



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

1st June , 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 October 2023 to March 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 October 2023 to March 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 Jun(01 Oct - 31 Mar)****Acknowledgment**

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	AAACR5055K
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 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office Reliance Industries Ltd.

	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	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	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 Agreed. Fresh water will not exceed 16,960 cum / day.		Date: 30/05/2024
2	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 commission.		Date: 30/05/2024
3	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.

<p>PPs Submission: Complied Complied. Included in the design.</p>		<p>Date: 30/05/2024</p>
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.
<p>PPs Submission: Complied Complied. All actions are included in the plant design at the implementation stage.</p>		<p>Date: 30/05/2024</p>
5	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.
<p>PPs Submission: Complied Agreed.</p>		<p>Date: 30/05/2024</p>
6	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.
<p>PPs Submission: Complied Yes it is being followed and requisite precautions are being taken in the design.</p>		<p>Date: 30/05/2024</p>
7	AIR QUALITY MONITORING AND PRESERVATION	Regular VOC monitoring shall be done at vulnerable points.
<p>PPs Submission: Complied LDAR program implemented for VOC Monitoring.</p>		<p>Date: 30/05/2024</p>
8	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: 30/05/2024</p>
9	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.</p>		<p>Date: 30/05/2024</p>
10	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 Will be complied by inclusion in the design stage.</p>		<p>Date: 30/05/2024</p>
11	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.
<p>PPs Submission: Complied Already in place.</p>		<p>Date: 30/05/2024</p>
12	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 Plantation completed.</p>		<p>Date: 30/05/2024</p>
13	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 Being done.</p>		<p>Date: 30/05/2024</p>
14	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.
<p>PPs Submission: Complied 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 is followed.</p>		<p>Date: 30/05/2024</p>
15	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.
<p>PPs Submission: Complied Being followed for the unit being implemented.</p>		<p>Date: 30/05/2024</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 Will be implemented during Project Execution and after commissioning.</p>		<p>Date: 30/05/2024</p>
17	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.

<p>PPs Submission: Complied At RIL PMD we have full fledged fire fighting systems in place along with competent staff . We also have 2 full fledged Fire Stations to respond in case of Emergency.</p>		<p>Date: 30/05/2024</p>
18	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.
<p>PPs Submission: Complied It will be implemented for the new Stack. For Existing stacks already installed.</p>		<p>Date: 30/05/2024</p>
19	ENERGY PRESERVATION MEASURES	The project proponent shall develop at least 1 MW green energy/solar energy
<p>PPs Submission: Complied The 1 .5 MW solar power project implemented outside PMD Complex.</p>		<p>Date: 30/05/2024</p>
20	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.
<p>PPs Submission: Complied Occupational Health centre already in place.</p>		<p>Date: 30/05/2024</p>
<p>General Conditions</p>		
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.
<p>PPs Submission: Complied Will be followed.</p>		<p>Date: 30/05/2024</p>
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.
<p>PPs Submission: Complied Offices, control rooms etc and street lights are converted into LED. Plant lighting approx. 25% converted into LED and planned to complete balance in next 3 years.</p>		<p>Date: 30/05/2024</p>
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.		Date: 30/05/2024
4	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: 30/05/2024
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 Yes it is being planned.		Date: 30/05/2024
6	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.		Date: 30/05/2024
7	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: 30/05/2024
8	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 Will be followed.		Date: 30/05/2024
9	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 Yes, will be followed.		Date: 30/05/2024
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 Yes will inform the Regional Office as well as Ministry.		Date: 30/05/2024
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: 30/05/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		Attachments-Monitoring Results & photos are uploaded as Additional Attachment

Six Monthly Ambient Air Monitoring Results

Oct 2023 to Mar 2024

LAB - L1 Laboratory Terrace						
Parameter	Units	Max	Min	Average		
Sulphur dioxide as SO ₂	µg/m ³	35.51	22.02	29.34		
Nitrogen dioxide as NO ₂	µg/m ³	48.29	35.33	41.61		
PM ₁₀	µg/m ³	91.52	65.25	82.64		
PM _{2.5}	µg/m ³	36.25	23.75	30.70		
Carbon monoxide as CO	mg/m ³	0.95	0.72	0.82		
Ozone as O ₃	µg/m ³	23.25	12.55	18.37		
Ammonia as NH ₃	µg/m ³	39.80	26.23	33.95		
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		
NMHC	ppm	0.00	0.00	0.00		
LAB - B1 Tank farm						
Sulphur dioxide as SO ₂	µg/m ³	34.80	24.63	27.63		
Nitrogen dioxide as NO ₂	µg/m ³	48.97	37.20	41.53		
PM ₁₀	µg/m ³	93.36	72.24	83.99		
PM _{2.5}	µg/m ³	47.50	23.75	33.75		
Carbon monoxide as CO	mg/m ³	0.90	0.68	0.83		
Ozone as O ₃	µg/m ³	20.08	14.50	16.78		
Ammonia as NH ₃	µg/m ³	39.06	29.60	33.51		
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	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00	0.00
Benzene [C ₆ H ₆]	µg/m ³	0.00	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00	0.00
LAB - A3 Tank farm substation					
Sulphur dioxide as SO ₂	µg/m ³	31.96	24.49	28.87	28.87
Nitrogen dioxide as NO ₂	µg/m ³	49.66	40.88	43.92	43.92
PM ₁₀	µg/m ³	90.97	80.12	86.09	86.09
PM _{2.5}	µg/m ³	36.25	27.50	32.50	32.50
Carbon monoxide as CO	mg/m ³	0.90	0.81	0.86	0.86
Ozone as O ₃	µg/m ³	27.06	17.44	20.86	20.86
Ammonia as NH ₃	µg/m ³	36.83	28.75	33.66	33.66
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00	0.00
Lead as Pb	µg/m ³	0.00	0.00	0.00	0.00
Nickel as Ni	ng/m ³	0.00	0.00	0.00	0.00
Arsenic as As	ng/m ³	0.00	0.00	0.00	0.00
Benzene [C ₆ H ₆]	µg/m ³	0.00	0.00	0.00	0.00
NMHC	ppm	0.00	0.00	0.00	0.00
PTA - Safety Building Terrace					
Sulphur dioxide as SO ₂	µg/m ³	32.67	21.96	27.58	27.58
Nitrogen dioxide as NO ₂	µg/m ³	47.60	41.89	45.30	45.30
PM ₁₀	µg/m ³	95.45	82.69	88.66	88.66
PM _{2.5}	µg/m ³	37.50	26.25	31.04	31.04
Carbon monoxide as CO	mg/m ³	0.90	0.83	0.87	0.87
Ozone as O ₃	µg/m ³	33.92	18.13	22.91	22.91
Ammonia as NH ₃	µg/m ³	39.18	31.25	35.78	35.78
Benzo(a)pyrene as BaP	ng/m ³	0.00	0.00	0.00	0.00

Lead as Pb	µg/m ³	0.20	0.00	0.00
Nickel as Ni	ng/m ³	0.20	0.00	0.00
Arsenic as As	ng/m ³	0.20	0.00	0.00
Benzene [C ₆ H ₆]	µg/m ³	0.20	0.00	0.00
NMHC	ppm	0.20	0.00	0.00
PTA – Energy center				
Sulphur dioxide as SO ₂	µg/l ³	37.54	23.65	30.39
Nitrogen dioxide as NO ₂	µg/l ³	53.30	37.25	44.60
PM ₁₀	µg/l ³	98.52	79.26	89.90
PM _{2.5}	µg/l ³	38.75	32.50	35.42
Carbon monoxide as CO	mg/m ³	0.58	0.69	0.82
Ozone as O ₃	µg/m ³	23.43	14.53	18.43
Ammonia as NH ₃	µg/m ³	43.50	27.46	35.11
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 PDY				
Sulphur dioxide as SO ₂	µg/m ³	34.80	22.80	28.58
Nitrogen dioxide as NO ₂	µg/m ³	49.29	33.11	43.14
PM ₁₀	µg/m ³	96.87	80.80	88.97
PM _{2.5}	µg/m ³	40.00	28.75	34.63
Carbon monoxide as CO	mg/m ³	0.88	0.58	0.79
Ozone as O ₃	µg/m ³	23.71	15.59	18.83
Ammonia as NH ₃	µg/m ³	36.85	26.49	32.67
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	33.38	16.89	24.82
Nitrogen dioxide as NO ₂	µg/m ³	47.60	28.97	40.87
PM ₁₀	µg/m ³	98.61	85.60	91.68
PM _{2.5}	µg/m ³	41.04	28.75	34.97
Carbon monoxide as CO	mg/m ³	0.95	0.72	0.81
Ozone as O ₃	µg/m ³	27.34	12.42	18.90
Ammonia as NH ₃	µg/m ³	38.69	24.23	31.77
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

Six Monthly Stack Monitoring Results

Oct 2023 to Mar 2024

Parameter	Units	Max	Min	Average
PTA – Px Heater 1042				
Particulate Matter	mg/Nm ³	9.25	5.00	7.58
Sulphur dioxide as SO ₂	Kg/day	3.68	1.80	2.88
Nitrogen dioxide as NO ₂	PPM	50.04	42.35	45.28
Carbon monoxide as CO	PPM	10.02	6.00	8.07
PTA – Px Heater 2001				
Particulate Matter	mg/Nm ³	9.32	7.12	8.26
Sulphur dioxide as SO ₂	Kg/day	1.40	0.91	1.17
Nitrogen dioxide as NO ₂	PPM	50.14	44.59	47.00
Carbon monoxide as CO	PPM	10.60	8.64	9.74
PTA – Px Heater 2002				
Particulate Matter	mg/Nm ³	11.60	5.00	7.66
Sulphur dioxide as SO ₂	Kg/day	1.33	0.84	1.00
Nitrogen dioxide as NO ₂	PPM	46.25	39.56	42.79
Carbon monoxide as CO	PPM	9.48	6.02	8.40
PTA – Px Heater 3001,2,3				
Particulate Matter	mg/Nm ³	10.33	5.00	7.67
Sulphur dioxide as SO ₂	Kg/day	16.84	5.63	8.29
Nitrogen dioxide as NO ₂	PPM	48.69	37.10	43.93
Carbon monoxide as CO	PPM	9.09	6.88	8.09
PTA – Boiler C				
Particulate Matter	mg/Nm ³	9.87	5	6.842
Sulphur dioxide as SO ₂	Kg/day	22.18	16.53	19.318
Nitrogen dioxide as NO ₂	PPM	51.49	43.48	47.406
Carbon monoxide as CO	PPM	10.83	6.08	8.578

Nitrogen dioxide as NO2	PPM	48.13	41.99	44.958
Carbon monoxide as CO	PPM	9.61	7.08	8.726
PFY DOW Heater-3				
Particulate Matter	mg/Nm3	7.08	5	6.056667
Sulphur dioxide as SO2	Kg/day	2.34	1.74	1.973333
Nitrogen dioxide as NO2	PPM	42.35	38.42	40.11
Carbon monoxide as CO	PPM	9	7.08	7.86
PFY CFDV Plant Heater -2				
Particulate Matter	mg/Nm3	9.71	6.83	8.285
Sulphur dioxide as SO2	Kg/day	333.09	238.51	291.2983
Nitrogen dioxide as NO2	PPM	52.61	45.92	49.855
Carbon monoxide as CO	PPM	18.8	14.86	16.36333
PFY CFDV Plant Heater -1				
Particulate Matter	mg/Nm3	12.31	8.28	9.95
Sulphur dioxide as SO2	Kg/day	339.69	262.19	298.6633
Nitrogen dioxide as NO2	PPM	50.15	45.13	47.58333
Carbon monoxide as CO	PPM	18.6	15.28	16.9

PTA – Boiler A					
Particulate Matter	mg/Nm ³	8.11	8.11	8.11	8.11
Sulphur dioxide as SO ₂	Kg/day	11.34	11.34	11.34	11.34
Nitrogen dioxide as NO ₂	PPM	43.1	43.1	43.1	43.1
Carbon monoxide as CO	PPM	8.68	8.68	8.68	8.68
Lab Back End					
Particulate Matter	mg/Nm ³	11.32	6.07		8.50
Sulphur dioxide as SO ₂	Kg/day	23.69	13.76		18.10
Nitrogen dioxide as NO ₂	PPM	47.70	39.76		43.81
Carbon monoxide as CO	PPM	10.35	6.89		8.60
Lab Front Enc					
Particulate Matter	mg/Nm ³	6.42	6.28		6.35
Sulphur dioxide as SO ₂	Kg/day	27.29	14.88		20.805
Nitrogen dioxide as NO ₂	PPM	57.6	38.23		50.41333
Carbon monoxide as CO	PPM	10.5	7.8		9.218333
PFY Thermax 1					
Particulate Matter	mg/Nm ³	5	5	5	5
Sulphur dioxide as SO ₂	Kg/day	1.18	1.18	1.18	1.18
Nitrogen dioxide as NO ₂	PPM	40.09	40.09	40.09	40.09
Carbon monoxide as CO	PPM	10	10	10	10
PFY Thermax 2					
Particulate Matter	mg/Nm ³	10.51	5		6.985
Sulphur dioxide as SO ₂	Kg/day	1.33	0.89		1.13
Nitrogen dioxide as NO ₂	PPM	52.05	43.1		47.85333
Carbon monoxide as CO	PPM	8.4	7.09		7.548333
PFY DOW Heater-2					
Particulate Matter	mg/Nm ³	10.69	5		6.914
Sulphur dioxide as SO ₂	Kg/day	2.58	1.6		2.034

Tree Plantation at the periphery of Boundary wall



Installation of Solar Panel outside the PMD Site



Six Monthly Treated Effluent Analysis

Sr. No.	PTA -Treated Effluent	October 23	Nov - 23	Dec- 23	Jan- 24	Feb-24	Mar- 24	Max	Min	Avg
1	pH @ 25°C	6.93	6.88	6.95	6.82	7.12	7.18	7.18	6.82	6.98
2	Suspended Solids @ 103°C, mg/l	10	8	10	8.0	10	12	12	8	9.66
3	Chemical Oxygen Demand, mg/l	30	20	100	100	110	150	150	20	85
4	Biochemical Oxygen Demand @ 27°C for 3 days, mg/l	12	6.9	35	38	38	54	54	6.9	30.65
5	Total Dissolved Solids @ 180°C, mg/l	1250	1210	1310	1350	1270	1230	1350	1210	1270
6	Chloride as Cl ⁻ , mg/l	250	235	245	260	230	225	260	225	240.83
7	Sulphates as SO ₄ ²⁻ , mg/l	170	155	175	168	150	140	175	140	159.66
8	Oil & Grease, mg/l	<2	<2	<2	<2	<2	<2	<2.0	<2.0	<2.0