ABC Techno Labs India Private Limited

ABC TOWER #400, 13th Street, SIDCO Industrial Estate - North Phase,
Ambattur, Chennai - 600 098, Tamilnadu, INDIA.
Ph : +91-44-2625 7788 / 99, +91 94442 60000 / 95661 87777
Email: lab@abctechnolab.com / Web: www.abctechnolab.com

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Accredited by NABL, ISO/IEC 17025:2017, NABET / QCI, Approved by FSSAI Recognised by MoEF&CC, BIS, APEDA

ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3001				
Sample drawn by	:	ABC Techno Labs India Private Limited				
Sample description	:	**Ambient Air Quality Monitoring**				
Location of sampling	:	**AAQ1- Near Hazardous Scrap yard**				
Date of sampling	:	15-02-2022 TO 17-02-2022		Date of completion	:	24-02-2022
Date of Receipt	:	17-02-2022		Report date	:	25-02-2022
Date of analysis	:	18-02-2022		Page No	:	1 of 1
Temperature (°C)	:	Min- 20	Max - 32	Avg. Wind Speed/Direction	:	3.1 km/hr/ENE
Relative Humidity (%)	:	Min – 58	Max - 90	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**				

S. No.	Parameters	Results	Test Method	Standards*
1	Particulate Matter size less than 10- µm (PM_{10}), µg/m³	51.1	IS 5182 Pt.23 : 2006 (Reaff. 2017)	100
2	Particulate Matter size less than 2.5- µm ($PM_{2.5}$), µg/m³	24.9	EPA- 40 Appendix L To Part 50	60
3	Sulphur Dioxide (SO_2), µg/m³	6.87	IS 5182: Part 2:2001 (Reaff. 2017)	80
4	Nitrogen Dioxide (NO_2), µg/m³	16.2	IS 5182: Part 6:2006 (Reaff. 2017)	80
5	Ozone (O_3), µg/m³	13	ABCTL/SOP/A07	100
6	Lead (Pb), µg/m³	BDL (<0.1)	IS 5182: Part 22: 2004 (Reaff:2014)	1
7	Carbon Monoxide (CO), mg/m³	BDL(<0.1)	IS 5182 (Part 10): 1999 (RA 2014)	2
8	Ammonia (NH_3), µg/m³	BDL(<5)	ABCTL/SOP/A05	400
9	Benzene (C_6H_6), µg/m³	BDL (<0.01)	IS 5182 Part 11 : 2006(RA 2017)	5
10	Benzo (a) Pyrene - Particulate Phase only, ng/m³	BDL (<0.1)	IS 5182 (Part12): 2004 (RA 2014)	1
11	Arsenic (As), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	6
12	Nickel (Ni), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	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

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

S.Dharani
Quality Manager

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab

Verified by **Authorised Signatory**

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 one day after date of issue of report. The laboratory's responsibility under this report is limited to proven willful 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

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3002				
Sample drawn by	:	ABC Techno Labs India Private Limited				
Sample description	:	**Ambient Air Quality Monitoring**				
Location of sampling	:	**AAQ2- Near ETP**				
Date of sampling	:	15-02-2022 TO 17-02-2022		Date of completion	:	24-02-2022
Date of Receipt	:	17-02-2022		Report date	:	25-02-2022
Date of analysis	:	18-02-2022		Page No	:	1 of 1
Temperature (°C)	:	Min- 20	Max - 32	Avg. Wind Speed/Direction	:	3.1 km/hr/ENE
Relative Humidity (%)	:	Min – 58	Max - 90	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**		**Page 1 of 1**		

S. No.	Parameters	Results	Test Method	Standards*
1	Particulate Matter size less than 10-µm (PM_{10}), µg/m³	46.5	IS 5182 Pt.23 : 2006 (Reaff. 2017)	100
2	Particulate Matter size less than 2.5-µm ($PM_{2.5}$), µg/m³	23.7	EPA- 40 Appendix L To Part 50	60
3	Sulphur Dioxide (SO_2), µg/m³	6.74	IS 5182: Part 2:2001 (Reaff. 2017)	80
4	Nitrogen Dioxide (NO_2), µg/m³	14	IS 5182: Part 6:2006 (Reaff. 2017)	80
5	Ozone (O_3), µg/m³	12.3	ABCTL/SOP/A07	100
6	Lead (Pb), µg/m³	BDL (<0.1)	IS 5182: Part 22: 2004 (Reaff:2014)	1
7	Carbon Monoxide (CO), mg/m³	(BDL<0.1)	IS 5182 (Part 10): 1999 (RA 2014)	2
8	Ammonia (NH_3), µg/m³	(BDL<5.0)	ABCTL/SOP/A05	400
9	Benzene (C_6H_6), µg/m³	BDL (<0.01)	IS 5182 Part 11 : 2006(RA 2017)	5
10	Benzo (a) Pyrene – Particulate Phase only, ng/m³	BDL (<0.1)	IS 5182 (Part12): 2004 (RA 2014)	1
11	Arsenic (As), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	6
12	Nickel (Ni), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826€ dated 18.11.2009

BDL- Below Detection Limit

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

S.Dharani
Quality Manager
Verified by

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab
Authorised Signatory

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3003				
Sample drawn by	:	ABC Techno Labs India Private Limited				
Sample description	:	**Ambient Air Quality Monitoring**				
Location of sampling	:	**AAQ3- Near Vehicle shed**				
Date of sampling	:	15-02-2022 TO 17-02-2022		Date of completion	:	24-02-2022
Date of Receipt	:	17-02-2022		Report date	:	25-02-2022
Date of analysis	:	18-02-2022		Page No	:	1 of 1
Temperature (°C)	:	Min- 20	Max - 32	Avg. Wind Speed/Direction	:	3.1 km/hr/ENE
Relative Humidity (%)	:	Min – 58	Max - 90	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**		**Page 1 of 1**		

S. No.	Parameters	Results	Test Method	Standards*
1	Particulate Matter size less than 10-µm (PM_{10}), µg/m³	55.3	IS 5182 Pt.23 : 2006 (Reaff. 2017)	100
2	Particulate Matter size less than 2.5-µm ($PM_{2.5}$), µg/m³	26.5	EPA- 40 Appendix L To Part 50	60
3	Sulphur Dioxide (SO_2), µg/m³	8.63	IS 5182: Part 2:2001 (Reaff. 2017)	80
4	Nitrogen Dioxide (NO_2), µg/m³	19.7	IS 5182: Part 6:2006 (Reaff. 2017)	80
5	Ozone (O_3), µg/m³	14.2	ABCTL/SOP/A07	100
6	Lead (Pb), µg/m³	BDL (<0.1)	IS 5182: Part 22: 2004 (Reaff:2014)	1
7	Carbon Monoxide (CO), mg/m³	(BDL<0.1)	IS 5182 (Part 10): 1999 (RA 2014)	2
8	Ammonia (NH_3), µg/m³	(BDL<5.0)	ABCTL/SOP/A05	400
9	Benzene (C_6H_6), µg/m³	BDL (<0.01)	IS 5182 Part 11 : 2006(RA 2017)	5
10	Benzo (a) Pyrene – Particulate Phase only, ng/m³	BDL (<0.1)	IS 5182 (Part12): 2004 (RA 2014)	1
11	Arsenic (As), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	6
12	Nickel (Ni), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826€ dated 18.11.2009

BDL- Below Detection Limit

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

S.Dharani
Quality Manager
Verified by

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab
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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3004				
Sample drawn by	:	ABC Techno Labs India Private Limited				
Sample description	:	**Ambient Air Quality Monitoring**				
Location of sampling	:	**AAQ4- Near STP**				
Date of sampling	:	15-02-2022 TO 17-02-2022		Date of completion	:	24-02-2022
Date of Receipt	:	17-02-2022		Report date	:	25-02-2022
Date of analysis	:	18-02-2022		Page No	:	1 of 1
Temperature (°C)	:	Min- 20	Max - 32	Avg. Wind Speed/Direction	:	3.1 km/hr/ENE
Relative Humidity (%)	:	Min – 58	Max - 90	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**		**Page 1 of 1**		

S. No.	Parameters	Results	Test Method	Standards*
1	Particulate Matter size less than 10-µm (PM_{10}), µg/m³	49	IS 5182 Pt.23 : 2006 (Reaff. 2017)	100
2	Particulate Matter size less than 2.5-µm ($PM_{2.5}$), µg/m³	24.8	EPA- 40 Appendix L To Part 50	60
3	Sulphur Dioxide (SO_2), µg/m³	7.26	IS 5182: Part 2:2001 (Reaff. 2017)	80
4	Nitrogen Dioxide (NO_2), µg/m³	16.7	IS 5182: Part 6:2006 (Reaff. 2017)	80
5	Ozone (O_3), µg/m³	12.8	ABCTL/SOP/A07	100
6	Lead (Pb), µg/m³	BDL (<0.1)	IS 5182: Part 22: 2004 (Reaff:2014)	1
7	Carbon Monoxide (CO), mg/m³	(BDL<0.1)	IS 5182 (Part 10): 1999 (RA 2014)	2
8	Ammonia (NH_3), µg/m³	(BDL<5.0)	ABCTL/SOP/A05	400
9	Benzene (C_6H_6), µg/m³	BDL (<0.01)	IS 5182 Part 11 : 2006(RA 2017)	5
10	Benzo (a) Pyrene – Particulate Phase only, ng/m³	BDL (<0.1)	IS 5182 (Part12): 2004 (RA 2014)	1
11	Arsenic (As), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	6
12	Nickel (Ni), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	20

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

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

S.Dharani
Quality Manager
Verified by

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3005				
Sample drawn by	:	ABC Techno Labs India Private Limited				
Sample description	:	**Ambient Air Quality Monitoring**				
Location of sampling	:	**AAQ5- Near Chilling Plant**				
Date of sampling	:	15-02-2022 TO 17-02-2022		Date of completion	:	24-02-2022
Date of Receipt	:	17-02-2022		Report date	:	25-02-2022
Date of analysis	:	18-02-2022		Page No	:	1 of 1
Temperature (°C)	:	Min- 20	Max - 32	Avg. Wind Speed/Direction	:	3.1 km/hr/ENE
Relative Humidity (%)	:	Min – 58	Max - 90	Rain Fall	:	Nil
Sampling Method	:	**IS 5182 Part 5 & 14**		**Page 1 of 1**		

S. No.	Parameters	Results	Test Method	Standards*
1	Particulate Matter size less than 10-µm (PM_{10}), µg/m³	53.5	IS 5182 Pt.23 : 2006 (Reaff. 2017)	100
2	Particulate Matter size less than 2.5-µm ($PM_{2.5}$), µg/m³	26.5	EPA- 40 Appendix L To Part 50	60
3	Sulphur Dioxide (SO_2), µg/m³	8.11	IS 5182: Part 2:2001 (Reaff. 2017)	80
4	Nitrogen Dioxide (NO_2), µg/m³	17.6	IS 5182: Part 6:2006 (Reaff. 2017)	80
5	Ozone (O_3), µg/m³	13.1	ABCTL/SOP/A07	100
6	Lead (Pb), µg/m³	BDL (<0.1)	IS 5182: Part 22: 2004 (Reaff:2014)	1
7	Carbon Monoxide (CO), mg/m³	(BDL<0.1)	IS 5182 (Part 10): 1999 (RA 2014)	2
8	Ammonia (NH_3), µg/m³	(BDL<5.0)	ABCTL/SOP/A05	400
9	Benzene (C_6H_6), µg/m³	BDL (<0.01)	IS 5182 Part 11 : 2006(RA 2017)	5
10	Benzo (a) Pyrene – Particulate Phase only, ng/m³	BDL (<0.1)	IS 5182 (Part12): 2004 (RA 2014)	1
11	Arsenic (As), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	6
12	Nickel (Ni), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	20

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BDL- Below Detection Limit

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

S.Dharani
Quality Manager
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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3006				
Sample drawn by	:	ABC Techno Labs India Private Limited				
Sample description	:	**Ambient Air Quality Monitoring**				
Location of sampling	:	**AAQ6- Near Main Store**				
Date of sampling	:	15-02-2022 TO 17-02-2022		Date of completion	:	24-02-2022
Date of Receipt	:	17-02-2022		Report date	:	25-02-2022
Date of analysis	:	18-02-2022		Page No	:	1 of 1
Temperature (°C)	:	Min- 20	Max - 32	Avg. Wind Speed/Direction	:	3.1 km/hr/ENE
Relative Humidity (%)	:	Min – 58	Max - 90	Rain Fall	:	Nil
Sampling Method	:	IS 5182 Part 5 & 14		Page 1 of 1		

S. No.	Parameters	Results	Test Method	Standards*
1	Particulate Matter size less than 10-µm (PM_{10}), µg/m³	57.6	IS 5182 Pt.23 : 2006 (Reaff. 2017)	100
2	Particulate Matter size less than 2.5-µm ($PM_{2.5}$), µg/m³	28	EPA- 40 Appendix L To Part 50	60
3	Sulphur Dioxide (SO_2), µg/m³	8.63	IS 5182: Part 2:2001 (Reaff. 2017)	80
4	Nitrogen Dioxide (NO_2), µg/m³	20.2	IS 5182: Part 6:2006 (Reaff. 2017)	80
5	Ozone (O_3), µg/m³	14.6	ABCTL/SOP/A07	100
6	Lead (Pb), µg/m³	BDL (<0.1)	IS 5182: Part 22: 2004 (Reaff:2014)	1
7	Carbon Monoxide (CO), mg/m³	(BDL<0.1)	IS 5182 (Part 10): 1999 (RA 2014)	2
8	Ammonia (NH_3), µg/m³	(BDL<5.0)	ABCTL/SOP/A05	400
9	Benzene (C_6H_6), µg/m³	BDL (<0.01)	IS 5182 Part 11 : 2006(RA 2017)	5
10	Benzo (a) Pyrene – Particulate Phase only, ng/m³	BDL (<0.1)	IS 5182 (Part12): 2004 (RA 2014)	1
11	Arsenic (As), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	6
12	Nickel (Ni), ng/m³	BDL (<1)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	20

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826€ dated 18.11.2009

BDL- Below Detection Limit

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

S.Dharani
Quality Manager
Verified by

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3019
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	**Noise Level Monitoring – Source**
Date of sampling	:	15-02-2022
Date of Receipt	:	17-02-2022
Report date	:	25-02-2022 Page 1 of 1

S. No.	Location	Noise Level [dB(A)]
1	Line 1 Pack out Room –Process Plant	65.7
2	Process Dehumidifier area	75.9
3	Process Extruder area	78.6
4	Control Room	61.8
5	Line 2 Extruder Area	80.1
6	Line -2 Pack out Room Process Plant	79.2
7	Blower area	83.1
8	Near Hot water Tank area	71.9
9	Near Air Compressor area	82.9
10	QA lab area	57.2
11	Main stores area	57.6
12	Oven house area	67.1
13	Lab Moulding machine area	66.5
14	Near Raw material area	64.1
15	Near ETP Area	68.3
16	Cooling Tower Area	76.5
	Standard	90.0

Method: IS: 4758-1968 (Reaff: 2017)-Source

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

S.Dharani
Quality Manager

ABC Techno Labs India Private Limited CHENNAI 600 098

ABC

A. Robson Chinnadurai
Technical Manager-Lab

Verified by **Authorised Signatory**

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ABC Techno Labs
Quality Uncompromised

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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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3018
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	**DG Noise Level Monitoring**
Date of sampling	:	15-02-2022
Date of Receipt	:	17-02-2022
Report date	:	25-02-2022 Page 1 of 1

S. No.	Location	Noise Level [dB(A)]	
		1 m distance from acoustic enclosure Open	1 m distance from acoustic enclosure Closed
1	600 KVA	97.8	73.9
2	400 KVA	99	73.2
3	200 KVA	96.4	71.9
Standard#		75	

Method: IS: 4758-1968(Reaff: 2017)-Source

#The Noise standard for Diesel Generator sets upto 1000 KVA as per Environmental Protection Act 1986 and subsequent amendment rule vide GSR 215(E) dated 15th March 2011.

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

S.Dharani
Quality Manager
Verified by

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab
Authorised Signatory

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3013-3015			
Sample drawn by	:	ABC Techno Labs India Private Limited			
Sample description	:	**Source Emission Monitoring - DG**			
Date of sampling	:	15-02-2022	Date of completion	:	23-02-2022
Date of Receipt	:	17-02-2022	Report date	:	25-02-2022
Date of analysis	:	18-02-2022	Page no	:	1 of 1

Sl.No	Stack Details	DG 400 KVA R.No.3013	DG 600 KVA R.No.3014	DG 200 KVA R.No.3015
1	Stack height from ground level in meters	11	11	11
2	Stack Diameter in meters	0.2	0.2	0.2
3	Cross Sectional Area, m^2	0.03142	0.03142	0.03142
4	Velocity of Flue Gas in m/sec	14.8	15.1	13.9
5	Gas Discharge in Nm^3/hr	1120	1125	1064
6	Stack gas temperature in (K)	438	445	433
7	Ambient gas temperature in (K)	306	306	305
8	Fuel used	Diesel	Diesel	Diesel

S. No	Stack Attached to	Pollutant Concentration-Result					
		PM (g/kw-hr)	HC+ NOx, (g/kw-hr)	CO (g/kw-hr)	SO_2 (mg/Nm^3)	CO_2 %	O_2 %
1	DG 400 KVA	0.067	0.83	0.67	4	5.2	13.5
2	DG 600 KVA	0.073	0.92	0.71	6	5.7	13.1
3	DG 200 KVA	0.061	0.77	0.58	3	5	13.8
CPCB Standard		0.2	4.0	3.5	Not Specified	Not Specified	Not Specified
Sampling & Test Method		IS 11255 Part 1 (RA:2014)	BS EN 50379-1-2012.				

As per Environmental Protection Act 1986 the Emission standard for diesel generator set up to 800kw amendment rule vide GSR 771(E) dated 11th December 2013.

.....End of report.....

S.Dharani
Quality Manager

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab

Verified by

Authorised Signatory

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3017			
Sample drawn by	:	ABC Techno Labs India Private Limited			
Sample description	:	**Source Emission Monitoring**			
Date of sampling	:	15-02-2022	Date of completion	:	23-02-2022
Date of Receipt	:	17-02-2022	Report date	:	25-02-2022
Date of analysis	:	18-02-2022	Page no	:	1 of 1

Sl.No	Stack Details	Thermic Fluid Heater
1	Stack height from ground level in meters	31.9
2	Stack Diameter in meters	0.4
3	Port Hole Height From Ground Level in meters	10.4
4	Cross Sectional Area, m^2	0.12568
5	Velocity of Flue Gas in m/sec	10.8
6	Gas Discharge in Nm^3/hr	3364
7	Stack gas temperature in (K)	426
8	Ambient gas temperature in (K)	306
9	Fuel used	Diesel

S. No	Stack Attached to	PM (mg/Nm^3)	SO_2 (mg/Nm^3)	NOx, (mg/Nm^3)	CO_2 (%)	O_2 (%)	CO (mg/Nm^3)
1	Thermic Fluid Heater	15.4	3	77	6.3	12.4	58
MoEF Standards		150	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sampling & Test Method		IS 11255 Part 1 (RA:2014)	BS EN 50379-1-2012.				

....End of report....

S.Dharani
Quality Manager

ABC Techno Labs India Private Limited CHENNAI 600 098

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3016			
Sample drawn by	:	ABC Techno Labs India Private Limited			
Sample description	:	**Source Emission Monitoring**			
Date of sampling	:	15-02-2022	Date of completion	:	23-02-2022
Date of Receipt	:	17-02-2022	Report date	:	25-02-2022
Date of analysis	:	18-02-2022	Page no	:	1 of 2

Sl.No.	Stack Details	Process Vent Scrubber
1	Stack Height from ground level in meters	17.3
2	Stack Diameter in meters	0.5
3	Cross Sectional Area, m^2	0.196375
4	Velocity of Flue Gas in m/sec	7.83
5	Gas Discharge in Nm^3/hr	5153
6	Stack gas temperature in (K)	315
7	Ambient gas temperature in (K)	306

S. No	Stack Attached to	Pollutant Concentration					
		PM (mg/Nm^3)	SO_2 (mg/Nm^3)	NO_2 (mg/Nm^3)	CO_2 (%)	O_2 (%)	CO (mg/Nm^3)
1	Process Vent Scrubber	12.2	BDL(<1)	BDL(<1)	0.2	20.6	3
MoEF Standards		150	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sampling & Test Method		IS 11255 Part 1 (RA:2014)	BS EN 50379-1-2012.				

Contd....

S.Dharani
Quality Manager

Verified by

A. Robson Chinnadurai
Technical Manager-Lab

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TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report Number	:	ABCTL/2022/02/3007-3012
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	**Ambient Air Quality Monitoring** **Total Volatile Organic Compounds (TVOC's)**
Date of sampling	:	15-02-2022
Date of Receipt	:	17-02-2022
Date of Analysis	:	18-02-2022
Date of Completion	:	21-02-2022
Report Date	:	25-02-2022

S. No.	Location of Sampling	Unit	TVOC's Results	Test Method
1	Near ETP	µg/m³	BDL(DL:1)	ABCTL/SOP/A13
2	Near production Plant II	µg/m³	BDL(DL:1)	
3	Near production Plant II	µg/m³	BDL(DL:1)	
4	Near Emergency Gate	µg/m³	BDL(DL:1)	
5	Near RM Stores Area	µg/m³	BDL(DL:1)	
6	Near Admin	µg/m³	BDL(DL:1)	

BDL- Below Detection Limit, Detectable Limit-1 µg/m³

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

S. 25/2/22
S.Dharani
Quality Manager
Verified by

Techno Labs India Private Limited CHENNAI 600 098

D.
A. Robson Chinnadurai
Technical Manager-Lab
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TEST REPORT

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M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report number	:	ABCTL/2022/02/3016			
Sample drawn by	:	ABC Techno Labs India Private Limited			
Sample description	:	**Source Emission Monitoring**			
Date of sampling	:	15-02-2022	Date of completion	:	23-02-2022
Date of Receipt	:	17-02-2022	Report date	:	25-02-2022
Date of analysis	:	18-02-2022	Page no	:	2 of 2

S. No.	Stack Attached to	Test Method	Acid Mist (mg/Nm^3)
1	Process Vent Scrubber	EPA 8	0.11
MoEF Standards (HCl Acid Vapours and Mist)			35

.....END OF REPORT.....

ABC

S.Dharani
Quality Manager

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab

Verified by **Authorised Signatory**

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Customer Provided Details					
Sample Name	Soil	Customer Ref	As per PO		
Seal if Any	Nil	Marks on Sample	Nil		
Lab Provided Details					
Report Number	ABCTL/2022/02/3020	Date of Receipt	17-02-2022	Analysis Commenced	18-02-2022
Analysis Completed	23-02-2022	Sample Condition	Good	Sample Qty.	1kg
Report Date	25-02-2022	Sample Drawn by	Laboratory	Date of Sampling	16-02-2022
Location of Sampling	Near ETP Area		Sampling Method	ABCTL/INS/SOP/016	

S. No.	Test Parameters	Test Procedure	Unit	Results
1	Moisture	IS 2720 (Part 2) 1973 (RA 2015)	%	7.8
2	pH at 25 °C	IS 2720 (Part 26) 1987 (RA 2016)	-	7.86
3	Organic matter	IS 2720 (Part 22):1972, (RA2015)	%	1.33
4	Cationic Exchange Capacity	IS -2720(Part 24) 1976, (RA2015)	meq/100g	15.3
5	Available Potassium	FAO Chapter 3, ABCTL/SOIL/SOP/07	mg/kg	312
6	Exchangeable Sodium as Na	FAO Chapter 3, ABCTL/SOIL/SOP 6	meq/100g	2.18
7	Exchangeable Calcium as Ca	FAO Chapter 3, ABCTL/SOIL/SOP 4	meq/100g	82
8	Lead as Pb	EPA 3050 B &7000 B	mg/kg	BDL(<2)
9	Cadmium as Cd	EPA 3050 B &7000 B	mg/kg	BDL(<2)
10	Copper as Cu	EPA 3050 B &7000 B	mg/kg	5.11
11	Zinc as Zn	EPA 3050 B &7000 B	mg/kg	48.6
12	Iron as Fe	EPA 3050 B &7000 B	mg/kg	1846
13	Manganese as Mn	EPA 3050 B &7000 B	mg/kg	71.3
14	Total Chromium as Cr	EPA 3050 B &7000 B	mg/kg	12.2
15	Nickel as Ni	EPA 3050 B &7000 B	mg/kg	BDL(<2)
16	Molybdenum as Mo	EPA 3050 B &7000 B	mg/kg	BDL(<2)

Contd.....

S.Dharani
Quality Manager

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ABC

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Technical Manager-Lab

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Ministry of Environment & Forest Government of India

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TEST REPORT

ISSUED TO:

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report Number	:	ABCTL/2022/02/3020
Sample Description	:	Soil –Near ETP
Report Date	:	25-02-2022

S. No.	Test Parameters	Test Procedure	Unit	Results
15	Cobalt as Co	EPA 3050 B &7000 B	mg/kg	BDL(<2)
16	Antimony as Sb	EPA 3050 B &7000 B	mg/kg	BDL(<2)
17	Mercury as Hg	EPA 3050 B & 7471 B	mg/kg	BDL(<2)
18	Arsenic as As	EPA 3050 B &7000 B	mg/kg	BDL(<2)
19	Hexavalent Chromium as Cr6+	EPA 7196A	mg/kg	BDL(<2)

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

S.Dharani
Quality Manager
Verified by

Techno Labs India Private Limited CHENNAI 600 098

ABC

A. Robson Chinnadurai
Technical Manager-Lab
Authorised Signatory

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ISSUED TO:

TEST REPORT

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Customer Provided Details					
Sample Name	Soil	Customer Ref	As per PO		
Seal if Any	Nil	Marks on Sample	Nil		
Lab Provided Details					
Report Number	ABCTL/2022/02/3021	Date of Receipt	17-02-2022	Analysis Commenced	18-02-2022
Analysis Completed	23-02-2022	Sample Condition	Good	Sample Qty.	1kg
Report Date	25-02-2022	Sample Drawn by	Laboratory	Date of Sampling	16-02-2022
Location of Sampling	Near STP Area		Sampling Method	ABCTL/INS/SOP/016	

S. No.	Test Parameters	Test Procedure	Unit	Results
1	Moisture	IS 2720 (Part 2) 1973 (RA 2015)	%	8.16
2	pH at 25 °C	IS 2720 (Part 26) 1987 (RA 2016)	-	8.21
3	Organic matter	IS 2720 (Part 22):1972, (RA2015)	%	1.48
4	Cationic Exchange Capacity	IS -2720(Part 24) 1976, (RA2015)	meq/100g	13.7
5	Available Potassium	FAO Chapter 3, ABCTL/SOIL/SOP/07	mg/kg	356
6	Exchangeable Sodium as Na	FAO Chapter 3, ABCTL/SOIL/SOP 6	meq/100g	1.78
7	Exchangeable Calcium as Ca	FAO Chapter 3, ABCTL/SOIL/SOP 4	meq/100g	82
8	Lead as Pb	EPA 3050 B &7000 B	mg/kg	BDL(<2)
9	Cadmium as Cd	EPA 3050 B &7000 B	mg/kg	BDL(<2)
10	Copper as Cu	EPA 3050 B &7000 B	mg/kg	6.23
11	Zinc as Zn	EPA 3050 B &7000 B	mg/kg	51.8
12	Iron as Fe	EPA 3050 B &7000 B	mg/kg	2054
13	Manganese as Mn	EPA 3050 B &7000 B	mg/kg	86
14	Total Chromium as Cr	EPA 3050 B &7000 B	mg/kg	9.1
15	Nickel as Ni	EPA 3050 B &7000 B	mg/kg	BDL(<2)
16	Molybdenum as Mo	EPA 3050 B &7000 B	mg/kg	BDL(<2)

Contd.....

S.Dharani
Quality Manager

ABC Techno Labs India Private Limited CHENNAI 600 098

A. Robson Chinnadurai
Technical Manager-Lab

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TEST REPORT

ISSUED TO:

M/s. Covestro (India) Private Limited,
Cuddalore - Chidambaram Main Road,
Semmankuppam Village, Cuddalore - 607 005.

Report Number	:	ABCTL/2022/02/3021
Sample Description	:	Soil –Near STP
Report Date	:	25-02-2022

S. No.	Test Parameters	Test Procedure	Unit	Results
15	Cobalt as Co	EPA 3050 B &7000 B	mg/kg	BDL(<2)
16	Antimony as Sb	EPA 3050 B &7000 B	mg/kg	BDL(<2)
17	Mercury as Hg	EPA 3050 B & 7471 B	mg/kg	BDL(<2)
18	Arsenic as As	EPA 3050 B &7000 B	mg/kg	BDL(<2)
19	Hexavalent Chromium as Cr6+	EPA 7196A	mg/kg	BDL(<2)

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

ABC Techno Labs India Private Limited CHENNAI 600 098

ABC

S.Dharani
Quality Manager
Verified by

A. Robson Chinnadurai
Technical Manager-Lab
Authorised Signatory

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