



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Ambient Air Quality Monitoring Report

<b>Report No. :</b> ME-NS0011-140417-SA-INDIABUL-NASHIK		<b>Date:</b> 17.04.2014	
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your Work Order No. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.16.01.2014
<b>Sample Description/Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near Weigh Bridge	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , B(a)P, Ni, As, Pb: Filter Paper 1 X 3 No. PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle NO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle NH <sub>3</sub> : 30 mL X 6 No. Plastic Bottle CO: Plastic Bulb 1 X 3 No. O <sub>3</sub> : 10 mL X 24 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
<b>Date of Sampling</b>	10.04.2014 to 11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.04.2014	<b>Date of Completion of Analysis</b>	17.04.2014

Meteorological Data				
Average Wind velocity 0.40 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		68	10	37
<b>Location :</b> Near Weigh Bridge		<b>Duration of Survey :</b> 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	< 4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	4.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

*Report No. 0011 cont...*

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	95	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	µg/m <sup>3</sup>	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.05	02	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m <sup>3</sup>	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m <sup>3</sup>	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m <sup>3</sup>	3.7	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m <sup>3</sup>	N.D.	-	APHA, Method No. 318, Page No. 492
<p><b>Remarks:</b> N.D. – Not Detected, TWA - Time Weighted Average.                      #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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</p>				

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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).
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## Ambient Air Quality Monitoring Report

<b>Report No. :</b> ME-NS0010-140417-SA-INDIABUL-NASHIK		<b>Date:</b> 17.04.2014	
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your Work Order No. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.16.01.2014
<b>Sample Description/Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near Boiler House	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , B(a)P, Ni, As, Pb: Filter Paper 1 X 3 No. PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle NO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle NH <sub>3</sub> : 30 mL X 6 No. Plastic Bottle CO: Plastic Bulb 1 X 3 No. O <sub>3</sub> : 10 mL X 24 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
<b>Date of Sampling</b>	10.04.2014 to 11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.04.2014	<b>Date of Completion of Analysis</b>	17.04.2014

Meteorological Data				
Average Wind velocity 0.40 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		68	10	37
<b>Location :</b> Near Boiler House			<b>Duration of Survey :</b> 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	< 4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	4.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

*Report No. 0010 cont...*

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	89	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	36	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	µg/m <sup>3</sup>	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.05	02	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m <sup>3</sup>	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m <sup>3</sup>	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m <sup>3</sup>	4.3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m <sup>3</sup>	N.D.	-	APHA, Method No. 318, Page No. 492
<p><b>Remarks:</b> N.D. – Not Detected, TWA - Time Weighted Average.  #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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</p>				

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**TECHNICAL MANAGER**



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## Ambient Air Quality Monitoring Report

<b>Report No. :</b> ME-NS0012-140417-SA-INDIABUL-NASHIK		<b>Date:</b> 17.04.2014	
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your Work Order No. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.16.01.2014
<b>Sample Description/Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near IRL Office	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , B(a)P, Ni, As, Pb: Filter Paper 1 X 3 No. PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle NO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle NH <sub>3</sub> : 30 mL X 6 No. Plastic Bottle CO: Plastic Bulb 1 X 3 No. O <sub>3</sub> : 10 mL X 24 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
<b>Date of Sampling</b>	10.04.2014 to 11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.04.2014	<b>Date of Completion of Analysis</b>	17.04.2014

Meteorological Data				
Average Wind velocity 0.40 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		68	10	37
<b>Location :</b> Near IRL Office		<b>Duration of Survey :</b> 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	< 4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	4.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

*Report No. 0012 cont...*

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	84	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	<10	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	µg/m <sup>3</sup>	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.22	02	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m <sup>3</sup>	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m <sup>3</sup>	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m <sup>3</sup>	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m <sup>3</sup>	N.D.	-	APHA, Method No. 318, Page No. 492
<p><b>Remarks:</b> N.D. – Not Detected, TWA - Time Weighted Average.                      #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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</p>				

-----END-----

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## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0008-140416-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd. (Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal.- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No.3320001083 Dated 8.11.2011, (Amendment Dated 16.01.2014)
<b>Sample Description/Type</b>	Ground Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Village Gulvanch	<b>Sample Quantity/Packing</b>	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 ml X 1 No. Sterile Glass Bottle
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39, 9060 A, 9-35		
<b>Date of Start of Analysis</b>	12.04.2014	<b>Date of Completion of Analysis</b>	16.04.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen	1	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	1.8	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	-	8.0	6.5-8.5	APHA 22 <sup>nd</sup> Ed.2012,4500-H <sup>+</sup> -B,4-92
5.	Suspended Solids	mg/L	6	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1096	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 <sub>3</sub> )	mg/L	261	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	400	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	48.1	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	68.0	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004

*Report No. 0008 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	<0.08	Max. 0.3	APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	<0.02	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	0.005	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.66	Max. 0.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.05	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	218	Max. 250	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	mg/L	117	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	1.10	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	mg/L	67.5	Max. 45	APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E -4-125
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 <sup>nd</sup> Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	<0.001	Max. 0.001	APHA 22 <sup>nd</sup> Ed. 2012, 5530- B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
<b>Microbiological Analysis</b>					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
33.	<i>E .coli</i>	/100 mL	Absent	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76

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 Harish Mendhi  
**TECHNICAL MANAGER**



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## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0009-140416-WA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd. (Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal.- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No. 3320001083 Dated 18.11.2011, (Amendment Dated 16.01.2014)
<b>Sample Description/Type</b>	Ground Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Village Kedarpur	<b>Sample Quantity/Packing</b>	5 L X 1 No. Plastic can 1 L X 1 No. Glass Bottle
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39		
<b>Date of Start of Analysis</b>	12.04.2014	<b>Date of Completion of Analysis</b>	16.04.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen	2	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	8.8	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	-	7.8	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	mg/L	14	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	908	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 <sub>3</sub> )	mg/L	156	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	540	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	120	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	58.3	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004

*Report No. 0009 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	0.32	Max. 0.3	APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	3.05	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	0.085	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.37	Max. 0.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-C, 4-27
24.	Residual free chlorine	mg/L	<0.05	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	244	Max. 250	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	mg/L	98.1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.5	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	mg/L	69.4	Max. 45	APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E -4-125
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 <sup>nd</sup> Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	<0.001	Max. 0.001	APHA 22 <sup>nd</sup> Ed. 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.




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**TECHNICAL MANAGER**

Note:

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## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0007-140416-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd. (Multiproduct SEZ), Village- Musalgaon & Gulvanch, Tal.- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No. 3320001083 Dtd 18.11.2011, (Amendment Dtd.16.01.2014)
<b>Sample Description/Type</b>	Ground Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Village Musalgaon	<b>Sample Quantity/Packing</b>	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 ml X 1 No. Sterile Glass Bottle
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	IS 1622: 1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39, 9060 A, 9-35		
<b>Date of Start of Analysis</b>	12.04.2014	<b>Date of Completion of Analysis</b>	16.04.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen Units	1	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	0.2	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	-	7.8	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	mg/L	<5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1052	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.8	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO <sub>3</sub> )	mg/L	264	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	614	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	110	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	82.6	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004

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*Report No. 0007 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	<0.08	Max. 0.3	APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	<0.02	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.34	Max. 0.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.05	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	318	Max. 250	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	mg/L	92.0	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.60	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	mg/L	74.8	Max. 45	APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , B -4-122
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 <sup>nd</sup> Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	<0.001	Max. 0.001	APHA 22 <sup>nd</sup> Ed. 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
<b>Microbiological Analysis</b>					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
33.	<i>E.coli</i>	/100 mL	Absent	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi  
**TECHNICAL MANAGER**



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## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0013-140416-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD. (SEZ Co-Developer)</b> Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No. 3320001083 Dated 18.11.2011,(Amendment Dated 16.01.2014)
<b>Sample Description/Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	IRL Pantry Cooler Outlet	<b>Sample Quantity/Packing</b>	5 L X 1 No. Plastic Can 300 ml X 1 No. DO. Glass bottle 250 mL X 1 No. Sterile Glass Bottle
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Sampling Procedure</b>	IS 1622:1981,Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 22 <sup>nd</sup> Ed. 2012,1060 B, 1-39, 9060 A, 9-35		
<b>Date of Start of Analysis</b>	11.04.2014	<b>Date of Completion of Analysis</b>	16.04.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen Unit	1	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	0.1	Max. 1	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	pH	-	7.0	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
5.	Suspended Solids	mg/L	<5	-	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -B, 4-92
6.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	<1	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	7	-	APHA, 22 <sup>nd</sup> Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	mg/L	<1	-	APHA, 22 <sup>nd</sup> Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	16	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.1	-	IS 3025 (Part 38): 1989, RA 2009

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Report No. 0013 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	mg/L	<1	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	mg/L	5	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	8	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	1.60	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	0.97	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004
17.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004
18.	Chromium (as Cr)	mg/L	0.031	Max. 0.05	IS 3025 (Part 2): 2004
19.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
20.	Iron (as Fe-Dissolved)	mg/L	<0.08	-	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	mg/L	<0.08	-	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
22.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	mg/L	0.23	Max. 0.1	IS 3025 (Part 2): 2004
24.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
25.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
26.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
27.	Nickel (as Ni)	mg/L	<0.01	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	mg/L	<0.2	-	IS 3025 (Part 2): 2004
29.	Sodium (as Na)	mg/L	2.6	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.3	-	IS 3025 (Part 45): 1993, Reaffirmed 2009

*Report No. 0013 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	3.5	Max. 250	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B,4-72
32.	Sulphate (as SO <sub>4</sub> )	mg/L	<1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	<0.05	Max. 1	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO <sub>4</sub> )	mg/L	<0.03	-	APHA, 22 <sup>nd</sup> Ed. 2012, 4500 P, E, 4-155
35.	Nitrate (as NO <sub>3</sub> )	mg/L	<1	Max. 45	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E-4-125
36.	Dissolved Silica (as SiO <sub>2</sub> )	mg/L	1.14	-	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-SiO <sub>2</sub> , D,4-169
37.	Hydrogen Sulphide (as H <sub>2</sub> S)	mg/L	<0.08	-	APHA 22 <sup>nd</sup> Ed. 2012, 4500-S <sup>2</sup> , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	2.6	-	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-CO <sub>2</sub> -C, 4-31
39.	Permanganate Value at 37 <sup>o</sup> C	mg/L	<0.1	-	IS 3025 (Part 63): 2007
<b>Microbiological Analysis</b>					
40.	Total Coliforms	MPN/100mL	Present	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
41.	E. coli	MPN/100mL	Absent	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76
<b>Remarks:</b>					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
 Harish Mendhi  
**TECHNICAL MANAGER**



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## Noise Monitoring Report

<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd. (SEZ Co-Developer)</b> Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.
<b>Date of Sampling</b> – 10.04.2014 to 11.04.2014	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	13.00 h	68
		03.00 h	54
2.	Near IRL Office	13.30 h	65
		03.25 h	50
3.	Near Boiler House	14.00 h	67
		04.00 h	52
<b>Noise Level Standards</b>			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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## Soil Sample Analysis Report

<b>Report No. :</b> ME-NS0014-140416-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No. 3320001083 Dated 18.11.2011, (Amendment Dated 16.01.2014))
<b>Sample Description/Type</b>	Soil	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Musalgaon	<b>Sample Quantity/Packing</b>	1 kg X 1 No. Plastic Bag
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Date of Start of Analysis</b>	12.04.2014	<b>Date of Completion of Analysis</b>	15.04.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Gravel	P. K. Behera Book
2.	Moisture	%	2.73	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	-	8.1	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	%	1.33	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	199	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	24.0	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	340	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	58.2	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	375	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	39.3	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

<b>Report No. :</b> ME-NS0015-140416-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No. 3320001083 dated 18.11.2011, (Amendment dated 16.01.2014)
<b>Sample Description/Type</b>	Soil	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Kedarpur	<b>Sample Quantity/Packing</b>	1 kg X 1 No. plastic Bag
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Date of Start of Analysis</b>	12.04.2014	<b>Date of Completion of Analysis</b>	15.04.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Gravel	P. K. Behera Book
2.	Moisture	%	3.05	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	-	7.7	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.360	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.37	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	194	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	29.0	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	158	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	43	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	386	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	43.9	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:

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# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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## Soil Sample Analysis Report

<b>Report No. :</b> ME-NS0016-140416-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.04.2014	
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your P.O. No. 3320001083 dated 18.11.2011, (Amendment dated 16.01.2014)
<b>Sample Description/Type</b>	Soil	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Gulvanch	<b>Sample Quantity/Packing</b>	1 kg X 1 No. plastic Bag
<b>Date of Sampling</b>	11.04.2014	<b>Date of Receipt of Sample</b>	11.04.2014
<b>Date of Start of Analysis</b>	12.04.2014	<b>Date of Completion of Analysis</b>	15.04.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Gravel	P. K. Behera Book
2.	Moisture	%	0.87	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	-	8.2	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.266	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.85	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	215	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	26.0	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	540	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	58.3	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	288	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	41.6	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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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Harish Mendhi

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