



**Reliance
Industries Limited**

Patalganga Manufacturing Division

B-1 to B5, A3, MIDC Industrial Area, Patalganga - 410 220, Tal. Khalapur, Dist. Raigad, Maharashtra
Tel: 02192 - 356000/667000 Fax: 02192 356199
CIN Number L17110MH1973PLCO19786

By E mail Submission

25th November , 2024

To,
Additional Principal Chief Conservator of Forest
Ministry of Environment , Forests & Climate Change
Regional Office , Western Central Zone ,
New Secretariat Building, Civil Lanes,
NAGPUR – 440001, Maharashtra

Respected Sir,

Subject : Half yearly EC Compliance report for the period April 2024 to September 2024.

Reference : EC granted by MOEF vide file no F.No. J-11011/224/2018-IA-II(I) dated 03.12.2020 issued for 'Expansion and Change in Product Mix by way of Debottlenecking and Modernization by M/s Reliance Industries Limited at Raigad, Maharashtra'

Sir,

Please find enclosed Half yearly EC Compliance report for the period April 2024 to September 2024 for the above Environment Clearance.

This is for your information and records please

Yours faithfully,
For **Reliance Industries Limited**


Authorized Signatory

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

Proposal Name	Expansion and Change in Product Mix by way of Debottlenecking and Modernisation by M/s Reliance Industries Limited at Raigad, Maharashtra		
Name of Entity / Corporate Office	Reliance Industries Ltd.		
Village(s)	Borivali		
District	RAIGAD		
Proposal No.	IA/MH/IND2/75750/2018	Category	Industrial Projects - 2
Plot / Survey / Khasra No.		Sub-District	Khalapur
State	MAHARASHTRA	Entity's PAN	*****5055K
MoEF File No.	File No. J-11011/224/2018-IA II (I)	Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

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

Details of Production and Project Area

Name of Entity / Corporate Office Reliance Industries Ltd.

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	29.7	29.7
Total	29.7	29.7

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	IG Benzene , Remax-1, Renine	Tons per Annum (TPA)	N/A	6,06,108	0	
2	Purified Terephthalic Acid (PTA) or Pure Isophthalic Acid (PIA)	Tons per Annum (TPA)	N/A	3,00,000	0	
3	Para-Xylene (PX) or Meta-xylene (MX) or Reformate	Tons per Annum (TPA)	N/A	2,50,080	2,25,038	
4	Liquefied Petroleum Gas (Sr Grade)	Tons per Annum (TPA)	N/A	27,000	5,758	
5	Pentane (N & ISO)	Tons per Annum (TPA)	N/A	12,504	5,600	
6	Power	MW	N/A	90	0.28	
7	Steam	Others:Tons per Hour	N/A	475	39.90	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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 Occupational Health centre already in place at the existing plant which will function for the new plant also. Workers and employees are provided with required safety kits/mask for personal protection.		Date: 15/11/2024
2	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 OCEMS already provided at existing plants. For the new plant, it is under implementation		Date: 15/11/2024
3	ENERGY PRESERVATION MEASURES	The project proponent shall develop at least 1 MW green energy/solar energy

PPs Submission: Complied A 1.5 MW solar power project developed outside PMD complex		Date: 15/11/2024
4	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 be implemented.
PPs Submission: Complied The recommendations are included in the plant design and are at the implementation stage		Date: 15/11/2024
5	WATER QUALITY MONITORING AND PRESERVATION	Total fresh-water requirement shall not exceed 16960 cum/day, proposed to be met from MIDC water supply. Necessary permission in this regard shall be obtained from the concerned regulatory authority. The fresh-water requirement shall be reduced after installation of rainwater harvesting system in the unit/project area.
PPs Submission: Complied Total freshwater requirement during the reporting period did not exceed 16,960 cum / day.		Date: 15/11/2024
6	WATER QUALITY MONITORING AND PRESERVATION	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.
PPs Submission: Complied Will be implemented after plant operation		Date: 15/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
PPs Submission: Complied Included in the design.		Date: 15/11/2024
8	MISCELLANEOUS	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.
PPs Submission: Complied Requisite measures are included in the design.		Date: 15/11/2024
9	WASTE MANAGEMENT	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers / cement industry.
PPs Submission: Complied Will be implemented after project commissioning		Date: 15/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	Regular VOC monitoring shall be done at vulnerable points.

<p>PPs Submission: Complied LDAR program is carried out for VOC Monitoring at the existing plants. Same will be extended to the new plants after commissioning.</p>		<p>Date: 15/11/2024</p>
11	WASTE MANAGEMENT	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.
<p>PPs Submission: Complied The oil containing sludge is collected in drums and then disposed through Registered Recyclers. The same procedure will be continued for the new plants.</p>		<p>Date: 15/11/2024</p>
12	WASTE MANAGEMENT	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.
<p>PPs Submission: Complied Will be installed at the time of project implementation</p>		<p>Date: 15/11/2024</p>
13	WASTE MANAGEMENT	The company shall undertake waste minimization measures as below: a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system . f. Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation .
<p>PPs Submission: Complied Measures are included in the plant design</p>		<p>Date: 15/11/2024</p>
14	GREENBELT	The green belt of 5-10 m width shall be developed in more than 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.
<p>PPs Submission: Complied Green belt development is being implemented along plant periphery . Additionally 27,000 saplings given to nearby Thane Municipal Corporation and Kalyan-Dombivli Municipal Corporation for plantation.</p>		<p>Date: 15/11/2024</p>
15	Corporate Environmental Responsibility	As proposed, Rs 5.76 crores shall be allocated for Corporate Environment Responsibility (CER) shall be utilized for meeting the commitment of the social-economic issues and as per the proposed action plan. The CER plan shall be completed within three year of the proposed project.
<p>PPs Submission: Complied Funds are being allocated</p>		<p>Date: 15/11/2024</p>
16	MISCELLANEOUS	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 centre /provide skill development training to village people.
<p>PPs Submission: Complied We provide training / skill development through Government Apprenticeship schemes</p>		<p>Date: 15/11/2024</p>

17	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 Environmental Management Cell and laboratory facilities are already in place for the existing plant. Same will function for the new plants also		Date: 15/11/2024
18	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 At RIL PMD we have full-fledged firefighting systems in place along with competent staff. We also have two full-fledged Fire Stations to respond in case of Emergency.		Date: 15/11/2024
19	AIR QUALITY MONITORING AND PRESERVATION	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.
PPs Submission: Complied National Emission Standards for Petrochemical (Basic and intermediates) issued by the Ministry vide G.S.R.820 E dated 9th November,2012 as amended time to time is followed. The monitoring reports for ambient air quality, stack emission and treated effluent for the reporting period are attached at Annexure I, II and III respectively		Date: 15/11/2024
20	Risk Mitigation and Disaster Management	Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques.
PPs Submission: Complied Recommendations are being implemented for the unit.		Date: 15/11/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/ SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
PPs Submission: Complied Will be followed		Date: 15/11/2024
2	ENERGY PRESERVATION MEASURES	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
PPs Submission: Complied		Date:

Offices, control rooms etc and street lights are converted into LED. Plant lighting approx. 25 percent converted into LED and plan to complete balance in next 3 year		15/11/2024
3	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
PPs Submission: Complied Ambient Noise levels are well within the prescribed limits. Monthly monitoring conducted through MOEF recognized Laboratory / consultant. Monitoring reports of ambient noise level are attached at Annexure IV		Date: 15/11/2024
4	Corporate Environmental Responsibility	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
PPs Submission: Complied CER activities are regularly undertaken at nearby villages		Date: 15/11/2024
5	Corporate Environmental Responsibility	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government 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 Funds are earmarked and implementation schedule being prepared		Date: 15/11/2024
6	MISCELLANEOUS	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
PPs Submission: Complied Not applicable as the Manufacturing Unit is in MIDC Industrial Area.		Date: 15/11/2024
7	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.
PPs Submission: Complied Six-monthly compliance reports are uploaded in PARIVESH portal and copies are mailed to officials of MoEF&CC, CPCB and SPCB. Copies are also uploaded on company website		Date: 15/11/2024

8	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
PPs Submission: Complied Environment Statement is submitted to State Pollution Control Board Yearly. Copy of the same is attached at Annexure V		Date: 15/11/2024
9	Statutory compliance	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
PPs Submission: Complied Completed by advertising in the Local language and English Language news papers within 7 days of receiving the Environment Clearance.		Date: 15/11/2024
10	MISCELLANEOUS	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
PPs Submission: Complied Will inform the Regional Office as well as Ministry		Date: 15/11/2024
11	MISCELLANEOUS	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
PPs Submission: Complied Noted		Date: 15/11/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		All the Annexures are attached as Additional Attachment.
<p style="color: red; text-align: center;">Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		

ANNEXURES

Annexure I

Six Monthly Ambient Air Quality Monitoring Results				
Period: April 2024 to Sept 2024				
Parameter	Units	Max	Min	Average
LAB - L1 Laboratory Terrace				
Sulphur dioxide as SO ₂	µg/m ³	32.64	18.60	22.92
Nitrogen dioxide as NO ₂	µg/m ³	45.17	30.35	37.26
PM ₁₀	µg/m ³	85.31	49.97	67.48
PM _{2.5}	µg/m ³	33.75	20.00	26.46
Carbon monoxide as CO	mg/m ³	0.76	0.36	0.53
Ozone as O ₃	µg/m ³	18.34	8.25	13.78
Ammonia as NH ₃	µg/m ³	28.73	23.59	25.86
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00
LAB – B1 Tank farm				
Sulphur dioxide as SO ₂	µg/m ³	36.62	21.58	26.93
Nitrogen dioxide as NO ₂	µg/m ³	53.05	32.47	42.66
PM ₁₀	µg/m ³	81.28	53.18	68.35
PM _{2.5}	µg/m ³	35.00	20.00	27.08
Carbon monoxide as CO	mg/m ³	0.69	0.33	0.49
Ozone as O ₃	µg/m ³	22.18	9.97	15.38
Ammonia as NH ₃	µg/m ³	40.07	24.72	31.46
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00

Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00
LAB – A3 Tank farm substation				
Sulphur dioxide as SO ₂	µg/m ³	35.03	19.34	28.75
Nitrogen dioxide as NO ₂	µg/m ³	51.52	34.58	43.86
PM ₁₀	µg/m ³	92.67	56.01	76.29
PM _{2.5}	µg/m ³	41.25	25.00	31.25
Carbon monoxide as CO	mg/m ³	0.98	0.37	0.66
Ozone as O ₃	µg/m ³	21.47	11.36	17.62
Ammonia as NH ₃	µg/m ³	39.18	27.34	33.52
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00
PTA – Safety Building Terrace				
Sulphur dioxide as SO ₂	µg/m ³	28.66	16.37	23.94
Nitrogen dioxide as NO ₂	µg/m ³	46.58	28.94	38.49
PM ₁₀	µg/m ³	93.56	41.39	67.19
PM _{2.5}	µg/m ³	37.50	18.75	25.21
Carbon monoxide as CO	mg/m ³	0.69	0.34	0.50
Ozone as O ₃	µg/m ³	23.53	9.53	15.89
Ammonia as NH ₃	µg/m ³	30.62	23.22	27.95
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
	ppm	0.00	0.00	0.00

NMHC				
PTA – Energy centre				
Sulphur dioxide as SO ₂	µg/m ³	35.03	17.11	28.11
Nitrogen dioxide as NO ₂	µg/m ³	57.71	30.35	44.73
PM ₁₀	µg/m ³	92.57	45.83	72.89
PM _{2.5}	µg/m ³	41.25	21.25	29.38
Carbon monoxide as CO	mg/m ³	0.77	0.31	0.54
Ozone as O ₃	µg/m ³	22.43	10.80	18.13
Ammonia as NH ₃	µg/m ³	37.42	20.60	31.79
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00
PFY FDY				
Sulphur dioxide as SO ₂	µg/m ³	31.85	20.09	26.15
Nitrogen dioxide as NO ₂	µg/m ³	48.70	31.76	41.13
PM ₁₀	µg/m ³	93.40	50.82	71.59
PM _{2.5}	µg/m ³	38.75	18.75	28.13
Carbon monoxide as CO	mg/m ³	0.80	0.37	0.57
Ozone as O ₃	µg/m ³	20.77	10.25	15.34
Ammonia as NH ₃	µg/m ³	35.94	23.22	29.76
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00
PFY Filter Water Tank				
Sulphur dioxide as SO ₂	µg/m ³	27.87	17.86	22.39
Nitrogen dioxide as NO ₂	µg/m ³	43.95	29.64	38.20

PM ₁₀	µg/m ³	85.66	52.69	70.40
PM _{2.5}	µg/m ³	36.25	22.50	28.13
Carbon monoxide as CO	mg/m ³	0.73	0.35	0.49
Ozone as O ₃	µg/m ³	19.39	8.64	14.77
Ammonia as NH ₃	µg/m ³	37.70	20.97	27.92
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00
Benzene[C ₆ H ₆]	µg/m ³	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00

Annexure - II

Six Monthly Stack Monitoring Results

Period: April 2024 to Sept 2024

Parameter	Units	Max	Min	Average
PTA – Px Heater 1042				
Particulate Matter	mg/Nm3	9.69	6.43	8.36
Sulphur dioxide as SO2	Kg/day	3.63	2.07	2.80
Nitrogen dioxide as NO2	PPM	47.36	40.12	43.47
Carbon monoxide as CO	PPM	8.92	8.24	8.65
PTA – Px Heater 2001				
Particulate Matter	mg/Nm3	9.66	6.92	8.20
Sulphur dioxide as SO2	Kg/day	1.52	0.58	1.06
Nitrogen dioxide as NO2	PPM	48.47	38.83	43.12
Carbon monoxide as CO	PPM	9.12	8.62	8.78
PTA – Px Heater 2002				
Particulate Matter	mg/Nm3	10.09	5.69	7.94
Sulphur dioxide as SO2	Kg/day	1.26	0.76	1.04
Nitrogen dioxide as NO2	PPM	48.81	39.38	43.76
Carbon monoxide as CO	PPM	8.96	8.82	8.89
PTA – Px Heater 3001,2,3				
Particulate Matter	mg/Nm3	9.74	6.32	7.66
Sulphur dioxide as SO2	Kg/day	9.64	4.70	6.86
Nitrogen dioxide as NO2	PPM	47.73	38.62	43.80
Carbon monoxide as CO	PPM	9.34	8.25	8.80
PX Heater 5101				
Particulate Matter	mg/Nm3	11.21	8.54	9.92
Sulphur dioxide as SO2	Kg/day	5.84	3.72	4.86
Nitrogen dioxide as NO2	PPM	47.49	41.05	44.09
Carbon monoxide as CO	PPM	8.89	8.2	8.67
PX Heater 6101				
Particulate Matter	mg/Nm3	11.67	7.41	9.50

Sulphur dioxide as SO2	Kg/day	12.44	5.88	8.94
Nitrogen dioxide as NO2	PPM	49.03	39.38	44.11
Carbon monoxide as CO	PPM	8.54	8.03	8.24
PTA – Px Heater 3001,2,3				
Particulate Matter	mg/Nm3	9.74	6.32	7.66
Sulphur dioxide as SO2	Kg/day	9.64	4.70	6.86
Nitrogen dioxide as NO2	PPM	47.73	38.62	43.80
Carbon monoxide as CO	PPM	9.34	8.25	8.80
PTA – Boiler C				
Particulate Matter	mg/Nm3	10.31	6.63	8.44
Sulphur dioxide as SO2	Kg/day	17.88	11.33	14.94
Nitrogen dioxide as NO2	PPM	46.8	42.35	44.57
Carbon monoxide as CO	PPM	9.57	8.63	9.06
PTA – Boiler A				
Particulate Matter	mg/Nm3	9.29	6.43	7.82
Sulphur dioxide as SO2	Kg/day	16.27	11.69	14.14
Nitrogen dioxide as NO2	PPM	46.62	41.6	44.48
Carbon monoxide as CO	PPM	8.95	8.74	8.86
HRSR Heater -1				
Particulate Matter	mg/Nm3	8.55	7.77	8.16
Sulphur dioxide as SO2	Kg/day	22.27	12.16	17.22
Nitrogen dioxide as NO2	PPM	42.35	40	41.18
Carbon monoxide as CO	PPM	9.34	9.12	9.23

Six Monthly Treated Effluent Analysis

Sr. No.	PTA -Treated Effluent	April 2024	May 2024	June 2024	July 2024	August 2024	September 2024	Max	Min	Avg
1	pH @ 25°C	8.07	7.52	8.42	8.22	7.5	8.48	8.48	7.5	8.04
2	Suspended Solids @ 103°C, mg/l	14	18	24	18	12	14	24	12	16.67
3	Chemical Oxygen Demand, mg/l	110	140	80	130	90	20	140	20	95
4	Biochemical Oxygen Demand @ 27°C for 3 days, mg/l	40	55	30	45	35	6.8	55	6.8	35.30
5	Chloride as Cl ⁻ , mg/l	275	240	162	155	65	275	275	65	195.33
6	Sulphates as SO ₄ ⁻² , mg/l	61.81	55.8	955	820	38	79.5	955	38	335.02
7	Oil & Grease, mg/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0

Ambient Noise Level (April, 2024 – September, 2024)

Month	Time	Station P1	Station P2	Station P3	Limits
April 2024	Day Time	59.9	58	61	75
	Night Time	58.4	56.8	59.3	70
May, 2024	Day Time	60.6	57.3	59.2	75
	Night Time	59	56	57.4	70
June 2024	Day Time	60.3	57.9	59.1	75
	Night Time	59.3	56.0	56.4	70
July 2024	Day Time	58.4	59.8	59	75
	Night Time	55.8	58.3	58.1	70
August 2024	Day Time	59.4	57.4	59.5	75
	Night Time	58.8	58.5	57.5	70
September 2024	Day Time	60.4	58.4	59.3	75
	Night Time	60	56.3	56.8	70

Note: All values are in dB(A)

Environmental Statement (Form V) for the year 2023-24

FORM V
(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000069398

Submitted Date

11-09-2024

PART A

Company Information

Company Name

Reliance Industries Limited
(PTA,PIA,PX,MX,EC) Division

Application UAN number

0000175038

Address

B5, MIDC Industrial Area , Patalganga

Plot no

B5

Taluka

Khalapur

Village

Kaire

Capital Investment (In lakhs)

139932

Scale

LSI

City

Patalganga

Pincode

410220

Person Name

N.S. Kamalapurkar

Designation

General Manager - Environment

Telephone Number

9967586551

Fax Number

02192356299

Email

nitin.s.kamalapurkar@ril.com

Region

SRO-Raigad I

Industry Category

Red

Industry Type

R57 Petrochemicals Manufacturing (including processing of Emulsions of oil and water)

Last Environmental statement submitted online

yes

Consent Number

CAC/UAN-0000175038/CO/2401001827

Consent Issue Date

2024-01-16

Consent Valid Upto

2025-08-31

Establishment Year

1984

Date of last environment statement submitted

Jan 1 1900 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

PTA or PIA

PX or MX or Reformate

IG Benzene, Remax, Renine

LPG

ISO and N Pentane

<i>Consent Quantity</i>	<i>Actual Quantity</i>	<i>UOM</i>
300000	0	MT/A
	225038	MT/A
<i>By-product Information</i>		
<i>By Product Name</i>		
250080	0	MT/A
606108	5758	MT/A
27000	5600	MT/A
12504		

<i>Consent Quantity</i>	<i>Actual Quantity</i>	<i>UOM</i>
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Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	3916.00	698.70
Cooling	12923.00	1630.30
Domestic	121.00	117.08
All others	0.00	0.00
Total	16960.00	2446.08

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	5077.4	1429	CMD
Sewage	100.9	100	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Paraxylene Front End	1	1.13	Ton/Ton

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
NAPTHA (varies due to Quality of NAPTHA)	1.46	0.89	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
NA	0	0	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
COD	1429.43	72.50	nil	nil	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SO2	0.58	0	Nil	Nil	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
1.7 Oil from wastewater treatment	404.22	425.25	MT/A
2.2 Sludge containing oil	12.8	3.37	MT/A
33.2 Contaminated cotton rags or other cleaning materials	1.9	1.17	MT/A
4.5 Spent clay containing oil	50.55	85.98	MT/A
5.1 Used or spent oil	7.71	34.46	MT/A
35.3 Chemical sludge from waste water treatment	9.88	86.36	MT/A
Other Hazardous Waste	2.5	2.67	MT/A
Other Hazardous Waste	3.63	5.72	MT/A
Other Hazardous Waste	0	14.89	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	9.88	86.36	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Rockwool Waste	234.25	283.97	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

<u>Type of Hazardous Waste Generated</u>	<u>Qty of Hazardous Waste</u>	<u>UOM</u>	<u>Concentration of Hazardous Waste</u>
1.7 Oil from wastewater treatment	425.25	MT/A	20% Oil

2) Solid Waste

<u>Type of Solid Waste Generated</u>	<u>Qty of Solid Waste</u>	<u>UOM</u>	<u>Concentration of Solid Waste</u>
NA	0	MT/A	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<i>Description</i>	<i>Reduction in Water Consumption (M3/day)</i>	<i>Reduction in Fuel & Solvent Consumption (KL/day)</i>	<i>Reduction in Raw Material (Kg)</i>	<i>Reduction in Power Consumption (KWH)</i>	<i>Capital Investment(in Lacs)</i>	<i>Reduction in Maintenance(in Lacs)</i>
NA	0	0	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.
[A] Investment made during the period of Environmental Statement

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
NA	NA	0

[B] Investment Proposed for next Year

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Environment statement for the year April-2023 to March - 2024 for PIA/ PTA /PX/ MX/EC Division.

Name & Designation

N S Kamalapurkar General Manager - Environment

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000069398

Submitted On:

11-09-
2024