



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

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-NS0089-130615-SA-INDIABUL-NASHIK		Date: 15.06.2013	
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	07.06.2013 to 08.06.2013	Date of Receipt of Sample	09.06.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	09.06.2013	Date of Completion of Analysis	13.06.2013

Meteorological Data				
Average Wind velocity 0.46 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	49	32	22
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	7.3	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	41	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra

(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)

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Continuation Sheet

Report No. 0089 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	22	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	31.4	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, PM₁₀, 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.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

Note:

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0090-130615-SA-INDIABUL-NASHIK		Date: 15.06.2013	
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	07.06.2013 to 08.06.2013	Date of Receipt of Sample	09.06.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	09.06.2013	Date of Completion of Analysis	13.06.2013

Meteorological Data				
Average Wind velocity 0.46 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	49	32	22
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	6.4	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	8.5	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	57	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Continuation Sheet

Report No. 0090 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	14	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	37.3	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	4.3	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, PM₁₀, 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.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

[Signature]

Harsh Mendhi

TECHNICAL MANAGER

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0091-130615-SA-INDIABUL-NASHIK		Date: 15.06.2013	
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	07.06.2013 to 08.06.2013	Date of Receipt of Sample	09.06.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	09.06.2013	Date of Completion of Analysis	13.06.2013

Meteorological Data				
Average Wind velocity 0.46 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	49	32	22
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	7.9	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	8.2	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	63	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Continuation Sheet

Report No. 0091 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	11	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	44.2	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	2.4	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, PM₁₀, 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.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

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Water Sample Analysis Report

Report No. : ME-NS0082-130612-SA-INDIABULLS-NASHIK			Date: 12.06.2013
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	08.06.2013	Date of Receipt of Sample	09.06.2013
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	09.06.2013	Date of Completion of Analysis	12.06.2013

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	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	0.5	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	BDL (DL:5)	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	660	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 ₃)	mg/L	293	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	388	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	46.5	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	66.1	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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Continuation Sheet

Report No. 0082 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	0.58	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	0.080	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	0.010	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	0.55	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	217	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	35.8	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	1.20	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	22.5	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	0.20	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.

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Water Sample Analysis Report

Report No. : ME-NS0083-130612-SA-INDIABULLS-NASHIK			Date: 12.06.2013
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	08.06.2013	Date of Receipt of Sample	08.06.2013
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	08.06.2013	Date of Completion of Analysis	12.06.2013

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.	1.7	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.99	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	564	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.9	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	254	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	62.5	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	42.3	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





Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Continuation Sheet

Report No. 0083 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	0.21	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	0.060	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.27	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	169	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	25.5	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	0.72	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	22.5	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	0.20	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

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Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

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Water Sample Analysis Report

Report No. : ME-NS0084-130612-SA-INDIABULLS-NASHIK		Date: 12.06.2013	
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
Date of Sampling	08.06.2013	Date of Receipt of Sample	09.06.2013
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	10.06.2013	Date of Completion of Analysis	11.06.2013

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.	0.2	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.58	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	5.9	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	359	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	766	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	152	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	93.8	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

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Continuation Sheet

Report No. 0084 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	0.150	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	5.86	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	190	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	37.8	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.80	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	21.6	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

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

END

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Water Sample Analysis Report

Report No. : ME-NS0085-130615-WA-INDIABULLS-NASHIK		Date: 15.06.2013	
Name and Address of Customer	INDIABULLS REALTECH LTD. (SEZ Co-Developer)		Order Reference
	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	Water	Sample Collected by	Laboratory
Sampling Location	Field Hostel R.O. Outlet	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	08.06.2013	Date of Receipt of Sample	09.06.2013
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	09.06.2013	Date of Completion of Analysis	14.06.2013

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	-	7.42	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°C)	mg/L	1.6	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	6	-	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	16	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	6.5	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

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Continuation Sheet

Report No. 0085 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	8	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	8	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	BDL (DL:0.4)	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	1.88	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	0.104	-	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	0.050	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	0.008	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	0.020	-	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	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

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Continuation Sheet

Report No. 0085 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	4.3	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	1.21	-	APHA, 22 nd Ed. 2012, 4500-SiO ₂ , D, 4-169
37.	Hydrogen Sulphide (as H ₂ S)	mg/L	BDL (DL:0.080)	-	APHA 22 nd Ed. 2012, 4500-S ² , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	2.4	-	APHA, 22 nd Ed. 2012, 4500-CO ₂ -C, 4-31
39.	Permanganate Value at 25°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.					

END

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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 – 09.07.2013 to 10.07.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	15.00 h	64
		02.00 h	52
2.	Near IRL Office	15.30 h	62
		02.45 h	50
3.	Near Boiler Area	16.20 h	68
		03.30 h	56
Noise Level Standards			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

-----END-----

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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 – 07.06.2013 to 08.06.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	14.00 h	69
		02.30 h	52
2.	Near IRL Office	14.30 h	64
		03.00 h	50
3.	Near Boiler Area	15.00 h	70
		03.40 h	51
Noise Level Standards			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

END

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Soil Sample Analysis Report

Report No. : ME-NS0086-130614-SA-INDIABULLS-NASHIK		Date: 14.06.2013	
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	08.06.2013	Date of Receipt of Sample	09.06.2013
Date of Start of Analysis	11.06.2013	Date of Completion of Analysis	13.06.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	10.2	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	6.56	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.786	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	1.07	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	264	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	36.3	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	116	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	200	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	21.7	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-NS0087-130614-SA-INDIABULLS-NASHIK		Date: 14.06.2013	
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	08.06.2013	Date of Receipt of Sample	09.06.2013
Date of Start of Analysis	11.06.2013	Date of Completion of Analysis	13.06.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	7.72	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.08	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.109	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.76	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	269	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	35.4	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	128	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	268	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	160	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	23.3	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-----

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).
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Soil Sample Analysis Report

Report No. : ME-NS0088-130614-SA-INDIABULLS-NASHIK		Date: 14.06.2013	
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	08.06.2013	Date of Receipt of Sample	09.06.2013
Date of Start of Analysis	11.06.2013	Date of Completion of Analysis	13.06.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	9.35	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	7.55	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.178	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.88	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	253	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	33.4	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	186	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	317	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	120	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	46.5	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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