



**Chemplast Sanmar Limited, PVC Division, Cuddalore
Consolidated Environmental Monitoring Report**

Ambient Air Quality Average Values										
Parameters	CPCB Standards	Detection Limit	Month: October – 2016							
			Locations							
			Near Admin office	Near STP plant	Near fire water tank	Near Material Gate	Near VCM storage	Near Boiler	Near Helipad	Near weigh bridge
Particulate Matter (PM ₁₀), µg/m ³	100	-	38.7	45.9	51.5	61.0	51.2	57.2	46.8	39.0
Particulate Matter (PM _{2.5}), µg/m ³	60	-	8.4	11.3	13.6	19.3	19.6	20.4	12.6	12.2
Sulphur Dioxide (SO ₂), µg/m ³	80	-	14.8	15.7	16.4	17.5	6.8	7.2	5.2	4.4
Nitrogen Dioxide (NO ₂), µg/m ³	80	-	19.6	23.5	21.7	25.7	19.0	21.6	16.6	13.4
Ozone (O ₃), µg/m ³	100	(DL:5.0 µg/m ³)	10.3	11.8	12.5	11.8	6.2	9.2	7.1	7.4
Lead (Pb), µg/m ³	1.0	-	0.030	0.033	0.030	0.034	0.019	0.020	0.025	0.024
Carbon Monoxide (CO), mg/m ³	2.0	-	0.35	0.34	0.32	0.41	0.21	0.27	0.24	0.22
Ammonia (NH ₃), µg/m ³	400	(DL:0.03 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene (C ₆ H ₆), µg/m ³	5	(DL:0.001 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) Pyrene (BaP), ng/m ³	1	(DL:0.01 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As), ng/m ³	6	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel (Ni), ng/m ³	20	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - Below Detection Limit
DL - Detection Limit
Average results as per third party monitoring.



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Parameters	CPCB Standards	Detection Limit	Month: November - 2016							
			Locations							
			Near Admin office	Near STP plant	Near fire water tank	Near Material Gate	Near VCM storage	Near Boiler	Near Helipad	Near weigh bridge
Particulate Matter (PM ₁₀), µg/m ³	100	-	39.6	48.0	52.7	62.5	52.4	58.6	45.8	40.2
Particulate Matter (PM _{2.5}), µg/m ³	60	-	9.9	12.9	15.0	20.7	19.2	20.8	12.2	13.2
Sulphur Dioxide (SO ₂), µg/m ³	80	-	14.0	15.1	15.3	16.3	6.2	7.4	5.0	4.8
Nitrogen Dioxide (NO ₂), µg/m ³	80	-	18.9	22.8	21.1	25.0	20.2	22.0	16.4	12.6
Ozone (O ₃), µg/m ³	100	(DL:5.0 µg/m ³)	9.8	11.0	11.8	11.0	8.1	10.8	12.4	7.4
Lead (Pb), µg/m ³	1.0	-	0.029	0.032	0.029	0.033	0.024	0.020	0.029	0.027
Carbon Monoxide (CO), mg/m ³	2.0	-	0.34	0.33	0.31	0.40	0.27	0.24	0.26	0.26
Ammonia (NH ₃), µg/m ³	400	(DL:0.03 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene (C ₆ H ₆), µg/m ³	5	(DL:0.001 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) Pyrene (BaP), ng/m ³	1	(DL:0.01 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As), ng/m ³	6	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel (Ni), ng/m ³	20	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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Ambient Air Quality Average Values										
Parameters	CPCB Standards	Detection Limit	Month: December - 2016							
			Locations							
			Near Admin office	Near STP plant	Near fire water tank	Near Material Gate	Near VCM storage	Near Boiler	Near Helipad	Near weigh bridge
Particulate Matter (PM ₁₀), µg/m ³	100	-	41.8	49.6	54.5	64.0	51.4	56.8	46.4	38.8
Particulate Matter (PM _{2.5}), µg/m ³	60	-	11.0	14.1	16.7	22.2	20.2	21.4	13.0	12.4
Sulphur Dioxide (SO ₂), µg/m ³	80	-	12.9	14.0	14.2	15.4	5.8	6.8	5.4	4.0
Nitrogen Dioxide (NO ₂), µg/m ³	80	-	17.5	21.7	20.0	24.1	18.8	20.8	16.8	13.2
Ozone (O ₃), µg/m ³	100	(DL:5.0 µg/m ³)	9.0	10.1	10.4	10.2	12.5	7.9	13.4	7.8
Lead (Pb), µg/m ³	1.0	-	0.028	0.031	0.028	0.032	0.027	0.024	0.020	0.021
Carbon Monoxide (CO), mg/m ³	2.0	-	0.33	0.32	0.30	0.39	0.28	0.27	0.22	0.26
Ammonia (NH ₃), µg/m ³	400	(DL:0.03 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene (C ₆ H ₆), µg/m ³	5	(DL:0.001 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) Pyrene (BaP), ng/m ³	1	(DL:0.01 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As), ng/m ³	6	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel (Ni), ng/m ³	20	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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Ambient Air Quality Average Values										
Parameters	CPCB Standards	Detection Limit	Month: January - 2017							
			Locations							
			Near Admin office	Near STP plant	Near fire water tank	Near Material Gate	Near VCM storage	Near Boiler	Near Helipad	Near weigh bridge
Particulate Matter (PM ₁₀), µg/m ³	100	-	44.1	51.7	56.8	66.8	51.0	56.4	45.6	39.2
Particulate Matter (PM _{2.5}), µg/m ³	60	-	12.3	15.4	18.0	23.6	19.4	20.2	12.4	12.0
Sulphur Dioxide (SO ₂), µg/m ³	80	-	12.0	12.8	12.9	14.1	5.2	6.0	5.2	4.2
Nitrogen Dioxide (NO ₂), µg/m ³	80	-	16.2	20.3	18.7	22.8	18.4	21.2	16.2	12.8
Ozone (O ₃), µg/m ³	100	(DL:5.0 µg/m ³)	8.1	9.0	9.2	9.0	8.4	8.7	9.4	8.8
Lead (Pb), µg/m ³	1.0	-	0.027	0.029	0.026	0.030	0.027	0.030	0.034	0.026
Carbon Monoxide (CO), mg/m ³	2.0	-	0.31	0.30	0.28	0.36	0.24	0.31	0.33	0.21
Ammonia (NH ₃), µg/m ³	400	(DL:0.03 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene (C ₆ H ₆), µg/m ³	5	(DL:0.001 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) Pyrene (BaP), ng/m ³	1	(DL:0.01 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As), ng/m ³	6	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel (Ni), ng/m ³	20	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL - Below Detection Limit										
DL - Detection Limit										
Average results as per third party monitoring.										



**Chemplast Sanmar Limited, PVC Division, Cuddalore
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Ambient Air Quality Average Values										
Parameters	CPCB Standards	Detection Limit	Month: February - 2017							
			Locations							
			Near Admin office	Near STP plant	Near fire water tank	Near Material Gate	Near VCM storage	Near Boiler	Near Helipad	Near weigh bridge
Particulate Matter (PM ₁₀), µg/m ³	100	-	46.4	53.8	58.5	69.1	51.8	57.4	46.2	40.0
Particulate Matter (PM _{2.5}), µg/m ³	60	-	13.8	17.2	19.2	25.4	20.4	21.0	11.8	12.2
Sulphur Dioxide (SO ₂), µg/m ³	80	-	11.1	11.9	12.0	13.0	6.0	6.4	5.0	4.4
Nitrogen Dioxide (NO ₂), µg/m ³	80	-	15.3	19.1	17.9	21.7	19.2	22.4	17.0	13.0
Ozone (O ₃), µg/m ³	100	(DL:5.0 µg/m ³)	7.0	7.8	8.1	8.3	8.7	8.7	8.4	9.3
Lead (Pb), µg/m ³	1.0	-	0.025	0.027	0.024	0.028	0.024	0.021	0.024	0.024
Carbon Monoxide (CO), mg/m ³	2.0	-	0.30	0.29	0.27	0.33	0.21	0.26	0.23	0.22
Ammonia (NH ₃), µg/m ³	400	(DL:0.03 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene (C ₆ H ₆), µg/m ³	5	(DL:0.001 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) Pyrene (BaP), ng/m ³	1	(DL:0.01 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As), ng/m ³	6	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel (Ni), ng/m ³	20	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL - Below Detection Limit DL - Detection Limit Average results as per third party monitoring.										



**Chemplast Sanmar Limited, PVC Division, Cuddalore
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Ambient Air Quality Average Values										
Parameters	CPCB Standards	Detection Limit	Month: March - 2017							
			Locations							
			Near Admin office	Near STP plant	Near fire water tank	Near Material Gate	Near VCM storage	Near Boiler	Near Helipad	Near weigh bridge
Particulate Matter (PM ₁₀), µg/m ³	100	-	49.0	56.3	60.8	71.7	53.2	57.0	47.4	40.2
Particulate Matter (PM _{2.5}), µg/m ³	60	-	15.7	19.1	18.0	27.0	19.6	20.6	12.6	13.0
Sulphur Dioxide (SO ₂), µg/m ³	80	-	10.0	10.8	11.2	11.9	6.6	7.2	6.2	5.2
Nitrogen Dioxide (NO ₂), µg/m ³	80	-	14.1	18.0	16.7	20.5	18.6	21.4	16.6	13.6
Ozone (O ₃), µg/m ³	100	(DL:5.0 µg/m ³)	6.3	6.6	6.9	7.4	9.4	9.4	8.7	7.7
Lead (Pb), µg/m ³	1.0	-	0.024	0.026	0.023	0.027	0.021	0.030	0.024	0.034
Carbon Monoxide (CO), mg/m ³	2.0	-	0.29	0.28	0.26	0.31	0.25	0.25	0.22	0.26
Ammonia (NH ₃), µg/m ³	400	(DL:0.03 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene (C ₆ H ₆), µg/m ³	5	(DL:0.001 µg/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) Pyrene (BaP), ng/m ³	1	(DL:0.01 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic (As), ng/m ³	6	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel (Ni), ng/m ³	20	(DL:1.0 ng/m ³)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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Average results as per third party monitoring.										



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Boiler Stack Online Monitoring Average Result			
Month	Parameters		
	SPM mg/m3	SO2 ppm	NOX ppm
October-2016	8.9	42	132
November-2016	10.5	46	136
December-2016	11.2	49	138
Jaunary-2017	12.4	52	136
February-2017	10.0	42	140
March-2017	11.6	33	144
Average results from online analyzer			



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PVC Dryer Online Stack Monitoring - Average Values		
Month	Parameters	
	SPM mg/m3	VCM ppm
October-2016	2.0	BDL (0.01 ppm)
November-2016	1.8	BDL (0.01 ppm)
December-2016	1.7	BDL (0.01 ppm)
January-2017	1.8	BDL (0.01 ppm)
February-2017	1.9	BDL (0.01 ppm)
March-2017	2.0	BDL (0.01 ppm)

Average results from online analyzer

BDL - Below Detectable Limit BDL – Values within brackets shows the minimum detection limits



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Vent Gas Absorption (VGA) Online Stack Monitoring - Average Values	
Month	Parameters
	VCM ppm
October-2016	BDL (0.01 ppm)
November-2016	BDL (0.01 ppm)
December-2016	BDL (0.01 ppm)
January-2017	BDL (0.01 ppm)
February-2017	BDL (0.01 ppm)
March-2017	BDL (0.01 ppm)

Average results from online analyzer
BDL - Below Detectable Limit BDL – Values within brackets shows the minimum detection limits



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Ground Level Concentration (GLC) of VCM in ambient air – Average Values	
Month	Parameters
	VCM ppm
October-2016	BDL (0.01 ppb)
November-2016	BDL (0.01 ppb)
December-2016	BDL (0.01 ppb)
January-2017	BDL (0.01 ppb)
February-2017	BDL (0.01 ppb)
March-2017	BDL (0.01 ppb)
Average results from online analyzer	
BDL - Below Detectable Limit BDL – Values within brackets shows the minimum detection limits	