



SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

Laboratory Recognised By West Bengal Pollution Control Board

An ISO 9001 : 2008 & OHSAS 18001 : 2007 Certified

90, Lake East (4th Road), Santoshpur, Jadavpur, Kolkata - 700 075

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Website : www.scientificlab.org

Annexure: I - 1/3

AMBIENT AIR QUALITY MONITORING

[FORMAT NO. SRL/FM/50]

Name & Address of the Industry	: Foundry Cluster Development Association, Foundry Park, Houli Bagan, Ranihati, Amta Road Dist.-Howrah		
Sampling Location	: Open Space Near Projects Site Office.		
Sample Identification No.	: A - 165 - 2013		
Environmental Condition	: Temp. 36°C	Sampling Date	: 17.05.2013 to 18.05.2013
Average Relative Humidity	: 69 %	Barometric Pressure	: 757 mm Hg.
Sample Receiving/Analysis Starting On	: 18.05.2013	Analysis Completed on	: 25.05.2013


TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[SRL/ FCDA-FP /AMB/A - 165 - 2013 Dated: 26.05.2013]

SL. NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD /LIMITS
01.	PM ₁₀	µg/m ³	84.62	IS 5182 (Part-23) : 2006	100.0
02.	PM _{2.5}	µg/m ³	46.33	USEPA 40 CFR Parts 53 & 58	60.0
03.	Sulphur dioxide (SO ₂)	µg/m ³	11.40	IS:5182 (Part-2):2006 (First Revision)	80.0
04.	Nitrogen Oxides (NO ₂)	µg/m ³	49.20	IS:5182 (Part-6):2006 (First Revision)	80.0
05.	Ozone (O ₃)	µg/m ³	27.96	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method 411	100.0
06.	Ammonia (NH ₃)	µg/m ³	21.40	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-401	400.0
07.	Lead (Pb)	µg/m ³	0.23	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A , 822	1.0
08.	Benzene (C ₆ H ₆)	µg/m ³	0.24	IS 5182 (Part 11) : 2006	5.0
09.	Arsenic (As)	ng/m ³	2.59	Standard Method- APHA, 20 th Edition. 1998 By Atomic Absorption Spectrophotometer Using Vapour Generation Assembly (VGA)	6.0
10.	Benzo(a)Pyrene (BaP)	ng/m ³	0.12	IS 5182 (Part 12) : 2009	1.0
11.	Nickel (Ni)	ng/m ³	4.22	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	20.0
12.	Carbon monoxide (CO)	mg/m ³	0.412	IS 5182(Part-10):1999	2.0

NOTE: PM₁₀ & PM_{2.5} sampling was carried out for 8 hours.
Carbon monoxide (CO) Sampling was carried out for 8 hours.

For Scientific Research Laboratory


Gautam Chowdhury
(Senior Chemist)

- The test report shall not be reproduced, except in full, without written approval of the company.
- Results relate only to the parameters tested.
- No Repeat Analysis will be entertained after 15 days from the date of sampling.



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Annexure: I - 2/3

AMBIENT AIR QUALITY MONITORING

[FORMAT NO. SRL/FM/50]

Name & Address of the Industry	: Foundry Cluster Development Association, Foundry Park, Houli Bagan, Ranihati, Amta Road Dist.-Howrah		
Sampling Location	: Open Space Near WW-I [Inside the Pump House]		
Sample Identification No.	: A - 166 - 2013		
Environmental Condition	: Temp. 36°C	Sampling Date	: 17.05.2013 to 18.05.2013
Average Relative Humidity	: 69 %	Barometric Pressure	: 757 mm Hg.
Sample Receiving/Analysis Starting On	: 18.05.2013	Analysis Completed on	: 25.05.2013

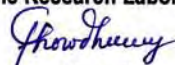
TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[SRL/ FCDA-FP /AMB/A - 166 - 2013 Dated: 26.05.2013]

SL. NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD /LIMITS
01.	PM ₁₀	µg/m ³	81.38	IS 5182 (Part-23) : 2006	100.0
02.	PM _{2.5}	µg/m ³	43.44	USEPA 40 CFR Parts 53 & 58	60.0
03.	Sulphur dioxide (SO ₂)	µg/m ³	11.60	IS:5182 (Part-2):2006 (First Revision)	80.0
04.	Nitrogen Oxides (NO ₂)	µg/m ³	48.90	IS:5182 (Part-6):2006 (First Revision)	80.0
05.	Ozone (O ₃)	µg/m ³	27.20	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method 411	100.0
06.	Ammonia (NH ₃)	µg/m ³	23.03	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-401	400.0
07.	Lead (Pb)	µg/m ³	0.13	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	1.0
08.	Benzene (C ₆ H ₆)	µg/m ³	0.23	IS 5182 (Part 11) : 2006	5.0
09.	Arsenic (As)	ng/m ³	3.26	Standard Method- APHA, 20 th Edition. 1998 By Atomic Absorption Spectrophotometer Using Vapour Generation Assembly (VGA)	6.0
10.	Benzo(a)Pyrene (BaP)	ng/m ³	0.09	IS 5182 (Part 12) : 2009	1.0
11.	Nickel (Ni)	ng/m ³	3.62	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	20.0
12.	Carbon monoxide (CO)	mg/m ³	0.508	IS 5182(Part-10):1999	2.0

NOTE: PM₁₀ & PM_{2.5} sampling was carried out for 8 hours.
Carbon monoxide (CO) Sampling was carried out for 8 hours.

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(Senior Chemist)

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Annexure: I – 3/3

AMBIENT AIR QUALITY MONITORING

[FORMAT NO. SRL/FM/50]

Name & Address of the Industry	: Foundry Cluster Development Association, Foundry Park, Houli Bagan, Ranihat, Amta Road Dist.-Howrah		
Sampling Location	: Open Space Near WW - II		
Sample Identification No.	: A - 167 - 2013		
Environmental Condition	: Temp. 37°C	Sampling Date	: 17.05.2013 to 18.05.2013
Average Relative Humidity	: 77 %	Barometric Pressure	: 757 mm Hg.
Sample Receiving/Analysis Starting On	: 18.05.2013	Analysis Completed on	: 25.05.2013

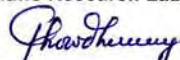
TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[SRL/FCDA-FP/AMB/A - 167 - 2013 Dated: 26.05.2013]

SL. NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD /LIMITS
01.	PM ₁₀	µg/m ³	78.28	IS 5182 (Part-23) : 2006	100.0
02.	PM _{2.5}	µg/m ³	44.00	USEPA 40 CFR Parts 53 & 58	60.0
03.	Sulphur dioxide (SO ₂)	µg/m ³	11.80	IS:5182 (Part-2):2006 (First Revision)	80.0
04.	Nitrogen Oxides (NO ₂)	µg/m ³	51.60	IS:5182 (Part-6):2006 (First Revision)	80.0
05.	Ozone (O ₃)	µg/m ³	27.44	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method 411	100.0
06.	Ammonia (NH ₃)	µg/m ³	26.19	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-401	400.0
07.	Lead (Pb)	µg/m ³	0.14	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	1.0
08.	Benzene (C ₆ H ₆)	µg/m ³	0.23	IS 5182 (Part 11) : 2006	5.0
09.	Arsenic (As)	ng/m ³	2.36	Standard Method- APHA, 20 th Edition. 1998 By Atomic Absorption Spectrophotometer Using Vapour Generation Assembly (VGA)	6.0
10.	Benzo(a)Pyrene (BaP)	ng/m ³	0.10	IS 5182 (Part 12) : 2009	1.0
11.	Nickel (Ni)	ng/m ³	2.88	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	20.0
12.	Carbon monoxide (CO)	mg/m ³	0.432	IS 5182(Part-10):1999	2.0

NOTE: PM₁₀ & PM_{2.5} sampling was carried out for 8 hours.
Carbon monoxide (CO) Sampling was carried out for 8 hours.

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