



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No.	ME-NS0055-130524-SA-INDIABUL-NASHIK		Date: 24.05.2013
Name and Address of Customer	INDIABULLS REALTECH LTD. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Boiler House	Sample Quantity/Packing	PM ₁₀ , BaP, Ni, As, Pb: Filter Paper: 1 X 3 no. PM _{2.5} : Filter Paper: 1 X 1 no. SO ₂ :30 mL X 6 no. Plastic Bottle NO ₂ :30 mL X 6 no. Plastic Bottle NH ₃ :30 mL X 6 no. Plastic Bottle CO: Plastic bulb 1 X 3 no. O ₃ : 10 mL X 24 no. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 no. Mercury: 30 mL X 6 no. Amber colour bottle
Date of Sampling	16.05.2013 to 17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	23.05.2013

Meteorological Data				
Average Wind velocity 1.58 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		64	20	38
Location : Near Boiler House			Duration of Survey : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	9.80	µg/m ³	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.1
Nitrogen Dioxide (NO ₂)	9.91	µg/m ³	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.7
Particulate Matter (size less than 10 µm) or PM ₁₀	73	µg/m ³	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.11

Page 1 of 2



Report No.0055 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial , Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5µm) or PM _{2.5}	30	µg/m ³	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.15
Ozone (O ₃)	80.3	µg/m ³	100	APHA, Method No. 820, Page No. 836
Lead (Pb)	BDL (DL: 0.02)	µg/m ³	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	ND	mg/m ³	02	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume II, May 2011,Page No.16
Ammonia (NH ₃)	BDL (DL: 20)	µg/m ³	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume II, May 2011,Page No.35
Benzene (C ₆ H ₆)	4.1	µg/m ³	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL: 0.2)	ng/m ³	01	IS 5182 (Part 12): 2004
Arsenic (As)	BDL (DL: 0.3)	ng/m ³	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	BDL (DL: 3)	ng/m ³	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ND	ng/m ³	-	APHA, Method No. 318, Page no. 492
Remarks: ND – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia, 1 h TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No.	ME-NS0054-130524-SA-INDIABUL-NASHIK		Date: 24.05.2013
Name and Address of Customer	INDIABULLS REALTECH LTD. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Weigh Bridge	Sample Quantity/Packing	PM ₁₀ , BaP, Ni, As, Pb: Filter Paper: 1 X 3 no. PM _{2.5} : Filter Paper: 1 X 1 no. SO ₂ :30 mL X 6 no. Plastic Bottle NO ₂ :30 mL X 6 no. Plastic Bottle NH ₃ :30 mL X 6 no. Plastic Bottle CO: Plastic bulb 1 X 3 no. O ₃ : 10 mL X 24 no. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 no. Mercury: 30 mL X 6 no. Amber colour bottle
Date of Sampling	16.05.2013 to 17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	23.05.2013

Meteorological Data				
Average Wind velocity 1.58 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		64	20	38
Location : Near Weigh Bridge			Duration of Survey : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	8.49	µg/m ³	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.1
Nitrogen Dioxide (NO ₂)	8.99	µg/m ³	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.7
Particulate Matter (size less than 10 µm) or PM ₁₀	44	µg/m ³	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.11

Page 1 of 2

Report No.0054 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial , Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5µm) or PM _{2.5}	29	µg/m ³	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.15
Ozone (O ₃)	80.8	µg/m ³	100	APHA, Method No. 820, Page No. 836
Lead (Pb)	BDL (DL:0.02)	µg/m ³	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m ³	02	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume II, May 2011,Page No.16
Ammonia (NH ₃)	BDL (DL: 20)	µg/m ³	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume II, May 2011,Page No.35
Benzene (C ₆ H ₆)	BDL (DL: 1)	µg/m ³	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL:0.2)	ng/m ³	01	IS 5182 (Part 12): 2004
Arsenic (As)	BDL (DL:0.3)	ng/m ³	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	BDL (DL: 3)	ng/m ³	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ND	ng/m ³	-	APHA, Method No. 318, Page no. 492
Remarks: ND – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia, 1 h TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



 Harish Mendhi
TECHNICAL MANAGER


Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No.	ME-NS0053-130524-SA-INDIABUL-NASHIK		Date: 24.05.2013
Name and Address of Customer	INDIABULLS REALTECH LTD. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near IRL Office	Sample Quantity/Packing	PM ₁₀ , BaP, Ni, As, Pb: Filter Paper: 1 X 3 no. PM _{2.5} : Filter Paper: 1 X 1 no. SO ₂ :30 mL X 6 no. Plastic Bottle NO ₂ :30 mL X 6 no. Plastic Bottle NH ₃ :30 mL X 6 no. Plastic Bottle CO: Plastic bulb 1 X 3 no. O ₃ : 10 mL X 24 no. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 no. Mercury: 30 mL X 6 no. Amber colour bottle
Date of Sampling	16.05.2013 to 17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	23.05.2013

Meteorological Data				
Average Wind velocity 1.58 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		64	20	38
Location : Near IRL Office			Duration of Survey : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	6.53	µg/m ³	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.1
Nitrogen Dioxide (NO ₂)	6.25	µg/m ³	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.7
Particulate Matter (size less than 10 µm) or PM ₁₀	26	µg/m ³	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.11

Page 1 of 2

Report No.0053 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial , Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5µm) or PM _{2.5}	15	µg/m ³	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume I, May 2011,Page No.15
Ozone (O ₃)	65.4	µg/m ³	100	APHA, Method No. 820, Page No. 836
Lead (Pb)	BDL (DL:0.02)	µg/m ³	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	ND	mg/m ³	02	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume II, May 2011,Page No.16
Ammonia (NH ₃)	BDL (DL: 4)	µg/m ³	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants ,Volume II, May 2011,Page No.35
Benzene (C ₆ H ₆)	4.1	µg/m ³	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL:0.2)	ng/m ³	01	IS 5182 (Part 12): 2004
Arsenic (As)	BDL (DL:0.3)	ng/m ³	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	BDL (DL: 3)	ng/m ³	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ND	ng/m ³	-	APHA, Method No. 318, Page no. 492
Remarks: ND – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia, 1 h TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


Harish Mendhi
TECHNICAL MANAGER


Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Noise Monitoring Report

Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) (Phase-I) Indiabulls Industrial Infrastructure Ltd. (Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.
Date of Sampling – 16.05.2013 to 17.05.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near weigh bridge	14.00 h	64
		01.10 h	50
2.	Near IRL Office	14.35 h	60
		02.00 h	49
3.	Near Boiler Area	15.10 h	69
		02.40 h	51
Noise Level Standards			
As per MPCB Limit			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Page 1 of 1



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Soil Sample Analysis Report

Report No.	ME-NS0061-130522-SA-INDIABULLS-NASHIK		Date: 22.05.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Soil	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	1 kg x 1 no. Plastic bag
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	22.05.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Sandy	-	WLII Sec.B2,Page No.6
2.	Moisture	1.13	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	7.92	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	0.177	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.79	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	267	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	36.3	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	177	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	292	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	160	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	28.9	meq/100g	FAO Sec. III .7-2, Page No. 104

Remarks:

Note- All results are on air dry basis.

WLII- Wildlife Institute of India.

FAO- Food & Agriculture Organization, United Nations.

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Harish Mendhi

TECHNICAL MANAGER

Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.

Page 1 of 1

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111

Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Soil Sample Analysis Report

Report No.	ME-NS0060-130522-SA-INDIABULLS-NASHIK		Date: 22.05.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Soil	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	1 kg X 1 no. plastic bag
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	22.05.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Gravel	-	WLII Sec.B2,Page No.6
2.	Moisture	1.07	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	7.95	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	0.204	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.98	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	264	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	36.7	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	143	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	146	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	160	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	37.8	meq/100g	FAO Sec. III .7-2, Page No. 104

Remarks:

Note- All results are on air dry basis.

WLII- Wildlife Institute of India.

FAO- Food & Agriculture Organization, United Nations.

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Soil Sample Analysis Report

Report No.	ME-NS0062-130522-SA-INDIABULLS-NASHIK		Date: 22.05.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Soil	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	1 kg x 1 no. Plastic bag
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	22.05.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Sandy	-	WLII Sec.B2,Page No.6
2.	Moisture	1.13	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	7.56	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25 °C)	0.253	Mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.83	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	251	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	33.2	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	70.3	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	292	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	120	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	21.9	meq/100g	FAO Sec. III .7-2, Page No. 104

Remarks:

Note: All results are on air dry basis.

WLII: Wildlife Institute of India.

FAO: Food & Agriculture Organization, United Nations.

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

**Note:**

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
 (600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Water Sample Analysis Report

Report No.	ME-NS0052-130524-WA-INDIABULLS-NASHIK		Date: 24.05.2013
Name and Address of Customer	INDIABULLS REALTECH LTD. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Water	Sample Collected by	Laboratory
Sampling Location	IRL Canteen	Sample Quantity/Packing	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle 250 ml x 1 no. sterile glass bottle
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	IS 1622:1981,Reaffirmed 2009 & IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 nd Ed.2012,1060 B,1-39,9060 B,9-35		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	23.05.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	1	Hazen Unit	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-6
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	BDL (DL: 0.1)	N.T.U.	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	7.09	-	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	BDL (DL: 5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Biochemical Oxygen Demand (3 days,27°C)	BDL (DL: 5)	mg/L	-	IS 3025 (Part 44):1993, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	BDL (DL: 5)	mg/L	-	APHA 22 nd Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	BDL (DL: 1)	mg/L	-	APHA 22 nd Ed. 2012, 5220-B, 5-40
9.	Total Dissolved Solids	26	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006
10.	Dissolved Oxygen	7.1	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

Page 1 of 3



Report No.0052 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	BDL (DL:0.5)	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	10	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	9.7	mg/L	Max. 200	APHA, 22 nd Ed., 2012, 2340 C, 2-44
14.	Calcium (as Ca)	BDL (DL:0.4)	mg/L	Max. 75	APHA, 22 nd Ed., 2012, 3500-B, 3-67
15.	Magnesium (as Mg)	2.36	mg/L	Max. 30	APHA, 22 nd Ed., 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
17.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
18.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
19.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
20.	Iron (as Fe-Dissolved)	BDL (DL:0.08)	mg/L	-	APHA, 22 nd Ed., 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	BDL (DL:0.08)	mg/L	-	APHA, 22 nd Ed., 2012, 3111-B, 3-18
22.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	BDL(DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
24.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
25.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
26.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
27.	Nickel (as Ni)	BDL (DL:0.01)	mg/L	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	BDL (DL:0.2)	mg/L	-	IS 3025 (Part 2): 2004
29.	Sodium(as Na)	5.7	mg/L	-	IS 3025 (Part45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	0.1	mg/L	-	IS 3025 (Part 45): 1993, Reaffirmed 2009



Report No. 0052 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	4.4	mg/L	Max. 250	APHA, 22 nd Ed., 2012, 4500-Cl, B,4-72
32.	Sulphate (as SO ₄)	2.83	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	BDL (DL:0.05)	mg/L	Max. 1	APHA, 22 nd Ed., 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO ₄)	BDL (DL:0.03)	mg/L	-	APHA, 22 nd Ed. 2012, 4500 P,E, 4-155
35.	Nitrate (as NO ₃)	BDL(DL: 1)	mg/L	Max. 45	APHA, 22 nd Ed., 2012, 4500-NO ₃ ,B-4-122
36.	Dissolved Silica (as SiO ₂)	1.16	mg/L	-	APHA, 22 nd Ed., 2012, 4500-SiO ₂ , D,4-169
37.	Hydrogen Sulphide (as H ₂ S)	BDL (DL:0.08)	mg/L	-	IS 5182 (Part VII): 1973, Reaffirmed 2009,Amds.1
38.	Carbon Dioxide	2.59	mg/L	-	APHA, 22 nd Ed., 2012, 4500- CO ₂ C,4-31
39.	Permanganate Value at 25°C	BDL (DL:0.1)	mg/L	-	IS 3025 (Part 63): 2007
Microbiological Analysis					
40	Total Coliforms	Absent	/100mL	Not Detectable	APHA, 22 nd Ed., 2012, 9221-D, 9-73
41.	<i>E. coli</i>	Absent	/100mL	Not Detectable	APHA, 22 nd Ed., 2012, 9221-G, 9-76
Remarks: BDL: Below Detection Limit, DL: Detection Limit.					

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Water Sample Analysis Report

Report No.	ME-NS0050-130524-SA-INDIABULLS-NASHIK		Date: 24.05.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	IS 1622:1981,Reaffirmed 2009 & IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 nd Ed.2012,1060 B,1-39,9060 B,9-35		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	22.05.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	2	Hazen Units	Max. 5	APHA, 22 nd Ed., 2012, 2120-B, 2-26
2.	Odour	Agreeble	-	Agreeble	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	1.6	N.T.U.	Max. 1	APHA, 22 nd Ed., 2012, 2130-B,2-13
4.	pH	7.92	-	6.5-8.5	APHA, 22 nd Ed., 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Total Dissolved Solids	676	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	7.5	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
8.	Alkalinity (as CaCO ₃)	238	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	340	mg/L	Max. 200	APHA, 22 nd Ed., 2012, 2340 C, 2-44
10.	Calcium (as Ca)	62.2	mg/L	Max. 75	APHA,22 nd Ed., 2012, 3500-B, 3-65
11.	Magnesium (as Mg)	44.9	mg/L	Max. 30	APHA, 22 nd Ed., 2012 , 3500-Mg, B, 3-84
12.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 nd Ed., 2012, 3500-AI-B, 3-61
13.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

Page 1 of 2



Report No. 0050 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
16.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	0.09	mg/L	Max. 0.3	APHA ,22 nd Ed.2012,3111-B,3-18
18.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	0.05	mg/L	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	0.28	mg/L	Max. 0.5	APHA, 22 nd Ed., 2012, 4500-B -C,4-27
24.	Residual free chlorine	BDL (DL:0.1)	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1(2004-02)
25.	Chloride (as Cl)	183	mg/L	Max. 250	APHA,22 nd Ed., 2012, 4500-Cl, B,4-72
26.	Sulphate (as SO ₄)	56.2	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	0.63	mg/L	Max. 1	APHA, 22 nd Ed., 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	21.8	mg/L	Max. 45	APHA, 22 nd Ed.,2012, 4500-NO3, B -4-122
29.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 22 nd Ed., 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C ₆ H ₅ OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 22 nd Ed., 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	BDL (DL:0.2)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

Remark: BDL- Below Detection Limit, DL- Detection Limit.

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Water Sample Analysis Report

Report No.	ME-NS0049-130524-WA-INDIABULLS-NASHIK		Date: 24.05.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulwanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Gulwanch	Sample Quantity/Packing	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	IS 1622:1981,Reaffirmed 2009 & IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 nd Ed.2012,1060 B,1-39,9060 B,9-35		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	22.05.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	2	Hazen Units	Max. 5	APHA, 22 nd Ed., 2012, 2120-B, 2-26
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	0.7	N.T.U.	Max. 1	APHA, 22 nd Ed., 2012, 2130-B,2-13
4.	pH	7.91	-	6.5-8.5	APHA, 22 nd Ed., 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Total Dissolved Solids	820	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	7.8	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
8.	Alkalinity (as CaCO ₃)	268	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	378	mg/L	Max. 200	APHA, 22 nd Ed., 2012, 2340 C, 2-44
10.	Calcium (as Ca)	48.6	mg/L	Max. 75	APHA,22 nd Ed., 2012, 3500-B, 3-65
11.	Magnesium (as Mg)	62.4	mg/L	Max. 30	APHA, 22 nd Ed., 2012 , 3500-Mg, B, 3-84
12.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 nd Ed., 2012, 3500-AI-B, 3-61
13.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

Page 1 of 2



Report No.0049 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
16.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	0.16	mg/L	Max. 0.3	IS 3025 (Part 2):2004
18.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	0.005	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	0.61	mg/L	Max. 0.5	APHA, 22 nd Ed., 2012, 4500-B -C,4-27
24.	Residual free chlorine	BDL (DL:0.1)	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1(2004-02)
25.	Chloride (as Cl)	227	mg/L	Max. 250	APHA,22 nd Ed., 2012, 4500-Cl, B,4-72
26.	Sulphate (as SO ₄)	95.8	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	0.92	mg/L	Max. 1	APHA, 22 nd Ed., 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	21.7	mg/L	Max. 45	APHA, 22 nd Ed.,2012, 4500-NO3, B -4-122
29.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 22 nd Ed., 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C ₆ H ₅ OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 22 nd Ed., 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	BDL (DL:0.2)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	Present	/100ml	Not Detectable	APHA,22 nd Ed.,2012,9221-D,9-73
33.	<i>E.Coli</i>	Present	/100ml	Not Detectable	APHA,22 nd Ed.,2012,9221-D,9-73
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111
Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Water Sample Analysis Report

Report No.	ME-NS0051-130524-WA-INDIABULLS-NASHIK		Date: 24.05.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 dt. 18.11.2011 Amendment 1 dt.02.01.2013
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle 250 ml x 1 no. sterile glass bottle
Date of Sampling	17.05.2013	Date of Receipt of Sample	17.05.2013
Sampling Procedure	IS 1622:1981,Reaffirmed 2009 & IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 nd Ed.2012,1060 B,1-39,9060 B,9-35		
Date of Start of Analysis	20.05.2013	Date of Completion of Analysis	22.05.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	1	Hazen Units	Max. 5	APHA, 22 nd Ed., 2012, 2120-B, 2-26
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	0.5	N.T.U.	Max. 1	APHA, 22 nd Ed., 2012, 2130-B,2-13
4.	pH	7.55	-	6.5-8.5	APHA, 22 nd Ed., 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Total Dissolved Solids	840	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	6.2	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
8.	Alkalinity (as CaCO ₃)	288	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	703	mg/L	Max. 200	APHA, 22 nd Ed., 2012, 2340 C, 2-44
10.	Calcium (as Ca)	140	mg/L	Max. 75	APHA,22 nd Ed., 2012, 3500-B, 3-65
11.	Magnesium (as Mg)	86	mg/L	Max. 30	APHA, 22 nd Ed., 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 nd Ed., 2012, 3500-AI-B, 3-61
13.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004



Report No. 0051 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
16.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	IS 3025 (Part 2):2004
18.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	6.03	mg/L	Max. 0.5	APHA, 22 nd Ed., 2012, 4500-B -C,4-27
24.	Residual free chlorine	BDL (DL:0.1)	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1(2004-02)
25.	Chloride (as Cl)	208	mg/L	Max. 250	APHA,22 nd Ed., 2012, 4500-Cl, B,4-72
26.	Sulphate (as SO ₄)	84.2	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	0.61	mg/L	Max. 1	APHA, 22 nd Ed., 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	23.1	mg/L	Max. 45	APHA, 22 nd Ed.,2012, 4500-NO3, B -4-122
29.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 22 nd Ed., 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C ₆ H ₅ OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 22 nd Ed., 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	BDL (DL:0.2)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	Present	/100ml	Not Detectable	APHA,22 nd Ed.,2012,9221-D,9-73
33.	<i>E.Coli</i>	Present	/100ml	Not Detectable	APHA,22 nd Ed.,2012,9221-D,9-73
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Harish Mendhi
TECHNICAL MANAGER

Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.