ABC Techno Labs India Private Limited

ABC TOWER #400, 13th Street, SIDCO Industrial Estate - North Phase,
Ambattur, Chennai - 600 098, Tamilnadu, INDIA.
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Email: lab@abctechnolab.com / Web: www.abctechnolab.com

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Quality Uncompromised

TC - 5770

(An ISO : 9001, ISO : 14001, ISO : 45001 & ISO : 22000 Certified Company)

Accredited by NABL vide TC-5770, NABET / QCI, Approved by FSSAI, Recognised by MoEF&CC, BIS, APEDA, IOPEPC, Tea Board of India

TEST REPORT

ISSUED TO:

Sontheru Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/001**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Amhieut Air Quality Monitoring**				
Location of Sampling	:	**Tauk Farm**		Date of Completion	:	09-04-2026
Date of Sampling	:	29-03-2026 to 30-03-2026		Report Date	:	20-05-2026
Date of Receipt	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Date of Analysis	:	31-03-2026		Average Wind Speed/direction	:	7.9 Km/hr-S
Temperature (°C)	:	Min: 26	Max: 36	Rain Fall	:	Nil
Relative Humidity (%)	:	Min: 58	Max: 84			
Sampliug Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011531F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	49.7	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	22.3	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	7.36	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	17.3	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	13.7	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	45.1	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

Authorised Signatory

Verified by

Terms and Conditions :
• The test results relate only to the items tested. • The test report shall not be reproduced in full or part without the written approval of ABCTL. • The test items will not be retained for more than 15 days from the date of issue of test report for Non-Perishable samples and in the case of Perishable samples test items will be retained for 7 days after date of issue of report or as per customer requirement. • The laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount. • The test report is issued for the purpose of identifying the characteristic and not intended to use for any publicity / litigation purpose.

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ISSUED TO:

TEST REPORT

Sonthern Petrochemical Indnstries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/002**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Ambient Air Quality Monitoring**				
Location of Sampling	:	**IETP Area**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011532F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	51.0	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	23.7	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	8.7	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	16.2	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	11.8	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	32.9	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Indnstries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/003**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Amhient Air Quality Monitoring**				
Location of Sampling	:	**Urea Bagging**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011533F

Si. No.	Test Parameters	Test Method	Unit	Resnlts	Limits*
Discipiine/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	57.4	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	26	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	7.73	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	15.4	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	10.5	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	28.4	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Indnstries Corporation Limited
SPIC Nagar,Muthaialpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/004**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Amhient Air Quality Monitoring**				
Location of Sampling	:	**Officer's Ciub**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011550F

Sl. No.	Test Parameters	Test Method	Unit	Resnlts	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m^3	42.3	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m^3	15.1	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m^3	6.22	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m^3	14.6	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m^3	13.1	100
6	Lead (Pb)	IS 5182 Part 22	µg/m^3	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m^3	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m^3	26.3	400
9	Benzene	IS 5182 Part 11	µg/m^3	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m^3	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m^3	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m^3	BDL (DL:1.0)	20

*National Ambient Air Qnality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Sonthern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ARCTL/2603/0400/005**					
Sample Drawn by	:	ABC Techno Labs India Private Limited					
Sample Description	:	**Amhient Air Quality Monitoring**					
Location of Sampling	:	**JVP Shed**					
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026	
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026	
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa	
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S	
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil	
Sampling Method	:	**IS 5182 Part 5 & 14**					

ULR TC577026000011534F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	53.0	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	24.8	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	7.85	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	17.8	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	12.1	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	24.7	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issne No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

ABC TECHNO LABS INDIA PVT. LTD. Chennai 600098

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/006**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Ambient Air Quality Monitoring**				
Location of Sampling	:	**Auto SS**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011535F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	61.3	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	30.2	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	8.65	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	14.7	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	10.8	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	29.4	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

EPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/007**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Ambient Air Quality Monitoring**				
Location of Sampling	:	**Inst Change Room**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011536F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	45.2	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	25.3	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	7.49	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	16.7	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	11.1	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	39.9	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

Verified hy

Authorised Signatory

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/008**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Amhient Air Quality Monitoring**				
Location of Sampling	:	**Safety Department**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011537F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	54.0	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	26.7	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	6.78	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	15.6	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	13.4	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	30.2	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Sonthern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/009**				
Sample Drawn by	:	ABC Techno Labs India Private Limited				
Sample Description	:	**Amhient Air Quality Monitoring**				
Location of Sampling	:	**Agri Clinic**				
Date of Sampling	:	29-03-2026 to 30-03-2026		Date of Completion	:	09-04-2026
Date of Receipt	:	31-03-2026		Report Date	:	20-05-2026
Date of Analysis	:	31-03-2026		Average Atmospheric Pressure	:	1003hpa
Temperature (°C)	:	Min: 26	Max: 36	Average Wind Speed/direction	:	7.9 Km/hr-S
Relative Humidity (%)	:	Min: 58	Max: 84	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

ULR TC577026000011538F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits*
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Particulate Matter (Particle size less than 10 µm, (PM 10)	IS 5182 Part 23	µg/m³	40.8	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5)	40 CFR Appendix L Part 50	µg/m³	19.5	60
3	Sulphur Dioxide (SO_2)	IS 5182 Part 2	µg/m³	7.73	80
4	Nitrogen oxide (NO_2)	IS 5182 (Part- 6):2018	µg/m³	16.4	80
5	Ozone (O_3)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023	µg/m³	11.8	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL (DL:0.10)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL (DL:1.0)	2
8	Ammonia (NH_3)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023	µg/m³	23.4	400
9	Benzene	IS 5182 Part 11	µg/m³	BDL (DL:0.1)	5
10	Benzo[a]pyrene-Particulate Phase only	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:0.1)	1
11	Arsenic (As)	ABCTL/SOP/10 Issue No:02, Dated 01-06.2023	ng/m³	BDL (DL:1.0)	6
12	Nickel (Ni)	ABCTL/SOP/A12-Issue No.02,Date: 02.06.2023	ng/m³	BDL (DL:1.0)	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009. BDL- Below Detection Limit, DL-Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/027R**			
Sample Drawn by	:	ABC Techno Labs India Private Limited			
Sample Description	:	**Indoor Air Quality Monitoring**			
Location of Sampling	:	**Urea Plant**			
Date of Sampling	:	30-03-2026	Date of Completion	:	04-04-2026
Date of Receipt	:	31-03-2026	Report Date	:	22-05-2026
Date of Analysis	:	31-03-2026	Page No	:	Page:1 of 1
Sampling Method	:	**NIOSU Method**			

ULR : TC577026000011638F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Total aerosol mass (SPM)	NIOSH 0500	mg/m^3	2.93	15
2	Sulphur Dioxide as SO_2	ASTM D - 2914 - 01	mg/m^3	0.426	5
3	Nitrogen oxide as NO_2	NIOSH 6014	mg/m^3	0.485	6

The above samples confirms the standards as prescribed by OSHA Standard for 8 Hours Exposure.

.....End of Report.....

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Senior Manager - Technical

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TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/027R**			
Sample Drawn by	:	ABC Techno Labs India Private Limited			
Sample Description	:	**Indoor Air Quality Monitoring**			
Location of Sampling	:	**Urea Plaut**			
Date of Sampling	:	30.03.2026	Date of Completion	:	04-04-2026
Date of Receipt	:	31.03.2026	Report Date	:	22-05-2026
Date of Analysis	:	31-03-2026	Page No	:	Page:1 of 1
Sampling Method	:	**NIOSH Method**			

Sl. No.	Test Parameters	Unit	Results	Test Method	Limits
1	Ammonia as NH3	mg/m^3	2.38	ABCTL/SOP/A/05 Issue No:01, Date:02.01.2015	35

The above samples confirms the standards as prescribed by OSHA Standard for 8 Hours Exposure.
Note: Amendment to Test Report No.ABCTL/2603/0400/027,dated 31-03-2026 with changes in Unit Correction.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southeru Petrochemical ludustries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/028R**			
Sample Drawn by	:	ABC Techno Labs India Private Limited			
Sample Description	:	**Indoor Air Quality Mouitoring**			
Location of Sampling	:	**Ammouia Plant**			
Date of Sampling	:	30-03-2026	Date of Completion	:	04-04-2026
Date of Receipt	:	31-03-2026	Report Date	:	22-05-2026
Date of Analysis	:	31-03-2026	Page No	:	Page:1 of 1
Sampling Method	:	**NIOSH Method**			

ULR : TC577026000011639F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipliue/Group:Chemical Testing/Atmospheric Pollution					
1	Total aerosol mass (SPM)	NIOSH 0500	mg/m^3	1.72	15
2	Sulphur Dioxide as SO_2	ASTM D - 2914 - 01	mg/m^3	0.32	5
3	Nitrogen oxide as NO_2	NIOSH 6014	mg/m^3	0.34	6

The above samples confirms the standards as prescribed by OSHA Standard for 8 Hours Exposure.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TEST REPORT

Southeru Petrochemical Iudustries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/028R**			
Sample Drawn by	:	ABC Techno Labs India Private Limited			
Sample Description	:	**Indoor Air Quality Mouitoring**			
Location of Sampling	:	**Ammouia Plant**			
Date of Sampling	:	30.03.2026	Date of Completion	:	04-04-2026
Date of Receipt	:	31.03.2026	Report Date	:	22-05-2026
Date of Analysis	:	31-03-2026	Page No	:	Page:1 of 1
Sampling Method	:	**NIOSH Method**			

Sl. No.	Test Parameters	Unit	Results	Test Method	Limits
1	Ammonia as NH3	mg/m^3	4.91	ABCTL/SOP/A/05 Issue No:01, Date:02.01.2015	35

The above samples confirms the standards as prescribed by OSHA Standard for 8 Hours Exposure.
Note: Amendment to Test Report No.ABCTL/2603/0400/028,dated 31-03-2026 with changes in Unit Correction.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Rohson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical ludustries Corporatiou Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/029R**			
Sample Drawn by	:	ABC Techno Labs India Private Limited			
Sample Description	:	**ludoor Air Quality Mouitoring**			
Location of Sampling	:	**Urea Bagging**			
Date of Sampling	:	30-03-2026	Date of Completion	:	04-04-2026
Date of Receipt	:	31-03-2026	Report Date	:	22-05-2026
Date of Analysis	:	31-03-2026	Page No	:	Page:1 of 1
Sampling Method	:	**NIOSH Method**			

ULR : TC577026000011640F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Atmospheric Pollution					
1	Total aerosol mass (SPM)	NIOSH 0500	mg/m^3	2.13	15
2	Sulphur Dioxide as SO_2	ASTM D - 2914 - 01	mg/m^3	0.30	5
3	Nitrogen oxide as NO_2	NIOSH 6014	mg/m^3	0.36	6

The above samples confirms the standards as prescribed by OSHA Standard for 8 Hours Exposure.

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TEST REPORT

Southeru Petrochemical ludustries Corporatiou Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/029R**			
Sample Drawn hy	:	ABC Techno Labs India Private Limited			
Sample Description	:	**Indoor Air Quality Monitoring**			
Location of Sampling	:	**Urea Baggiug**			
Date of Sampling	:	30.03.2026	Date of Completion	:	04-04-2026
Date of Receipt	:	31.03.2026	Report Date	:	22-05-2026
Date of Analysis	:	31-03-2026	Page No	:	Page:1 of 1
Sampling Method	:	**NIOSH Method**			

Sl. No.	Test Parameters	Unit	Results	Test Method	Limits
1	Ammonia as NH3	mg/m^3	1.75	ABCTL/SOP/A/05 Issue No:01, Date:02.01.2015	35

The above samples confirms the standards as prescribed by OSHA Standard for 8 Hours Exposure.
Note: Amendment to Test Report No.ABCTL/2603/0400/029,dated 31-03-2026 with changes in Unit Correction.

.....End of Report.....

S.Dharani
Senior Manager - Quality

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Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/010**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - Reformer Stack**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

ULR : TC577026000011539F

Sl. No.	Stack Details	Reformer Stack
1	Stack height from ground level in meters	36.6
2	Stack Diameter in meters	2.75
3	Cross Sectional Area, meter square	5.94
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Reformer Stack	Sulphur dioxide	BS EN 50379-1:2012	mg/Nm^3	7	Not Specified
2		Nitrogen dioxide	BS EN 50379-1:2012	mg/Nm^3	21	Not Specified
3		Carbon Monoxide	BS EN 50379-1:2012	mg/Nm^3	25	Not Specified
4		Carbon dioxide	BS EN 50379-1:2012	%	3.8	Not Specified
5		Oxygen	BS EN 50379-1:2012	%	16	Not Specified
6		Stack Gas Temperature	IS 11255 (Part:3) :2021	K	402	Not Specified
7		Gaseous Discharge (Nm3/hr)	IS 11255 (Part 3):2018	Nm^3/hr	124271	Not Specified
8		Velocity of the flue gas	IS 11255 (Part:3) :2021	m/s	7.9	Not Specified

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

Verified by

Authorised Signatory

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TEST REPORT

Southeru Petrochemical Iudustries Corporatiou Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/010**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - Reformer Stack**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

Sl. No.	Stack Details	Reformer Stack
1	Stack height from ground level in meters	36.6
2	Stack Diameter in meters	2.75
3	Cross Sectional Area, meter square	5.94
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Reformer Stack	Nitrogen oxide as NO	BS EN 50379-1:2012	mg/Nm^3	8	-

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/011**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - GT/HRSG Main**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

ULR : TC577026000011540F

Sl. No.	Stack Details	GT/HRSG Main
1	Stack height from ground level in meters	50
2	Stack Diameter in meters	2.10
3	Cross Sectional Area, meter square	3.46
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	GT/HRSG Main	Sulphur dioxide	BS EN 50379-1:2012	mg/Nm^3	3.1	Not Specified
2		Nitrogen dioxide	BS EN 50379-1:2012	mg/Nm^3	54	Not Specified
3		Carbon Monoxide	BS EN 50379-1:2012	mg/Nm^3	45	Not Specified
4		Carbon dioxide	BS EN 50379-1:2012	%	5.7	Not Specified
5		Oxygen	BS EN 50379-1:2012	%	13.2	Not Specified
6		Stack Gas Temperature	IS 11255 (Part:3) :2021	K	418	Not Specified
7		Gaseous Discharge (Nm3/hr)	IS 11255 (Part 3):2018	Nm^3/hr	67874	Not Specified
8		Velocity of the flue gas	IS 11255 (Part:3) :2021	m/s	7.9	Not Specified

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/011**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - GT/HRSG Main**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

Sl. No.	Stack Details	GT/HRSG Main
1	Stack height from ground level in meters	50
2	Stack Diameter in meters	2.10
3	Cross Sectional Area, meter square	3.46
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	GT/HRSG Main	Nitrogen oxide as NO	BS EN 50379-1:2012	mg/Nm^3	15	-

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southeru Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/012**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - Auxiliary Boiler III (120 TPH Capacity)**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

ULR : TC577026000011559F

Sl. No.	Stack Details	Auxiliary Boiler III (120 TPH Capacity)
1	Stack height from ground level in meters	50
2	Stack Diameter in meters	2.5
3	Cross Sectional Area, meter square	4.91
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Auxiliary Boiler III (120 TPH Capacity)	Sulphur dioxide	BS EN 50379-1:2012	mg/Nm^3	2.96	Not Specified
2		Nitrogen dioxide	BS EN 50379-1:2012	mg/Nm^3	116	Not Specified
3		Carbon Monoxide	BS EN 50379-1:2012	mg/Nm^3	26	Not Specified
4		Stack Gas Temperature	IS 11255 (Part:3) :2021	K	368	Not Specified
5		Gaseous Discharge (Nm3/hr)	IS 11255 (Part 3):2018	Nm^3/hr	104871	Not Specified
6		Velocity of the flue gas	IS 11255 (Part:3) :2021	m/s	7.6	Not Specified

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/012**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Mooitoring - Auxiliary Boiler III (120 TPH Capacity)**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

Sl. No.	Stack Details	Auxiliary Boiler III (120 TPH Capacity)
1	Stack height from ground level in meters	50
2	Stack Diameter in meters	2.5
3	Cross Sectional Area, meter square	4.91
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Auxiliary Boiler III (120 TPH Capacity)	Nitrogen oxide as NO	BS EN 50379-1:2012	mg/Nm^3	42	-

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/013**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - NG Pre Heater**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

ULR : TC577026000011541F

Sl. No.	Stack Details	NG Pre Heater
1	Stack height from ground level in meters	36.6
2	Stack Diameter in meters	1.18
3	Cross Sectional Area, meter square	1.093
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	NG Pre Heater	Sulphur dioxide	BS EN 50379-1:2012	mg/Nm^3	28	Not Specified
2		Nitrogen dioxide	BS EN 50379-1:2012	mg/Nm^3	31	Not Specified
3		Carbon Monoxide	BS EN 50379-1:2012	mg/Nm^3	20	Not Specified
4		Carbon dioxide	BS EN 50379-1:2012	%	4.0	Not Specified
5		Oxygen	BS EN 50379-1:2012	%	16	Not Specified
6		Stack Gas Temperature	IS 11255 (Part:3) :2021	K	379	Not Specified
7		Gaseous Discharge (Nm3/hr)	IS 11255 (Part 3):2018	Nm^3/hr	3594	Not Specified
8		Velocity of the flue gas	IS 11255 (Part:3) :2021	m/s	1.4	Not Specified

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TEST REPORT

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SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/013**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - NG Pre Heater**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

Sl. No.	Stack Details	NG Pre Heater
1	Stack height from ground level in meters	36.6
2	Stack Diameter in meters	1.18
3	Cross Sectional Area, meter square	1.093
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	NG Pre Heater	Nitrogen oxide as NO	BS EN 50379-1:2012	mg/Nm^3	13	-

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TEST REPORT

Southern Petrochemicai Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Report No	:	**ABCTL/2603/0400/014**
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Source Emission Monitoring - Urea Prilling Tower**
Date of Sampling	:	30-03-2026
Date of Receipt	:	31-03-2026
Date of Analysis	:	31-03-2026
Date of Completion	:	04-04-2026
Report Date	:	20-05-2026

ULR TC577026000011542F

Sl. No.	Stack Details	Urea Prilling Tower
1	Stack height from ground level in meters	52
2	Stack Diameter in meters	ID:14.9M, OD:22.7M
3	Cross Sectional Area, meter square	153.56
4	Ambient gas temperature in (K)	307
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 1 (RA: 2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Urea Prilling Tower	Particulate Matter	IS 11255 (Part-1)	mg/Nm^3	35.7	150
2		Ammonia as NH_3	IS 11255 (Part-6)	mg/Nm^3	42.0	-
3		Stack Gas Temperature	IS 11255 (Part:3) :2021	K	328	Not Speclfied
4		Gaseous Discharge (Nm3/hr)	IS 11255 (Part 3):2018	Nm^3/ hr	462073	Not Specified
5		Velocity of the flue gas	IS 11255 (Part:3) :2021	m/s	0.92	Not Specified

.....End of Report.....

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporatioo Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	Ground Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/015	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Arsenicwell North West	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011546F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Organoleptic and physical parameters						
1	Odour	IS 3025 Part 5 :2018	--	Agreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	2	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	1.9	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.62	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	1438	500 Max.	2000 Max.
General parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	302	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	580	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	142	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	54	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	478	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	186	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	26	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.12	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.78	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	0.39	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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Authorised Signatory

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/015**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011546F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
General parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.1)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.50)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.03)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.1)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.07	5 Max.	15 Max.
Toxic compound						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated hiphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poly Nuclear Aromatic Hydrocarbou as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

Verified by

Authorised Signatory

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ISSUED TO:

TEST REPORT

Southern Petrochemical Indnstries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Cnstomer Provided Details			
Sample Name	Ground Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lah Provided Details					
Report Number	ABCTL/2603/0400/016	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn hy	Lahoratory	Date of Sampling	30-03-2026
Location of Sampling	Arsenicwell North East	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011547F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Organoleptic and physical parameters						
1	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	3	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	1.4	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.67	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	1095	500 Max.	2000 Max.
General parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	241	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	420	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	118	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	30	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	390	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	132	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	31	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.08	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.52	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	0.22	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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Authorised Signatory

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/016**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011547F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissihle Limit
Discipline/Group:Chemical Testing/Water						
General parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.1)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.05)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.03)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.1)	0.2 Max.	1 Max.
24	Aluminnm as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.10	5 Max.	15 Max.
Toxic componnd						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poly Nuclear Aromatic Hydrocarhon as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadnrai
Senior Manager - Technical

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Authorised Signatory

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ISSUED TO:

TEST REPORT

Southern Petrochemical Iodustries Corporatiou Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details					
Sample Name	Ground Water		Customer Ref	As Per PO	
Seal if Any	-		Marks on Sample	-	
Lab Provided Details					
Report Number	ABCTL/2603/0400/017	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Arsenicwell South East	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011548F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Organoleptic and physical parameters						
1	Odour	IS 3025 Part 5 :2018	--	Agreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	4	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	1.5	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.72	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	1314	500 Max.	2000 Max.
Geoeral parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	281	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	456	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	137	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	23	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	412	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	164	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	26	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.14	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.47	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	0.36	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/017**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011548F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
General parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.05)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.05)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.03)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.1)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.15	5 Max.	15 Max.
Toxic compound						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
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37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poly Nuclear Aromatic Hydrocarhon as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Suuthern Petrocbemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	Ground Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/018	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Chromium Well North	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011549F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Orgauoleptic and pbysical parameters						
1	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	5	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	1.3	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.73	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	918	500 Max.	2000 Max.
Geueral parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	10	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	460	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	108	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	46	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	341	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	118	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	13	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.24	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.62	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	0.42	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TC - 5770

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/018**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011549F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Geueral parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.1)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.50)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.03)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.1)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.06	5 Max.	15 Max.
Toxic compound						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poiy Nuclear Aromatic Hydrocarbon as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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Authorised Signatory

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ISSUED TO:

TEST REPORT

Soutbern Petrochemical Industries Corporatiou Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	Ground Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Detaiis					
Report Number	ABCTL/2603/0400/019	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn hy	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Chromium Well South	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011551F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Organoleptic and physical parameters						
1	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	3	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	1.7	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.94	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	1203	500 Max.	2000 Max.
Geueral parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	271	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	490	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	130	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	40	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	320	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	274	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	17	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.14	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.56	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	0.37	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/019**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011551F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Geueral parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.1)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.05)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.03)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:5.0)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.07	5 Max.	15 Max.
Toxic compouud						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poiy Nuclear Aromatic Hydrocarbou as PAH						

S.Dharani
Senior Manager - Quality

A. Rohson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details					
Sample Name	Ground Water		Customer Ref	As Per PO	
Seal if Any	-		Marks on Sample	-	
Lab Provided Details					
Report Number	ABCTL/2603/0400/020	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	20-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Chromium Well East	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011552F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Orgauoleptic and pbysicai parameters						
1	Odour	IS 3025 Part 5 :2018	--	Agreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	BDL (DL:1.0)	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	2.3	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	7.27	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	852	500 Max.	2000 Max.
General parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	221	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	402	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	107	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	33	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	345	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	33.1	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	12	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.18	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.6	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	0.41	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/020**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011552F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
General parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.1)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.05)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.03)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.1)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.13	5 Max.	15 Max.
Toxic compound						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poly Nuciear Aromatic Hydrocarbon as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

Verified by

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ISSUED TO:

TEST REPORT

Soutbern Petrochemical Indnstries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	Ground Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/021	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Chromium Well West	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011553F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Organoleptic and pbysical parameters						
1	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	7	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	3.6	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	7.48	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	1897	500 Max.	2000 Max.
General parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	550	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	590	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	166	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	43	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	742	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	237	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	25	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.75	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.63	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3 B&C	mg/L	0.46	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/021**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011553F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
General parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.1)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.1)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.02)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.05)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	0.158	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.1)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
26	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
27	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.06	5 Max.	15 Max.
Toxic compound						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Ni	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/L	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poly Nuclear Aromatic Hydrocarbou as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	IETP Inlet Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/022	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	-	Sampling Method	IS 17614 (Part-10) 2021& ABCTL/SOP/MB/001		

ULR : TC577026000011554F

Sl. No.	Test Parameters	Test Method	Unit	Results
Discipline/Group:Chemical Testing/Pollution & Euvironment				
Organoleptic and physical parameters				
1	Temperature	APHA 24th Edition - 2550B:2023	°C	27.1
2	pH at 25°C	IS:3025 (Part-11) :2017	-	7.43
3	Total Dissolved Solids	IS:3025 (Part-16):2017	mg/L	810
General parameters				
4	Total Suspended Solids	IS:3025 (Part-17):2017	mg/L	9
5	Particulate size of suspended solids	ABCTL/SOP/W/50	--	Passes the test
6	Chloride as Cl-	IS:3025 (Part-32):2019	mg/L	493
7	Sulphate as SO_4^{2-}	APHA 24th Edition -4500-SO42-E:2023	mg/L	54
8	Bio Chemical Oxygen Demand @27° C, 3 Days	IS:3025 (Part-44):2019	mg/L	12
9	Chemical Oxygen Demand	IS:3025 (Part-58):2017	mg/L	68
10	Oil and Grease	IS:3025 (Part-39):2019	mg/L	BDL (DL:4.0)
11	Phosphate as P	IS:3025 (Part-31):2019	mg/L	5.28
12	Nitrate nitrogen as N	IS 3025 Part 34:2022	mg/L	19.4
13	Fluoride as F-	APHA 24th Edition- 4500 F-B&D:2023	mg/L	1.4
14	Sulphide as S^{2-}	APHA 24th Edition - 4500-S2--F:2023	mg/L	BDL (DL:0.05)

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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TEST REPORT

Report No	:	**ABCTL/2603/0400/022**
Sample Description	:	**1ETP Inlet Water**
Report Date	:	20-05-2026

ULR : TC577026000011554F

Sl. No.	Test Parameters	Test Method	Unit	Results
Discipline/Group:Chemical Testiug/Pollution & Euvironment				
General parameters				
15	Copper as Cu	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)
16	Boron as B	APHA 24th Edition- 4500 B-B :2023	mg/L	BDL (DL:0.01)
17	Phenolic Compound as Phenol	APHA 24th Edition -5530 C:2023	mg/L	BDL (DL:0.001)
18	Zinc as Zn	APHA 24th Edition -3111B:2023	mg/L	0.22
19	Selenium as Se	APHA 24th Edition - 3113B:2023	mg/L	BDL (DL:0.01)
20	Total Residual Chlorine as Cl_2	APHA 24th Edition - 4500-Cl-B:2023	mg/L	BDL (DL:1.0)
21	Free Ammonia	APHA 24th Edition- 4500 N-NH3 - B&C:2023	mg/L	0.14
22	Ammonical Nitrogen as N	APHA 24th Edn - 4500 N-NH3 - B&C :2023	mg/L	52
23	Percent Sodium	ABCTL/SOP/ W/33, Issue No:01, Dated 01-06-2015	%	69
24	Total Kjeldahl Nitrogen as N	APHA 24th Edition - 4500-Norg B:2023	mg/L	71
25	Residual Sodium Carbonate	IS 11624:2019	m.eq/L	BDL (DL:0.10)
Toxic compound				
26	Cadmium as Cd	APHA 24th Edition- 3111B:2023	mg/L	BDL (DL:0.01)
27	Nickel as Ni	APHA 24th Edition - 3111B :2023	mg/L	BDL (DL:0.01)
28	Total Chromium as Cr	APHA 24th Edition - 3111B:2023	mg/L	BDL (DL:0.01)
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)
30	Chromium Hexavalent as Cr^{6+}	APHA 24th Edition- 3500 - Cr B:2023	mg/L	BDL (DL:0.03)
31	Arsenic as As	APHA 24th Edition 3113B:2023	mg/L	BDL (DL:0.01)
32	Mercury as Hg	APHA 24th Edition 3112B:2023	mg/L	BDL (DL:0.001)
33	Cyanide as CN	APHA 24th Edition 4500 CN-C & E:2023	mg/L	BDL (DL:0.02)
Pesticides				

S.Dharani
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Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/022**
Sample Description	:	**IETP Inlet Water**
Report Date	:	20-05-2026

ULR : TC577026000011554F

Sl. No.	Test Parameters	Test Method	Unit	Results
Discipline/Group:Chemical Testing/Pollution & Environment				
Pesticides				
34	Total Pesticide residue	ABCTL/INS/SOP-022 Issue No.01/Date:15.10.2022	mg / L	BLQ (LOQ:0.00001)
Discipline/Group:Biological Testiug/Pollution & Environmeut				
Microbiology				
35	Faecal Coliforms	APHA 24th Edition 9221	MPN/100 ml	>1600

Note:BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, BDL - Below Detection Limit, DL - Detection Limit.

.....End of Report.....

S.Dharani
Senior Manager - Quality

S. Thamarai Selvi
Manager - Microbiology

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	IETP Outlet Water	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/023	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	-	Sampling Method	IS 17614 (Part-10) 2021& ABCTL/SOP/MB/001		

ULR TC577026000011555F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Pollution & Environment					
Organoleptic and physical parameters					
1	Temperature	APHA 24th Edition - 2550B:2023	°C	27.1	Shall not exceed 5 deg.C above the receiving water temperature
2	pH at 25°C	IS:3025 (Part-11) :2017	-	7.35	5.5 to 9.0
3	Total Dissolved Solids	IS:3025 (Part-16):2017	mg/L	710	2100
General parameters					
4	Total Suspended Solids	IS:3025 (Part-17):2017	mg/L	2	100
5	Particulate size of suspended solids	ABCTL/SOP/W/50	--	Passes the test	Shall Pass 850 micron I.S. Sieve
6	Chloride as Cl-	IS:3025 (Part-32):2019	mg/L	291	1000
7	Sulphate as SO_4^{2-}	APHA 24th Edition -4500-SO42- E:2023	mg/L	32	1000
8	Bio Chemical Oxygen Demand @27° C, 3 Days	IS:3025 (Part-44):2019	mg/L	6.5	30
9	Chemical Oxygen Demand	IS:3025 (Part-58):2017	mg/L	30	250
10	Oil and Grease	IS:3025 (Part-39):2019	mg/L	BDL (DL:4.0)	10
11	Phosphate as P	IS:3025 (Part-31):2019	mg/L	1.16	5
12	Nitrate nitrogen as N	IS 3025 Part 34:2022	mg/L	BDL (DL:1.0)	-
13	Fluoride as F-	APHA 24th Edition- 4500 F-B&D:2023	mg/L	0.6	2

S.Dharani
Senior Manager - Quality

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Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/023**
Sample Description	:	**IETP Outlet Water**
Report Date	:	20-05-2026

ULR TC577026000011555F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Pollution & Environment					
General parameters					
14	Sulphide as S^{2-}	APHA 24th Edition - 4500-S2- -F:2023	mg/L	BDL (DL:0.50)	2
15	Copper as Cu	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.03)	3
16	Boron as B	APHA 24th Edition- 4500 B-B :2023	mg/L	BDL (DL:0.10)	2
17	Phenolic Compound as Phenol	APHA 24th Edition -5530 C:2023	mg/L	BDL (DL:0.001)	1
18	Zinc as Zn	APHA 24th Edition -3111B:2023	mg/L	BDL (DL:0.01)	5
19	Selenium as Se	APHA 24th Edition - 3113B:2023	mg/L	BDL (DL:0.01)	0.05
20	Total Residual Chlorine as Cl_2	APHA 24th Edition - 4500-Cl-B:2023	mg/L	BDL (DL:1.0)	1
21	Free Ammonia	APHA 24th Edition- 4500 N-NH3 - B&C:2023	mg/L	0.18	5
22	Ammonical Nitrogen as N	APHA 24th Edn - 4500 N-NH3 - B&C :2023	mg/L	6	50
23	Percent Sodium	ABCTL/SOP/ W/33, Issue No:01, Dated 01-06-2015	%	54	-
24	Total Kjeldahl Nitrogen as N	APHA 24th Edition - 4500-Norg B:2023	mg/L	12	100
25	Residual Sodium Carbonate	IS 11624:2019	m.eq/L	BDL (DL:0.10)	-
Toxic compouud					
26	Cadmium as Cd	APHA 24th Edition-3111B:2023	mg/L	BDL (DL:0.01)	2
27	Nickel as Ni	APHA 24th Edition - 3111B :2023	mg/L	BDL (DL:0.01)	3
28	Total Chromium as Cr	APHA 24th Edition - 3111B:2023	mg/L	BDL (DL:0.01)	2

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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Authorised Signatory

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ABC Techno Labs India Private Limited

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TC - 5770

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/023**
Sample Description	:	**IETP Outlet Water**
Report Date	:	20-05-2026

ULR TC577026000011555F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Pollution & Enviroument					
Toxic compound					
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.10
30	Chromium Hexavalent as Cr^{6+}	APHA 24th Edition- 3500 - Cr B:2023	mg/L	BDL (DL:0.03)	0.10
31	Arsenic as As	APHA 24th Edition 3113B:2023	mg/L	BDL (DL:0.01)	0.20
32	Mercury as Hg	APHA 24th Edition 3112B:2023	mg/L	BDL (DL:0.001)	0.01
33	Cyanide as CN	APHA 24th Edition 4500 CN-C & E:2023	mg/L	BDL (DL:0.02)	0.2
Pesticides					
34	Total Pesticide residue	ABCTL/INS/SOP-022 Issue No.01/Date:15.10.2022	mg / L	BLQ (LOQ:0.00001)	-
Discipline/Group:Biological Testiug/Pollution & Environmeut					
Microbiology					
35	Faecal Coliforms	APHA 24th Edition 9221	MPN/100 ml	430	-

Note: BLQ-Below Limit of quantification, LOQ-Limit of Quantification, BDL-Below Detection Limit, DL-Detection Limit,

.....End of Report.....

S.Dharani
Senior Manager - Quality

S. Thamarai Selvi
Manager - Microbiology

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corpuration Liuited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	STP Inlet	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/024	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	04-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	-	Sampling Method	IS 17614 (Part-10) 2021& ABCTL/SOP/MB/001		

ULR : TC577026000011556F

Sl. No.	Test Parameters	Test Method	Unit	Results
Discipliue/Group:Chemical Testiug/Pollutiou & Euviroument				
Organoleptic and physical parameters				
1	pH at 25°C	IS:3025 (Part-11) :2017	-	7.02
General parameters				
2	Total Suspended Solids	IS:3025 (Part-17):2017	mg/L	93
3	Bio Chemical Oxygen Demand @27° C, 3 Days	IS:3025 (Part-44):2019	mg/L	59
Discipline/Group:Bioiogical Testiug/Pollution & Environmeut				
Microbiology				
4	Faecal Coliforms	APHA 24th Edition 9221	MPN/100 ml	>1600

.....End of Report.....

S.Dharani
Senior Manager - Quality

S. Thamarai Selvi

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Sonthern Petrochemical Industries Corporation Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details			
Sample Name	STP Outlet	Customer Ref	As Per PO
Seal if Any	-	Marks on Sample	-

Lab Provided Details					
Report Number	ABCTL/2603/0400/025	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	06-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn hy	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	-	Sampling Method	IS 17614 (Part-10) 2021& ABCTL/SOP/MB/001		

ULR TC577026000011557F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipliue/Gruup:Chemical Testing/Poiiutiou & Euvironment					
Orgauoleptic and physical parameters					
1	pH at 25°C	IS:3025 (Part-11) :2022	--	7.41	5.5-9.0
Geueral parameters					
2	Total Suspended Solids	IS:3025 (Part-17):2017	mg/L	17	30
3	Bio Chemical Oxygen Demand @27° C, 3 Days	IS:3025 (Part-44):2019	mg/L	10	20
Discipliue/Group:Biological Testiug/Poilution & Environment					
Microbiology					
4	Faecal Coliforms	APHA 24th Edition 9221	MPN/100 ml	350	<1000

Limits as per TNPCB STP Discharge Standards.

.....End of Report.....

S.Dharani
Senior Manager - Quality

Manager - Microbiology

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Southeru Petrochemical Iudustries Corporatiun Limited
SPIC Nagar,Muthaiahpuram Post
Tuticorin-628005
Tamil Nadu

Customer Provided Details					
Sample Name	Ground Water		Customer Ref	As Per PO	
Seal if Any	-		Marks on Sample	-	
Lab Provided Detaiis					
Report Number	ABCTL/2603/0400/026	Date of Receipt	31-03-2026	Analysis Commenced	31-03-2026
Analysis Completed	17-04-2026	Sample Condition	Good	Sample Qty.	2 Liters
Report Date	20-05-2026	Sample Drawn by	Laboratory	Date of Sampling	30-03-2026
Location of Sampling	Arsenicwell South West	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577026000011558F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
Organoleptic and physicai parameters						
1	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
2	Colour	IS :3025 - Part 4	Hazen	BDL (DL:1.0)	5 Max.	15 Max.
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	2	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	7.07	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	1672	500 Max.	2000 Max.
Geueral parameters						
6	Total Alkalinity as $CaCO_3$	IS:3025 (Part-23) :2023	mg/L	402	200 Max.	600 Max.
7	Total Hardness as $CaCO_3$	IS:3025(Part-23)	mg/L	470	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	135	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24thEdn 3500-Mg:2023	mg/L	31	30 Max.	100 Max.
10	Chloride as Cl-	IS:3025Part 32	mg/L	614	250 Max.	1000 Max.
11	Sulphate as SO_4^{2-}	APHA 24th 4500 SO_4^{2-}E:2023	mg/L	180	200 Max.	400 Max.
12	Nitrate as NO_3	APHA 24th Edn - 4500 NO_3^- B:2023	mg/L	28	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.14	1 Max.	No Relaxation
14	Manganese as Mn	APHA 24th Edn.3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	0.3 Max.
15	Fluoride as F-	APHA 24th Edition :4500 F-B&D:2023	mg/L	0.59	1.0 Max.	1.5 Max.
16	Ammonia as N-NH_3	APHA 24th Edition - 4500 N-NH_3- B&C	mg/L	BDL (DL:0.05)	0.5 Max.	No Relaxation
17	Barium as Ba	APHA 24th Edn - 3111D:2023	mg/L	BDL (DL:0.05)	0.7 Max.	No Relaxation

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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ISSUED TO:

TEST REPORT

Report No	:	**ABCTL/2603/0400/026**
Sample Description	:	**Ground Water**
Report Date	:	20-05-2026

ULR : TC577026000011558F

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
General parameters						
18	Boron as B	APHA 24th Edition - 4500-B-B:2023	mg/L	BDL (DL:0.10)	0.5 Max.	1.0 Max.
19	Chloramines as Cl_2	IS 3025 Part 26 :2021	mg/L	BDL (DL:0.10)	4.0 Max.	No Relaxation
20	Silver as Ag	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.1 Max.	No Relaxation
21	Sulphide as S^{2-}	IS :3025 - Part 29	mg/L	BDL (DL:0.50)	0.05 Max.	No Relaxation
22	Copper as Cu	APHA 24th Edn- 3111B:2023	mg/L	BDL (DL:0.01)	0.05 Max.	1.5 Max.
23	FreeResidual Chlorine as Cl_2, Chloramines	IS :3025 - Part 26	mg/L	BDL (DL:0.10)	0.2 Max.	1 Max.
24	Aluminum as Al	APHA 24th Edition 3111D:2023	mg/L	BDL (DL:0.02)	0.03 Max.	0.2 Max.
25	Phenolic Compound as Phenol	APHA 24th Edn 5530 C:2023	mg/L	BDL (DL:0.001)	0.001 Max.	0.002 Max.
26	Zinc as Zn	APHA 24th Edn - 3500 - Zn B:2023	mg/L	0.16	5 Max.	15 Max.
27	Selenium as Se	APHA 24th Edn - 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
Toxic compound						
28	Cadmium as Cd	APHA 24th Edn -3111B:2023	mg/L	BDL (DL:0.01)	0.003	No Relaxation
29	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	No Relaxation
30	Nickel as Nj	APHA 24thEdn 3111B:2023	mg/L	BDL (DL:0.01)	0.02 Max.	No Relaxation
31	Total Chromium as Cr	APHA 24th - Edn - 3111B :2023	mg/lr	BDL (DL:0.01)	0.05 Max.	No Relaxation
32	Arsenic as As	APHA 24thEdition 3113 B:2023	mg/L	BDL (DL:0.01)	0.01 Max.	0.05 Max.
33	Mercury as Hg	IS 3025 Part 48: 2019	mg/L	BDL (DL:0.001)	0.001 Max.	No Relaxation
34	Cyanide as CN	APHA 24th Edition - 4500 CN C & E :2023	mg/L	BDL (DL:0.02)	0.05 Max.	No Relaxation
35	Molybdenum as Mo	APHA 24thEdn - 3111D:2023	mg/L	BDL (DL:0.05)	0.07 Max.	No Relaxation
36	Uranium	IS 3025 Part 65	mg/L	BDL (DL:0.005)	-	-
37	Polychlorinated biphenyl (PCB)	APHA 24th Edn. 2023-Part 6630 B	mg/L	BLQ (LOQ:0.00001)	0.0005 Max.	No Relaxation
Poly Nnclear Aromatic Hydrocarhou as PAH						

S.Dharani
Senior Manager - Quality

A. Robson Chinnadurai
Senior Manager - Technical

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