessed	N 00-6	Flampic Property vop. From Carrary 02 Not. UV, 02 HPV IN Citi Carrary IV	\$-03.A	SWOOde	-	3278-92-04-1-	3278-92-04-1- 6			

CHOOK 121127

Signature Plant Manager, A SIPP / SMALLEXA STUP Name of Person Monitoring: No. LDAR - LEVEL - III 8 65 83 8 82 9 8 \$ 袋 익 8 8 50 9 150 å â Monitoring Date 20.01.2024 20.01.2024 20.01.2024 20.01.2024 20.01.2024 20,01,2024 20.01.2024 20.01.2024 20.01,2024 20.01,2024 20.01.2024 20.01.2024 20.01.2024 20.01.2024 20,01,2024 20.01.2024 20.01.2024 20,01,2024 20.01.2024 20.01.2024 Section PID2 PTD 2 PID 2 PTD2 PTD 2 PTD 2 PTD 2 PTD 2 PID 2 PTD2 PTD 2 PTO 2 PTO 2 PTO 2 PTD 2 PT02 PTD 2 2 Old PTD 2 PTD 2 Gartry
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Cavity EDC unloading EDC unlasting EDC unloading EDC unloading Sub Section Name Garrity wream EDC unloading Flange, P538 Discharge NRV-2 EDC unloading Gantry Flange, P53A/B/C Discharge header isolation Flange, P53A/B/C Discharge header isolation Flange, PS3A Pump Discharge valve _ UP Flange, P53A/B/C Discharge header NRV Down Flange, PS3C Discharge NRV-2 valve Down Flange, P53C Discharge NRV-2 Flange, P53A/B/C Discharge header and blind Flange, P53A/B/C Discharge header isolation Flange, PSSA Pump Discharge valve 2 Up stream Flange, PS3A/B/C Discharge header NRV Down valve 1 Up stream Flange, P53A/B/C Discharge header tecletion Flange, P53A/B/C Discharge header isolston Flange, P53A/B/C Discharge header isotetion Flange, P53C Discharge FT Flange, P53C Discharge valve Down stream Flange, P53C Discharge velve UP stream Flange, P53B Discharge Flange, P53B Pump Discharge Equipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.) vaive. 1 Up stream Flange, P538 Pump Discharge NRV-2 valve UP valve Down stream valve UP stream valve UP valve Down valve Down 3'-p-082-00813-RA1A-N 3'-p-092-00813-RA1A-N 3'-p-092-00813-RA1A-N 3'-p-092-00813-RA1A-N 3'-p-092-00813-RA1A-N 3-p-092-00813-RA1A-N 3-p-052-00813-RA1A-N 3'-p-082-00813-R414-N 3'-p-092-00813-RA1A-N 3'-p-082-00812-RA1A-N 3'-p-092-00812-RA1A-N 3'-p-082-00812-RA1A-N 3'-p-092-00811-RA1A-N 3'-p-092-00811-RA1A-N 3'-p-092-00811-RA1A-N 3-p-092-00811-RA1A-N 7-p-092-00811-RA1A-N 3'-p-092-00811-RA1A-N 3-p-092-00812-RA1A-N 3-p-092-00812-RA1A-N Sources ID Number Frequency: Quarterly Service Material EDC EDC EDC EDC EDC EBC EDC 8 8 EDC EDC 8 BBC EDC EDC EDC EBC EDC Concentration observed (dqq/mqq) 0 0 0 0 0 0 0 0 3 0 Q: 3 0 0 9 0 0 0 0 0 Date of Notification to Plant Maintenance Status of leak (Attended/ S/D job, Inaccessible) Equipment used: VOC meter monitoring after repair Date of Quarter Concentration after Repeir (ppm/ppb) Remark

on his paring

Signature (Maintenance Manager) :

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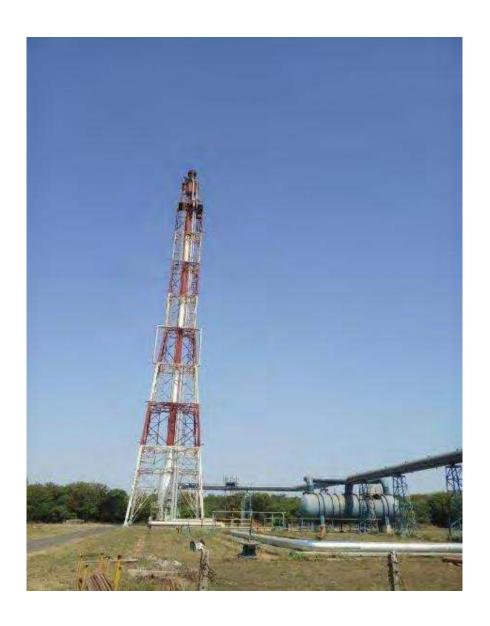
Annexure XXI

List of Alarms in DMD

		FIRE	LEL	TOXIC
S/N	PLANT/ TYPE OF ALARM	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
	HSEF	104		
27	ADMIN BLD	56		
	Total	8007	1182	251

Annexure XXII

Photograph of Flare



Annexure XXIII <u>Diagram & Schematic Plan of Vapour Recovery Unit</u>



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	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid)	
02	Furnace H-11	38	1.115	SO ₂	50 mg/Nm3 (Gas)	
03	Furnace H-12	38	1.115		1700 mg/Nm3 (Liquid)	Low Sulphur Fuel Low NOx Burner
04	Furnace H-13	38	1.115	NOx	350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	
05	Furnace H-14	38	1.115			
[B]	Vinyl Chloride Monomer (VCM) Plant					
06	EDC Furnace H- 210	60	1.4	Particulate matter	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid)	
07	EDC Furnace H- 220	60	1.4	SO ₂	50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Sulphur Fuel Low NOx Burner
08	EDC Furnace H- 1220	75	1.4		450 mg/mm5 (Elquid)	
[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	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid)	
11	Common Stack 2	100	3.6	matter SO ₂	50 mg/Nm3 (Gas)	Low Sulphur Fuel,
[E]	CPP III Plant (2 UB, 1 HRSG, 2 GT, 1 STG)			NOx	1700 mg/Nm3 (Liquid) 350 mg/Nm3 (Gas)	Water Injection in Gas Turbine to reduce NOx
12	UB3	60	2.6	NOX	450 mg/Nm3 (Liquid)	Emissions, Low NOx burners
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	10 mg/Nm3 (Gas) 100 mg/Nm3 (Liquid)	
16	HTM Heater B	60	1.20	SO_2	50 mg/Nm3 (Gas) 1700 mg/Nm3 (Liquid)	Low Sulphur fuel, Low NOx burners,
17	HTM Heater C	60	1.20	NOx	350 mg/Nm3 (Gas) 450 mg/Nm3 (Liquid)	Low Nox burners,
18	HTM Heater D	60	1.20			
[G]	Coal based Captive Co-generation Power Plant (CCPP)					
19	Boiler 1	220	3.7	Particulate matter	50 mg/Nm3	
20	Boiler 2	220	3.7	SO_2	600 mg/Nm3	Dust-trapping through Electrostatic
21	Boiler 3	220	3.7	302		Precipitator (ESP).
22	Boiler 4	220	3.7	NOx	300 mg/Nm3	

Process emissions stacks:

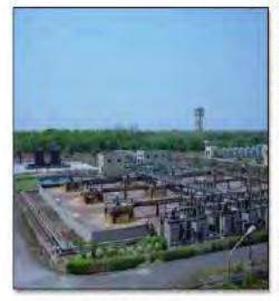
Sr. No	Stack attached to	Stack height in meters	Stack Dia (m)	Parameter	Permissible Limit	Air Pollution Control Equipment
[A]	Chlor- Alkali Plant					
01	Hypo Unit	30	0.35	Cl ₂ HCl	09 mg/Nm3 20 mg/Nm3	Caustic Scrubber (2 stage)
02	HCL Synthesis Unit	30	0.08	Cl ₂ HCl	09 mg/Nm3 20 mg/Nm3	DM Water & Caustic Scrubber
[B]	VCM Plant					
03	Incinerator PK701	65	0.6	Particulate matter SO ₂ NOx	150 mg/Nm3 40 mg/Nm3 25 mg/Nm3	DM Water &
04	Incinerator PK702	65	0.6	HC CO Cl ₂ HCl VCM	15 mg/Nm3 150 mg/Nm3 10 mg/Nm3 30 mg/Nm3 6.6 mg/Nm3	Caustic Scrubber
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	150 mg/Nm3 100 ppm 50 ppm	Cyclone
07	PVC Dryer (1H2)	21	1.3	NOx CO VCM	150 mg/Nm3 6.6 mg/Nm3	Separator & Water Scrubber
[D]	PTA 5 Plant					
08	Off-gas Scrubber Vent D5- 172	51.7	2.5	Particulate	150 mg/Nm3	4
09	Atmospheric Scrubber D5-508	53.2	0.9	matter	40 mg/Nm3	Hydrosonic Scrubber followed by
10	Vent Scrubber (F5-1615) Stream	44.9	1.1	SO ₂ NOx	25 mg/Nm3	cyclone separator
[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	1

^{*} 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

Photographs of RO Plant









INDIA NON JUDICIAL Government of Gujarat Certificate of Stamp Duty

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-GJGJ1310941127199454005433V

Purchased by

NAITIK MATHIKIYA

Description of Document

Article 5(h) Agreement (not otherwise provided for)

Description

UNDERTAKING

Consideration Price (Rs.)

.

(Zero)

First Party

RELIANCE INDUSTRIES LTD

Second Party

GIDC

Stamp Duty Paid By

RELIANCE INDUSTRIES LTD

Stamp Duty Amount(Rs.)

300

(Three Hundred only)





MARS. BINA P. MODI ADVOCATE & NOTARY BHARUCH (GUJ.) (GOVT. OF IND!A) REGD. NO.NTR / 21284 / 2020 SR. No. DATE. 270 / 2023





If The momentum of this Store countries should be an indident "Www.genilestomp.com in using 6-Stores" white App of Stock Holders are the second of the website I Matulia App renders it awards of the second of the

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. I, Dahoj-I Estato, Dahoj	8 MGD	s MGD	* NGD		

Our reservation quantity will not change throughout fife year (From 1: April 2023 to 31: March 2024). and will follow minimum (+2%) maximum (125%) off take rules of the irrigation department and the agricement made between GIDC & RIL.

*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 CPCR consent is enclosed been with duly attested bearing &a: CPCR/RRCH/CCA-717(20)/1D:45565/689234 dtd 25/11/2022, which shows the restriction to use the quantity of water as 1.38,740 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".

Wassure to adhere to the consented "quantity of water" and "quantity for offluent"

Place Dalbert Due: 30.01.2023



Sign & Seal of Authorized Person

Contact Person: Mr. Anis Desail Disignation: Sr. General Manager-Corporate Affairs Wabii v. 76007-44685

Will ID and destiverilland

Solemny Athrmed Signed Declared Before Mrs

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

3 1 JAN 2023



Photograph of Rain Water Harvesting Pond







Photographs of Green Belt developed





Photographs of Facilities at Occupational Health Centre











Occupational Health Centre

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

To	(Final Colony)	Date of Examination	01 Jan 2024
Dept	MFG DMD Ops - CCPP Production	Type of Examination	Periodic
Emp No	600000000	Case No	4600000
Phone(O/M)	/ Salarana	Birth Date	17 Mar 1977
Cadre	PL	Join Date	01 Dec 2007
Location	Occupational Health Center - DMD	Ext. Exam Date	

EUCULUII UCCU	barracan m	- service 4	circui. or	10	NAME AND DESCRIPTIONS	N. PARKET		
			Medical I	Examination Rep	ort			
General Profile				Vision Profile				
Height	177	cms			Wi	thout Correcti	on With	Correction
Weight / BMI	86	Kg/ 2	27.48		R. I	Eye Li	ye R. Eye	L. Eye
Blood Group	B+			Distant			6/6	6/6
Blood Pressure(SI)	138	zmm/?	83	Near	N/	/6 N/	6	
Blood Pressure(DE)	86	rom/h	fg	Colour Vision	Norma	1		
Allergy	1993.8	:1.4500		7868-1896-1981	Althouse			
Lipid Profile				Basic Profile				
S. Chalestrol		176	mg/df	HB	15.6	gm/df	Neutrophils	46
S. Triglycerides		144	mg/dl	ESR	8	mm/1st Hr	Lymhocytes	43
HDL		33	mg/dl	Total WBC	6470	cells/cumm	Mid Cells	
IDI		114	mg/dt	Total RBC	5.45	M/Cumm	Eosinophilis	4
VLDL -		29	mg/dl	Platlet Count	319000	cells/cumm	Monocytes	6
LDL/HDL Ratio		3.5		Blood Sugar(F)	103	mg/dl	Basophils	1
Cholestrol/HDL Ratio		5.3		Blood Sugar(PP)		mg/dl	Mean Blood G	lucose 120
Media de la composição		9-50		Blood Sugar(R)		mg/dl	Glycosylated F	th % 5.8
Pulmonary Function				Kidney Profile		Liv	er Profile	
FVC			Litres	5. 0.87		5.1	Bittirubin	0.4 mg/d
FEV1			Litres	Creatinine 0.87	mg/dl	5.1	Proteins	gm/d
PEFR			Litres	BUN 7.94	rog/dl	5.	Nk. Phosphate	100 TU/L
FEV1/FVC			Litres	Blood 17	mg/dl	5.0	GOT	22 1U/L
Fit for Respirator Use		Yes		rurea		5.0	SPT	27 IU/L
WNL				S. Urlc 5.6	mg/dl	GG	T	27 IU/L

Special Investigation

S. Calcium - ND , Prostate Specific Antigen 0.62 , Urine for Micro Albumin ND , TSH ND , TMT ND , ECHO-ND , USG Abdumen ND

eGFR.

Note: Prostate Specific Antigen report can be viewed after 3 days of PME.

Urine Report

Color-COLORLESS, Reaction-7.0, EpithelialCells-Nil, RBC-Nil, PusCell-1-2, Crystals-Nil, Casts-Nil, Protein-Nil, Sugar-Nil, Acetone-, ketones-Nil, Urobilingen-NORMAL

Clinical Exam		Other Investigation
X-Ray	NAD	Health Score 88
ECG	Normal	
Audiometry	Not Done	
Health Status	Fit For All Work	
Recommendatio	in	

^{*} WNL = Within Normal Limit

102.77 mL/min/1.73m2

^{*} NAD = No Abnormality Detected

^{*} ND = Nat Done

Release On: 01 Jan 2024

Workplace Noise Level Monitoring Report

(October 2023 - March 2024)

	Locations	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
	Educations			Unit : d	Unit : dB(A)					
	Operator Cabin Cell House	53.3	55.2	56.1	55.8	54.9	54.3			
	Operator Cabin Secondary Brine Area	63.6	62.9	60.8	59.9	60.1	59.8		53.30	68.30
Chlor Alkali Plant	Operator Cabin Chlorine Area	68.3	62.5	63.6	63.3	62.5	62.4	60.63		
	Operator Cabin Primary Brine Area Operator Cabin	65.2	64.9	63.8	63.4	61.8	61.9			
	CA Control Room	58.8	61.3	59.6	58.4	62.7	57.7			
VCM	Operator Cabin Unit 2 & 7 O/C	51.4	51.9	53.4	52.8	54.1	52.7	52.75	50.70	56.20
Plant	VCM Control Room	52.7	52.3	56.2	53.3	51.5	50.7			
	Operator Cabin Near Receiving Pit	61.4	61.9	62.4	61.8	65.3	64.9			
PVC	Operator Cabin Bagging Area	65.8	66.2	64.9	65.2	64.4	63.7	59.42 48.5	48.50	66.20
Plant	Operator Cabin Near Chiller Compressor	57.2	57.4	59.2	58.9	59.6	60.1	33.12	40.30	00.20
	PVC Control Room	52.7	52.3	49.8	49.2	48.5	53.3			

		Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
	Locations			Unit :	Unit : dB(A)					
	Local Control Room Panel in EO Storage Area	56.9	55.8	54.3	53.8	54.3	52.8		45.20	
EO-EG	Operator Cabin behind Control Room	59.5	60.7	61.2	59.6	60.1	63.4	56.18		63.40
Plant	Operator Cabin Mechanical Workshop	56.2	60.1	51.2	45.2	50.5	53.5	30.10		
	EOEG Control Room	57.9	56.6	57.1	58.3	59.2	50.1			
	Operator Cabin Area 1	70.5	71.6	72.1	70.7	71.2	70.1		68.66 57.30	75.10
	Operator Cabin Area 2	75.1	74.1	72.3	73.1	72.8	71.9			
GCU Plant	Operator Cabin Area 3	71.2	69.9	68.3	67.9	67.4	66.8	68.66		
	Operator Cabin Area 4	70.9	72.1	70.5	71.2	71.9	70.7			
	GCU Control Room	57.3	59.4	59.2	62.7	58.3	58.7			
	Operator Cabin Near Control Room	52.8	51.9	51.2	52.3	51.9	52.6			
EPRU- OSBL	EPRU Control Room	51.5	52.1	51.9	50.9	51.2	51.9	53.04	54.40	52.10
	OSBL Control Room	54.8	55.5	54.4	55.8	57.6	54.5			
HDPE	Operator Cabin Extruder Building	62.3	61.8	62.7	61.2	60.8	61.1	58.90 50.	50.40	62.70
NUPE	HDPE Control Room	50.4	58.4	57.1	59.9	52.6	58.5			

	Locations		Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
	Locations			Unit :		Unit : dB(A)				
	Operator Cabin GT	62.8	55.4	60.4	58.2	52.2	51.9	EE 20	40.20	62.00
CPP I	CPP Control Room	54.2	56.1	52.9	49.3	55.4	54.6	55.28	49.30	62.80
	Mechanical Room Nr. Stack	61.3	62.4	60.9	61.3	60.1	59.7	58.32	54.30	62.40
CPP II	CPP-II Control Room	55	56.2	57.2	56.2	55.2	54.3		34.30	
	Maintenance Office	45.9	43.6	47.5	46.9	46.3	49.70			
000 111	Rack Room	63.8	64.8	63.1	62.8	64.8	63.10	56.45	43.60	66.30
CPP III	Sub Station	62.9	63.6	66.3	65.4	57.3	56.80			
	Control Room	57.9	56.3	55.2	49.2	50.4	51.20			
	Maintenance Room - 0 Meter	52.7	51.8	53.8	52.7	51.7	52.10			
	CCR Security Desk	61.4	64.7	63.3	64.1	63.2	63.90			
	Boiler Porta Cabin- Block 1	69.2	65.6	62.6	63.3	62.8	62.40			
	O&M Porta Cabin	59.4	61.3	59.9	60.4	59.3	60.10	61.30	51.70	69.40
CCPP	Operator Cabin STG-1 –SWASS Room	68.4	67.3	69.4	68.9	66.5	66.90	01.00	01.10	30.10
	STG 1 – North Side Porta Cabin	56.5	55.8	57.4	56.8	55.4	55.60			
	MCC Room – Ash Handling Area	63.8	61.6	62.6	61.9	62.1	62.40			
	CCPP Control Room	64.7	61.7	59.8	63.3	64.3	67.40			

L	ocations	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
				Unit :	Unit : dB(A)					
	Operator Cabin Propylene Area	58.8	57.4	56.2	55.8	53.7	53.90			
PTD I & II	PTD I Control Room	53.9	54.1	58.1	57.2	60.5	59.80	55.46	45.70	61.60
	PTD II Control Room	53.9	54.9	61.6	46.7	45.7	56.10			
	HTF Control Room	52.3	53.9	53.6	52.9	60.3	59.60	55.90		60.30
PET-3	PET Control Room	55.1	59.3	58.8	54.8	55.4	54.80	33.90	52.30	00.30
	Mechanical Office	54.9	56.2	55.8	52.4	53.8	54.30			
	Instrument Workshop	60.6	59.3	57.9	54.1	54.4	56.20			
PTA-5	PTA-5 Warehouse	63.8	62.6	63.4	60.4	61.3	62.40	57.74	49.80	65.70
	PTA-5 Permit Issuer Room	52.2	54.5	53.9	55.7	56.2	49.80			
	PTA-5 Control Room	57.1	59.2	64.1	65.7	62.5	57.60			
	Mechanical Office	54.9	58.1	55.8	54.2	53.8	54.10			
	Instrument Workshop	60.6	61.3	57.9	56.3	56.1	57.10	57.20	52.30	62.80
PTA-6	Operator Cabin	52.3	57.7	57.2	55.4	56.2	55.80	37.20	J2.30	02.00
	PTA-6 Control Room	57.2	57.6	62.8	58.3	59.4	62.70			
Time	Time Office	57.8	55.2	57.4	56.4	58.2	57.9	56.78	52.70	61.10
Office, MG 1	MG-I	61.1	55.7	56.3	56.6	52.7	56.1	30.70	J2.10	01.10

	Lasting	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Avg	Min	Max
	Locations			Unit :		Unit : dB(A)				
ETP	Main Gate Spent Caustic Treatment Plant	61.5	60.1	61.2	58.8	59.5	61.30	58.38	54.90	61.50
	ETP Control Room	55.2	56.7	55.6	57.6	58.1	54.90			
Jetty	Jetty Control Room Main Gate Near Terminal Building	53.8	49.8	50.2	51.7	52.3	51.90	47.73	40.40	53.80
	Jetty Control Room	43.1	42.4	40.4	41.6	48.7	46.90			
	ASU-4 Substation	70.2	71.2	72.1	71.5	70.4	69.90			
	N2O2 Control Room	57.4	56.8	55.9	56.1	54.9	55.10			
	ASU Control Room	60.3	61.2	59.8	60.4	59.2	59.20			
IOP	Raw Water Treatment Plant Control Room	61.2	60.4	62.4	57.6	60.3	60.60	62.89	54.90	73.10
	Fire Water Treatment Plant Control Room	55.1	60.9	58.8	59.1	58.9	59.20			
	On Road at Main Gate at N2O2 Control Room (East S/S Side)	72.2	73.1	72.7	71.2	69.5	69.10			
Ethane	Sub Station	55.9	56.6	56.1	54.9	55.4	56.4	54.08	48.80	56.60
Plant	Ethane Control Room	48.8	50.2	50.4	54.8	54.2	55.3	J-1.00	40.00	00.00

Annexure XXXIII

Noise Control Measures provided in Plants



Acoustic Enclosure for Turbines



Acoustic Enclosure for Generators



Acoustic Enclosure for Compressors



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,

(lionesh P Pa

(Jignesh P Patel) Head-Safety.

Enclosures:

1. Safety Report

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Reliance	Reliance Industries Limited	DMD Emergency Plan
		THE RESERVE OF THE PARTY OF THE



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, 5 sec - 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

PBQ 28-1

016

Prepared By : SSM HEAD	Rev. :14
Reviewed By: FIRE DEPT, HEAD	Date : 25.11.2017
Approved By: SITE PRESIDENT	Page no: 1



20 December, 2023

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	14.12.2023	PET3 Plant	Line Reactor bottom flange leak

This is for your kind information and record please.

Thanking you,

Yours faithfully,

For Reliance Industries Limited,

(Jignesh P. Patel)

Head - Safety

Encl: As above

भूतिष्ठ इंबाई अ।।।२।३०२९ भीद्योगिक संबाधती अने स्वास्थ

Reliance	Reliance Industries Limited	DMD Emergency Plan		



Reliance Industries Limited

Dahej Manufacturing Division

DMD EMERGENCY PLAN

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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

PBQ 28-1

016

Prepared By : SSM HEAD	Rev. :14			
Reviewed By: FIRE DEPT, HEAD	Date : 25.11.2017			
Approved By: SITE PRESIDENT	Page no: 1			

Photograph of Siren installed at SSM Building





शुक्ररात गुजरात GUJARAT

MIN UPOL WHOMAND MAN Sishisi Bear -161 Hells HB 1260 - SION. CF નામાં આપ્યા છે. EXI FOUT SE CHENOUSED

નીતા આર. કા સીવીલ કોર્ટ, ભરૂચ (11 di 4 'ec

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/COO RÎL, DMD HIL

Sr. VP. Managing (Plant Head) Director GCPTCL PLL

G.M. (Plant Head) GACL

Plant Manager

Chief Operating Officer

(ONGC Dahej Plant) ONGC Petro additions Limited (OPaL)

Dahej

Executive Director (O & M) Torrent Power Ltd.

Dahej- SEZ

Page 1 of 8

MEMBERS

- M/s RELIANCE INDUSTRIES LIMITED.DAHEJ MANUFACTURING DIVISION GANDHAR PETROCHEMICALS COMPLEX, PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130
- M/s HINDALCO INDUSTRIES LIMITED (UNIT-BIRLA COPPER LIMITED, DAHEJ) LAKHIGAM, PO: DAHEJ, TALUKA VAGRA, DIST-BHARUCH-392130
- M/s GUJARAT CHEMICAL PORT TERMINAL COMPANY LIMITED LAKHIGAM, PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130
- M/s PETRONET LNG LIMITED LAKHIGAM, PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130
- M/s GUJARAT ALKALIES AND CHEMICALS LIMITED Plot No- 03, PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH -392130
- M/s OIL AND NATURAL GAS CORPORATION LIMITED (Unit: DAHEJ PLANT, DAHEJ) Works: SEZ PART II, AT & PO: DAHEJ, TALUKA VAGRA, DIST. BHARUCH-392130.
- 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
- 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

(Plant Head)

(Plant Head)

RIL, DMD

HIL

GCPTCL

PLL

GACL

Plant Manager

Chief Operating Officer

(ONGC Dahej Plant) ONGC Petro additions Limited (OPaL)

Dahei

Executive Director (O & M)

Torrent Power Ltd. Dahej- SEZ

Annexure XXXIX

Photographs of Waste Storage Area









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

INDIAN PETROCHEMICALS CORPORATION LIMITED GANDHAR COMPLEX P.O. Dahej, Ta. Vagra, Dist. Sharuch – 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 - 382 130. 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

(Sushii Kumar) President

INDIAN PETROCHEMICALS CORORATION LIMITED GANDHAR COMPLEX, DAHEJ - 392130

જાહેર નિવેદન

कारामां कारोशत खोकमार्था जिद्याशित के पेक्ष प्रोचे करनी प्रमादाशा मांपूरी व्यापी आहेर एकताले प्रधानमानुं के प्रारंत संस्कारण प्रधानमा कारो वात मंगादाने तेना त्यारिक प्रधान प्रदान स्थान संस्कार कारों के प्रधान से स्थान प्रधान प्रधान प्रधान प्रधान प्रधान कारों कारो

18. 92-92-2019 (2008-2 (168-2

D"SANDESH"

ot: August 80,07.

Compliance Status for the Environmental Clearance Order No. J-11011/482/2006-IA II (I), dated 11th June 2007 as on 31st March 2024

SR. No.	Conditions of the Environment Clearance	Comp	Compliance Status of the Conditions of EC					
1	The gaseous emissions (SO2, NOx, CO, NMHC, CI2 and HCI) 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.	Gaseous emissions of SO ₂ , NOx, HC, Cl ₂ and HCl from produnits are monthly monitored through MoEF&CC recognized & Naccredited laboratory M/s Netel (India) Limited, Navi Mumbai its results shown below indicate the conformance to the GF prescribed standards. MoEF&CC recognition letter and NABL certificate of M/s N (India) Limited is enclosed as Annexure II . A summary of the emission results from process stacks monitor as per consolidated consent & authorization for the period Oct 2 Mar'24 is presented below.					& NABL bai and GPCB S Netel	
		Plant	Parameter	GPCB Consent Limit	Avg	Min	Max	
			PM (mg/Nm3)	150	3.22	2.38	4.25	
			SO2 (mg/Nm3)	40	6.80	5.45	8.46	
			NOx (mg/Nm3)	25	17.29	12.32	20.74	
		VCM - Stack	Cl2 (mg/Nm3)	10	<1.0	<1.0	<1.0	
		attached to Incinerator	HCI (mg/Nm3)	30	2.38	2.10	2.76	
			CO (mg/Nm3)	150	1.24	1.18	1.35	
			HC (mg/Nm3)	15	2.38	2.14	2.73	
			VCM (mg/Nm3)	6.6	<1.5	<1.5	<1.5	
		VCM Plant –	Cl2 (mg/Nm³)	10	<1.0	<1.0	<1.0	
		Stack attached to Vent Scrubber	HCI (mg/Nm³)	30	2.60	2.41	2.76	
		to voin colubbol	HC (mg/Nm ³)	15	< 0.2	< 0.2	< 0.2	
		Chlor Alkali Plant - Stacks Attached to	Cl2 (mg/Nm3)	9	<1.0	<1.0	<1.0	
		Hypo and HCl synthesis Unit	HCI (mg/Nm3)	20	2.83	2.15	3.86	
			PM (mg/Nm3)	150	3.43	2.75	3.85	
			SO2 (ppm)	100	8.22	6.42	9.54	
		PVC Plant- Stacks attached	NOx (ppm)	50	20.55	15.32	24.36	
		to PVC Dryers	CO (mg/Nm3)	150	2.36	2.24	2.63	
			VCM (mg/Nm3)	6.6	<1.5	<1.5	<1.5	
		PTA Plant - Stacks attached	PM (mg/Nm3)	150	3.15	2.12	3.83	
		to Off gas scrubber, atmospheric	SO2 (mg/Nm3)	40	<5	<5	<5	
		scrubber and vent scrubber	NOx (mg/Nm3)	25	<4	<4	<4	

In the event of failure of Pollution control systems in the plant are connected through CCS system. In the event of failure of pollution control system the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency. Pollution control systems in the plant are connected through DCS system. In the event of failure of pollution control system which prevents the promote from restarting and pollution control system is rectified immediate and pollution control system of the DCS system which prevents the promote from restarting and pollution control system is rectified immediate. During the period of Oct'23 – Mar'24, no such failure of pollution control system is rectified immediate. Photograph of the state-of-art control room equipped with system can be seen in Annexure IV.
Complied.
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 site has established 7 ambient air quality monitoring stations within and outside the petrochemical complex considering directions and the maximum Ground Level Concentration downwind direction. Mathematical Modelling report submitted to GPCB along AAQM location map can be seen in Annexure XVII. Ambient air monitoring is carried out twice a week at each locathrough MoEF&CC recognized & NABL accredited laboratory Netel (India) Limited, Navi Mumbai. MoEF&CC recognition letter and NABL certificate of M/s N (India) Limited is enclosed as Annexure II. A summary of the AAQ monitoring results of Oct'23 – Mar'24 and given below
Parameter Consent Average Min Max
PM ₁₀ 100 μg/m ³ 62.70 43.00 76.00
PM _{2.5} 60 µg/m ³ 23.06 10.00 38.00
SO ₂ 80 µg/m ³ 22.63 12.90 31.50
NOx 80 µg/m³ 29.49 20.00 37.60
O ₃ 180 μg/m ³ 8.20 4.70 10.50
NH ₃ 400 μg/m ³ 18.48 10.50 29.40
CO 4 mg/m³ 1.53 1.20 1.86
Benzene 5 μg/m³ < 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/m³ 5.32 0.00 8.30
BAP 1 ng/m ³ < 0.5 < 0.5

		from the above ds prescribed by		ii resuits are	e contor
		Monitoring data		red as Ann	exure V
	Complied.				
The monitoring network must be decided based on modelling exercise to represent short term GLCs	AAQ monitorir	ng network is died out by NEE			
	Report of ma enclosed as A	thematical mod nnexure XVII.	delling carrie	d out by N	M/s. ER
	Complied.				
Continuous online stack monitoring equipment should be installed for measurement of SO2 and NOx.		lline stack moni of SO ₂ and all stacks.			
	One such tre	nd of CEMS o	of one of the	e plant is	enclose
Data on VOC shall be monitored and submitted to the SPCB/Ministry.	through MoEF Netel (India)	ne) monitoring i &CC recognize Limited, Navi ne GPCB / MoE	d & NABL ad Mumbai and	ccredited la	boratory
	MoEF&CC red (India) Limited	cognition letter			of M/s 1
	(India) Elimited	is enclosed as	Annexure II.	•	
	The monitoring	g results for the	e VOCs (Bei	nzene) are	
	The monitoring	g results for the	e VOCs (Bei	nzene) are	
	The monitoring AAQM monitor	g results for the ring results of C GPCB Consent Limit 100 µg/m³	e VOCs (Bel oct'23 – Mar'2	nzene) are 24 as given	below Max
	The monitoring AAQM monitoring Parameter PM10 PM2.5	g results for the ring results of C GPCB Consent Limit 100 µg/m³ 60 µg/m³	e VOCs (Ber oct'23 – Mar'2 Average 62.70 23.06	Min 43.00 10.00	Max 76.00 38.00
	Parameter PM ₁₀ PM _{2.5} SO ₂	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³	e VOCs (Bel oct'23 – Mar'2 Average 62.70 23.06 22.63	Min 43.00 10.00 12.90	76.00 38.00 31.50
	Parameter PM10 PM2.5 SO2 NOX	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³	Average 62.70 23.06 22.63 29.49	Min 43.00 10.00 12.90 20.00	76.00 38.00 31.50
	Parameter PM ₁₀ PM _{2.5} SO ₂ NOx O ₃	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 80 μg/m³	e VOCs (Ber oct'23 – Mar'2 Average 62.70 23.06 22.63 29.49 8.20	Min 43.00 10.00 12.90 20.00 4.70	76.00 38.00 31.50 37.60
	Parameter PM ₁₀ PM _{2.5} SO ₂ NOx O ₃ NH ₃	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48	Min 43.00 10.00 12.90 20.00 4.70 10.50	76.00 38.00 31.50 37.60 10.50
	Parameter PM10 PM2.5 SO2 NOX O3 NH3 CO	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 mg/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20	76.00 38.00 31.50 37.60 10.50 29.40
	Parameter PM ₁₀ PM _{2.5} SO ₂ NOx O ₃ NH ₃ CO Benzene	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 mg/m³ 5 μg/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53 < 1.0	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20 < 1.0	76.00 38.00 31.50 37.60 10.50 29.40 1.86
	Parameter PM10 PM2.5 SO2 NOX O3 NH3 CO	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 mg/m³ 5 μg/m³ 1 μg/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20	Max 76.00
	The monitoring AAQM monitor Parameter PM10 PM2.5 SO2 NOX O3 NH3 CO Benzene Pb	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 mg/m³ 5 μg/m³ 1 μg/m³ 6 ng/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53 <1.0 <0.1 <1.0	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20 < 1.0 < 1.0	76.00 38.00 31.50 37.60 10.50 29.40 1.86 < 1.0
	The monitoring AAQM monitor AAQM monitor Parameter PM10 PM2.5 SO2 NOX O3 NH3 CO Benzene Pb As	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 mg/m³ 5 μg/m³ 1 μg/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53 < 1.0 < 0.1	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20 < 0.1	76.00 38.00 31.50 37.60 10.50 29.40 1.86 < 1.0 < 0.1
	The monitoring AAQM monitor AAQM monitor Parameter PM10 PM2.5 SO2 NOX O3 NH3 CO Benzene Pb As Ni BAP VOCs at the punder the Lea	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 5 μg/m³ 1 μg/m³ 6 ng/m³ 20 ng/m³	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53 < 1.0 < 0.1 < 1.0 5.32 < 0.5 e also being and Repair Pr	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20 < 1.0 < 0.1 < 1.0 0.00 < 0.5 monitored i ogram (LD	Max 76.00 38.00 31.50 37.60 10.50 29.40 1.86 < 1.0 < 0.1 < 1.0 8.30 < 0.5
	The monitoring AAQM monitor AAQM monitor Parameter PM10 PM2.5 SO2 NOX O3 NH3 CO Benzene Pb As Ni BAP VOCs at the plunder the LeatLDAR Report of Complied.	g results for the ring results of C GPCB Consent Limit 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 μg/m³ 5 μg/m³ 1 μg/m³ 6 ng/m³ 1 μg/m³ cocess areas areas areas detection are	Average 62.70 23.06 22.63 29.49 8.20 18.48 1.53 <1.0 <0.1 <1.0 5.32 <0.5 e also being and Repair Pris enclosed a	Min 43.00 10.00 12.90 20.00 4.70 10.50 1.20 < 1.0 < 0.1 < 1.0 0.00 < 0.5 monitored i ogram (LD	Max 76.00 38.00 31.50 37.60 10.50 29.40 1.86 < 1.0 < 0.1 < 1.0 8.30 < 0.5

	[F "	Le w				•	., .
3	Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored.	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) plar is enclosed as Annexure XX .					TD) plant
		Complied.					
	Sensors for detecting HC leakage shall also be provided at strategic locations.	1182 LEL detection at strategic locations, yards, et	ations like nea				
		List of detectors	s installed is en	closed as	Annexu	re XXI.	
		Complied.					
	The company shall use low sulphur fuel to minimize SO2 Emission.	The Low Sulfu emissions. Etha sulphur content	ane / NG usag				
		Complied.					
4	The company shall install online O2 monitor in the furnaces	20 online O ₂ moof combustion e		illed in the	turnaces	s to кеер	tne track
	Boilers shall be operated with	Complied. Flue gas emissi	ions from the st	acks attac	had to th	ne hoiler	furnaces
	minimum excess air for optimal fuel consumption and to minimize NOx emission.	/ heaters are re NABL accredite MoEF&CC reco	gularly monitor d laboratory M/ ognition letter	ed through s Netel (In and NABI	n MoEF8 dia) Limi _ certific	kCC reco ted, Navi	gnised & Mumbai.
		(India) Limited i The summary o Mar'24 is prese	f flue gas emis			period of	⁻ Oct'23 –
		Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
		Flue Gas Emissi		T	ı	T	
		GCU Plant -	PM (mg/Nm ³)	10	3.14	2.48	3.76
		Stack attached Furnaces	SO ₂ (mg/Nm ³)	50	6.31	4.36	7.46
			NOx (mg/Nm ³)	350	57.85	51.25	64.13
		VCM Plant -	PM (mg/Nm ³)	10	3.20	2.25	3.92
		Stack attached to EDC	SO ₂ (mg/Nm ³)	50	7.21	4.75	9.16
		Furnaces	NOx (mg/Nm ³)	350	63.19	55.42	68.74
		CPP Plant -	PM (mg/Nm ³)	10	3.56	3.56	3.56
		Boilers / HRSGs stacks	SO ₂ (mg/Nm ³)	50	6.74	6.74	6.74
			NOx (mg/Nm ³)	350	62.74	62.74	62.74
		PET-3 Plant -	PM (mg/Nm ³)	10	3.53	3.05	4.10
		Stacks attached to Heaters	SO ₂ (mg/Nm ³)	50	8.47	7.42	9.58
			NOx (mg/Nm ³)	350	62.00	53.18	68.36
		CCPP – Stacks	PM (mg/Nm ³)	50	22.05	14.53	25.18
		attached to					

		NO (N) 2) 000 7407 0405 0054
		NOx (mg/Nm³) 300 74.97 64.65 82.54 ("- ": Plant was not in operation / under Shutdown)
		The above results are conforming to the norms specified by GPCB during review period of Oct'23 – Mar'24.
		Detailed stack emission monitoring report is enclosed as Annexure III.
		Complied.
	Fire stack burners and steam injection system shall be designed for smokeless operation to minimize	Steam injection system is provided in flare stacks for reducing NOx generation and have smokeless operation.
	NOx emission.	Complied.
5	For Control of fugitive emission, the company shall provide for a main flare system and an auxiliary flare system and route all unsaturated	All plant vents containing unsaturated hydrocarbons are routed to the main flare and auxiliary flare (LP flare) system for controlling of fugitive emissions.
	hydrocarbons to the flare system.	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.
	All the pump and other equipment's where there is like hood of HC leakage shall be provided with LEL indicators	1182 LEL detectors for monitoring HC leakages have been installed at strategic locations like main pumps, compressors, storage tanks yards, etc.
	Indicators	List of detectors installed is enclosed as Annexure XXI .
		Complied.
	also provide for immediate isolation to such equipment, in case of a leakage,	Isolation of leaking equipment is immediately done based on the LEL detector alarm.
		Complied.
	The company shall adopt leak detection and repair (LDAR) programme for quantification and control of fugitive	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 (Oct'23 – Mar'24) the same were carried out at all the plants.
	emissions.	Typical LDAR Report of one the plant is enclosed as Annexure XIX .
		Complied.
6	The product-loading gantry shall be connected to the product sphere in closed circuit through the vapour arm connected to the tanker	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.
	Data on fugitive emissions shall be regularly monitored and records maintained.	Data on Fugitive emissions are being regularly monitored through LDAR program and records maintained.
	mamameu.	Typical LDAR Report of one the plant is enclosed as Annexure XIX .

		Complied.						
7	The company shall ensure that no halogenated organic is sent to the flares	incinerator unit	No halogenated organics are sent to flares. It is always sent to incinerator unit.					
	If any of the halogenated organic are present then the respective streams may be incinerated, if there are no technically feasible or economically	Complied. Halogenated organics from VCM plant are incinerated in the incinerator provided at the plant as recovery is not technoeconomically feasible.						
	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.	hydrocarbons,	ams containing are connected e not sent to flar	to the exi				
8	All new standards/norms that are being proposed by the CPCB for petrochemical plants shall be applicable for the proposed	The site is conf / GPCB whiche The process ve	forming to the state ever is stringent, ents of various p	for petroc lants are n	hemical nonthly	plants. monitor	ed through	
	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	(India) Limited	cognized & NAI , Navi Mumbai a ce to the GPCE	and its resi	ults sho	wn belc	w indicate	
	process vent standards for top priority chemicals		cognition letter is enclosed as			cate of	M/s Netel	
			Summary of monthly monitored values for the reporting period Oct'23 – Mar'24 is presented as below				ing period	
		Plant	Parameter	GPCB Consent Limit	Avg	Min	Max	
		Plant	Parameter PM (mg/Nm³)	Consent	Avg 3.22	Min 2.38	Max 4.25	
		Plant		Consent Limit				
		Plant	PM (mg/Nm³)	Consent Limit	3.22	2.38	4.25	
		VCM - Stack	PM (mg/Nm³) SO ₂ (mg/Nm³)	Consent Limit 150 40	3.22 6.80	2.38 5.45	4.25 8.46	
			PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³)	Consent Limit 150 40 25	3.22 6.80 17.29	2.38 5.45 12.32	4.25 8.46 20.74	
		VCM - Stack attached to	PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³) Cl ₂ (mg/Nm³)	Consent Limit 150 40 25 10	3.22 6.80 17.29 <1.0	2.38 5.45 12.32 <1.0	4.25 8.46 20.74 <1.0	
		VCM - Stack attached to	PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³) Cl ₂ (mg/Nm³) HCl (mg/Nm³)	Consent Limit 150 40 25 10 30	3.22 6.80 17.29 <1.0 2.38	2.38 5.45 12.32 <1.0 2.10	4.25 8.46 20.74 <1.0 2.76	
		VCM - Stack attached to	PM (mg/Nm³) SO ₂ (mg/Nm³) NOX (mg/Nm³) Cl ₂ (mg/Nm³) HCI (mg/Nm³) CO (mg/Nm³) HC (mg/Nm³)	Consent Limit 150 40 25 10 30 150	3.22 6.80 17.29 <1.0 2.38 1.24	2.38 5.45 12.32 <1.0 2.10 1.18	4.25 8.46 20.74 <1.0 2.76 1.35	
		VCM - Stack attached to Incinerator	PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³) Cl ₂ (mg/Nm³) HCl (mg/Nm³) HC (mg/Nm³) VCM (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15	3.22 6.80 17.29 <1.0 2.38 1.24 2.38	2.38 5.45 12.32 <1.0 2.10 1.18 2.14	4.25 8.46 20.74 <1.0 2.76 1.35 2.73	
		VCM - Stack attached to Incinerator	PM (mg/Nm³) SO ₂ (mg/Nm³) NOX (mg/Nm³) Cl ₂ (mg/Nm³) HCI (mg/Nm³) CO (mg/Nm³) HC (mg/Nm³) VCM (mg/Nm³) CI2 (mg/Nm³) HCI (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5	
		VCM - Stack attached to Incinerator VCM Plant - Stack attached to Vent Scrubber	PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³) Cl ₂ (mg/Nm³) HCl (mg/Nm³) CO (mg/Nm³) HC (mg/Nm³) VCM (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6 10	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0	
		VCM - Stack attached to Incinerator VCM Plant — Stack attached to Vent	PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³) Cl ₂ (mg/Nm³) HCl (mg/Nm³) HC (mg/Nm³) VCM (mg/Nm³) Cl2 (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) Cl2 (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6 10 30	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0 2.41	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0 2.76	
		VCM - Stack attached to Incinerator VCM Plant — Stack attached to Vent Scrubber Chlor Alkali Plant - Stacks	PM (mg/Nm³) SO ₂ (mg/Nm³) NOX (mg/Nm³) Cl ₂ (mg/Nm³) HCI (mg/Nm³) CO (mg/Nm³) VCM (mg/Nm³) VCM (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6 10 30 15	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0 2.60	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0 2.41 < 0.2	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0 2.76 < 0.2	
		VCM - Stack attached to Incinerator VCM Plant – Stack attached to Vent Scrubber Chlor Alkali Plant - Stacks Attached to Hypo and HCl	PM (mg/Nm³) SO ₂ (mg/Nm³) NOx (mg/Nm³) Cl ₂ (mg/Nm³) HCl (mg/Nm³) CO (mg/Nm³) VCM (mg/Nm³) VCM (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6 10 30 15 9	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0 2.60 < 0.2	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0 2.41 <0.2 <1.0	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0 2.76 < 0.2 <1.0	
		VCM - Stack attached to Incinerator VCM Plant - Stack attached to Vent Scrubber Chlor Alkali Plant - Stacks Attached to Hypo and HCI synthesis Unit	PM (mg/Nm³) SO ₂ (mg/Nm³) NOX (mg/Nm³) Cl ₂ (mg/Nm³) HCI (mg/Nm³) CO (mg/Nm³) VCM (mg/Nm³) VCM (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) PM (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6 10 30 15 9 20	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0 2.60 < 0.2 <1.0	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0 2.41 < 0.2 <1.0 2.15	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0 2.76 < 0.2 <1.0 3.86	
		VCM - Stack attached to Incinerator VCM Plant – Stack attached to Vent Scrubber Chlor Alkali Plant - Stacks Attached to Hypo and HCI synthesis Unit PVC Plant-Stacks attached to	PM (mg/Nm³) SO ₂ (mg/Nm³) NOX (mg/Nm³) Cl ₂ (mg/Nm³) HCl (mg/Nm³) CO (mg/Nm³) VCM (mg/Nm³) VCM (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) HCl (mg/Nm³) SO ₂ (ppm) NOX (ppm)	Consent Limit 150 40 25 10 30 150 15 6.6 10 30 15 9 20 150	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0 2.60 <0.2 <1.0	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0 2.41 < 0.2 <1.0 2.15 2.75	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0 2.76 < 0.2 <1.0 3.86 3.85	
		VCM - Stack attached to Incinerator VCM Plant – Stack attached to Vent Scrubber Chlor Alkali Plant - Stacks Attached to Hypo and HCl synthesis Unit PVC Plant-Stacks	PM (mg/Nm³) SO ₂ (mg/Nm³) NOX (mg/Nm³) Cl ₂ (mg/Nm³) HCI (mg/Nm³) CO (mg/Nm³) VCM (mg/Nm³) VCM (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) HCI (mg/Nm³) PM (mg/Nm³)	Consent Limit 150 40 25 10 30 150 15 6.6 10 30 15 9 20 150 100	3.22 6.80 17.29 <1.0 2.38 1.24 2.38 <1.5 <1.0 2.60 < 0.2 <1.0 2.83 3.43 8.22	2.38 5.45 12.32 <1.0 2.10 1.18 2.14 <1.5 <1.0 2.41 < 0.2 <1.0 2.15 2.75 6.42	4.25 8.46 20.74 <1.0 2.76 1.35 2.73 <1.5 <1.0 2.76 < 0.2 <1.0 3.86 3.85 9.54	

		PTA Plant -	PM (mg/Nm³)				
		Stacks attached to Off	, ,	150	3.15	2.12	3.83
		gas scrubber,	SO ₂ (mg/Nm ³)	40	<5	<5	<5
		atmospheric scrubber and vent scrubber	NOx (mg/Nm³)	25	<4	<4	<4
		It can be seen to the standards		table that	all resul	ts are co	onforming
		Detailed monito	oring report is e	nclosed as	Annex	ure III.	
I		Complied.					
	The company shall install online monitors for VOC measurements. Action on above should be taken during the detailed design stage of	Online detector been installed a properties of ch	at appropriate I	ocations ir	n the pla	ants base	ed on the
	NCC and intimate to this ministry	List of detectors	s installed is en	closed as	Annexu	re XXI.	
		Complied.				Cit	
9	The company shall install bag filters to control flue gas emission. Process emission shall be controlled by Scrubbers.	Suitable air pol scrubbers, cyc requirement of	lone separator	etc are	installed	l as per	process
		Details of Air enclosed as A r		ol equipme	ents inst	alled in	plants is
		Complied.					
	Flue gas emission from the various stacks attached to the boiler, furnace/heaters shall conform to the prescribed standards.	Flue gas emissions from the stacks attached to the boiler, furnace / heaters are regularly monitored through MoEF&CC recognized					gnized & Mumbai.
		The summary of Mar'24 is prese		sion results	s for the	period o	f Oct'23 –
		Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
		Flue Gas Emissi	ons			T	Г
		GCU Plant -	PM (mg/Nm³)	10	3.14	2.48	3.76
		Stack attached Furnaces	SO ₂ (mg/Nm ³)	50	6.31	4.36	7.46
			NOx (mg/Nm ³)	350	57.85	51.25	64.13
		VCM Plant - Stack attached	PM (mg/Nm ³)	10	3.20	2.25	3.92
		to EDC	SO ₂ (mg/Nm ³)	50	7.21	4.75	9.16
		Furnaces	NOx (mg/Nm ³)	350	63.19	55.42	68.74
		CPP Plant -	PM (mg/Nm³)	10	3.56	3.56	3.56
		Boilers / HRSGs stacks	SO ₂ (mg/Nm ³)	50	6.74	6.74	6.74
			NOx (mg/Nm³)	350	62.74	62.74	62.74
		PET-3 Plant -	PM (mg/Nm³)	10	3.53	3.05	4.10
		Stacks attached to Heaters	SO ₂ (mg/Nm ³)	50	8.47	7.42	9.58
			NOx (mg/Nm³)	350	62.00	53.18	68.36
		11	PM (mg/Nm ³)	50	22.05	14.53	25.18

		CCPP – Stacks attached to Boilers	SO ₂ (mg/Nm ³)	600	262.68	245.12	281.46
		Roilors		-			201.10
			NOx (mg/Nm³)		74.97	64.65	82.54
		("- ": Plant was not in the above result during review per petailed stack end."	ts are conformir eriod of Oct'23 –	ng to the no Mar'24.			
		III.					
10	The additional effluent generation shall not exceed 39,020 m ³ /d.	Complied. ation The additional effluent generation from the proposed p exceed 37,447 m³/day. However, the total effluen quantity prescribed under Consolidated Consent & (CCA) Order No. AWH-121992 dated 25th November 2 to 3rd November, 2026 is 51,002 m3/d.					
		The current efflu review period of				complex	for the
		Description	Permissible Limit (KLD)	Avg	М	in	Max
		Effluent Generation	51,002	36,435	32,8	390	39,316
	The wastewater generated shall be	From the above generation rate to well below the position Complied. Wastewater generation	from the comple ermissible limit of nerated from the	ex for the pof 51,002 r	eriod C n³/d. Il proce	oct'23 –	Mar'24 is
	treated in comprehensive wastewater treatment plant.						
	As reflected in the EIA/EMP report, the company shall maximize the recycling of treated effluent						Advanced n systen Reverse
		Photographs of l					
		Treated effluent tower make up,					
		The average of quantities during below as agains Consent & Author November 2022	g reporting perionst the Permissilorisation (CCA)	od of Oct'2 ble limits Order No.	3 – Ma prescrit AWH-1	ır'24 is p oed Cor	oresente nsolidate

Description	Permissible Limit (KLD)	Average (KLD)
Quantity of Effluent Generation	51,002	36,435
Quantity of Effluent Discharge	36,292	18,097
Quantity of Effluent Recycle	14,710	18,338
Percentage of Recycle	30 %	50%

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 Oct'23 – Mar'24 is presented below.

Parameter	Unit	GPCB Consent Limit	Avg	Min	Max
рH	-	5.5-9.0	7.91	7.72	8.20
Colour and odour	-	All efforts shall be made to remove colour and unpleasant odour as far as practicable	Colorless and Odourle		ourless
Suspended Solids	mg/l	100	22.50	19.00	25.00
Temperature	°C	Shall not exceed 5° C above the receiving water temperature	28.48	27.40	29.60
Oil & Grease	mg/l	20	< 0.2	< 0.2	< 0.2
Total Residual Chlorine	mg/l	1	< 0.1	< 0.1	< 0.1
Ammonical Nitrogen (as N)	mg/l	50	13.13	12.50	14.30
Total Kjeldahl Nitrogen (as NH ₃)	mg/l	100	17.62	5.10	32.40
Free Ammonia (as NH₃)	mg/l	5	< 0.1	< 0.1	< 0.1
Biochemical Oxygen Demand	mg/l	100	39.37	34.20	42.50
Chemical Oxygen Demand	mg/l	250	147.00	124.00	172.00
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	1.18	1.10	1.30
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	0.28	0.21	0.35
Sulphides	mg/l	5	< 0.1	< 0.1	< 0.1
Phenolic compounds (as C ₆ H ₅ OH)	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	0.93	0.60	1.30
Vanadium (as V)	mg/l	0.2	< 0.004	< 0.004	< 0.004
Nitrate Nitrogen	mg/l	20	10.00	6.00	13.00
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 96% survival of fish after 96 hours in 100% effluent is achieved for the review period of Oct'23 – Mar'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 Oct'23 – Mar'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.

Description	Permissible Limit (KLD)	Average (KLD)
Quantity of Effluent Generation	51,002	36,435
Quantity of Effluent Discharge	36,292	18,097
Quantity of Effluent Recycle	14,710	18,338
Percentage of Recycle	30 %	50%

		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 Oct'23 – Mar'24: Around 8,080 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), Millettia pinnata (Karanj), Cassia siamea (Kashid), Albizia procera (Shirish), Delonix regia (Gulmohar), Peltophorum pterocarpum etc.
		Complied.
14	Occupation Health Surveillance of the workers should be done on a regular basis and records maintained	RIL-DMD has its own NABH accredited Occupational Health Center with NABL accredited pathology lab.
	as per the Factories Act.	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:

Fitness Examination Parameter	Pre-Employment Medical Examination	Periodic Medical Examination
Physician Check-up	V	V
Eye – Check-up	V	V
X-ray	V	
ECG	V	
Urine Routine	$\sqrt{}$	
CBC+ESR		
Blood Group	V	V
Random Blood Sugar	V	V

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.

B. General Conditions

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

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

Cond. No.	CCA Conditions	Compliance Status of CCA Conditions
3.1	The quantity of total fresh water consumption shall not exceed 1,38,700 KL/day	Average fresh water consumption for the period Oct'23 – Mar'24 was 89,332 KLD which is not exceeding the permissible limit of 1,38,700 KLD. Complied.
3.4.1	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	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

					\	he GPCB pride this CC/	4 .		
			4.4 The process emissions through various stacks /vents of reactors process, vessel shall conform to the following standards Note: Standards are prescribed in CCA.			, various process units are monitored on monthly basis through MoEF&CC recognised &			
		5.1 Sr. No. 5	and M desiccal Used or	ratalyst from variou folecular Seive/a nt (Sr.No. 1) Spent Oil (Sr.No.5 ed containers (Sr.N	us units salumina paragais	Complied. Spent catalysolants is colleand sold sold reprocessors metal / final controls.	ected, store to a for rec	d properly authorized	
		Facility prescribed for Above listed wastes: Collection, Storage, Treatment and Disposal by selling to registered approved		Used or spenific facility drums and secyclers for disposal.	is collecte sold to reg	ed in the istered oil			
			in captive power plants.		I f	Discarded containers genera from the plants are collect decontaminated, stored proper and then sold to authorizy vendor.			
					(Complied.			
<u></u>		Complie						5U 5::5	
ii	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests		en carri	modernization ed out with pric					
iii	At no time, the emissions should go beyond the prescribed standards.			nissions have ting period of 0			oulated s	tandards	
				f flue gas emiss nted as below.	sion resu	Its for the	period of	Oct'23 –	
			ant	Parameter	GPCB Consent Limit	Avg	Min	Max	
		Flue Ga	s Emissi			1		0.70	
		GCU Pla		PM (mg/Nm³)	10	3.14	2.48	3.76	
		Furnace		SO ₂ (mg/Nm ³) NOx (mg/Nm ³)	50 350	6.31 57.85	4.36 51.25	7.46 64.13	
		V01: 5:		PM (mg/Nm³)	10	3.20	2.25	3.92	
		VCM Pla		SO ₂ (mg/Nm ³)	50	7.21	4.75	9.16	
		to EDC Furnace	s	NOx (mg/Nm³)	350	63.19	55.42	68.74	
				PM (mg/Nm³)	10	3.56	3.56	3.56	
		CPP Pla Boilers /		SO ₂ (mg/Nm ³)	50	6.74	6.74	6.74	
		stacks		NOx (mg/Nm³)	350	62.74	62.74	62.74	
	l l								

PET-3 Plant - Stacks attached	SO ₂ (mg/Nm ³)	50	8.47	7.42	9.58
to Heaters	NOx (mg/Nm ³)	350	62.00	53.18	68.36
CCPP – Stacks	PM (mg/Nm ³)	50	22.05	14.53	25.18
attached to	SO ₂ (mg/Nm ³)	600	262.68	245.12	281.46
Boilers	NOx (mg/Nm ³)	300	74.97	64.65	82.54

(" - ": Plant was not in operation / under Shutdown)4

Summary of emission results from process stacks for the reporting period Oct'23 – Mar'24 is presented as below

Plant	Parameter	GPCB Consent Limit	Avg	Min	Max
	PM (mg/Nm ³)	150	3.22	2.38	4.25
	SO ₂ (mg/Nm ³)	40	6.80	5.45	8.46
	NOx (mg/Nm³)	25	17.29	12.32	20.74
VCM - Stack	Cl ₂ (mg/Nm ³)	10	<1.0	<1.0	<1.0
attached to Incinerator	HCI (mg/Nm ³)	30	2.38	2.10	2.76
	CO (mg/Nm ³)	150	1.24	1.18	1.35
	HC (mg/Nm ³)	15	2.38	2.14	2.73
	VCM (mg/Nm ³)	6.6	<1.5	<1.5	<1.5
VCM Plant –	CI2 (mg/Nm³)	10	<1.0	<1.0	<1.0
Stack attached to Vent	HCI (mg/Nm ³)	30	2.60	2.41	2.76
Scrubber	HC (mg/Nm ³)	15	< 0.2	< 0.2	< 0.2
Chlor Alkali Plant - Stacks Attached to	Cl ₂ (mg/Nm ³)	9	<1.0	<1.0	<1.0
Hypo and HCI synthesis Unit	HCI (mg/Nm ³)	20	2.83	2.15	3.86
	PM (mg/Nm ³)	150	3.43	2.75	3.85
PVC Plant-	SO ₂ (ppm)	100	8.22	6.42	9.54
Stacks attached to	NOx (ppm)	50	20.55	15.32	24.36
PVC Dryers	CO (mg/Nm³)	150	2.36	2.24	2.63
	VCM (mg/Nm ³)	6.6	<1.5	<1.5	<1.5
PTA Plant - Stacks	PM (mg/Nm ³)	150	3.15	2.12	3.83
attached to Off gas scrubber, atmospheric	SO ₂ (mg/Nm ³)	40	< 5	<5	< 5
scrubber and vent scrubber	NOx (mg/Nm ³)	25	<4	<4	<4

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.

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

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 Oct'23 - Mar'24, no such failure of pollution control equipment has been observed.

		Photograph of the state- system can be seen in An		room equi	ipped with DC	
		Complied.				
iv	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA)	Noise level at the site i MoEF&CC recognized & (India) Limited, Navi Muml prescribed workplace nois	NABL accre bai and it is ob	dited labor oserved to b	atory M/s Ne	
		MoEF&CC recognition le (India) Limited is enclosed	l as Annexur	e II.		
		The summary of Workpl. Oct'23 – Mar'24 is presen	ted below:			
		Plants	Workp	lace Noise I dB(A)	Levels	
			Average	Min	Max	
		CA Plant	60.63	53.30	68.30	
		VCM Plant	52.75	50.70	56.20	
		PVC Plant	59.42	48.50	66.20	
		GCU Plant	68.66	57.30	75.10	
		EOEG Plant	56.18	45.20	63.40	
		EPRU-OSBL Plant	53.04	54.40	52.10	
		HDPE Plant	58.90	50.40	62.70	
		CPP-I Plant	55.28	49.30	62.80	
		CPP-II Plant	58.32	54.30	62.40	
		TIME OFFICE, MG-1	56.78	52.70	61.10	
		ETP Plant	58.38	54.90	61.50	
		PTD - I & II Plant	55.46	45.70	61.60	
		IOP Plant	62.89	54.90	73.10	
		JETTY	47.73	40.40	53.80	
		CPP-3 Plant	56.45	43.60	66.30	
		PET-3 Plant	55.90	52.30	60.30	
		PTA-5 Plant	57.74	49.80	65.70	
		PTA-6 Plant	57.20	52.30	62.80	
		CCPP Plant	61.30	51.70	69.40	
		Ethane	54.08	48.80	56.60	
		Detailed noise monitoring				
		Complied.				
	By providing noise control measures	Provision of noise contro				
	including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	silencers, enclosures etc. noise generation.	nas been m	ade tor all	sources of hi	
	9	Photographs of the same is enclosed as Annexure XXXIII .				
		Complied.				
	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dBA	Ambient noise levels con EPA Rules, 1986 viz. 75 d	BA (Day Time	es) and 70 c	dBA (Night time	
	(Day Times) and 70 dBA (Night time)	The summary of the amb presented below.	pient noise le	vels or Oc	t'23 – Mar'24	

Monitoring Location Night Time Limit - 75 di(A) Max Avg Min Max Max Min Max Max Min M									
Nr. Ethane S5.3 S2.6 S7.1 S0.1 48.9 S1.5			Monitoring		Day Time)	1	Night Tim	е
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Nr. CCPP 54.1 53.3 54.8 51.1 50.4 52.1			Tank	55.3	52.6	57.1	50.1	48.6	51.5
V 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 Rules 1989 as amended in 2000 for handling of hazardous chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals Rules 1989 as amended in 2000 for handling of hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. • Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXIV. • Provision of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXVIV. • Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXVIV. • Provision of emergency alert system like sirens announcement etc and ensuring their healthiness. Detail of siren submitted to DISH is enclosed as Annexure XXXVIII. • Mutual aid arrangement with neighboring industries Agreement copy is enclosed as Annexure XXXVIII. • Mutual aid arrangement with neighboring industries Agreement copy is enclosed as Annexure XXXVIII. • Mutual aid arrangement with neighboring industries Agreement copy is enclosed as Annexure XXXVIII. • Complied. The project authorities must strictly complied for storage of HC from Chief Control of Explosives must be provided before commission of the project. Approval details of the same is enclosed as Annexure XI. Complied. RIL DMD strictly complies with the rules and regulations of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and it subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed a Annexure XXXIII. Complied. Authorization form the State Pollution Hazardous waste			House	51.0	48.9	52.7	48.3	45.2	49.8
Nr. ETP Guard Pond 55.8 52.6 58.2 52.1 50.3 54.4				54.1	53.3	54.8	51.1	50.4	52.1
V 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. Proparation of safety audit report (submitted to DISI regularly) enclosed as Annexure XXVI.				54.6	50.7	59.1	52.2	49.1	54.4
Detailed noise monitoring report is enclosed as Annexure XIV. Complied. V 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. Provisions of the Manufacture, Storage and Import of Hazardou Chemicals (MSIHC) Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXVI. Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXVI. Provision of emergency alert system like sirens announcement etc and ensuring their healthiness. Detail of siren submitted to DISH is enclosed as Annexure XXXVIII. Provision of emergency alert system like sirens announcement etc and ensuring their healthiness. Detail of siren submitted to DISH is enclosed as Annexure XXXVIII. Mutual aid arrangement with neighboring industries Agreement copy is enclosed as Annexure XXXVIII. Complied. Necessary approvals from Chief Control of Explosives must be provided before commission of the project. Approval details of the same is enclosed as Annexure XI. Complied. Vi The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules, 2003. Will DMD strictly complies with the rules and regulations of Hazardous and Other Wastes (Management and Transboundar Movement) Rules, 2016 and its subsequent amendments thereof. Handling and Disposal of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed at Annexure XXXIX. Complied. Authorization form the State Pollution Hazardous waste Authorization has been obtained from GPCB for			Guard Pond	55.8	52.6	58.2	52.1	50.3	54.4
Detailed noise monitoring report is enclosed as Annexure XIV. Complied. 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. Preparation of safety audit report (submitted to DISh regularly) enclosed as Annexure XXXVI. Preparation of safety audit report (submitted to DISh regularly) enclosed as Annexure XXXVI. Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXVI. Provisions of the Manufacture, Storage and Import of Hazardous amended in 2000 are being complied by ensuring the following activities: Preparation of safety audit report (submitted to DISh regularly) enclosed as Annexure XXXVI. Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXVII. Provision of emergency response plan. Copy of one such plan is enclosed as Annexure XXXVII. Preparation of emergency alert system like sirens announcement etc and ensuring their healthiness. Detail of siren submitted to DISh is enclosed as Annexure XXXVIII. Mutual aid arrangement with neighboring industries Agreement copy is enclosed as Annexure XXXVIII. Complied. The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) 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 arannexure XXXIX. Complied. Authorization form the State Pollution Hazardous waste Authorization has been obtained from GPCB for the Author			·	54.9	51.4	57.3	51.9	48.7	54.2
v 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. Preparation of safety audit report (submitted to DISH regularly) enclosed as Annexure XXXVI. Preparation of emergency response plan. Copy of one such plan is enclosed as Annexure XXXVI. Provision of emergency alert system like sirens announcement etc and ensuring their healthiness. Detail of siren submitted to DISH is enclosed as Annexure XXXVIII. Necessary approvals from Chieff Control of Explosives must be provided before commission of the project. Necessary approvals from Chieff Control of Explosives must be provided before commission of the project. The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules, 2003. Vi The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules, 2003. Approval details of the same is enclosed as Annexure XI. Complied. Vi The project authorities must strictly comply with the rules and regulations with the Hazardous Wastes (Management and Transboundar 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 Waste (Management and Transboundar Movement) Rules, 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed and Annexure XXXII. Complied. Authorization form the State Pollution				55.8	53.8	57.4	50.6	48.9	52.7
Necessary approvals from Chief Control of Explosives must be provided before commission of the project. 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 with the Hazardous Wastes (Management and Handling) Rules, 2003. Handling and Disposal of Hazardous wastes generated at site is being done in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and it subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed at Annexure XXXIX. Complied. Authorization form the State Pollution 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. Complied. Fixplosives are in place and they were obtained before commissioning of the project. Approval details of the same is enclosed as Annexure XI. Complied. Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and it subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed as Annexure XXXIX. Complied. Authorization form the State Pollution	V	comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of	rity in Chemicals (MSIHC) Rules 1989 as amended in 2000 are be complied by ensuring the following activities: • Preparation of safety audit report (submitted to Diregularly) enclosed as Annexure XXXIV. • Preparation of emergency response plan. Copy of one signal is enclosed as Annexure XXXVI. • Conducting mock drills on regular basis. One such midrill report is enclosed as Annexure XXXVI. • Provision of emergency alert system like sing announcement etc and ensuring their healthiness. Designation of siren submitted to DISH is enclosed as Annexure XXXVII. • Mutual aid arrangement with neighboring industry Agreement copy is enclosed as Annexure XXXVIII. • Mutual aid arrangement with neighboring industry Agreement copy is enclosed as Annexure XXXVIII. Complied. The approvals required for storage of HC from Chief Control Explosives are in place and they were obtained be commissioning of the project. Approval details of the same is enclosed as Annexure XI. Complied. RIL DMD strictly complies with the rules and regulations hazardous and Other Wastes (Management and Transbound Movement) Rules, 2016 and its subsequent amendments there are subsequent amendments there are subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed Annexure XXXIX.						to DISH one such ch mock sirens, Details nnexure dustries.
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 Transboundar 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 Waste (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments thereof. Photographs of Hazardous waste storage area is enclosed at Annexure XXXIX. Complied. Authorization form the State Pollution Hazardous waste Authorization has been obtained from GPCB for		Control of Explosives must be provided before commission of the							before
Authorization form the State Pollution Hazardous waste Authorization has been obtained from GPCB for	vi	comply with the rules and regulations with the Hazardous Wastes (Management and Handling) Rules,							ooundary thereof. at site is Wastes 6 and its
			Hazardous wa						

	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 Oct'23 – Mar'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	Adequate funds have been allocated for implementing the conditions stipulated by the statutory authorities. The Environmental Funds expenditure during the reporting period Oct'23 – Mar'24 was around INR. 53.4 Crores.
	as the State Government along with the implementation schedule for all the conditions stipulated herein.	Some of the major areas where environment expenditure incurred during Oct'23 – Mar'24 is appended below:
	, ,	 Environment monitoring – INR 20.53 Lakhs Online Continuous emission and effluent monitoring systems – INR 34.36 Lakhs Pollution control systems (Effluent treatment & management / APCM) – INR 50.55 Lakhs Waste management – INR 54.79 Lakhs
		Green belt development – INR 97.04 Lakhs
		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.
	casimiles to their regulary.	Last Compliance report was submitted vide our letter no. RIL-DMD/HSEF/ENV/2023/87 dated 28 th November, 2023 to SEIAA and Gujarat Pollution Control Board and vide letter no. RIL-DMD/HSEF/ENV/2023/85 dated 28 th November, 2023 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/	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.
L	Control Board/	

_		
	Committee and may also be seen at	Newspaper cutting is enclosed as Annexure XL .
	website of the Ministry of	
	Environment and Forests at	Complied.
	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.	
X	The project Authorities shall inform	The project is completed and commissioned. The necessary
	the Regional Office as well as the	information about the project's financial closure and project
	Ministry, the date of financial closures	commencement was provided along with the first compliance report
	and the date of the commencing the	of this EC.
	land development work.	Complied
5	The ministry may revelle or evenend	Complied. This condition is not applicable to us.
3	The ministry may revoke or suspend the clearance, if implementation of	This condition is not applicable to us.
	any of the above conditions is not	
	satisfactory	
6	The ministry reserves the right to	This condition is not applicable to us.
	stipulate additional conditions if found	This condition is not applicable to do.
	necessary.	
	The company in a time bound	Company has implemented all the conditions prescribed by the
	manner will implement these	Ministry in this EC.
	conditions	,
		Complied.
7	The above conditions will be	Noted.
	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.	

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: 2328304 Copy 2

To be forwarded by To be Carried by the occupier after taking signature on it form the transporter.

	9	Sender's Details					
Sender Name	Reliance Industries Ltd. [15565]						
Address	Dahej Manufacturing Division,P.O. DAHEJ,	TAL. VAGRA, Taluka :VAG Dis	tict:BHA I	Pin no:392	130		
Contact Details	6352260494 rajaraman.c@ril.com	GPS Coordinates	Lat :21.684880353570033 Long :72.58639820539504				
	R	eceiver's Details					
State	Gujarat	Type of Facility	Actual u	ser (within	state)		
Facility Details	Asian Barrels. [50924]	•					
Contact Details	8401936258 asian_barrels@yahoo.com	GPS Coordinates	Lat :21.	579830926	6025984 L	. ong: 72.9981	.311201169
Address	Opp; Gate no:1 of GIDC, Panoli, NH -8,- Ta	aluka :ANK Distict:ANK Pin no	:394116				
		Waste Details					
Waste Details							
Waste Intended for	Recycling	Total Qty	1.180MT	С	onsisten	cy Solid	
	Tr	ansporter Details					
Name	Asian Barrels	Contact Details	9824122	480 asian	_barrels@	yahoo.com	
Address	OPP GATE NO 1 GIDC PANOLI,N. H. No. 8	, District :Bharuch Taluka :Bl	naruch				
		Vehicle Details					
Vehicle no	GJ16AW0305 (IMEI No :869604062318372)	GPS Enabled	Yes	Type of	Vehicle	Tempo	
Driver name	ABDUR RAHIM	Driver Contact No	9839960)462			
	Waste ⁻	Transportation Detail	ls				
Vehicle Depart.	04/01/2024 2:15PM	Number of Drums	126		Lo	ose Waste	0.000
Remarks	Decontaminated Empty Barrels / Container Ltrs. (CAT No. 33.11)	s - Plastic drums, CAP. 200	No of b	ags	0		
and are categori according to app 2. I hereby declar	ration: are that contents of the consignment yed, packed, marked, and labeled plicable national government regulare that we have obtained members use of hazardous waste.	, and are all in all respections.	ets in pr	oper con	dition fo	or transpor	t by road
Name and stan	np of sender:	Date:			Signa	ature:	
Transporter's A	Acknowledgement of Receipt of w	vaste Date:			Signat	ure:	
Receiver's Cer	tification of Receipt of Hazardous	s waste					
In Principal A	pproval Details :Accepted - 04	l/01/2024 2:05PM - R	emark	s :ok			
Stamp:		Date:			Signat	ure:	



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

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THE ADEQUACY CERTIFICATE OF ENVIRONMENT MANAGEMENT SYSTEM

M/s Parul Institute of Technology is recognized by the GPCB, Gandhinagar under the Environmental Audit scheme introduced by the Gujarat High Court vide its Orders dtd. 20/12/96 & 13/3/97 and modified vide Order dtd. 16/9/99 as and Environmental auditor for the purpose of the auditing having carried out Environmental Audit of

a) M/s : **Reliance Industries Limited**

(Dahej Manufacturing Division)

b) Located at : At & Post: Dahej

Taluka: Vagra Dist: Bharuch 392130

c) 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	Ethylene Oxide	50000
	(EG)	Ethylene Glycol	308350
7.	High Density Poly Ethylene (HDPE)	HDPE-I / HDPE-II	240000
		UHMW - PE	2500
8.	Ethylene Vinyl Acetate (EVA)	EVA	13000
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	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)	HC1	36000

Sr. No.	Plants	Products	Total Capacity (MTPA)
15.	Chlor Alkali Plant (CA)	Sodium Hypochlorite	11000
		Dilute H ₂ SO ₄	4600
		HCl	15000
16.	Ethylene Oxide (EO)/ Ethylene Glycol	Di Ethylene Glycol	30550
	(EG)	Tri Ethylene Glycol	1270
		PEG	19850
		TEG Bottom	2880
17	Purified Terephthalic Acid (PTA)	Crude Benzoic Acid Mix	60000

Having completed the Environmental Audit period on personnel monitoring and audit report prepared as per the directions of Hon. 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 and efficient to achieve the quality of effluents (Air + Wastewater + Solid Waste) as specified/required under Consent/ Notifications by GPCB, Gandhinagar for following quantity of waste generation.

a) Liquid effluent : 48802 KL/Day Industrial + 2000 KL/Day Domestic

b) Solid Waste :

Sr. No.	Type of Waste	Quantity MT/Year
1	Spent catalyst from various units and molecular sieves/ Alumina Desiccant	411.75
2	Slop Oil from Waste Water treatment	1060
3	Chemical Sludge from waste water treatment	3200
4	ETP Sludge containing Polymeric constituents	300
5	Used or Spent Oil	225
6	Waste /residues containing oil	So ever Generated (600)
7	Process Residue (Residue from Vinyl Chloride Monomer Production)	20750
8	Discarded Containers	450
9	Bags / Liners	11
10	Sludge & Filters contaminated with oil	So ever Generated (500)
11	Spent Carbon	So ever Generated (500)
12	Spent ion exchange resin	So ever Generated (500)
13	Spent Solvent (Degraded Dowtherm)	216
14	Cargo/Tank Residue, Washing water and Sludge containing Oil	100
15	Cargo/Tank Residue and Sludge Containing Chemical	100

Sr. No.	Type of Waste	Quantity MT/Year
16	Bilge Water Containing Oil from Ships	100
Other (No	on- Hazardous) Waste	
17	Brine Sludge	15000
18	Polymer Lumps/ Sweep Powder	4800
19	Bio sludge from ETP	18250

c) Air Emission :

Adequate/ efficacious

(Flue gas stack as well as process stacks)

This certificate is valid for the audit period only. However, it is subject to automatic cancellation in case of any change in product profile/capacity, quality & quantity of effluents (Air + Water + Solid) and efficiency of EMS equipment.

P.O. Limda.

Ta. Waghodia.

This certificate forms part of Environmental Audit Report.

Date:

Place: Vadodara

Name & Address of the Auditor: Parul Institute of Technology Parul University, P.O. Limda, T.A. Waghodia Vadodara

Signature of the Authorized Person

(Ms. Seema Nihalani)

Coordinator

Environmental Audit Team

(Dr. Bhavesh, Mewada)

Director

Parul Institute of Technology

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

•		MONTHS ACTION AND A	5 CERTIFIED,QCI-N 63, Gandhi 486 2482 to 84; M:	DOMER COASTAL HYDI ABET, NABL & CDC-MoS Road, Alwar Thirunagar, + 91 99401 41650; Fax: + ndomer.com, E-mail: oce	T ACCREDITATED) Chennai 600 087. 91 44 2486 2484
Client	Reliance Indust	ries Limited, Dahej Mar	ufacturing Division	, Dahej, Bharuch district,	Gujarat,
Project Title	Monitoring of	marine water and seabe	ed sediment quality,	Pre-monsoon season (N	March – June)
Abstract	Reliance Indust	ries Ltd., (RIL) is India's	largest company in	the private sector and is	organized in three
	major business	segments viz. explora	stion and production	on of oil and gas, refin	ing/ marketing of
	petroleum pro	ducts and manufacturi	ing and marketing	of petrochemicals, pol	ymers, polyesters,
	(4)			cilities located in Jamna	
		일본 글로그리 한 하는 그 것 같아? 그는 어린다		a in Maharashtra, Silvassa	
					in onen remary
	(UT) of Dadra 8	k Nagar Haveli and Kak	inada in Andhra Pra	adesn.	
			F NO. LT-A	datually called the Cand	has Batsashamisal
				riginally called the Gand	
				ration Ltd. (IPCL) is locat	
	Industrial Area	declared by Gujarat	Industrial Developr	ment Corporation (GIDC	.), Government of
	Gujarat, Tehsil	Vagra, District Bharuch,	state of Gujarat. It i	is a multi-product, fully in	ntegrated complex
	manufacturing	a wide range of petroc	hemicals, polymers	and polymer intermedia	ates. The design of
	effluent treatm	ent system at DMD is su	ch that each plant f	has its own effluent collec	tion system where
	A. A	Service and the service and th		Central Effluent Treatmen	
	122 110			imum extent and only	
		o Gulf of Khambhat thr	ough a 6.5 km pipe	eline provided with a mu	iniport, subsuriace
	diffuser.				
	Indomer Coast	al Hydraulics (P) Ltd. wa	is appointed by RIL	to carry out one season	marine monitoring
	as a part of its	post project environme	nt monitoring requ	irement. Accordingly, the	marine water and
	seabed sedime	ent sampling was condu	cted during Pre-mo	onsoon season (April 201	17).
	1 90 the 8020 as 4000 cents.		NAT (COLUMN TO COLUMN TO C		
		15-1-1-1		- Can I Minories	
Foreword	The materials	presented in the report	t carry the copyrigh	nt of RIL and INDOMER a manner by other organiz	and should not be vations without the
		t from RIL and INDOM		namer by outer organia	actions services and
	M. O. M. C. S.				
Document type	Controlled		70.00	are so i e ewa	
Date	Report Type	Originator	Checked by	Approved by	Approver's Sign
06.09.2017	Final	Dr. A. Kannathasan	V. Kesava Das	Dr. P. Chandramohan	The second secon
	File Location	F:/2017 Projects/Sep	17/ RIL	Text pages	38
	THE EDUCATION	Lid many 3 colonists and	-17.100	Table	A Street Land Street Land Street

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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

32 000 Status Auf Plot Min Plot Ma 221.785 X Clipboard 22.11.2023 13:20:54 A 12,000 Pautho 3 - Rename Good 17.88 X Delete Document1 - Aspen Process Explorer V10 - aspenONE - [Document1] -masul M Tags - @ B 22-11-2028 18:20:54 Data Source Map Description Value Level SDHJIP21 IP_ANALOGI Vent Scrubber F6-11 21 765 Good X Mumple Cother APRM -M-Overlay X Ad Hox SPC Preduction Record Plots 15.38 Home Insert Plot Layout Favorites View Tools Get Started 22.11.2023 12.20.54 113:23 L. Other SPC • R Range ∑ CUSUM ** ** 02:00:00 SPC Plots Histogram XBar i÷ Aspen Trend Plot / Aspen Trend Plot GC-ENVPTAB-BAT16151A-S02 四日一十四日 Other Plots 22-11-2023 11:20:54 Tressit X X Standard Plots 22-11-2028 11,20,54 KH 32,000 22,000 12.000= Trend 3 20:000 28,000 26,000 24,000 18,000 14,000 16,000 ¥

PTA Stack- Aspen Process Explorer V10- aspen ONE - [PTA Stack]

LDAR LEVEL 1									Frequency: Daily			9	Plant: PTA-6 Feb 2024	
	_		_	_					JI.	If Yes, Give Detail of				
DATE DD/MM/AAA	Y/N	N/A Swidding	Sound Sound W/N	V/N	Y/N	Y/X	V/N Other	Section Name	Sub Section Name	Equipment Type (Pump.Compressor, PRVs, Valves, Flanges etc.)	Sources ID number	Service Motortal	RIMARK	
01-Feb-24	1	I	2	5	7	2	2	5X0	porthea	306-4708		AA	SAN) DENVINC	1
02-Feb-24	_1	1	7	Z	2	2	2	11	N.	Mb-470 B		AA	11 11	
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14-Feb-24	2	1	2	2	2	2	Z	LXO	T- C1 18/111.	11 11		TAN	11 - 11	- 1
15-Feb-24	1	4	Z	2	2	7	2_	Ž	marco-C	1: 11		A.A.	11	

Reliance Industries Limited Dahej Manufacturing Division

Dahe	Relia
Me	00
nufacturing	Industries
Division	Limited

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KING	Odour Dr	Dripping I	_	Icing	-	Temp.	Any			If Yes, Give Detail of				
35	_		N/A psmos		Vapour Y/N	Y/N	Other V/X	Section Nume	Sub-Section Name	Ilquipment Type (Pump, Compressor, PRVs, Valves, Flanges etc.)	Sources ID number		Service Material	Service Material REMARK
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22-Feb-24	4		3	3	3	3	2	ON	-19	=				AA SUHIM
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25-Feb-24 2	2	1	2	2	_	2	2	KXO	Н	56-634			1	pla
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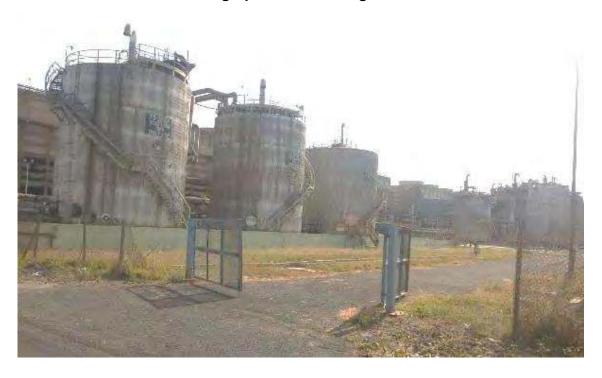
Reliance Industries Limited Dahej Manufacturing Division

Name o	Name of Person Monitoring:	itoring:								Equipment used:	sed:
SI 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 (%)
**	26/2/24	1		F6-515 V4 500Y	f	A. P		26/2/24	Ç.		
2				Wine D.H. Solvent				, ,			
13				Per [15]							
٠	26/2/24	et		FCV-3102	1	A. P	Dannet	2617/124	MAL		
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Signature (Maintenance Manager): [M].

4		=	ti Hyd	13 II Hyd	12 I ₁ Hydi	11 Hydr	10 II Hydr	9 iy Hydr	8 I, Hydrogen	7 II Hydrogen	6 Hydrogen	5 Hydrogen	4 Hydragen	3 hydrogen	Hyd	1 8/2/24 In	SI Monitori Section No. ng Date Name	LDAR - LEVEL - III	Plant PTA-6	
Signature (Field Executive) :-	Hydrogen E	1	Hydrogan E	Hydrogen E	Hydrogen E:	Hydrogen E	Hydrogen Ea	Hydrogen Ea	agen E area			ogen Earea		gen Eares	gen E area	>	on Sub ne Section Name	lloring:		
(8)	9 1	1	Earea	K ears	E area X	E ses p	E 200	E area		E eree Fo	E 88.83		Eares py				1 2 4			
Signature (Field Executive) :- (40) No. of Leakages found = (5) For neccesary action to attend leak and inform action taken:	HP H2 vent to chemical drain related valves (uts,olis flenge)	PT-13109 manifold selated valve(urs, d/s flange)	XV-13106 d/s i/v (u/s,d/s flange)	XV-13106 (u/s,d/s flange)	XV-13106 u/s liv (u/s.d/s flange)	PT-13126 d/s NRV's (L/s,d/s flanges)	PT-13126 manifold related valve(u/s,d/s flange)	TT-13103 related flanges	FCV-13101 d/s NRV's (u/s,d/s flenge)	FCV-13101 (u/s.d/s flange)	PI-13102 W related flanges	FT-13101 (flange)	PYS-130307 (uis,dis flange)	HP H2 2nd W (Ws, dis flange)	Vent 1sb2nd W (u/s,d/s fange)	HP HZ IV (u/s,d/s flange)	Sources ID number			
	2																	Freque	Reliance Industries Limited	
	age	Flange	Valve	Valve	Valve	Valve	Valve	Valve	Valve	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Equipment Type (Pump, Compressor, PRVs, Valves, Flangus etc.)	Frequency: Quarterly	Limited	
	nyungen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Hydrogen	Service Material			
	O PPM	O PPN	O PAN	Word ()	Mdd 0	med ()	0 PAW	i) PPM	0 PPM	O PPM	o ppm	O PPm	O PPM	0 19979	0 ≥8M	Oppm	Concentrati on observed (ppm / ppb)	KEYUT	9	
																	Date of Notification n to Plant Maintenan			
																1	Status of leak (Attended/ S/D job, Inaccessible			
																	Date of monitori ng after repair	- Landerson and - Landerson -		
																	Concentrati on after Repair (ppm / ppb)	Equipment used:	2	
	2	No	No	Nin	No	No	No	3	25	No	No	Λ,	No	No	N/a	IVO	Remark	ment used:	20	

Photograph of PTA Storage Tanks



Annexure LIII

Photograph of Oil Separator Unit and Slop Oil Tank

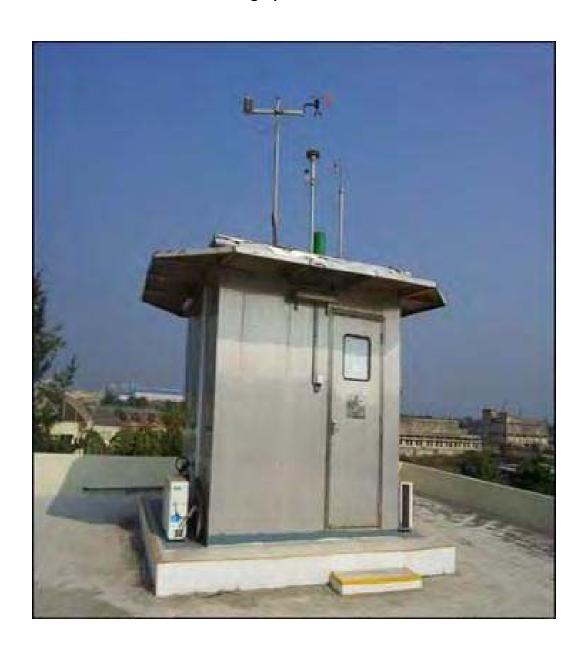


Oil Separator Unit



Slop Oil Storage Tanks

Photograph of CAAQMS





BEIL Infrastructure Ltd [40137]

Manifest No: 2422414 26/02/2024

Copy 1

To be forwarded by To be forwarded by the occupier to the State Pollution Control Board or Committee.

	2	Sender's Details		
Sender Name	Reliance Industries Ltd. [15565]			
Address	Dahej Manufacturing Division,P.O. DAHEJ,	TAL. VAGRA, Taluka :VAG Di	stict:BHA Pin no:39213	30
Contact Details	6352260494 rajaraman.c@ril.com	GPS Coordinates	Lat:21.6848803535 :72.5863982053950	
	R	eceiver'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:21.7240193450	0719 Long: 72.59621502850457
Address	GIDC , DAHEJ, Taluka :VAG Distict:BHA Pir	n no:392130		
		Waste Details		
Waste Details	I~35~35.3~Chemical sludge from w	aste water treatment		
Waste Intended for	LandFill	Total Qty	12.840MT Co	nsistency Solid
	Tr	ansporter Details	<u> </u>	
Name	KRUNAL LOGISTICS SERVICES	Contact Details	9510232722 radhe.s	service2012@gmail.com
Address	PHFW+VPH, Dahej, Gujarat 392130,PHFW	+VPH, Dahej, Gujarat 392130	0 District :Bharuch Ta	ıluka :Bharuch
		Vehicle Details		
Vehicle no	GJ01JT4857 (IMEI No :358980100169441)	GPS Enabled	Yes Type of V	'ehicle Special vehicle
Driver name	Pankaj Pargi	Driver Contact No	7737319713	•
	Waste	Transportation Detai	ils	
Vehicle Depart.	26/02/2024 6:00PM	Number of Drums	0	Loose Waste 12.840
Remarks	ETP Chemical Sludge		No of bags	0
and are categoriaccording to apply 2. I hereby decl	are that contents of the consignmen ized, packed, marked, and labeled plicable national government regulare that we have obtained members use of hazardous waste.	, and are all in all respections.	ects in proper cond	dition for transport by road
Name and stan	np of sender:	Date:		Signature:
Stamp:	Acknowledgement of Receipt of v	Date:	;	Signature:
Acceiver 5 Cer	incation of receipt of Hazardous	5 114560		
Stamp:		Date:	;	Signature:



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



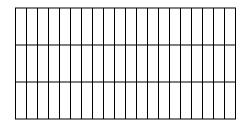
First Aid Kit at CCPP



First Aid Kit at ETP

Training Details - October 2023 - March 2024

	Duration (Hrs)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Month	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23	Oct-23
	Date of Program	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023
:3 - March 2024	Title of Program	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness	IMS Awareness
l raining Details - October 2023 - March 2024	Org Unit	MFG DMD Ops - CCPP Production	MFG DMD Ops - CCPP Production	MFG DMD Ops - PTA 5 Production	MFG DMD Ops - PET 3 Production	MFG DMD REAM - CCPP Area Maintenance	MFG DMD HSEF - Fire Protection	MFG DMD HSEF - Fire Protection	MFG DMD Ops - PVC/VCM	MFG DMD Ops - HDPE 1 Production	MFG DMD Ops - PET 3 Production	MFG DMD Ops - PVC Production	MFG DMD Ops - PVC Production	MFG DMD Ops - PVC Production	MFG DMD HSEF - Health & Safety	MFG DMD HSEF - Health & Safety	MFG DMD Ops - Cracker Production	MFG DMD Ops - Cracker / EPRU	MFG DMD Ops - ASU Production	MFG DMD Ops - CPP 1,3 Production	MFG DMD REAM - CCPP Area Maintenance
	Name of Participant	Mr. Subhash Choudhary	Mr. Vijay Kumar Sharma	Mr. Uday Singh	Mr. Hariom Mishra	Mr. Eldho S Thomas	Mr. Arpit Tewari	Mr. Gaurav Ashok Chandewar	Mr. Pratik Yadav	Mr. Mukeshkumar Patel	Mr. Sohail Aslam Shekh	Mr. Nikunjkumar Gandabhai Prajapati	Mr. Ravi Ranjan Kumar	Mr. R T Viswak Kumar	Mr. Brijesh Shastri	Mr. Satyendra Chouhan	Mr. Ashish Nanavati	Mr. Sanjaykumar Bhatt	Mr. Vikramsinh Raj	Mr. Vimal Pithwa	Mr. Alok Jagtanand Thakur
	EC	10051962	10071743	16246994	16247178	16246376	16246357	10086710	16243773	16231565	16246728	16247197	16247183	16246922	16231566	10059670	16231194	16245715	10062676	16241814	16246349
	Sr.No.	1	2	3	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	



Photograph of LED lighting in offices





Annexure LXI

Photograph of Solar Power run Traffic Signal









Annexure LXIII

Photograph of Closed Material Transfer





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone: (079) 23226295

: (079) 23232156

Website: www.gpcb.gov.in

By.R.P.A.D

NO.GPCB/BRCH-CCA-717(10)/ID-15565/ 3407 } /Date:

Amendment to consent to establish (CTE) dated: 10/10/2012

06/01/2016

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

(1) Your earlier CTE issued vide letter no: GPCB/BRCH/CCA-717(6)/15565/127604 dated REF: -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.

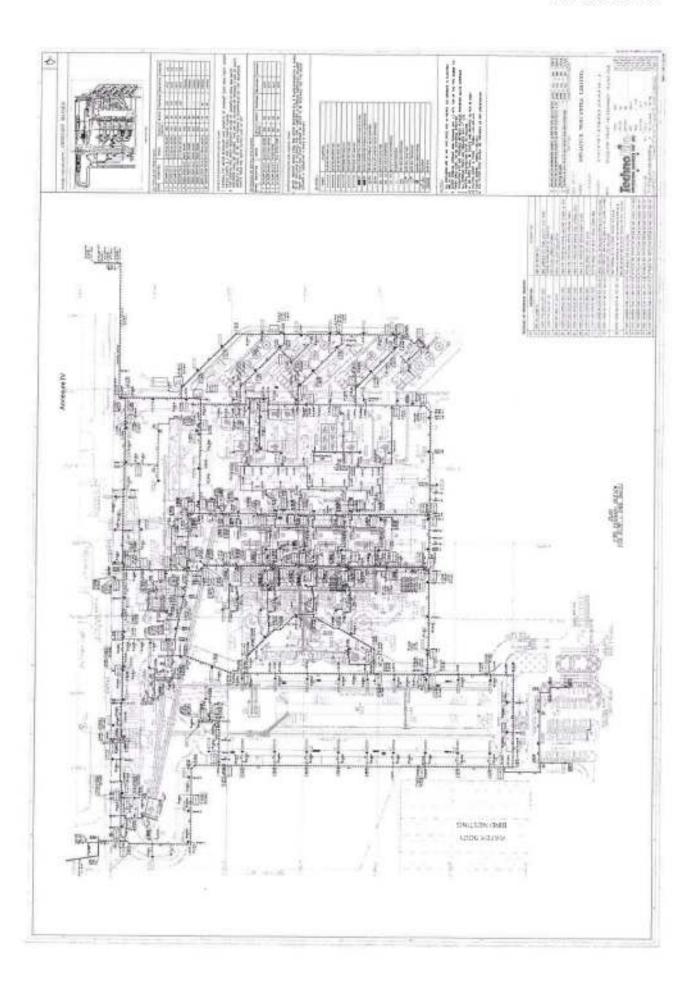
The condition no: 1(of CTE dated:10/10/2012) shall be read as.

NAME OF THE PRODUCTS ALONG WITH QUANTITY

Sr. No.	Plants	Products	Existing Capacity (MTPA)	Proposed Capacity (MTPA)	Total capacity (MTPA)
1.	Ethane Propane Recovery Unit (EPRU)	Ethane / Propane	650,000	- (MITA)	650,000
2.	Gas Cracker Unit	Ethylene	500,000	-	500,000
	(GCU)	Propylene	160,000	-	160,000
3.	Vinyl Chloride	Ethylene dichloride	498,960	2	498,960
	Monomer (VCM)	Vinyl chloride monomer	315,000	-	315,000
4.	Polyvinyl Chloride (PVC)	Polyvinyl chloride	315,000		315,000

Clean Gujarat Green Gujarat

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



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



RIL-DMD/HSEF/ENV/2023/38

June 30, 2023

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 2022-23, 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 2022-23.

The Audit has been carried out by M/s. Sophisticated Instrumentation Center for Applied Research and Testing (SICART), 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.

Net Payment Receipt of INR. 10,000 /-, dtd. 29.06.2023.

A copy of ISO 14001:2015 certificate

Cc:

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

Superat Federales Commit Seare BHARUCH



RIL-DMD/HSEF/ENV/2023/38

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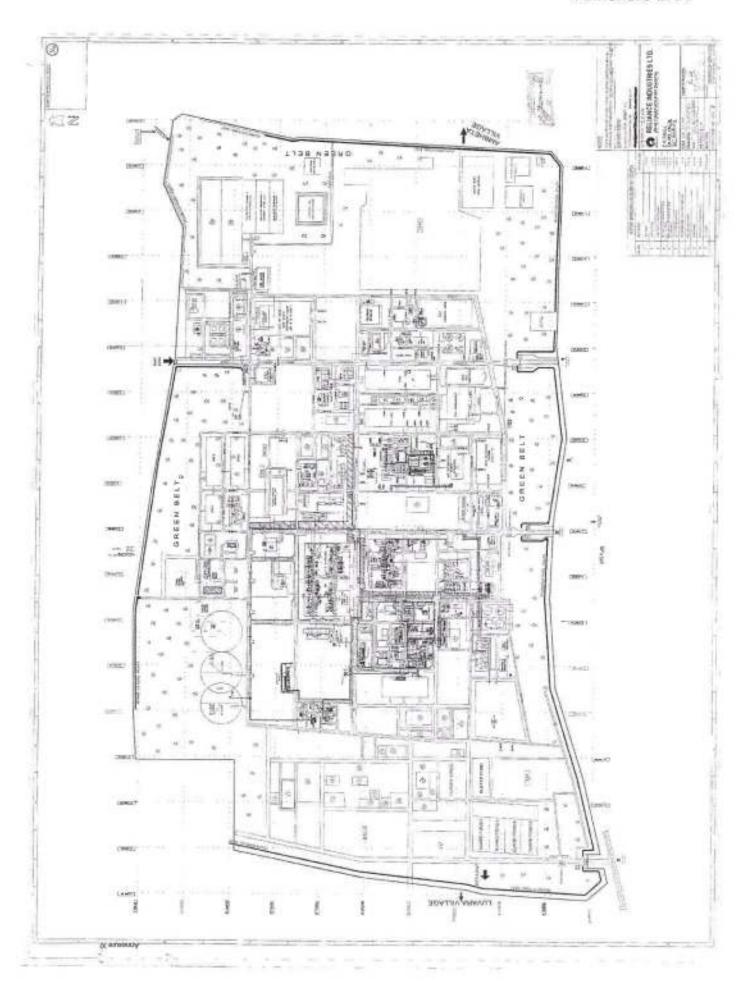


Crisis and Continuity Management Procedure

Dahej Manufacturing Division

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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

Plant LOCATION SHIFT TIME Name/EC No. JOB POSITION/ACTIVITY (Min)	Dallej r	Janej Manulacturing	DIVIS	10			
(Min)	Plant	LOCATION	SHIFT	SAMPLE	Name/EC No.	JOB POSITION/ACTIVITY	
				(Min)			

(PERSONAL BREATHING ZONE DUST SAMPLE RESULTS	NG ZONE DUST	SAMPLE F	RESULTS		
3		Dahej I	Dahej Manufacturing Division	g Divisi	on							Annexure LXXV
Date	SAMPLEID	Plant	Plant LOCATION SHIFT TIME (Min)	SHIFT	SAMPLE TIME (Min)	Name/EC No.	JOB POSITION/ACTIVITY	Agent	Results TLV-TWA (PPM/mg/m3)	Results ACGIH Limit TLV-TWA TLV-TWA (PPM/ mg/m3)	CURRENT CONTROL	RECOMMENDATIONS (ACTION PLAN)
1/25/2020	1/25/2020 DMD-250120-33 CCPP Ash Silo Area	ССРР	Ash Silo Area	9	355	Mr Vasant Mistry (5800079454)	Housekeeping Activity	Respirable Dust 0.083 mg/m3 3 mg/m3	0.083 mg/m3	3 mg/m3	PPE (Dust Mask)	-The result of Dust exposure monitoring was found within acceptable coccupational exposure limits. '41 is still recommended that the operator shall always wear a dust mask during the housekeeping activity and field round.
Survey Cond Designation:	Survey Conducted by: Mayursinh Vaghela Designation: Industrial Hygienist	inh Vaghei ist	а									

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



Photograph of Fly Ash Silo





ILLUMINATION MONITORING REPORT

Plant: CCPP-ELE-CTRICAL Area: MHP

Frequency: Yearly/upon modification or MOC

Sr. No	Location	Present Lux Level	Recomm ended Value	Corrective action taken Date Action taken	Lux level after corrective action
I	axed my loading	105	20		
2	conv-1A/B	170	50		*
3	7.7-1	160	60		
4	(ONV-2	120	50		
5	CONV.7A/B	125	50		14
6	converer 3 A/B	110	50		State 1
7.	CONVEYED 4 A 13	135	50	14	

Survey carried out by : Name : Vijoy Bary Sign : Young

Sign : Night Date: 4/09/2020 Reviewed by: Name:

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)



ILLUMINATION MONITORING REPORT

Plant: CCPP - ELECTRICAL Area: MHT

Frequency: Yearly/upon modification or MOC

Sr. No	Location	Present Lux Level	Recomm ended Value	Corrective action Date Action	on taken Lux level a taken after corrective action
8	cal shed	100	20		
9	Street light	21	15	80	=
10	lime unloding	155	20	- 1 s	
- 11	lime building	186	60		
12	(ONV - 101/B	170	50		
13	Street light	21	15		4.
14	lime-shed	120	100		
	~				- 6

Sign : Perny Date: 4/09/2020 Survey carried out by : Name : NIGO

Reviewed by:

Name: Sign: Lyoshi Date: 4/09/2020

Note: Lux shall be measured one meter above the ground level.

Master list to be kept in the file for its in the file for its in the file for its interest.

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)



ILLUMINATION MONITORING REPORT

Plant: CCPP-ELECTRICAL Area: BOILER

Frequency: Yearly/upon modification or MOC

Sr. No	Location	Present Lux Level	Recomm ended Value	Corrective action taken Date Action taken	Lux level after corrective action
1	BLR #1	175	100		
2	BLR#2	180	[00		4
3	BLR =13	165	100		*
4	BLR #4	1 66	(00		
5	ESP # 1	135	100		
6	65P #2	125	100		1
7	ESP #3	132	100		44.1
8	ESP #4	160	100		

Survey carried out by: Name: Vijay Rang Sign : Pany Date: 4/09/2020

Reviewed by: Name: Houshal Sign: Wyoshi 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)



ILLUMINATION MONITORING REPORT

Plant: CPP - ELECTRICAL Area: STQ

Frequency: Yearly/upon modification or MOC

Sr. No	Location	Present Lux Level	Recomm ended Value	Corrective action taken Date Action taken	Lux level after corrective action
I	stu-i	220	100		
2	574-1 '08'm4'3	179	100		
3	ST4-1'13'mby	202	100		¥
4	Dearthat Hims	64	60		
5	ST4-2'0'my	221	100		
6	STU-2 '7' may	265	100	-	nd '
7	574-2'13 mm	275	100		94.1
8	STG-2 Despertor Floor	75	60		
9.	S[4-3'0' my	220	100		
10	Sty-3'7' mar	340	100	3	

Survey carried out by: Name: Vilay Sign : Vanu Date: 04/09/2020

Reviewed by: Name: Harshal Sign: Lijoshi 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)





We Care

For a connected, prosperous and shared future

challenges, the central philosophy is the commitment to enhance the quality are carried out in the true Reliance spirit of maximising social value for all, 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 For Reliance, social commitment is strongly driven with the philosophy of 'We Care'. While addressing the nation's multifaceted development towards sustainable development.



for sustainable development and towards India's national priorities What inspires us is how our innovative approaches for the social and development sector happen with the Reliance approach of creating social impact with unique pathways, with innovations Towards our stated vision, we work hand-in-hand with the government, civil society organisations and communities.

KEY MILESTONES

over 69.5 million Touched lives of people

54,200 villages and districts including urban locations Impacted 595

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Integrated outcome report of Reliance Industries - social impact areas contributing to 14 SDGs

Transformation Rural



Women Empowerment

Art, Culture and Heritage



our society by promoting creativity, inclusion, and economic development Supporting initiatives essential to

enabling women to reach their full potential and participate equally in all Promoting gender equality and aspects of society

living in rural areas through a variety

of initiatives

PAGE 03

Improving the quality of life and

economic well-being of people

→ PAGE 51

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Health



Disaster Management



Other Initiatives



wildlife and animals, and reducing care and Treatment, protecting Ensuring high-quality animal human-animal conflict

respond to, and recover from disasters

Helping communities prepare for,

through technology-enabled disaster

nealth campaigns, and advocating for Funding for healthcare organisations

and initiatives, supporting public

policies that improve access to care

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relief efforts

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Volunteering PAGE 56

Sports for Development

Education

Awards and Recognition

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Fostering holistic development and leadership among India's youth through sport

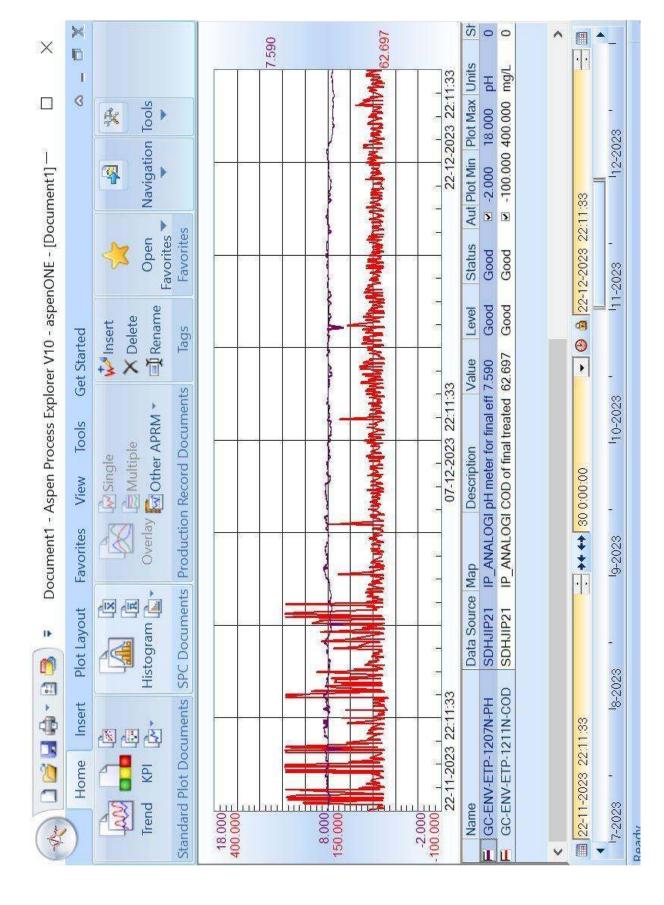
Enhancing access to quality education

for all, with a strong focus on the

disadvantaged and marginalised

→ PAGE 21

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Photograph of Storm Water Drainage









Photographs of Some of the CSR activities





- Flood Relief Activities



- Construction of Home for BPL Family



RIL-DMD/HSEF/ENV/2023/68

Date: 25th September 2023

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 2022 - 23 (PCB ID: 15565)

Ref : Consent Order No. AWH-111189 dated 16.01.2021 and valid upto 03.11.2026.

Dear Sir,

Please find enclosed herewith the Environmental Statement for the year 2022 - 23 of Reliance Industries Limited - Dahej Manufacturing Division.

Thanking you.

Yours faithfully,

For Reliance Industries Limited

Raja Raman Chaudhary Head - Environment

Enclosed: As above.

Cc:

The Regional Officer, Gujarat Pollution Control Board, C - 1/119/3, GIDC Phase II, Narmada Nagar, Bharuch - 392 015.

Post Received Sujarat Pollution Control Board

The Divyabhaskar - Gujarati Newspaper

Date: 11.04.2017

क लाल जापा ક્ષમિક માટક એક वा २४ हरवामा

કરા નવાપુરા પુાનત ચાક The state of the present મંદિરે પહોંચી પૂર્ણાહિ કરવામાં આવશે.

દ્યાર્થીઓને લાભ મળયો હતો

ાયકલનું વિતરણ

ાથા ઘરે જવાના રાહત થશે



ાા હાઇસ્કલમાં છાત્રાઓને સાપક્રમનું વિતરણ કરવામાં ประจาสสนุรแ

सरकार पाद्यास हाम हाक्ष्मा पामप्रमुखा चला, हशा हाइना ત્રણ ભક્ષીઓ તથા ૧,૧૩૦ સીટ્સ ત્સાટડીઓમાંથી ૧૨૩૦ લીટર રેલી દેશી દારૂનો વોમનો નાશ કર્યો હતી. - દારૂની ચોસ જે પતલાના પીધોમાં જવારે 118 લીટર દેશી તથા વિદેશી. જારેલા હતા જે લોડી જેવો નાગ દારૂ સાથે ત્રણ બુટલેળશેને ઝતપી WHID.

બગાઉથરની महर्गहर्शन

કરવામાં આવ્યો હતો.

रेमी हत गर बोहा गरी કારવામાં આવ્યો હતો. વિદેશી કાર-મ રહ્યલા પોલીસ વર્ગ મહેન્દ્ર બીયર અને કવાદ દીવા મળી સ્ટાપ્તા સુચનાથી પોલીસે ઝડપી પાડવામાં આવ્યા દીવાયએસપી મનોવરસિંહ જાદેજ હતા. જોકે આરોપીઓ સાગે ગુનો અને આર એમ બદીવિપાના નોપીને કાયરેસરની કાર્યળતી नामेंद्रा लाग घरवामां आची तनी.



રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેક - દહેજ મેન્યુફેક્સરિંગ ડિવિઝન भारति निविद्य નવા પ્રોષેદર માટે પર્યાવરણ મંપૂરી

આથી જાણવવાનું કે ભારત સરકારણ પર્યાવરણ, વન અને જળવાનું પરિવર્તન મંત્રાલય, નવી દિલ્હી કારમ મુ. દહેજ, તા. વાગમ, છું, ભરૂચ રિયત અમારા દંદપ बेन्य, डिविशन भारोना पेट्रोडेमिड्स ध्यान्टना विस्तृतिहास अने કિલોટલનેકિંગ માટે **પર્યાવરણીય મંજુરી** તેઓના તા, 63 એપ્રિલ, ૨૦૧૦ નાં પત્ર કે, તે, 3-11011(39/2016ન્દ્રના (f) થી આવેલ છે. જેની નકલ भुषरात प्रदूषात निर्वत्रशा बोर्डेनी हरोरीએ तेमच ली वेचसाएंट सेटवे हैं. http://www.moot.nic.in tous till tistel.

01981-10-02-2010

પ્રેસિકન્ટ -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 backed?

No, asserts the Commis-

The M1 (model one) of EVM was manufactured till 2006 and had all necessary technical features it "nonhackable 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 da-

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, Rejriwal had claimed that EVMs were being brought from Uttar Pradesh to conduct the polls, a charge the State Election Commission had rejected. Pn

ta 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 soft-ware programme code is written in bouse and not out-sourced.

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, en

NEWS DIGEST

Mamata misusing police, says Rijiju

Union Minister of State for Home Kiren Rijiu on Sunday accused the Mamata Banerjee government in West Bengal of running a 'dictatorship', alleging that it was misusing state power to 'tortuse' 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" lumched against his party leaders for carrying arms. "In this state, the government is running a dictatorship," he said in Sun.

Curfew relaxed in Bhadratic 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 (Psaduka) 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 yow as she was blessed with a child after a decade of her marriage.

Don't fall prey Only adopt Pata

'3.50cr women support triple talaq'

Jaipur: The All India Muslim Personsi 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

Jaipur: The All India Musltm Personsi Law Board workshop in Eldgah 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 atleged, en



Reliance Industries Limited – Dahej Mfg. Div. PUBLIC NOTICE Environmental Clearance for New Project

This is to inform that the Ministry of Environment, Forest & Climate Change, Government of India, New Delhi has accorded ENVIRONMENTAL CLEARANCE for Expansion & Debottlenecking of Petrochemical Plant of Dahej Manufacturing Division (DMD) at Tehsil Vagra, District Bharuch, Gujarat vide their letter no. .J-11011/39/2016-IA-II (I) dated 3rd April 2017. Copy of the same is available at the Gujarat Pollution Control Board Office and may also be seen on the Website of the Ministry of Environment, Forest & Climate Change at http:://www.moef.nic.in.

Date: 10-04-2017

President-RfL, Dahej Mfg. Div.



રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેડ - દહેજ મેન્યુફેકચરિંગ ડિવિઝન મુ. દહેજ, તા. વાગરા, જી. ભરૂચ-૩૯૨૧૩૦

જાહેર નિધિદા પર્યાવરણ મંજૂરી

આથી જણાવવાનું કે ભારત સરકારના પર્ચાવરણ, 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 ક. નં. J-11011/39/2016-IA-II (I) થી પર્ચાવરણ મંજૂરી આપેલ છે.

જેની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડની કચેરીએ તેમજ મંત્રાલયની વેબસાઇટ એટલે કે https://parivesh.nic.in ઉપર જોઈ શકાશે.

સહી

પ્રેસિકેન્ટ - રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેડ દહેજ મેન્યુફેક્ચરિંગ ડિવિઝન

di. 58/06/5053

લીમખેડા સિંગવડમાં શિક્ષણ સજ્જતા કસોટીનો ફિયારફો લીમખેડાના ૧૦૮૨ પૈકી માત્ર ૧૨૬ જ્યારે સિંગવડ ૬૯૪ પૈકી છ શિક્ષકે પરીક્ષા આપી

हिम्मेंद्र, स. १४ अने कातर जायन पता हुए पर विभाग स्थापन कार्य हुए पर विभाग स्थापन कार्य हुए पर विभाग स्थापन कार्य हुए हुए कार्य प्रमुद्ध कार्य माने स्थापन कार्य हुए हुए क्यांग स्थापन कार्य का

સિંગવા લાગુરામાં માત્ર ક ટ્રાથ ૧૦૮૨ સિંઘલે વહી લાગુરામાં ટ્રાથ ૧૦૧માં મહિલા લાગો હતી. આપી હતી લેવા પાલ ૧૫૬

શિનોરમાં સરકારી કેરોસીન ૩ વર્ષથી પુરૂં પાડવામાં આવતું નથી

કાર્ડ ધારકોની કેરોસીન વિના ભારે હાલાકી

પાદરા પંથકમાં ડેન્ગ્યુ, મેલેરિયા જેવા

સરકારી દવાખાનામાં દર્દીઓની સંખ્યામાં ૪૦ થી ૫૦ ટકાનો વધારો



જનરલ વેચવાનું છે

1-BHK કલેટ વેચવાનો છે. (નવો) દિવન-૨૫ લાખ બોલાન બેસ.ટી. પલ સ્ટેશન યાને પંદીય પંચ પાછળ, (4) ececesoes (4) escectors

प्रश्न पूर्वकर्ष विकास के व्यक्त प्रशास, १००८ वरणा, १८०० वरणा, १८०० वरणा, १८०० वर्षा प्रशास प्रश्न प्रम प्रश्न प्रभ प्रश्न प्रस्न प्रम प्रस्न प्रश्न प्रस्न प्रस्न प्रस्न प्रस्न प्रस्न प्रस्न प्रस्न રાજ્ય કરા છે. - ખુ, વેલેરિયા, દાવેરીયાં હાલ કેવ્યાં કાલી, પાસી, હાર, લાવને હાલ પાયું ઉપરાિત હો છે. પાદદ- વધુ શકારી દેવામાના તેવલ સંદાદી દ્વાપાનામાં મ પદાર્થ થઇ કર્યા છે. મહત્વની મહત્વદીયામાં સંસદ નહે પો

કુઇલાઇ મહીલામાં જિલ્લાના પૂર્વ પાંચામાં મારે પૂર્વ પ્રતાસિક સ્થાન સમીપાલ પંચાન સમાગા પાલે લાખી મારે પદ leases and Just affection થઈ તેમના પાર્ટિંગ લાઉરને મહિલ સંસ્તર માટે કડાલાના જણનાણ્યાલ ever more without take of and probability and window.

marial of a del if video valuanza espelal mindad more send and sid sideol more and untable vised del quit second relat alore limits man add.











<u>દહ્યોદ રેલવે સ્ટેશન રોડ પર</u> રાહદારી હાથમાંથી મોબાઇલ ઝૂંટવી ગઠિયા

વામત પ્રસાર થઈ સ્ટોલ્ડ એક ૨૦ વર્ષના કરક પાકેલી મેં. માર્ટક પા

દાતોદ પોલીસ મથકે કરિયાદ દાખલ

કામાદ પાંચાન પર કાર્યાં કે અને કાર્યાં કાર્યાં કાર્યાં કાર્યાં કો અને પ્રકાર કાર્યાં કાર્યા કાર્યાં કાર્યાં કાર્યાં કાર્યાં કાર્યાં કાર્યા કાર્યાં કાર્યાં કાર્યા
૧૦૨૩ પૈકી માત્ર ૧૦૪ શિક્ષકે ભાગ લીધો

લક્ષ્મના ૯૦ ટકા વિશ્વકોએ સજ્જાના કસોટીનો મહિપાર કર્યો

विक्रमा पुर देश विक्रमा विकास करिया करिया है। कार्य प्राण्य राज्य करिया करिया करिया करिया कर्मा करिया कर्मा करिया करिया कर्मा करिया करिय માં સ્ટોર્ટ પત્રને દિવસ સ્ટેંક્સ

છોટાઉદેપુરના પુનીયાવાંટ બસ સ્ટેન્ડ પાસે કારમાંથી દારૂ સાથે એક ઝડપાયો

तिकार पुरासार कर व का स्थाद कर १ (१०,००० १८ वर करेंद्र अवारी निवृद्ध रहिता १,४०० हुव पुरासक होता क्षेत्र अवारी निवृद्ध रहिता १,४०० हुव पुरासक होतारिपुरी व्यक्ति अपने १,८५,४०० वर्ष अपने वर्धने के स्थादिक प्रतिकृतिका परिको पर्व तको बोकारी असे सुक्रांत्रकी बार परिके

प्रोडाविक्ट्रास्ता प्रमुख्या आपनी प्राप्ति व्यक्ति विष्टि व्यक्ति विष्टि व्यक्ति विष्टि व्यक्ति विष्टि विष्टि व्यक्ति विष्टि
પ્રવેશ જાહેરાત ૨૦૨૧-૨૨ (९) 51 (देव्य सेलेटरी संन्येवटर)

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બારી અને મેટલેંટ કરવા કરેવાલ, વરૂપમાં કે અપાદ અહીર કેલ્કિ Bettil des ales કેલ્ક્સેપની પ્રતાની, ટર્ડી.બેટીલ : ટર, પ્રપૃથ્ટી વેલ-૧૧ લાભ, રાશીર વર્ષી ધરીકર, વેમ.માર્ડ રોડ, જાલુદ-: લાગ (રાજ્યાન) નાવોર્ત કુકત અને કરવાદિ અન્યર્ર શહેર જ આ જાહેર લેનાલીઓ ઓહિ પછી જાહેર જનતને લહીદ કરીએ લીએ भा प्रधान करणायान पात्रास स्थाप प्रधान प्रधान पात्रा प्रधान प्रधान । प्रधान स्थाप में भागे पार्टन भागा प्रधान स्थाप में अपने पार्टन स्थापित स्थाप स्थाप स्थापित स्थाप स्थापित स्थाप स्थापित स्थापित स्थाप स्थापित स्यापित स्थापित स्यापित स्थापित स्थापित स्थापित स्थापित स्थापित स्थापित स्थापित स्यापित स्थापित स्याप स्थापित स्थाप

કારવામાં સ્થેતિ સાથી વચીન મોર્ડ મેટા કરવા સાંગ્લે કેવાર પ્રત્યાન કારણદારાજા ને દોષ્ટરનેલ અને સારતું વચીન મોર્ડ પ્રત્યાનિકોર્ડિકો

ની જે કોઈ પેનાદી, કેલ મુખો પરેલી વાતે ટાહિલ કાઉમાડના પરેલી પાછે. અરોજ પૂર્વને કહી હજીવાદ પેલાલ કાલ્ક્ટોજ કરાવી છેવાની જુના લાક સા કું માનાવામાં કાવદામાં આવેદ. પાંતુ માનાવાની મુખ દેવત મુજ સાત જાદેવનું જી.આં..દે.સી. ની પેનાદી તથા જાદેવનું કાર્દાણ કાદિવાન ni via drume act vière unit trè, can cooir c લાના ન હેવારી અલાંક મહીતે મહાંત્રમાં ના લીજા મેં ટેકના શેનીક

sein à la traine volve suin kansine die na volv

ગોધરાની મેકકેબ હાઇસ્કુલના આચાર્ય ઉપરાંત શાળા મંડળના પ્રમુખ અને મંત્રી સામે ખોટા લઘુમતી પ્રમાણપત્રની ફરિયાદ

ગોપરા, ૧૩ પંચમાતા જિલ્લા કિલ્લાપિકની ની કરેવી વાર્ષ ગોપરા કાર્યન્ય દાંહોદ સંત્ર પરની મોર્ડમ વિચારમાં, ઇન્ટરોડી કાર્યા કોઇમન નિયાન પંચાલિક કાર્યા મોજન કાર્યું મોદી તેમજ અનામાં પંચાલિક દિવાન ને પ્રથી છે. પંચીને કોર્યાન એક્સ કાર્યા મો મોજન કાર્યું અને સમાદાર ખનાર્યો અનોને મુને પામલ કરી વધુ ત્યાર ત્યાં થઈ છે.

ગોધરા પોલીસે ગુનો દાખલ કરી વધુ તપાસ હાથ ધરી

भावरा पावास चुना हाजब इरा वयु तपास छाय परा कार्या होंगे स्थानिक कार्या किरामीका वांचा परा कार्या होंगे स्थानिक कार्या किरामीका कार्या कार्य कार्या कार्य कार्या कार्य कार्या कार्य कार्या कार्या कार्या कार्या कार्या कार्या कार्या कार्या कार्य कार्या कार्या कार्या कार्या कार्या कार्या कार्या कार्या कार्य का પ્રદૂષણ રોકવા જી પી સી બીને રજુઆત જોદ નીધા મોડા, એક્સર પ્રનેશ મોડા આવ્યોની લેવનું ધું ક્ષિક કુલ કોડા નામ માર્ચ મોડા મામ પ્રતે

કેમિકલ યુક્ત ગંદા પાણીથી નદીની માછલીઓ અને જવરુષ્ટિને નુકસાન

ક્રેમિકેલ યુક્ત ગેદા પાણાથી નદાના માછલાંબા અન જવસારન નુકા કર્યાન સ્થારન નવા સ્થાર કર તેવી હતી હતી છે. મુંદ્ર પાલે ભારતના પરિયોગનાન જ્યારન સ્થારના પરિયોગનાન જ્યારન સ્થારના સર્વિક્ત કાર્ય, અન્ય પાલે ક્રિક્તારા વર્ષ નવેદાનાં પાલેન સ્થારના સર્વિક્ત કાર્ય, અને ક્ષ્યા કરનાં સર્વાત અને હતી છે. મા પાલે સર્વાત અને હતી છે. મા પાલે સાંભન સ્થારના સર્વાત કરનાં હતી કર્યા અને હતી કર્યા કરતાં કરતાં કરતાં સાંભન સ્થારના રસ્તાર કરનાં હતી માં સાંભ સ્થારના રસ્તાર કરનાં હતી કરતાં કરતાં હતી કરતાં કરતાં કરતાં કરતાં સાંભ સ્થારના સર્વાત કરતાં હતી કરતાં કરતાં હતી કરતાં સાંભ સ્થારના સર્વાત કરતાં હતાં કરતાં કરતાં હતાં સાંભ સ્થારના સર્વાત કરતાં હતાં કરતાં કરતાં કરતાં કરતાં સાંભ સર્વાત કરતાં
બાલાસિનોરથી ગુમ થયેલી યુવતી માતર ગામેથી મળી આવી લંદ પછી અપના પોલાયુક્ત કુદાવા હાર જ પાકિસ હવે હકે પછી કુદાવા બાલા પાકિસ

(१८) मोनवार नानी) प्राप्त ११वा को मातावित्र घोडीह क्राफ्त हुए। सन्दर्भको नेपनवार्त हराहर स्टेस्ने का हो स्टेस्त हुए। si siyas a washir of.



હીવીલ ૧૧૧ સહેવની કોર્ટન ની. જુ. મે, સ્ટાપ્ટરના મીં અન્દરેશ કરી મારુપા પહેલી હાથે કરીલ છે છે હાલ કેલ્દ્રીય છે. મારકા મહીવની જાઇમ મહીતે સાત્ર જર્મનને કમજ સાધેનો તેમણ માનવના કરાતેલ છે. અ સાર વર્ષીન ઉંદર અપાસ અહીરનો હવાહીય અધિકાર હોય વેર્ધી સા વર્ષીન અંગે કેરીનાદ દિલ્લ, હાલ, પેઢી, મેંડે કેર્દિનાદ પ્રહાનને વળકા કાર્યો વધિ અને જો કાર્યો છે કે જવાક અંગેની અંગર જણવાડી છે કે વ્યક્તિ, કિલ્પ, કંપ્યું, પેડીની કહેલે બને આવા બેટ વ્યક્તિક દિવ્યું અવાક અલીય લામોસાની પ્રતિમા કરી કિંદની તેમાં લાંભદારી રહ્યે પરારા માટે

STATE OF THE REAL PROPERTY.

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त्य महिन्द्र कर्ना कर्ना

क्डी/-(शच मंच्या)



Reliance Industries Limited

P.O. :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://parlvesh.nic.in

Date:24/08/2021

5d/-

President - Dahej Mfg. Div.

Sena workers pr Deo meet Rahul; no BJP over Rane's repleadership change

Workers Square Off Against Each Other

Mumbai/Pune/Amravati:

Union minister Narayan Rane's remarks against Mahamshtru Chief Minister Uddhay 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 ogitators, an official

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



Police personnel wield their batons against the support and BJP as a clash breaks out between them in Mumbe

needs to be checked and he should be hospitalized," the BJP legislator added.

Lad also expressed appre-

na leader and brao Patil said! his balance



Billiattingant: EAA Bhupwah Bayfsel with state its charge PL Punis and fohaltispech frealth minister ? & Singh Den corner not of Congress lender Ratios spatistic's registence in New Doth) on Turnity

Hagforf and Dove, with the fattor leadily ing hard for mounts to replace third Minister Baylon On July 91, December AND THE RESIDENCE OF THE PERSON NAMED IN

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PUBLIC NOTICE

197 August 2021

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Reliance Industries Limited Dahej Manufecturing Division Dahej, Ta: Vagra, Dist: Bharuch-392 2

During his Dothi visit. Hagiel said he would abble by the decision of the leaderothers recent some possible, or said that he had consulted party state President E. Annamalai over his decision to guit, we

ENVIRONMENTAL CLEARANCE

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, assert-

lief in the coming months. International oil prices are slowly coming down and stablis-

ing that people will get some re-

ing, the minister added, addressing a press conference

"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 fu-

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, on

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-

बेक आम बडोदा

Bank of Baroda

E-Auction Sale Notice for Sale of Immovable Assets under the Secur

Notice is hereby given to the public in general and in particular to the



Congress leader &

ing sold.

Gandhi allege Narendra Mod ment's privatis

Airforce - 2 Gate R

Jamnagar, M. 978761

present converted in to industrial our



Date:23/08/2021

Tender Notice

Directorate of Archaeology and Museums, Government of Gujarat,

is 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 Dahe, Manufacturing Division (DMD) at Plot No. 1, GDC Dahej, District Manufacturing Division (DMD) at Plot No. 1, GDC Dahej, District Manuals, (iujarat vide their letter No. -11011/39/2016-IA-II (I) dated

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f milital Board and may also be seen on the Website of the Ministry of

Emiliamment, Forest & Climate Change at https://parivesh.nic.bi

Abhilekhagar Bhavan, Sector-17, Gandhinaga

Emechanic of Archaeology and Museums, Government of Gujarat lestion interestant Biocers to participate in the hidding process for Construction of Compound Well, Landsceping (plantation of Bengitierifes siong the compound wall) and Mointenance for three years of Kaleshwart Temple Complex of Lavano, Ta. Khanpur, Diet. Mahisagar The the Documents can be downloaded from 25th August 2021 et 11 AM from well-time://aprocure.com/. Lost date of submission of Online that is no 09th September 2021 at 5 PM and Submission of Hard Copies of the Documents is 05th September 2021 at 5 PM. For more detail please contact 079-23256730/40

Director, Archaeology & Museum

President - Dahej Mfg, Div.

ONLINE TENDERING ROADS AND BUILDING DEPARTMENT, GUJARAT STATE TENDER NOTICE NO. 14 OF 2021-22

CORRIGENDUM NO.1 Tender Notice No. 14 of 2021-22 published by the Executive Engineer, Tapl (R&B) Division, Vysra, Jillie Sove, Saden, Block No.10, 2nd Floor, Perswad, Vysra, Ph.No. (00856) 220418 is now partly corrected below interested contractors may note the

Sinc. 1 , Torder Ric document will be available on website http://mb.nprocure.com.or Did.01/09/2021 upto 18.00 PM & submission of bid document online on DM.01/09/2021 UD to 18.00 PM.



to of scale, plasma refer to the link we wilde For detailed terms a Date : 25.08.2021. (In The Event Of Any Discrepancy Bet Place: Jaimager

ONLINE TENDERING