



Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot 13/14 & 17/18 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0114-130716-SA-INDIABUL-NASHIK		Date: 16.07.2013	
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 , B(a)P, 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	09.07.2013 to 10.07.2013	Date of Receipt of Sample	10.07.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	10.07.2013	Date of Completion of Analysis	15.07.2013

Meteorological Data				
Average Wind velocity 2.18 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		92	77	27
Location : Near Weigh Bridge			Duration of Survey : 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	8.2	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	10.6	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	53	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Parameter	Unit	Result	# 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}	µg/m ³	25	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	40.6	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m ³	BDL (DL:0.02)	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	N.D.	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	BDL (DL:20)	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	µg/m ³	1.9	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	BDL (DL:0.5)	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m ³	BDL (DL:0.3)	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m ³	BDL (DL: 3)	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m ³	N.D.	-	APHA, Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia; 8 h. TWA in case of Carbon Monoxide; 1 h. TWA in case of Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Harish Mendhi
TECHNICAL MANAGER



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Ambient Air Quality Monitoring Report

Report No. : ME-NS0116-130716-SA-INDIABUL-NASHIK		Date: 16.07.2013	
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 , B(a)P, 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	09.07.2013 to 10.07.2013	Date of Receipt of Sample	10.07.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	10.07.2013	Date of Completion of Analysis	15.07.2013

Meteorological Data				
Average Wind velocity 2.18 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		92	77	27
Location : Near Boiler House			Duration of Survey : 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	10.2	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	12.3	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	76	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Parameter	Unit	Result	# 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}	µg/m ³	26	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	56.4	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m ³	BDL (DL:0.02)	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	N.D.	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	BDL (DL: 20)	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	µg/m ³	2.8	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	BDL (DL: 0.5)	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m ³	BDL (DL: 0.3)	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m ³	BDL (DL: 3)	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m ³	N.D.	-	APHA, Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia; 8 h. TWA in case of Carbon Monoxide; 1 h. TWA in case of Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0115-130716-SA-INDIABUL-NASHIK		Date: 16.07.2013	
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 , B(a)P, 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	09.07.2013 to 10.07.2013	Date of Receipt of Sample	11.07.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	15.07.2013

Meteorological Data				
Average Wind velocity 2.18 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		92	77	27
Location : Near IRL Office			Duration of Survey : 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	7.2	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	9.2	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	65	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Report No. 0115 cont...

Parameter	Unit	Result	# 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}	µg/m ³	23	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	41.2	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m ³	BDL (DL: 0.02)	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	N.D.	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	BDL (DL: 20)	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	µg/m ³	2.6	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	BDL (DL: 0.5)	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m ³	BDL (DL: 0.3)	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m ³	BDL (DL: 3)	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m ³	N.D.	-	APHA, Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia; 8 h. TWA in case of Carbon Monoxide; 1 h. TWA in case of Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

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Soil Sample Analysis Report

Report No. : ME-NS0126-130716-SA-INDIABULLS-NASHIK		Date: 16.07.2013	
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	10.07.2013	Date of Receipt of Sample	11.07.2013
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	15.07.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	5.06	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	7.97	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.219	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	1.19	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	355	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	35.2	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	132	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	146	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	481	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	44	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-

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Soil Sample Analysis Report

Report No. : ME-NS0127-130716-SA-INDIABULLS-NASHIK		Date: 16.07.2013	
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	10.07.2013	Date of Receipt of Sample	11.07.2013
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	15.07.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	6.13	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.11	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.138	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.94	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	258	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	33.6	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	167	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	122	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	200	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	32	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.

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Soil Sample Analysis Report

Report No. : ME-NS0128-130716-SA-INDIABULLS-NASHIK		Date: 16.07.2013	
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	Musalgaon	Sample Quantity/Packing	1 kg X 1 No. plastic Bag
Date of Sampling	10.07.2013	Date of Receipt of Sample	10.07.2013
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	15.07.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	5.34	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)	mS/cm	0.169	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	1.03	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	276	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	31.1	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	99.3	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	97.4	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	681	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	25.5	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-

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Water Sample Analysis Report

Report No. : ME-NS0125-130716-SA-INDIABULLS-NASHIK		Date: 16.07.2013	
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	Drinking Water	Sample Collected by	Laboratory
Sampling Location	IRL Pantry	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	10.07.2013	Date of Receipt of Sample	11.07.2013
Sampling Procedure	IS 1622:1981,Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012,1060 B, 1-39, 9060 A, 9-35		
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	15.07.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen Unit	1	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	BDL (DL:0.1)	Max. 1	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	pH	-	7.62	6.5-8.5	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	Suspended Solids	mg/L	BDL (DL:5)	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Biochemical Oxygen Demand (3 days 27 ^o C)	mg/L	BDL(DL:1)	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	5	-	APHA, 22 nd Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	mg/L	BDL (DL:0.5)	-	APHA, 22 nd Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	26	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	6.4	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

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Report No. 0125 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	BDL (DL: 1)	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	15	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	12	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	1.6	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	1.94	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	mg/L	BDL (DL:0.01)	Max. 0.01	IS 3025 (Part 2): 2004
17.	Cadmium (as Cd)	mg/L	BDL (DL:0.002)	Max. 0.003	IS 3025 (Part 2): 2004
18.	Chromium (as Cr ⁺⁶)	mg/L	BDL (DL:0.02)	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
19.	Copper (as Cu)	mg/L	BDL (DL:0.02)	Max. 0.05	IS 3025 (Part 2): 2004
20.	Iron (as Fe-Dissolved)	mg/L	BDL (DL:0.08)	-	APHA, 22 nd Ed. 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	mg/L	BDL (DL:0.08)	-	APHA, 22 nd Ed. 2012, 3111-B, 3-18
22.	Lead (as Pb)	mg/L	BDL (DL:0.008)	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	mg/L	BDL (DL:0.02)	Max. 0.1	IS 3025 (Part 2): 2004
24.	Mercury (as Hg)	mg/L	BDL (DL:0.0008)	Max. 0.001	IS 3025 (Part 2): 2004
25.	Selenium (as Se)	mg/L	BDL (DL:0.005)	Max. 0.01	IS 3025 (Part 2): 2004
26.	Zinc (as Zn)	mg/L	BDL (DL:0.05)	Max. 5	IS 3025 (Part 2): 2004
27.	Nickel (as Ni)	mg/L	BDL (DL:0.01)	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	mg/L	BDL (DL:0.2)	-	IS 3025 (Part 2): 2004
29.	Sodium(as Na)	mg/L	7.1	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.4	-	IS 3025 (Part 45): 1993, Reaffirmed 2009

Report No. 0125 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	5.0	Max. 250	APHA, 22 nd Ed. 2012, 4500-Cl, B,4-72
32.	Sulphate (as SO ₄)	mg/L	BDL (DL: 1)	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	BDL (DL:0.05)	Max. 1	APHA, 22 nd Ed. 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO ₄)	mg/L	BDL (DL:0.03)	-	APHA, 22 nd Ed. 2012, 4500 P, E, 4-155
35.	Nitrate (as NO ₃)	mg/L	BDL (DL:0.5)	Max. 45	APHA, 22 nd Ed. 2012, 4500-NO ₃ , E-4-125
36.	Dissolved Silica (as SiO ₂)	mg/L	1.28	-	APHA, 22 nd Ed. 2012, 4500-SiO ₂ , D,4-169
37.	Hydrogen Sulphide (as H ₂ S)	mg/L	BDL (DL:0.08)	-	APHA 22 nd Ed. 2012, 4500-S ² , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	2.6	-	APHA, 22 nd Ed. 2012, 4500-CO ₂ -C, 4-31
39.	Permanganate Value at 25 ^o C	mg/L	BDL (DL: 0.1)	-	IS 3025 (Part 63): 2007
Microbiological Analysis					
40	Total Coliforms	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
41.	E. coli	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks: BDL: Below Detection Limit, DL: Detection Limit.					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Water Sample Analysis Report

Report No. : ME-NS0124-130715-SA-INDIABULLS-NASHIK		Date: 15.07.2013	
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	Gulwanch	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle
Date of Sampling	10.07.2013	Date of Receipt of Sample	11.07.2013
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	15.07.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen Units	1	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Disagreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	1.4	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.03	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	7	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	680	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.4	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	260	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	452	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	48.9	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	80.2	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	BDL (DL:0.025)	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	BDL (DL:0.01)	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0124 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	mg/L	BDL (DL:0.002)	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr ⁺⁶)	mg/L	BDL (DL:0.02)	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	BDL (DL:0.02)	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	BDL (DL:0.08)	Max. 0.3	APHA 22 nd Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	BDL (DL:0.008)	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	BDL (DL:0.02)	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	BDL (DL:0.0008)	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	BDL (DL:0.005)	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	BDL (DL:0.05)	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.79	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	BDL (DL:0.01)	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	249	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	24.4	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.85	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	16.8	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
29.	Cyanide (as CN)	mg/L	BDL (DL:0.001)	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)	mg/L	BDL (DL:0.001)	Max. 0.001	APHA 22 nd Ed. 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	BDL (DL:0.005)	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

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

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Water Sample Analysis Report

Report No. : ME-NS0121-130715-SA-INDIABULLS-NASHIK		Date: 15.07.2013	
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 250mL X 1No.Sterile Glass Bottle
Date of Sampling	10.07.2013	Date of Receipt of Sample	10.07.2013
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	13.07.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen	1	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	BDL(DL:0.1)	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.52	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	BDL(DL:5)	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	840	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.3	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	330	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	776	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	162	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	90.4	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	BDL (DL:0.025)	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	BDL (DL:0.01)	Max. 0.01	IS 3025 (Part 2): 2004

Report No. 0121 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	mg/L	0.003	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr ⁺⁶)	mg/L	BDL (DL:0.02)	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	BDL (DL:0.02)	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	BDL (DL:0.08)	Max. 0.3	APHA 22 nd Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	BDL (DL:0.008)	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	BDL (DL:0.02)	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	BDL (DL:0.0008)	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	BDL (DL:0.005)	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	BDL (DL:0.05)	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	5.77	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B -C, 4-27
24.	Residual free chlorine	mg/L	BDL (DL:0.01)	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	209	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	31.6	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.85	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	17.0	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , E -4-125
29.	Cyanide (as CN)	mg/L	BDL (DL:0.001)	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)	mg/L	BDL (DL:0.001)	Max. 0.001	APHA 22 nd Ed. 2012, 5530- B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	BDL (DL:0.005)	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
33.	<i>E .coli</i>	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Water Sample Analysis Report

Report No. : ME-NS0122-130715-SA-INDIABULLS-NASHIK		Date: 15.07.2013	
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 250 mL X 1 No. Steralised Glass Bottle
Date of Sampling	10.07.2013	Date of Receipt of Sample	11.07.2013
Sampling Procedure	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39, 9060 A, 9-35		
Date of Start of Analysis	11.07.2013	Date of Completion of Analysis	13.07.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen	2	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	4.6	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.77	6.5-8.5	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92
5.	Suspended Solids	mg/L	22	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	534	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.2	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	216	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	330	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	56.5	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	46.2	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	BDL (DL:0.025)	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	BDL (DL:0.01)	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	BDL (DL:0.002)	Max. 0.003	IS 3025 (Part 2): 2004

Report No. 0122 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr ⁺⁶)	mg/L	BDL (DL:0.02)	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	BDL (DL:0.02)	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	BDL(DL:0.08)	Max. 0.3	APHA 22 nd Ed. 2012,3111-B,3-18
18.	Lead (as Pb)	mg/L	BDL (DL:0.008)	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	BDL (DL:0.02)	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	BDL (DL:0.0008)	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	BDL (DL:0.005)	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	0.06	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.50	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	BDL (DL:0.01)	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	184	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	13.1	Max. 200	IS 3025 (Part 24):1986, RA 2009
27.	Fluoride (as F)	mg/L	0.90	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	16.8	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , E -4-125
29.	Cyanide (as CN)	mg/L	BDL (DL:0.001)	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)	mg/L	BDL (DL:0.001)	Max. 0.001	APHA 22 nd Ed. 2012, 5530- B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	BDL(DL: 1)	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
33.	<i>E .coli</i>	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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