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CIN No.: U28900MH1995PTC093129

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Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 E-mail : info@eaepl.com Website : www.eaepl.com

Ambient Air Quality Monitoring Report

Report No. - EAEPL/PM/ACPL/08-01/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference –** Work order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokharan Road No. 2, Manpada, Thane.		
Nature and Description of Sample	Ambient Air	**Sample Collected by**	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/A/08-01/a,b/08/18 (Main Gate)	**Sample quantity and packing**	PM_{10} = 1 * 1 No. Filter paper. $PM_{2.5}$ = 1 * 1 No. Filter paper. SOx = 1 * 1 No. PVC bottle. NOx = 1 * 1 No. PVC bottle.
		Preservation	Filter papers – Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Environmental Conditions		
Ambient air Temperature (°C)	**Relative humidity (%)**	**Duration of Monitoring**
27.0	65.0	8 Hours

RESULTS

Monitoring Locations	Main Gate	**NAAQS LIMITS**	**METHOD**
Pollution Parameters	PM/A/08-01/a,b/08/18		
R.S.P.M (PM_{10}) ($\mu g/m^3$)	41.17	100 $\mu g/m^3$	Gravimetric
R.S.P.M ($PM_{2.5}$) ($\mu g/m^3$)	14.97	60 $\mu g/m^3$	Gravimetric
SO_2 ($\mu g/m^3$)	12.66	80 $\mu g/m^3$	Improved West & Gaeke method
NOx ($\mu g/m^3$)	16.00	80 $\mu g/m^3$	Modified Jacob & Hochheiser (Na- Arsenite)

Remark: All the measured values are within NAAQS limit.

----------**End**----------

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

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Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

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Water Sample Analysis Report

Report No. - EAEPL/PM/ACPL/08-02/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokharan Road No. 2, Manpada, Thane.		**Reference** – Work order dated 28.03.2016
Nature and Description of Sample	TMC Water	**Sample Collected by**	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/W/08-02/08/18 (TMC Water)	**Sample quantity and packing**	2 L X 1 No. PVC Can.
		Preservation	Cool -Transported and stored at 5 °C (± 1°C).
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Guideline for water quality monitoring- CPCB, 2007-08.		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.40	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	310.00	500	2000	IS 3025 (Part16) (1984)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	46.49	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	124.00	200	600	IS 3025 (Part 29) (2009)
Calcium	mg / l	22.44	75	200	IS 3025 (Part 40) (1991)
Residual chlorine	mg / l	< 0.20	0.20	1	IS 3025 part 26 (1986)
Alkalinity	mg / l	50.00	200	600	IS: 3025 (Part 23) (1986)
Dissolved Oxygen	mg / l	4.80	-	-	IS3025 part 38 (1989)
Sulphate	mg / l	25.00	200	400	IS3025 part24 (1986)
Nitrate	mg / l	2.00	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.60	1	1.5	IS 3025 (Part 60) (2008)
Heavy Metals					
Iron (Fe)	mg / l	0.199	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.040	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.081	5	15	IS 3025 (Part 49) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.002	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.020	0.05	No Relaxation	APHA 3111 (22nd Edition)
Microbiological Analysis					
Total Coliform	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

----------End----------

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

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Soil Sample Analysis Report

Report No. - EAEPL/PM/ACPL/08-03/08/2018			**Report Date - 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference** – Work order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane.		
Nature and Description of Sample	Soil	**Sample Collected by**	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/08-03/08/18	**Sample quantity and packing**	500 gm X 1 zip lock bag
		Preservation	Transported & Stored in dry area
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-076. December 1984.		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Parameters	Unit	PM/S/08-03/08/18	Methods
pH	-	7.33	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	401.93	IS 14767:2000, Reaffirmed:2016
Soil Moisture	%	15.89	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	33.30	EAEPL/LAB/SOP/SOIL/10
Total Kjeldhal Nitrogen	mg/kg	805.64	IS 14684:1999 (Reaffirmed 2005)
Organic Matter	%	2.55	IS 2720 (Part 22) – 1972 (Reaffirmed 2001)
Chlorides	mg/kg	134.94	APHA 4500 Cl^-B and ISRIC Soil analysis procedure, Page No:13-6
Calcium	mg/kg	2133.65	IS 3025 (Part 40):1991
Magnesium	mg/kg	218.05	IS 3025 (Part 46):1994
Sulphate	mg/kg	30.60	IS 2720 (Part XXVII)):1977, Reaffirmed:2005
Available Phosphorus	mg/kg	2.00	ISRIC Soil analysis procedure, Page No:14.1-14.4
Sodium (Na)	mg/kg	3626.42	SW-846 Method 3050B
Potassium (K)	mg/kg	3489.15	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	98.98	SW-846 Method 3050B
Iron	mg/kg	92183.18	SW-846 Method 3050B
Lead	mg/kg	94.54	SW-846 Method 3050B
Zinc	mg/kg	108.65	SW-846 Method 3050B

----------End----------

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Old Verma Layout,
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Flat No.11,
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Ambient Noise Level Monitoring Report

Report No. - EAEPL/PM/ACPL/08-04/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference** – Work order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokharan Road No. 2, Manpada, Thane.		
Nature and Description of Sample	Noise	**Sample Collected by**	EAEPL Laboratory.
Sampling locations and Sample Code	1) PM/N/08-04/08/18	**Sample quantity and packing**	Not Applicable
Date of Sampling	07.08.2018	**Date of Receipt**	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	August, 2018		

Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near main gate	dB(A) Leq.	54.7	42.8	55	45
Centre side	dB(A) Leq.	55.0	42.0	55	45
Back side	dB(A) Leq.	53.8	43.3	55	45
Near Site Office	dB(A) Leq.	54.8	44.1	55	45

Remark: The noise level was observed to be within CPCB limit at all locations.

----------End----------

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

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Water Sample Analysis Report

Report No. - EAEPL/PM/ACPL/08-05/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference** – Work order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane.		
Nature and Description of Sample	Waste Water	**Sample Collected by**	EAEPL Laboratory
Sampling locations and Sample Code	1) STP Inlet **(PM/W/08-05/08/18)** 2) STP Outlet **(PM/W/08-06/08/18)**	**Sample quantity and packing**	1 L* 2 No. PVC Can.
		Preservation	Cool -Transported and stored at 5°C (± 1°C)
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Guideline for water quality monitoring- CPCB, 2007-08.		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Parameters	Unit	Results		CPCB Limits	Method
		PM/W/08-05/08/18	PM/W/08-06/08/18		
pH	-	7.00	7.60	6.5 to 9.0	IS 3025 (Part 11) (1983)
TSS	mg / l	30.00	8.00	Not more than 20	IS 3025 (Part 17) (1984)
BOD	mg / l	80.00	**12.00**	Not more than 10	IS 3025 part 44 (1993 Reaffirmed 2003)
COD	mg / l	232.00	40.00	Not more than 50	IS 3025 (Part 58) (2006)

----------End----------

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Stack Emission Analysis Report

Report No. - EAEPL/PM/ACPL/08-07/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference-** Work Order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane.		
Nature and Description of Sample	Stack	**Sample Collected by**	EAEPL Laboratory.
Sampling locations and Sample Code	1) DG Set 1 (125 KVA) **(PM/SE/08-07/08/18)**	**Sample quantity and packing**	100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper.
		Preservation	Cool - Transported and stored at 5 °C (± 1°C)
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2)		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Sr. No.	Particulars	Stack Details	Limits
1	Stack attached to	DG Set	-
2	Type of Fuel	Diesel	-
3	Temp. of Flue Gas	116 °C	-
4	Flue Gas Velocity	13.10 m/sec	-
5	Total Particulate Matter (TPM)	3.02 mg/Nm^3	150 mg/Nm^3
6	Sulphur Dioxide (SO_2)	2.10 kg/day	5.0 kg/day

----------End----------

For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

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Report No. - EAEPL/PM/ACPL/08-08/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference-** Work Order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane.		
Nature and Description of Sample	Stack	**Sample Collected by**	EAEPL Laboratory.
Sampling locations and Sample Code	2) DG Set 2 (125 KVA) **(PM/SE/08-08/08/18)**	**Sample quantity and packing**	100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper.
		Preservation	Cool - Transported and stored at 5 °C (± 1°C)
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2)		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Sr. No.	Particulars	Stack Details	Limits
1	Stack attached to	DG Set	-
2	Type of Fuel	Diesel	-
3	Temp. of Flue Gas	110 °C	-
4	Flue Gas Velocity	12.66 m/sec	-
5	Total Particulate Matter (TPM)	2.10 mg/Nm^3	150 mg/Nm^3
6	Sulphur Dioxide (SO_2)	1.80 kg/day	5.0 kg/day

----------End----------

For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

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Stack Emission Analysis Report

Report No. - EAEPL/PM/ACPL/08-09/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference-** Work Order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane.		
Nature and Description of Sample	Stack	**Sample Collected by**	EAEPL Laboratory.
Sampling locations and Sample Code	3) DG Set 3 (125 KVA) **(PM/SE/08-09/08/18)**	**Sample quantity and packing**	100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper.
		Preservation	Cool - Transported and stored at 5 °C (± 1°C)
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2)		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Sr. No.	Particulars	Stack Details	Limits
1	Stack attached to	DG Set	-
2	Type of Fuel	Diesel	-
3	Temp. of Flue Gas	112 °C	-
4	Flue Gas Velocity	12.72 m/sec	-
5	Total Particulate Matter (TPM)	3.08 mg/Nm^3	150 mg/Nm^3
6	Sulphur Dioxide (SO_2)	1.98 kg/day	5.0 kg/day

----------End----------

For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

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Stack Emission Analysis Report

Report No. - EAEPL/PM/ACPL/08-10/08/2018			**Report Date – 15.08.2018**
Name of Customer	**M/s. ASCENT CONSTRUCTION PVT. LTD.**		**Reference-** Work Order dated 28.03.2016
Site Address	"ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane.		
Nature and Description of Sample	Stack	**Sample Collected by**	EAEPL Laboratory.
Sampling locations and Sample Code	4) DG Set 4 (125 KVA) (PM/SE/08-10/08/18)	**Sample quantity and packing**	100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper.
		Preservation	Cool - Transported and stored at 5 °C (± 1°C)
Date of Sampling	07.08.2018	**Date of Receipt**	08.08.2018
Sampling Procedure	Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2)		
Period of Analysis	08.08.2018 to 15.08.2018		
Report for the month	August, 2018		

Sr. No.	Particulars	Stack Details	Limits
1	Stack attached to	DG Set	-
2	Type of Fuel	Diesel	-
3	Temp. of Flue Gas	110 °C	-
4	Flue Gas Velocity	12.38 m/sec	-
5	Total Particulate Matter (TPM)	3.06 mg/Nm^3	150 mg/Nm^3
6	Sulphur Dioxide (SO_2)	2.02 kg/day	5.0 kg/day

----------End----------

For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
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