



## TEST REPORT

Report No:	EFEL/PRO/2025/09/695	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	16/09/2025	Sampling duration	1440 Min
Start Date of Analysis	17/09/2025	End Date of Analysis	22/09/2025
Sampling Location	Near Main Gate	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	28°C	Wet bulb temperature	24°C
Relative Humidity	72 %	Sampling done by	M/s. Green India Environmental Consultant ( 9503651578)

## Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	22.3	µg/m <sup>3</sup>	≤ 80	IS 5182(Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	28.9	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	54.3	µg/m <sup>3</sup>	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM <sub>2.5</sub>	30.5	µg/m <sup>3</sup>	≤ 60	
5	Carbon Monoxide (CO)	0.3	mg/m <sup>3</sup>	≤ 04	
6	Ozone (O <sub>3</sub> )	21.5	µg/m <sup>3</sup>	≤ 180	
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Ammonia (NH <sub>3</sub> )	BDL	µg/m <sup>3</sup>	≤ 400	
11	Benzo(a)Pyrene (BaP)	BDL	ng/ m <sup>3</sup>	≤ 1.0	
12	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	

Remark- All above results are within National Ambient Air Quality standards.  
BDL – Below Detectable Limit.



  
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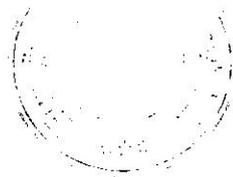
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Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	16/09/2025	Sampling duration	1440 Min
Start Date of Analysis	17/09/2025	End Date of Analysis	22/09/2025
Sampling Location	Near ETP Area	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	28°C	Wet bulb temperature	24°C
Relative Humidity	72 %	Sampling done by	M/s. Green India Environmental Consultant ( 9503651578)

## Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	19.8	µg/m <sup>3</sup>	≤ 80	IS 5182(Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	24.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	54.6	µg/m <sup>3</sup>	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM <sub>2.5</sub>	32.0	µg/m <sup>3</sup>	≤ 60	
5	Carbon Monoxide (CO)	0.4	mg/m <sup>3</sup>	≤ 04	
6	Ozone (O <sub>3</sub> )	19.6	µg/m <sup>3</sup>	≤ 180	
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Ammonia (NH <sub>3</sub> )	BDL	µg/m <sup>3</sup>	≤ 400	
11	Benzo(a)Pyrene (BaP)	BDL	ng/ m <sup>3</sup>	≤ 1.0	
12	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	

Remark- All above results are within National Ambient Air Quality standards.  
BDL – Below Detectable Limit.



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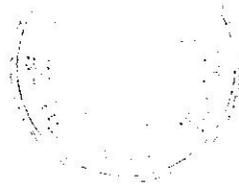
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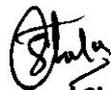
Report No:	EFEL/PRO/2025/09/697	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Source Emission	Sample Description	Stack Material : MS
Date of Sampling	16/09/2025		Stack Height : 40 mtr
Start Date of Analysis	17/09/2025		Stack Type : Round
End Date of Analysis	22/09/2025	Sampling Location	Boiler
Sampling done by	M/s. Green India Environmental Consultant ( 9503651578)	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

## Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	412	K		--
2	Differential Pressure	4.6	mm WG		
3	Velocity	5.04	M/s		
4	Dimensions of Stack	0.4	Mtr.		
5	Stack Area	0.1256	M <sup>2</sup>		
6	Gas Volume	2358.40	Nm <sup>3</sup> /Hr		
7	Particulate Matter	64.3	mg/Nm <sup>3</sup>	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO <sub>2</sub> )	24.0	mg/Nm <sup>3</sup>	--	
9	Sulphur Dioxide (SO <sub>2</sub> )	1.35	Kg/day		

➤ **Remark-** All above results are well within MPCB Limit.  
BDL.: - Below Detection Limit



  
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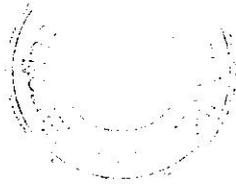
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Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Source Emission	Sample Description	Stack Material : MS
Date of Sampling	16/09/2025		Stack Height : 10 mtr
Start Date of Analysis	17/09/2025		Stack Type : Round
End Date of Analysis	22/09/2025	Sampling Location	D G Set 500 KVA
Sampling done by	M/s. Green India Environmental Consultant ( 9503651578)	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

## Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	424	K		
2	Differential Pressure	3.2	mm WG		
3	Velocity	6.99	M/s		
4	Dimensions of Stack	0.15	Mtr.		
5	Stack Area	0.017	M <sup>2</sup>		
6	Gas Volume	312.59	Nm <sup>3</sup> /Hr		
7	Particulate Matter	54.3	mg/Nm <sup>3</sup>	≤ 150	
8	Ammonia	16.0	Ppm	<50	
9	Oxide of Nitrogen (Nox)	12.0	mg/Nm <sup>3</sup>	==	

➤ Remark- All above results are well within MPCB Limit.  
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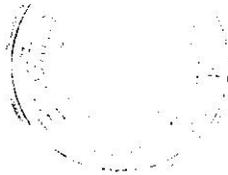
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Report No:	EFEL/PRO/2025/09/699	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Source Emission	Sample Description	Stack Material : MS
Date of Sampling	16/09/2025		Stack Height : 15 mtr
Start Date of Analysis	17/09/2025		Stack Type : Round
End Date of Analysis	22/09/2025	Sampling Location	Scrubber
Sampling done by	M/s. Green India Environmental Consultant ( 9503651578)	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

## Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	304	K		
2	Differential Pressure	3.0	mm WG		
3	Velocity	5.73	M/s		
4	Dimensions of Stack	0.6	Mtr.		
5	Stack Area	0.2826	M <sup>2</sup>		
6	Gas Volume	5719.25	Nm <sup>3</sup> /Hr		
7	Particulate Matter	40.0	mg/Nm <sup>3</sup>	≤ 150	
8	Ammonia	12.6	Ppm	<50	
9	Oxide of Nitrogen (Nox)	11.3	mg/Nm <sup>3</sup>	--	
10	Acid Mist	4.0	PPM	--	

➤ **Remark-** All above results are well within MPCB Limit.  
BDL.: - Below Detection Limit



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## TESTREPORT

Report No:	EFEL/PRO/2025/09/700	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Work zone Air	Sample Description	Work zone Air
Date of Sampling	16/09/2025	Sampling duration	4 hrs.
Start Date of Analysis	17/09/2025	End Date of Analysis	22/09/2025
Sampling Location	Production Area 1 st Floor	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry & bulb temperature	25 °C	Wet bulb temperature	21 °C
Relative Humidity	58 %	Sampling done by	Green India Environmental Consultant ( 9503651578)

## Results

Sr. No.	Parameter	Result	Unit(s)	Specifications (The Factories Act 1948, standards)	Method
1	Sulphur Dioxide(SO <sub>2</sub> )	11.60	µg/M <sup>3</sup>	≤ 5000	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO <sub>2</sub> )	15.40	µg/M <sup>3</sup>	≤ 6000	IS 5182 (Part 6)
3	Suspended Particulate Matter	34.00	µg/M <sup>3</sup>	N.S.	CPCB Guideline for measurement of Ambient Air pollutants Volume I

Remark- Results are well within the Factories Act, 1948 Standards.



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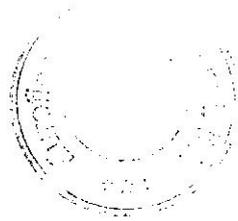
Report No:	EFEL/PRO/2025/09/701	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Noise	Sample Description	Ambient Noise
Date of Sampling	16/09/2025	Sampling duration	Spot Time
Sampling done by	M/s. Green India Environmental Consultant ( 9503651578 )		

## Results

Sr. No.	Locations	12.30 Hrs Result dB(A) Day	22.00 Hrs Result dB(A) Night	Specifications (CPCB Standards dB(A))	Method
1.	Near Main Gate	66.5	61.3	75/70	CPCB Guideline
2.	Near ETP Area	64.2	60.2		
3.	Production Area 1 <sup>st</sup> Floor	66.3	61.3		
4.	Near Boiler House	64.3	59.8		
5.	Near Cooling Tower	68.4	63.2		
6.	Near DG Set	67.0	63.2		
7.	QC Lab	64.3	59.6		
8.	Production Area Ground Floor	66.9	62.0		

### Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -75/70 dB.



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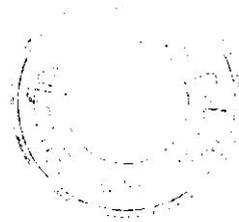


## TEST REPORT

Report No:	EFEL/PRO/2025/09/702	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Effluent	Sample Description	ETP Inlet
Date of Sampling	16/09/2025	Sampling duration	--
Start Date of Analysis	17/09/2025	End Date of Analysis	22/09/2025
Sampling Location	ETP Plant	Sampling Procedure	APHA 1060
Sampling done by	Green India Environmental Consultant ( 9503651578 )	Sample Quantity	1 L

## Results

Sr. No.	Parameter	Result	Unit(s)	Method
1	pH	6.92	--	APHA 4500 H+ A, 24 <sup>th</sup> Ed. 2023
2	Total Suspended Solids TSS	420.00	mg/L	APHA 2540 D, 24 <sup>th</sup> Ed. 2023
3	Biochemical Oxygen Demand BOD at 27°C for 3 days	762.0	mg/L	IS 3025 (Part 44)
4	Chemical Oxygen Demand COD	8420.0	mg/L	IS 3025 (Part 58)
5	Oil & Grease	6.00	mg/L	APHA 5520 B, 24 <sup>th</sup> Ed. 2023



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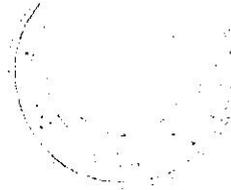
## TEST REPORT

Report No:	EFEL/PRO/2025/09/703	Issue Date	22/09/2025
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Effluent	Sample Description	ETP Outlet
Date of Sampling	16/09/2025	Sampling duration	
Sampling Location	ETP Plant	Sampling Procedure	APHA 1060
Sampling done by	Green India Environmental Consultant ( 9503651578 )	Sample Quantity	2 L
Start Date of Analysis	17/09/2025	End Date of Analysis	22/09/2025

## Results

Sr. No.	Parameters	Results	Unit(s)	MPCB Limit	Methods
1	pH	7.36	--	5.5 - 9.0	APHA 4500 H+ A, 24 <sup>th</sup> Ed. 2023
2	Total Suspended Solids TSS	14.00	mg/L	<100	APHA 2540 D, 24 <sup>th</sup> Ed. 2023
3	BOD at 27°C for 3 days	28.0	mg/L	<100	IS 3025 (Part 44)
4	Chemical Oxygen Demand COD	88.60	mg/L	<250	IS 3025 (Part 58)
5	Oil & Grease	BDL	mg/L	<10	APHA 5520 B, 24 <sup>th</sup> Ed. 2023

Remark- All Parameters are Within MPCB Limit.



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## TEST REPORT

Report No:	EFEL/PRO/2025/09/704	Issue Date	22/09/2023
Name and Address of Customer	M/s. Macrotech Polychem Pvt Ltd. Plot No. L-60/61, MIDC Tarapur, Boisar, Palghar 401506, Maharashtra.		
Sample Name	Water	Sample Description	Drinking Water
Date of Sampling	16/09/2023	Sampling duration	---
Sampling Location	Cooler	Sampling Procedure	APHA 1060
Sampling done by	Green India Environmental Consultant ( 9503651578 )	Sample Quantity	2 L
Start Date of Analysis	17/09/2023	End Date of Analysis	22/09/2023

## WATER ANALYSIS REPORT

Sr. No.	Parameters	Results	Limits as per IS 10500:2012	Unit(s)	Standard Method
<b>Physical Parameter</b>					
1.	Color	≤1.0	1.0	Hazen	APHA 2120 B, 24 <sup>th</sup> Ed. 2023
2.	Odour	Agreeable	Agreeable	--	IS 3025 (Part 5) : 1983
3.	Turbidity	≤1.0	1.0	NTU	APHA 2130 B, 24 <sup>th</sup> Ed. 2023
4.	Taste	Agreeable	Agreeable	--	IS : 3025 (Part 7 and 8):1984
<b>Chemical Parameter</b>					
5.	Total Alkalinity as CaCO <sub>3</sub>	21.00	200	mg/L	APHA 2540 C, 24 <sup>th</sup> Ed. 2023
6.	pH	7.16	6.5 to 8.5	--	APHA 4500 H+ A, 24 <sup>th</sup> Ed. 2023
7.	Total Hardness as CaCO <sub>3</sub>	44.3	200	mg/L	IS 3025 (Part 21):2009
8.	Iron (as Fe)	≤0.05	≤0.3	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
9.	Copper (as Cu)	BDL	≤0.05	mg/L	APHA 3111, 24 <sup>th</sup> Ed. 2023
10.	Chloride ( as Cl)	18.9	250	mg/L	APHA 4500 Cl-, 24 <sup>th</sup> Ed. 2023
11.	Residual Chlorine	≤0.05	0.20	mg/L	APHA 4500 Cl, 24 <sup>th</sup> Ed. 2023
12.	Calcium (as Ca)	10.6	75	mg/L	IS : 3025 (Part 40)1991
13.	Magnesium (as Mg)	4.90	≤30	mg/L	IS : 3025 (Part 46)
14.	Sulphate (as SO <sub>4</sub> )	13.6	200	mg/L	IS : 3025 (Part 24)1986
15.	Nitrate (as NO <sub>3</sub> )	0.22	45	mg/L	APHA 4500 NO <sub>3</sub> , 24 <sup>th</sup> Ed. 2023
16.	Fluoride ( as F)	≤0.05	1.0	mg/L	APHA 4500 F, 24 <sup>th</sup> Ed. 2023
17.	Phenolic compounds	BDL	≤0.001	mg/L	IS:3025(Part 43)
18.	Mercury ( as Hg)	BDL	≤0.001	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
19.	Cadmium (as Cd)	BDL	≤0.03	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
20.	Manganese (as Mn)	BDL	≤0.10	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023

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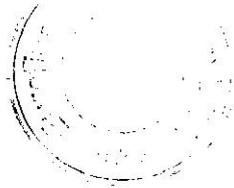
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21.	Selenium (as Se)	BDL	≤0.01	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
22.	Arsenic (as As)	BDL	≤0.01	mg/L	APHA 3500 As , 24 <sup>th</sup> Ed. 2023
23.	Cyanide (as CN)	BDL	≤0.05	mg/L	APHA 4500 CN , 24 <sup>th</sup> Ed. 2023
24.	Lead( as Pb)	BDL	≤0.01	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
25.	Zinc ( as Zn)	BDL	≤5	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
26.	Nickel (as Ni)	BDL	≤0.02	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
27.	Aluminum (as Al)	BDL	≤0.03	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
28.	Anionic detergents as (MBAS)	BDL	≤0.2	mg/L	APHA 5540 C, 24 <sup>th</sup> Ed. 2023
29.	Chromium ( as Cr)	BDL	≤0.05	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
30.	Poly nuclear Aromatic Hydrocarbons	BDL	≤0.0005	mg/L	USEPA 55.2
31.	Boron( as B)	BDL	≤0.05	mg/L	APHA 3111 , 24 <sup>th</sup> Ed. 2023
<b>Microbiological Parameter</b>					
32.	Total Coliform 37 <sup>o</sup> C for 48 hrs	Absent		MPN/100ml	IS 1622:1981
33.	Fecal coliform at 44.5 <sup>o</sup> C 24 hrs	Absent		MPN/100ml	IS 1622:1981
34.	E.Coil at 45.5 <sup>o</sup> C 24 hrs	Absent		MPN/100ml	IS 1622:1981
35.	Total Plate Count at 37 <sup>o</sup> C for 48 hrs	64		CFU/ml	IS 1622:1981
<b>Remark(s): We certify that the sample conforms to the IS:10500:2012 (Part Analysis) Specification for drinking water in respect of above tests and is suitable for potable (Drinking) Purpose as Bacterial and chemical contamination is not indicated</b>					



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