

ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/001		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: Urea Bagging		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6Km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

ULR TC577025000024906F

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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/m ³	51	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix L Part 50	µg/m ³	24.8	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	7.84	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	16.3	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	10.9	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	30	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 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
S.Dharani
Quality Manager



A. Robson Chinnadurai
A. Robson Chinnadurai
Technical Manager

Verified by

Authorised Signatory

Terms and Conditions:

* This 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 item 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 work performed and will in no case be more than the intended use of the report for the purpose of identifying the compliance and not intended to use for any publicity / litigation purpose.

ABCTL/FRM/QA/125 Issue No.1 Dt.25.04.2023

ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu



Report No.	ABCTL/2510/0267/002				
Sample Drawn by	ABC Techno Labs India Private Limited				
Sample Description	Ambient Air Quality Monitoring				
Location of Sampling	Officers Club				
Date of Sampling	14-10-2025 to 15-10-2025		Date of Completion	:	01-11-2025
Date of Receipt	18-10-2025		Report Date	:	19-11-2025
Date of Analysis	18-10-2025		Average Atmospheric Pressure	:	1006hpa
Temperature (°C)	Min: 26	Max: 31	Average Wind Speed/direction	:	8.6Km/hr-NE
Relative Humidity (%)	Min: 72	Max: 92	Rain Fall	:	Nil
Sampling Method	IS 5182 Part 5 & 14				

ULR TC577025000024907F

Page: 1 of 1

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/m ³	42	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix L Part 50	µg/m ³	15.8	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	7.36	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	15	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06-2023)	µg/m ³	10.4	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	29	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 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
Quality Manager



A. Robson Chinnadurai
Technical Manager

Verified by

Authorised Signatory

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ABCTL/PRN/02A/125 Issue No.1 DL 25.04.2023

ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu



Report No	± ABCTL/2510/0267/003				
Sample Drawn by	± ABC Techno Labs India Private Limited				
Sample Description	± Ambient Air Quality Monitoring				
Location of Sampling	± JVP Shed				
Date of Sampling	± 14-10-2025 to 15-10-2025		Date of Completion	±	01-11-2025
Date of Receipt	± 18-10-2025		Report Date	±	19-11-2025
Date of Analysis	± 18-10-2025		Average Atmospheric Pressure	±	1006hpa
Temperature (°C)	± Min: 26	Max: 31	Average Wind Speed/direction	±	8.6Km/hr-NE
Relative Humidity (%)	± Min: 72	Max: 92	Rain Fall	±	Nil
Sampling Method	± IS 5182 Part 5 & 14				

ULR TC577025000024908F

Page: 1 of 1

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/m ³	55	100
2	Particulate matter (Particle Size less than 2.5 µm, [PM 2.5])	40 CFR Appendix L Part 50	µg/m ³	26.3	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	7.09	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	18.4	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	11.0	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m ³	BDL(DL:1.0)	2
8	Amonia (NH ₃)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06.2023)	µg/m ³	23	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 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
Quality Manager



A. Robson Chinnadurai
Technical Manager

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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/2510/0267/004		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: Auto SS		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6Km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

ULR TC577025000024909F

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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/m ³	59	100
2	Particulate matter (Particle Size less than 2.5 µm, PM 2.5)	40 CFR Appendix L Part 50	µg/m ³	27.5	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	7.81	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	16.9	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	9.0	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	34	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 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
Quality Manager



A. Robson Chinnadurai
Technical Manager

Verified by

Authorised Signatory

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ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/005		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: Agri Clinic		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6Km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

ULR TC577025000024910F

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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/m ³	40	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix L Part 50	µg/m ³	17.6	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	8.09	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	17.7	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	10.2	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	20	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 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
Quality Manager



A. Robson Chinnadurai
Technical Manager

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Authorised Signatory

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ABCTL/ERM/QA/125 Issue No. 1 Dt: 25.04.2023

ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/006		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: Inst Change Room		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6Km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

ULR TC577025000024911F

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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	43	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix I, Part 50	µg/m³	19.4	60
3	Sulphur Dioxide (SO₂)	IS 5182 Part 2	µg/m³	7.44	80
4	Nitrogen oxide (NO₂)	IS 5182 (Part-6):2018	µg/m³	18.28	80
5	Ozone (O₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06-2023)	µg/m³	11.6	100
6	Lead (Pb)	IS 5182 Part 22	µg/m³	BDL(DL:0.1)	1
7	Carbon Monoxide (CO)	IS 5182 Part 10	mg/m³	BDL(DL:1.0)	2
8	Ammonia (NH₃)	ABCTL/SOP/A/05 (Issue No:01, Dated 02-06-2023)	µg/m³	35	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
Quality Manager



A. Robson Chinnadurai
Technical Manager

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Authorised Signatory

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ABCTL/PMQA/125 Issue No:1 Dt:25.04.2023

ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu



Report No	: ABCTL/2510/0267/007		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: Safety Department		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6Km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

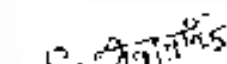
ULR TC577025000024912F

Page: 1 of 1

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/m ³	52	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix L Part 50	µg/m ³	21.9	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	7.12	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part- 6):2018	µg/m ³	15	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	9.5	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	36	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 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
Quality Manager




A. Robson Chinnadurai
Technical Manager

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ABCTL/FRM/QA/125 Issue No.1 Dt.25.04.2023

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TEST REPORT

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



Report No	: ABCTL/2510/0267/008		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: Tank Farm		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

ULR TC577025000024913F

Page: 1 of 1

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/m ³	46.4	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix L Part 50	µg/m ³	18.5	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	8.21	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	14.4	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	9.5	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	44	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 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
Quality Manager




A. Robson Chinnadurai
Technical Manager

Verified by

Authorised Signatory

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ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/009		
Sample Drawn by	: ABC Techno Labs India Private Limited		
Sample Description	: Ambient Air Quality Monitoring		
Location of Sampling	: IETP Area		
Date of Sampling	: 14-10-2025 to 15-10-2025	Date of Completion	: 01-11-2025
Date of Receipt	: 18-10-2025	Report Date	: 19-11-2025
Date of Analysis	: 18-10-2025	Average Atmospheric Pressure	: 1006hpa
Temperature (°C)	: Min: 26 Max: 31	Average Wind Speed/direction	: 8.6Km/hr-NE
Relative Humidity (%)	: Min: 72 Max: 92	Rain Fall	: Nil
Sampling Method	: IS 5182 Part 5 & 14		

ULR TC577025000024914F

Page: 1 of 1

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/m ³	57	100
2	Particulate matter (Particle Size less than 2.5 µm, (PM 2.5))	40 CFR Appendix L Part 50	µg/m ³	25.1	60
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2	µg/m ³	7.66	80
4	Nitrogen oxide (NO ₂)	IS 5182 (Part-6):2018	µg/m ³	15.5	80
5	Ozone (O ₃)	ABCTL/SOP/A/07 (Issue No:03, Dated 02-06.2023)	µg/m ³	11.8	100
6	Lead (Pb)	IS 5182 Part 22	µg/m ³	BDL(DL:0.1)	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	30	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 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
Quality Manager




A. Robson Chinnadurai
Technical Manager

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ABCTL/FRM/QA/125 Issue No.1 Dt.25.04.2023

ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu



Report No	: ABCTL/2510/0267/010
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - Reformer Stack
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

ULR : TC577025000024915F

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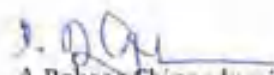
Sl. No.	Stack Details	Reformer Stack
1	Stack height from ground level in meters	36.6
2	Stack Diameter in meters	2.75
3	Cross Sectional Area, meter square	5.94
4	Ambient gas temperature in (K)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (RA:2018)

SL No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Reformer Stack	Nitrogen dioxide	BSEN 50379-1:2012	mg/Nm ³	26	400
2		Sulphur dioxide	BSEN 50379-1:2012	mg/Nm ³	12	Not Specified
3		Carbon Monoxide	BSEN 50379-1:2012	mg/Nm ³	27	Not Specified
4		Carbon dioxide	BSEN 50379-1:2012	%	9.4	Not Specified
5		Oxygen	BSEN 50379-1:2012	%	10.1	Not Specified
6		Stack Gas Temperature	IS 11255 (Part:3):2021	K	417	Not Specified
7		Gaseous Discharge (Nm ³ /hr)	IS 11255 (Part:3):2018	Nm ³ /hr	110520	Not Specified
8		Velocity of the flue gas	IS 11255 (Part:3):2021	m/s	7.24	Not Specified

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


S. Dharani
Quality Manager




A. Robson Chinnadurai
Technical Manager

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ABCTUFRM/QA/125 Issue No.1 Dt.25.04.2023

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu

Report No	: ABCTL/2510/0267/010
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - Reformer Stack
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

Page: 1 of 1

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)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (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	17	-

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



S. Dharani

S. Dharani
Quality Manager

A. Robson Chinnadurai

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ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/011
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - GT/HRSG Main
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

ULR : TC577025000024917F

Page: 1 of 1

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)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (RA:2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	GT/HRSG Main	Nitrogen dioxide	BSEN 50379-1:2012	mg/Nm ³	54.11	300
2		Sulphur dioxide	BSEN 50379-1:2012	mg/Nm ³	2.94	600
3		Carbon Monoxide	BSEN 50379-1:2012	mg/Nm ³	41	Not Specified
4		Carbon dioxide	BSEN 50379-1:2012	%	5.8	Not Specified
5		Oxygen	BSEN 50379-1:2012	%	13.9	Not Specified
6		Stack Gas Temperature	IS 11255 (Part:3):2021	K	420	Not Specified
7		Gaseous Discharge (Nm ³ /hr)	IS 11255 (Part:3):2018	Nm ³ /hr	76739	Not Specified
8		Velocity of the flue gas	IS 11255 (Part:3):2021	m/s	8.67	Not Specified

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



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Quality Manager



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TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu

Report No	: ABCTL/2510/0267/011
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - GT/HRSG Main
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

Page: 1 of 1

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)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (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	23	-

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



S. Dharani
S.Dharani
Quality Manager



A. Robson Chinnadurai
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Technical Manager

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu



Report No	: ABCTL/2510/0267/012
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - Auxiliary Boiler (120TPH)
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

ULR : TC577025000024918F

Page: 1 of 1

Sl. No.	Stack Details	Auxiliary Boiler (120TPH)
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)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (RA:2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Auxiliary Boiler (120TPH)	Sulphur dioxide	BS EN 50379-1:2012	mg/Nm ³	2.61	600
2		Nitrogen dioxide	BS EN 50379-1:2012	mg/Nm ³	118.77	300
3		Carbon Monoxide	BS EN 50379-1:2012	mg/Nm ³	26	Not Specified
4		Stack Gas Temperature	IS 11255 (Part 3):2021	K	381	Not Specified
5		Gaseous Discharge (Nm ³ /hr)	IS 11255 (Part 3):2018	Nm ³ /hr	105203	Not Specified
6		Velocity of the flue gas	IS 11255 (Part 3):2021	m/s	7.6	Not Specified

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


S. Dharani
Quality Manager




A. Robson Chinnadurai
Technical Manager

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TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthaiahpuram Post

Tuticorin-628005

Tamil Nadu

Report No	: ABCTL/2510/0267/012
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - Auxiliary Boiler (120TPH)
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

Page: 1 of 1

Sl. No.	Stack Details	Auxiliary Boiler (120TPH)
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)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (RA:2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	Auxiliary Boiler (120TPH)	Nitrogen oxide as NO	BS EN 50379-1:2012	mg/Nm ³	48	-

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



S. Dharani
S.Dharani
Quality Manager



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Technical Manager

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ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/013
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - NG Pre Heater
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

ULR : TC577025000024916F

Page: 1 of 1

Sl. No.	Stack Details	NG Pre Heater
1	Stack height from ground level in meters	30.6
2	Stack Diameter in meters	1.18
3	Cross Sectional Area, meter square	1.0930
4	Ambient gas temperature in (K)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (RA:2018)

Sl. No.	Stack Attached to	Test Parameters	Sampling & Test Method	Unit	Results	MoEF Standards
1	NG Pre Heater	Nitrogen dioxide	BS EN 50379-1:2012	mg/Nm ³	84	Not Specified
2		Sulphur dioxide	BS EN 50379-1:2012	mg/Nm ³	30	Not Specified
3		Carbon Monoxide	BS EN 50379-1:2012	mg/Nm ³	22	Not Specified
4		Carbon dioxide	BS EN 50379-1:2012	%	4.4	Not Specified
5		Oxygen	BS EN 50379-1:2012	%	15	Not Specified
6		Stack Gas Temperature	IS 11255 (Part:3):2021	K	442	Not Specified
7		Gaseous Discharge (Nm ³ /hr)	IS 11255 (Part 3):2018	Nm ³ /hr	2636	Not Specified
8		Velocity of the flue gas	IS 11255 (Part:3):2021	m/s	1.0	Not Specified

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


S. Dharani
Quality Manager




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Technical Manager

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ABCTL/FRM/QA/125 Issue No.1 Dt.25.04.2023

TEST REPORT

Southern Petrochemical Industries Corporation Limited

SPIC Nagar, Muthalahpuram Post

Tuticorin-628005

Tamil Nadu

Report No	: ABCTL/2510/0267/013
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - NG Pre Heater
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

Page: 1 of 1

Sl. No.	Stack Details	NG Pre Heater
1	Stack height from ground level in meters	30.6
2	Stack Diameter in meters	1.18
3	Cross Sectional Area, meter square	1.0930
4	Ambient gas temperature in (K)	306
5	Fuel used	Natural Gas
6	Sampling Method	IS 11255 Part 3 (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	53	-

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



S. Dharani

S. Dharani
Quality Manager

A. Robson Chinnadurai

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ISSUED TO:

TEST REPORT

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



Report No	: ABCTL/2510/0267/014
Sample Drawn by	: ABC Techno Labs India Private Limited
Sample Description	: Source Emission Monitoring - Urea Prilling Tower
Date of Sampling	: 15-10-2025
Date of Receipt	: 18-10-2025
Date of Analysis	: 18-10-2025
Date of Completion	: 24-10-2025
Report Date	: 19-11-2025

ULR TC577025000024919F

Page:1 of 1

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)	306
5	Sampling Method	IS 11255 Part 3 (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	38	150
2		Ammonia as NH ₃	IS 11255 (Part-6)	mg/Nm ³	43	-
3		Stack Gas Temperature	IS 11255 (Part-3):2021	K	325	Not Specified
4		Gaseous Discharge (Nm ³ /hr)	IS 11255 (Part-3):2018	Nm ³ /hr	503062	Not Specified
5		Velocity of the flue gas	IS 11255 (Part-3):2021	m/s	1.0	Not Specified

The above samples confirm the standards as prescribed by OSHA for 8 hours exposure.

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



S. Dharani
S.Dharani
Quality Manager

A. Robson Chinnadurai
A. Robson Chinnadurai
Technical Manager

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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/2510/0267/018	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Arsenic Well North West	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC57702500024920F

Page: 1 of 5

Page:1 of 5

Sl. No.	TestParameters	TestMethod	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS:3025 - Part 4	Hazen	12	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	--	Agreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.90	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11):2022	--	7.61	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	827	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23):2023	mg/L	20.95	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025(Part-23)	mg/L	495	200 Max.	600 Max.
8	Calcium as Ca	IS:3025 - Part 40	mg/L	62	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	23	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 24 th 4500 SO ₄ ²⁻ E:2023	mg/L	107	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th 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	0.10	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.65	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ Chloramines	IS:3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn- 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn -3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



A. Robson Chinnadurai
Technical Manager

Verified by

Authorised Signatory

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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/2510/0267/019	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Customer	Date of Sampling	NA
Location of Sampling	Arsenic Well North East	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577025000024921F

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Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS :3025 - Part 4	Hazen	13	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.80	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	8.1	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	859	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23) :2023	mg/L	22.8	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025(Part-23)	mg/L	513	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	67	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	26.7	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	339	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ E:2023	mg/L	121	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th Edn - 4500 NO ₃ -B:2023	mg/L	39	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.12	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.75	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ , Chloramines	IS :3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn- 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn -3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
S. Dharani
Quality Manager



A. Robson Chinnadurai
A. Robson Chinnadurai
Technical Manager

Verified by

Authorised Signatory

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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/2510/0267/020	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Arsenic Well South East	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577025000024931F

Page: 1 of 5

Sl. No.	TestParameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS:3025 - Part 4	Hazen	11	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.6	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.8	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	743	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23) :2023	mg/L	27.2	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025(Part-23)	mg/L	530	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	52	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	25.3	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	282	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ E:2023	mg/L	170	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th 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	0.18	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.5	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ , Chloramines	IS:3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn - 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn - 3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



A. Robson Chinnadurai
Technical Manager

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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/2510/0267/021	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Arsenic Well South West	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577025000024932F

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Sl. No.	TestParameters	TestMethod	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS :3025 - Part 4	Hazen	13	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	—	Agreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.65	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	--	6.97	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	825	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23) :2023	mg/L	28.9	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025 (Part-23)	mg/L	503	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	54	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	25	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	369.5	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ E:2023	mg/L	118	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th Edn - 4500 NO ₃ B:2023	mg/L	19	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.20	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.45	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ , Chloramines	IS :3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn- 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn -3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



A. Robson Chinnadurai
Technical Manager

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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/2510/0267/022	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Chromium Well North	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577025000024922F

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Sl. No.	TestParameters	TestMethod	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS :3025 - Part 4	Hazen	5	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	--	Agreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.4	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11):2022	--	6.8	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	742	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23):2023	mg/L	21	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025 (Part-23)	mg/L	233	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	45	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	23.5	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	271	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ :2023	mg/L	117.4	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th Edn - 4500 NO ₃ -B:2023	mg/L	27	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.13	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.2	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ , Chloramines	IS :3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn.3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn- 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn -3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



A. Robson Chinnadurai
Technical Manager

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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/2510/0267/023	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Chromium Well South	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577025000024923F

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Page: 1 of 6

Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group: Chemical Testing/Water						
1	Colour	IS :3025 - Part 4	Hazen	10	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	--	Disagreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.7	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11):2022	--	6.97	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	847	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23):2023	mg/L	35	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025(Part-23)	mg/L	564	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	15	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	24.4	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	246	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ :2023	mg/L	142	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th Edn - 4500 NO ₃ B:2023	mg/L	39	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53:2019	mg/L	0.27	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.35	1.0 Max.	1.5 Max.
15	Free Residual Chlorine as Cl ₂ , Chloramines	IS :3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn.3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn - 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn-3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



A. Robson Chinnadurai
Technical Manager

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ISSUED TO:

TEST REPORT

Southern Petrochemical Industries Corporation Limited
SPIC Nagar, Muthalahpuram 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/2510/0267/024	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Chromium Well East	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

ULR : TC577025000024924F

Page:1 of 5

Requirement as per IS 10500 : 2012						
Sl. No.	Test Parameters	Test Method	Unit	Results	Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS :3025 - Part 4	Hazen	10	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	—	Disagreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	0.60	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11) :2022	—	6.71	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025(Part-16)	mg/L	727	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23) :2023	mg/L	29	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025(Part-23)	mg/L	419	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	27	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	23.5	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	137.9	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ E:2023	mg/L	179	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th 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	0.06	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.26	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ , Chloramines	IS :3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn.3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn- 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn-3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



A. Robson Chinnadurai
Technical Manager

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ABCTL/PMQA/125 Issue No.1 Dt.25.04.2023

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/2510/0267/025	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	Chromium Well West	Sampling Method	IS 17614 (Part-5) 2021 & ABCTL/SOP/MB/001		

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Sl. No.	Test Parameters	Test Method	Unit	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit
Discipline/Group:Chemical Testing/Water						
1	Colour	IS :3025 - Part 4	Hazen	13	5 Max.	15 Max.
2	Odour	IS 3025 Part 5 :2018	—	Disagreeable	Agreeable	Agreeable
3	Turbidity in NTU	IS:3025 (Part-10):2023	NTU	BDL(DL:0.50)	1 Max.	5 Max.
4	pH at 25°C	IS:3025 (Part-11):2022	—	6.04	5.5-9.0	No Relaxation
5	Total Dissolved Solids	IS:3025 (Part-16)	mg/L	838	500 Max.	2000 Max.
6	Total Alkalinity as CaCO ₃	IS:3025 (Part-23):2023	mg/L	30	200 Max.	600 Max.
7	Total Hardness as CaCO ₃	IS:3025 (Part-23)	mg/L	455	200 Max.	600 Max.
8	Calcium as Ca	IS :3025 - Part 40	mg/L	36.7	75 Max.	200 Max.
9	Magnesium as Mg	APHA 24 th Edn 3500-Mg:2023	mg/L	26.4	30 Max.	100 Max.
10	Chloride as Cl ⁻	IS:3025Part 32	mg/L	284	250 Max.	1000 Max.
11	Sulphate as SO ₄ ²⁻	APHA 24 th 4500 SO ₄ ²⁻ E:2023	mg/L	183	200 Max.	400 Max.
12	Nitrate as NO ₃	APHA 24 th Edn - 4500 NO ₃ B:2023	mg/L	38	45 Max.	No Relaxation
13	Total Iron as Fe	IS 3025 Part 53 :2019	mg/L	0.25	0.3 Max.	No Relaxation
14	Fluoride as F ⁻	APHA 24 th Edition :4500 F-B&D:2023	mg/L	0.80	1.0 Max.	1.5 Max.
15	FreeResidual Chlorine as Cl ₂ , Chloramines	IS :3025 - Part 26	mg/L	BDL(DL:0.1)	0.2 Max.	1 Max.
16	Manganese as Mn	APHA 24 th Edn.3111B:2023	mg/L	BDL(DL:0.01)	0.1 Max.	0.3 Max.
17	Copper as Cu	APHA 24 th Edn- 3111B:2023	mg/L	BDL(DL:0.01)	0.05 Max.	1.5 Max.
18	Nickel as Ni	APHA 24 th Edn 3111B:2023	mg/L	BDL(DL:0.01)	0.02 Max.	No Relaxation
19	Aluminum as Al	APHA 24 th Edition 3111D:2023	mg/L	BDL(DL:0.02)	0.03 Max.	0.2 Max.
20	Cadmium as Cd	APHA 24 th Edn -3111B:2023	mg/L	BDL(DL:0.01)	0.003	No Relaxation

S. Dharani
Quality Manager



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ABCTL/FRM/QA/125 Issue No.1 Dt.25.04.2023

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TEST REPORT

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



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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/2510/0267/027	Date of Receipt	18-10-2025	Analysis Commenced	18-10-2025
Analysis Completed	28-10-2025	Sample Condition	Good	Sample Qty.	2 Litres
Report Date	19-11-2025	Sample Drawn by	Laboratory	Date of Sampling	15-10-2025
Location of Sampling	-	Sampling Method	IS 17614 (Part-10) 2021		

ULR TC577025000024927F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group: Chemical Testing/Pollution & Environment					
1	Temperature	APHA 24th Edition - 2550B:2023	°C	26.9	Shall not exceed 5 deg.C above the receiving water temperature
2	pH at 25°C	IS:3025 (Part-11):2017	-	6.63	5.5 to 9.0
3	Total Dissolved Solids	IS:3025 (Part-16):2017	mg/L	1047	2100
4	Total Suspended Solids	IS:3025 (Part-17):2017	mg/L	8.4	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	281	1000
7	Sulphate as SO ₄ ²⁻	APHA 24th Edition - 4500-SO42-E:2023	mg/L	161.6	1000
8	Bio Chemical Oxygen Demand @27° C, 3 Days	IS:3025 (Part-44):2019	mg/L	2.4	30
9	Chemical Oxygen Demand	IS:3025 (Part-58):2017	mg/L	33	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	BDL(DL:0.02)	5
12	Fluoride as F-	APHA 24th Edition- 4500 F-B&D:2023	mg/L	0.50	2
13	Sulphide as S ²⁻	APHA 24th Edition - 4500-S2- -F:2023	mg/L	BDL(DL:0.50)	2

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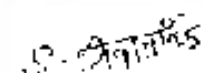
TEST REPORT

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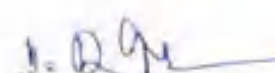
Report No	: ABCTL/2510/0267/027
Sample Description	: IETP Outlet Water
Report Date	: 19-11-2025

ULR TC577025000024927F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Pollution & Environment					
14	Copper as Cu	APHA 24th Edition 3111B:2023	mg/L	BDL(DL:0.01)	3
15	Boron as B	APHA 24th Edition- 4500 B-B :2023	mg/L	BDL(DL:0.1)	2
16	Phenolic Compound as Phenol	APHA 24th Edition-5530 C:2023	mg/L	BDL(DL:0.001)	1
17	Cadmium as Cd	APHA 24th Edition- 3111B:2023	mg/L	BDL(DL:0.01)	2
18	Zinc as Zn	APHA 24th Edition -3111B:2023	mg/L	BDL(DL:0.01)	5
19	Nickel as Ni	APHA 24th Edition - 3111B :2023	mg/L	BDL(DL:0.01)	3
20	Cyanide as CN	APHA 24th Edition 4500 CN-C & E:2023	mg/L	BDL(DL:0.02)	0.2
21	Total Chromium as Cr	APHA 24th Edition - 3111B:2023	mg/L	BDL(DL:0.01)	2
22	Chromium Hexavalent as Cr ⁶⁺	APHA 24th Edition- 3500 - Cr B:2023	mg/L	BDL(DL:0.03)	0.10
23	Lead as Pb	APHA 24th Edition 3111B:2023	mg/L	BDL(DL:0.01)	0.10
24	Selenium as Se	APHA 24th Edition - 3113B:2023	mg/L	BDL(DL:0.01)	0.05
25	Arsenic as As	APHA 24th Edition 3113B:2023	mg/L	BDL(DL:0.01)	0.20
26	Mercury as Hg	APHA 24th Edition 3112B:2023	mg/L	BDL(DL:0.001)	0.01
27	Total Residual Chlorine as Cl ₂	APHA 24th Edition - 4500-Cl-B:2023	mg/L	BDL(DL:1.0)	1
28	Free Ammonia	APHA 24th Edition- 4500 N-NH3 - B&C:2023	mg/L	BDL(DL:0.05)	5
29	Ammonical Nitrogen as N	APHA 24th Edn - 4500 N-NH3 - B&C :2023	mg/L	5.6	50


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ABCTL/FRM/QA/125

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TEST REPORT

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Report No	ABCTL/2510/0267/027
Sample Description	IETP Outlet Water
Report Date	19-11-2025

ULR TC577025000024927F

Sl. No.	Test Parameters	Test Method	Unit	Results	Limits
Discipline/Group:Chemical Testing/Pollution & Environment					
30	Total Kjeldahl Nitrogen as N	APHA 24th Edition - 4500-Norg B:2023	mg/L	16.2	100
31	Percent Sodium	ABCTL/SOP/W/33, Issue No:01, Dated 01-06-2015	%	46.8	-
32	Residual Sodium Carbonate	IS 11624:2019	meq/L	BDL(DL:0.10)	-
33	Total Pesticide residue	ABCTL/INS/SOP-022 Issue No.01/Date:15.10.2022	mg / L	BLQ (LOQ:0.00001)	-
34	Nitrate nitrogen as N	IS 3025 Part 34:2022	mg/L	BDL(DL:1.0)	-

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

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



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Issue No. 1 DL25.04.2023