



# Eco Care

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Specialised House on Environmental Monitoring, Analysis, Assessment &amp; Management

 Manoj Talkies, (Basement Floor)  
 Kumarpur, Asansol - 713304  
 Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF APRIL)

Report Release Date : 29.04.2014	Protocol : IS Method						
Test Report No. : JA/140406/07/2014/45	Sample Description : Ambient Air						
Sampling Date : 10.04.2014 to 11.04.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near Main Gate						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.8</td> <td>71.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.8	71.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.8	71.0	753					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	159.76	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	64.20	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	31.50	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	27.83	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	23.62	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.017	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.09	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.37	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.95	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	B.D.L	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.7	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.19	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

Dr. Dibyendu Banerjee  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

NOTE: 1) This certificate refers to the values obtained at the time of testing and results related to the items tested  
 2) This certificate may not be reproduced in part or full without written permission of the management



# Eco Care

Annexure VIII

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Specialised House on Environmental Monitoring, Analysis, Assessment & Management

Manoj Talkies, (Basement Floor)

Kumarpur, Asansol - 713304

Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF APRIL)

Report Release Date : 29.04.2014	Protocol : IS Method						
Test Report No. : JA/140406/08/2014/46	Sample Description : Ambient Air						
Sampling Date : 10.04.2014 to 11.04.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near L.P.G Storage Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.8</td> <td>71.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.8	71.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.8	71.0	753					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	157.35	500
2	Particulate Matter $\text{PM}_{10}$ $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	61.18	100
3	Particulate Matter $\text{PM}_{2.5}$ $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	41.08	60
4	Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	25.09	80
5	Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	22.42	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.19	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.99	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.42	2
10	Ammonia ( $\text{NH}_3$ ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.69	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	B.D.L	1
12	Ozone ( $\text{O}_3$ ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	10.9	180
13	Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.27	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

Dr. Dibyendu Banerjee

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF APRIL)

Report Release Date : 29.04.2014	Protocol : IS Method						
Test Report No. : JA/140406/09/2014/47	Sample Description : Ambient Air						
Sampling Date : 11.04.2014 to 12.04.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : S.R.L Pack Line North Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.8</td> <td>71.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.8	71.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.8	71.0	753					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	163.24	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	67.95	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	35.83	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	23.90	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	20.45	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.12	1.0
7	Arsenic (As), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	11.89	20
9	Carbon Monoxide (CO), mg/m <sup>3</sup>	NDIR SPECTROSCOPY	0.39	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.11	400
11	Benzo(Alpha) Pyrene, ng/m <sup>3</sup>	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	B.D.L	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	13.4	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.37	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
M.Sc, M.Phil, Phd, PD  
Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF APRIL)

Report Release Date : 29.04.2014	Protocol : IS Method						
Test Report No. : JA/140406/10/2014/48	Sample Description : Ambient Air						
Sampling Date : 11.04.2014 to 12.04.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near Nitrogen Plant Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.8</td> <td>71.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.8	71.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.8	71.0	753					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	160.53	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	65.23	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	31.05	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	23.99	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	21.54	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.11	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.11	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.45	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.76	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	B.D.L	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.3	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.34	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

Dr. Dibyendu Banerjee

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

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Annexure VIII A

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF MAY)

Report Release Date : 30.05.2014	Protocol : IS Method						
Test Report No. : JA/140525/43/2014/168	Sample Description : Ambient Air						
Sampling Date : 22.05.2014 to 23.05.2014	Type of Industry : Coated Steel Plant						
Name of Industry: Tata Blue Scope Steel Ltd. At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near Main Gate						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>34.0</td> <td>45.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	34.0	45.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
34.0	45.0	753					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						


SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	164.96	500
2	Particulate Matter $\text{PM}_{10}$ $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	67.23	100
3	Particulate Matter $\text{PM}_{2.5}$ $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	36.12	60
4	Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	27.28	80
5	Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	23.29	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.19	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.79	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.41	2
10	Ammonia ( $\text{NH}_3$ ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	13.01	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.159	1
12	Ozone ( $\text{O}_3$ ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.1	180
13	Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.25	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

  
Dr. Dibyendu Banerjee  
M.Sc, M.Phil, Phd, PD  
Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF MAY)

Report Release Date : 30.05.2014	Protocol : IS Method
Test Report No. : JA/140525/44/2014/169	Sample Description : Ambient Air
Sampling Date : 22.05.2014 to 23.05.2014	Type of Industry : Coated Steel Plant
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near L.P.G Storage Area
Customer Rep. : Mr. Samresh Kumar	Average Temperature (°C) : 34.0 Average Relative Humidity (%) : 45.0 Average Barometric Pressure (mm of Hg) : 753
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron $(\mu\text{g}/\text{M}^3)$ )	IS 5182:Part 23:2006	161.86	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	63.08	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	46.35	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	25.45	80
5	Nitrogen Dioxide (NO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	22.31	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.22	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.05	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.39	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.05	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.151	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.2	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.32	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

Dr. Dibyendu Banerjee

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF MAY)

Report Release Date : 30.05.2014	Protocol : IS Method
Test Report No. : JA/140525/45/2014/170	Sample Description : Ambient Air
Sampling Date : 23.05.2014 to 24.05.2014	Type of Industry : Coated Steel Plant
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : S.R.L Pack Line North Area
Customer Rep. : Mr. Samresh Kumar	Average Temperature (°C) : 34.0
	Average Relative Humidity (%) : 45.0
	Average Barometric Pressure (mm of Hg) : 753
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	168.47	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	71.31	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	38.63	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	24.45	80
5	Nitrogen Dioxide (NO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	20.34	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.14	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.06	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.42	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	11.91	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.172	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.9	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.46	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

**Dr. Dibyendu Banerjee**

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF MAY)

Report Release Date : 30.05.2014	Protocol : IS Method						
Test Report No. : JA/140525/46/2014/171	Sample Description : Ambient Air						
Sampling Date : 23.05.2014 to 24.05.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara. P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near Nitrogen Plant Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>34.0</td> <td>45.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	34.0	45.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
34.0	45.0	753					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	163.99	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	67.72	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	28.31	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	24.81	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	21.65	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.15	1.0
7	Arsenic (As), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	12.34	20
9	Carbon Monoxide (CO), mg/m <sup>3</sup>	NDIR SPECTROSCOPY	0.53	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.49	400
11	Benzo(Alpha) Pyrene, ng/m <sup>3</sup>	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.146	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.7	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.39	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

Dr. Dibyendu Banerjee

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

NOTE: 1) This certificate refers to the values obtained at the time of testing and results related to the items tested

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# Eco Care

Annexure VIII

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Specialised House on Environmental Monitoring, Analysis, Assessment & Management

Manoj Talkies, (Basement Floor)

Kumarpur, Asansol - 713304

Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JUNE)

Report Release Date : 30.06.2014	Protocol : IS Method						
Test Report No. : JA/140617/63/2014/241	Sample Description : Ambient Air						
Sampling Date : 23.06.2014 to 24.06.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near Main Gate						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>37.0</td> <td>42.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	37.0	42.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
37.0	42.0	753					
	Sample Drawn by : ECO CARE (Mr. Rajeev Kumar & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{m}^3$ ))	IS 5182:Part 23:2006	156.55	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	60.63	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	28.79	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	25.73	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	21.87	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.21	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.92	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.37	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.91	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.167	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.89	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.29	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
**Dr. Dibyendu Banerjee**  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

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 Kumarpur, Asansol - 713304  
 Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JUNE)

Report Release Date : 30.06.2014	Protocol : IS Method						
Test Report No. : JA/140617/64/2014/242	Sample Description : Ambient Air						
Sampling Date : 23.06.2014 to 24.06.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near L.P.G Storage Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>37.0</td> <td>42.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	37.0	42.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
37.0	42.0	753					
	Sample Drawn by : ECO CARE (Mr. Rajeev Kumar & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron $\mu\text{g}/\text{M}^3$ )	IS 5182:Part 23:2006	155.83	500
2	Particulate Matter $\text{PM}_{10}$ $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	57.97	100
3	Particulate Matter $\text{PM}_{2.5}$ $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	38.83	60
4	Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	23.90	80
5	Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	20.34	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.27	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.96	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.43	2
10	Ammonia ( $\text{NH}_3$ ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	11.97	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.147	1
12	Ozone ( $\text{O}_3$ ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.6	180
13	Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.38	5

\*\*BDL = Below Detectable Limits \*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
**Dr. Dibyendu Banerjee**  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JUNE)

Report Release Date : 30.06.2014	Protocol : IS Method						
Test Report No. : JA/140617/65/2014/243	Sample Description : Ambient Air						
Sampling Date : 24.06.2014 to 25.06.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : S.R.L Pack Line North Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>36.0</td> <td>49.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	36.0	49.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
36.0	49.0	753					
	Sample Drawn by : ECO CARE (Mr. Rajeev Kumar & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{m}^3$ ))	IS 5182:Part 23:2006	160.81	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	65.77	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	32.40	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	22.89	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	18.71	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.19	1.0
7	Arsenic (As), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	11.89	20
9	Carbon Monoxide (CO), mg/m <sup>3</sup>	NDIR SPECTROSCOPY	0.35	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.08	400
11	Benzo(Alpha) Pyrene, ng/m <sup>3</sup>	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.167	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.6	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.41	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
**Dr. Dibyendu Banerjee**  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JUNE)

Report Release Date : 30.06.2014	Protocol : IS Method						
Test Report No. : JA/140617/66/2014/244	Sample Description : Ambient Air						
Sampling Date : 24.06.2014 to 25.06.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near Nitrogen Plant Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>36.0</td> <td>49.0</td> <td>753</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	36.0	49.0	753
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
36.0	49.0	753					
	Sample Drawn by : ECO CARE (Mr. Rajeev Kumar & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	156.87	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	62.82	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	41.71	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	22.98	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	20.23	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.19	1.0
7	Arsenic (As), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), ng/m <sup>3</sup>	AAS METHOD AFTER SAMPLING	12.55	20
9	Carbon Monoxide (CO), mg/m <sup>3</sup>	NDIR SPECTROSCOPY	0.67	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.08	400
11	Benzo(Alpha) Pyrene, ng/m <sup>3</sup>	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.151	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.4	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.43	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
**Dr. Dibyendu Banerjee**  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JULY)

Report Release Date : 12.07.2014	Protocol : IS Method						
Test Report No. : JA/140705/92/2014/351	Sample Description : Ambient Air						
Sampling Date : 03.07.2014 to 04.07.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : Near Main Gate						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.0</td> <td>71.0</td> <td>752</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.0	71.0	752
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.0	71.0	752					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron $\mu\text{g}/\text{M}^3$ )	IS 5182:Part 23:2006	153.45	500
2	Particulate Matter $\text{PM}_{10}$ $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	58.22	100
3	Particulate Matter $\text{PM}_{2.5}$ $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	31.12	60
4	Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	26.00	80
5	Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	20.78	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.23	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.01	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.34	2
10	Ammonia ( $\text{NH}_3$ ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.97	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.162	1
12	Ozone ( $\text{O}_3$ ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.96	180
13	Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.31	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

Dr. Dibyendu Banerjee

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JULY)

Report Release Date : 12.07.2014	Protocol : IS Method						
Test Report No. : JA/140705/93/2014/352	Sample Description : Ambient Air						
Sampling Date : 03.07.2014 to 04.07.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near L.P.G Storage Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.0</td> <td>71.0</td> <td>752</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.0	71.0	752
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.0	71.0	752					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	153.31	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	55.96	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	39.11	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	23.07	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	20.01	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.25	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.85	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.46	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	11.91	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.149	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.4	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.36	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
**Dr. Dibyendu Banerjee**  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JULY)

Report Release Date : 12.07.2014	Protocol : IS Method						
Test Report No. : JA/140705/94/2014/353	Sample Description : Ambient Air						
Sampling Date : 04.07.2014 to 05.07.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : S.R.L Pack Line North Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>29.0</td> <td>71.0</td> <td>752</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	29.0	71.0	752
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
29.0	71.0	752					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	159.74	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	63.40	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	41.15	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	22.07	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	18.60	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.21	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.85	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.33	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.02	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.161	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.6	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.37	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
Dr. Dibyendu Banerjee  
M.Sc, M.Phil, Phd, PD  
Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF JULY)

Report Release Date : 12.07.2014	Protocol : IS Method
Test Report No. : JA/140705/95/2014/354	Sample Description : Ambient Air
Sampling Date : 04.07.2014 to 05.07.2014	Type of Industry : Coated Steel Plant
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near Nitrogen Plant Area
	Average Temperature (°C) : 29.0
Customer Rep. : Mr. Samresh Kumar	Average Relative Humidity (%) : 71.0
	Average Barometric Pressure (mm of Hg) : 752
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	156.15	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	61.16	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	36.82	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	22.80	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	19.47	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.21	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.51	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.66	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.03	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.154	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.2	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.46	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

*Dr. Dibyendu Banerjee*  
**Dr. Dibyendu Banerjee**  
 M.Sc, M.Phil, Phd, PD  
 Technical Manager/Sr. Scientist  
 (Authorised Signatory)

Sampling Witnessed By : Unit Representative

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# Eco Care

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Annexure VIII

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Kumarpur, Asansol - 713304

Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF AUGUST)

Report Release Date : 29.08.2014	Protocol : IS Method
Test Report No. : JA/140808/117/2014/471	Sample Description : Ambient Air
Sampling Date : 22.08.2014 to 23.08.2014	Type of Industry : Coated Steel Plant
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near Main Gate
Customer Rep. : Mr. Samresh Kumar	Average Temperature (°C) : 30.0
	Average Relative Humidity (%) : 72.0
	Average Barometric Pressure (mm of Hg) : 750
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	167.26	500
2	Particulate Matter $\text{PM}_{10}$ $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	65.07	100
3	Particulate Matter $\text{PM}_{2.5}$ $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	36.25	60
4	Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	25.46	80
5	Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	24.93	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.25	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.91	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.31	2
10	Ammonia ( $\text{NH}_3$ ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.88	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.169	1
12	Ozone ( $\text{O}_3$ ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.06	180
13	Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.29	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

  
Dr. Dibyendu Banerjee

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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Dist. Burdwan (West Bengal)

## AMBIENT AIR QUALITY TEST REPORT (MONTH OF AUGUST)

Report Release Date : 29.08.2014	Protocol : IS Method						
Test Report No. : JA/140808/118/2014/472	Sample Description : Ambient Air						
Sampling Date : 22.08.2014 to 23.08.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near L.P.G Storage Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>30.0</td> <td>72.0</td> <td>750</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	30.0	72.0	750
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
30.0	72.0	750					
Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)							

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	159.64	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	67.77	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	31.25	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	30.67	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	25.69	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.21	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.98	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.40	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	11.75	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.137	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	11.7	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.32	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

**Dr. Dibyendu Banerjee**

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF AUGUST)

Report Release Date : 29.08.2014	Protocol : IS Method						
Test Report No. : JA/140808/119/2014/473	Sample Description : Ambient Air						
Sampling Date : 23.08.2014 to 24.08.2014	Type of Industry : Coated Steel Plant						
Name of Industry: <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR – 831 009, Jharkhand	Sampling Location : S.R.L Pack Line North Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>30.0</td> <td>72.0</td> <td>752</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	30.0	72.0	752
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
30.0	72.0	752					
	Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)						

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	169.39	500
2	Particulate Matter $\text{PM}_{10}$ $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	70.01	100
3	Particulate Matter $\text{PM}_{2.5}$ $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	37.54	60
4	Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	25.73	80
5	Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	26.13	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.23	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	11.70	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.31	2
10	Ammonia ( $\text{NH}_3$ ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.13	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.169	1
12	Ozone ( $\text{O}_3$ ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.4	180
13	Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.36	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks : Nil

For ECO CARE

  
**Dr. Dibyendu Banerjee**

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist  
(Authorised Signatory)

Sampling Witnessed By : Unit Representative

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## AMBIENT AIR QUALITY TEST REPORT (MONTH OF AUGUST)

Report Release Date : 29.08.2014	Protocol : IS Method						
Test Report No. : JA/140808/120/2014/474	Sample Description : Ambient Air						
Sampling Date : 23.08.2014 to 24.08.2014	Type of Industry : Coated Steel Plant						
<b>Name of Industry:</b> <b>Tata Blue Scope Steel Ltd.</b> At. Bara, P.O. Agrico JAMSHEDPUR - 831 009, Jharkhand	Sampling Location : Near Nitrogen Plant Area						
Customer Rep. : Mr. Samresh Kumar	<table border="1"> <tr> <td>Average Temperature (°C)</td> <td>Average Relative Humidity (%)</td> <td>Average Barometric Pressure (mm of Hg)</td> </tr> <tr> <td>30.0</td> <td>72.0</td> <td>750</td> </tr> </table>	Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	30.0	72.0	750
Average Temperature (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)					
30.0	72.0	750					
Sample Drawn by : ECO CARE (Mr. Sisir Kr. Roy & Team)							

SL NO	TESTS	PROTOCOL	RESULT	Limit as per NAAQS
1	SPM $\mu\text{g}/\text{m}^3$ (>10 micron ( $\mu\text{g}/\text{M}^3$ ))	IS 5182:Part 23:2006	166.65	500
2	Particulate Matter PM <sub>10</sub> $\mu\text{g}/\text{m}^3$	IS 5182:Part 23:2006	68.45	100
3	Particulate Matter PM <sub>2.5</sub> $\mu\text{g}/\text{m}^3$	USEPA CFR40(50), Appendix L	34.37	60
4	Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 2:2001	27.65	80
5	Nitrogen Dioxide (NO <sub>x</sub> ), $\mu\text{g}/\text{m}^3$	IS 5182:Part 6:2006	23.62	80
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	AAS METHOD AFTER SAMPLING	0.23	1.0
7	Arsenic (As), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	B.D.L	6
8	Nickel (Ni), $\text{ng}/\text{m}^3$	AAS METHOD AFTER SAMPLING	12.42	20
9	Carbon Monoxide (CO), $\text{mg}/\text{m}^3$	NDIR SPECTROSCOPY	0.61	2
10	Ammonia (NH <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	INDO PHENOL BLUE METHOD	12.11	400
11	Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.159	1
12	Ozone (O <sub>3</sub> ), $\mu\text{g}/\text{m}^3$	CHEMICAL METHOD	12.1	180
13	Benzene (C <sub>6</sub> H <sub>6</sub> ), $\mu\text{g}/\text{m}^3$	ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS	0.41	5

\*\*BDL = Below Detectable Limits

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Remarks

: Nil

For ECO CARE

**Dr. Dibyendu Banerjee**

M.Sc, M.Phil, Phd, PD

Technical Manager/Sr. Scientist

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