



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

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

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

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

Ambient Air Quality Monitoring Report

Report No. : ME-NS0090-140920-SA-INDIABUL-NASHIK		Date: 20.09.2014	
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.16.01.2014
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	11.09.2014 to 12.09.2014	Date of Receipt of Sample	12.09.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	15.09.2014	Date of Completion of Analysis	19.09.2014

Meteorological Data				
Average Wind velocity 1.58 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	64	29	20
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	<4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7





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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 10 μm) or PM_{10}	$\mu\text{g}/\text{m}^3$	29	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5 μm) or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	16	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O_3)	$\mu\text{g}/\text{m}^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	$\mu\text{g}/\text{m}^3$	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m^3	0.76	02	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu\text{g}/\text{m}^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C_6H_6)	$\mu\text{g}/\text{m}^3$	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m^3	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m^3	0.94	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m^3	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m^3	N.D.	-	APHA, Method No. 318, Page No. 492

Remarks: 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_{10} , $\text{PM}_{2.5}$, 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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Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No. : ME-NS0092-140920-SA-INDIABUL-NASHIK			Date: 20.09.2014
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.16.01.2014
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	11.09.2014 to 12.09.2014	Date of Receipt of Sample	12.09.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	15.09.2014	Date of Completion of Analysis	19.09.2014

Meteorological Data

Average Wind velocity 1.58 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	64	29	20
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	<4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7





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Continuation Sheet

Report No. 0092 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 ₁₀	$\mu\text{g}/\text{m}^3$	23	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5 μm) or PM _{2.5}	$\mu\text{g}/\text{m}^3$	<10	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	$\mu\text{g}/\text{m}^3$	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m^3	0.76	02	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	$\mu\text{g}/\text{m}^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C ₆ H ₆)	$\mu\text{g}/\text{m}^3$	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m^3	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m^3	0.51	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m^3	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m^3	N.D.	-	APHA, Method No. 318, Page No. 492

Remarks: 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, 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

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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
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Meteorological Data				
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Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7



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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 10 μm) or PM_{10}	$\mu\text{g}/\text{m}^3$	24	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5 μm) or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	16	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O_3)	$\mu\text{g}/\text{m}^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	$\mu\text{g}/\text{m}^3$	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m^3	0.70	02	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu\text{g}/\text{m}^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C_6H_6)	$\mu\text{g}/\text{m}^3$	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m^3	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m^3	0.46	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m^3	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m^3	N.D.	-	APHA, Method No. 318, Page No. 492

Remarks: 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_{10} , $\text{PM}_{2.5}$, 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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Water Sample Analysis Report

Report No. : ME-NS0087-140920-SA-INDIABULLS-NASHIK		Date: 20.9.2014	
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 P.O. No. 3320001083 Dtd. 8.11.2011,(Amendment Dtd.16.01.2014)
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Musalgaon	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 mL X 1 No. Sterile Glass Bottle
Date of Sampling	12.09.2014	Date of Receipt of Sample	12.09.2014
Sampling Procedure	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	13.09.2014	Date of Completion of Analysis	19.09.2014

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, RA 2006
3.	Turbidity	N.T.U.	0.7	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.6	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	<5	-	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	5.9	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	312	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	912	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	176	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	115	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004



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Continuation Sheet

Report No. 0087 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 ⁺⁶)	mg/L	<0.02	-	APHA 22 nd 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 nd 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	3.99	Max. 0.5	APHA 22 nd 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	298	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	150	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.60	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	42.4	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
29.	Cyanide (as CN)	mg/L	<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	<0.001	Max. 0.001	APHA 22 nd 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
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	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

-----END-----

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			Your P.O. No.3320001083 Dtd. 8.11.2011, (Amendment Dtd. 16.01.2014)
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Gulvanch	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	12.09.2014	Date of Receipt of Sample	12.09.2014
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	13.09.2014	Date of Completion of Analysis	19.09.2014

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.	1.8	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.1	6.5-8.5	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92
5.	Suspended Solids	mg/L	9	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1348	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.7	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	348	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	1076	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	136	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	179	Max. 30	APHA 22 nd Ed. 2012,3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012,3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004





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Continuation Sheet

Report No. 0088 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr ⁺⁶)	mg/L	<0.02	-	APHA 22 nd 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 nd 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	0.41	Max. 0.5	APHA 22 nd 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	472	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	152	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	<0.05	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	43.1	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , E -4-125
29.	Cyanide (as CN)	mg/L	<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	<0.001	Max. 0.001	APHA 22 nd 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
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	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

END

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

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Water Sample Analysis Report

Report No. : ME-NS0089-140920-SA-INDIABULLS-NASHIK		Date: 20.09.2014	
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 P.O. No. 3320001083 Dtd 18.11.2011, (Amendment Dtd. 16.01.2014)
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Kedarpur	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	12.09.2014	Date of Receipt of Sample	12.09.2014
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	13.09.2014	Date of Completion of Analysis	19.09.2014

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.	0.1	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.6	6.5-8.5	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92
5.	Suspended Solids	mg/L	<5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	676	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.6	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	248	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	436	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	84.2	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	54.9	Max. 30	APHA 22 nd Ed. 2012,3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012,3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004





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Continuation Sheet

Report No. 0089 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 ⁺⁶)	mg/L	<0.02	-	APHA 22 nd 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	0.22	Max. 0.3	APHA 22 nd 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	0.05	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	0.08	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.46	Max. 0.5	APHA 22 nd 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	171	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	104	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	0.64	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	38.6	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , E - 4-125
29.	Cyanide (as CN)	mg/L	<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	<0.001	Max. 0.001	APHA 22 nd 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
Microbiological Analysis					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
33.	E. coli	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

END

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0090-140920-SA-INDIABUL-NASHIK		Date: 20.09.2014	
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.16.01.2014	
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	11.09.2014 to 12.09.2014	Date of Receipt of Sample	12.09.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	15.09.2014	Date of Completion of Analysis	19.09.2014

Meteorological Data				
Average Wind velocity 1.58 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	64	29	20
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	<4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7





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Water Sample Analysis Report

Report No. : ME-NS0096-140914-SA-INDIABULLS-NASHIK			Date: 19.09.2014
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 P.O. No. 3320001083 Dtd. 18.11.2011, (Amendment Dtd. 16.01.2014)
Sample Description/Type	Water	Sample Collected by	Laboratory
Sampling Location	IRL New Field Hostel RO Outlet	Sample Quantity/Packing	5 L X 1 No. Plastic Can 300 mL X 1 No. DO Glass Bottle 250 mL X 1 No. Sterile Glass Bottle
Date of Sampling	15.09.2014	Date of Receipt of Sample	15.09.2014
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	16.09.2014	Date of Completion of Analysis	19.09.2014

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.	<0.1	Max. 1	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	pH	-	6.4	6.5-8.5	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	Suspended Solids	mg/L	<5	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -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	<4	-	APHA, 22 nd Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	mg/L	<1	-	APHA, 22 nd Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	14	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.1	-	IS 3025 (Part 38): 1989, Reaffirmed 2009





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Continuation Sheet

Report No. 0096 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	<1	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	10	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	6	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	1.2	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	0.73	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	mg/L	<0.005	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	<0.02	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 nd Ed. 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	mg/L	<0.08	-	APHA, 22 nd 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	<0.02	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	2.1	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.4	-	IS 3025 (Part 45): 1993, Reaffirmed 2009





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Continuation Sheet

Report No. 0096 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	2.5	Max. 250	APHA, 22 nd Ed. 2012, 4500-Cl, B, 4-72
32.	Sulphate (as SO ₄)	mg/L	<1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	<0.05	Max. 1	APHA, 22 nd Ed. 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO ₄)	mg/L	<0.03	-	APHA, 22 nd Ed. 2012, 4500-P, E, 4-155
35.	Nitrate (as NO ₃)	mg/L	0.57	Max. 45	APHA, 22 nd Ed. 2012, 4500-NO ₃ , E-4-125
36.	Dissolved Silica (as SiO ₂)	mg/L	1.18	-	APHA, 22 nd Ed. 2012, 4500-SiO ₂ , D, 4-169
37.	Hydrogen Sulphide (as H ₂ S)	mg/L	<0.08	-	APHA 22 nd Ed. 2012, 4500-S ² , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	0.88	-	APHA, 22 nd Ed. 2012, 4500-CO ₂ -C, 4-31
39.	Permanganate Value at 37°C	mg/L	<0.1	-	IS 3025 (Part 63): 2007

Microbiological Analysis

40.	Total Coliforms	MPN/100mL	Present	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:

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Noise Monitoring Report

Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd. (Multiproduct SEZ), Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.
Date of Sampling - 11.09.2014 to 12.09.2014	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	16.10 h	64
		02.10 h	53
2.	Near IRL Office	16.40 h	60
		02.30 h	50
3.	Near Boiler House	17.10 h	67
		03.00 h	54

Noise Level Standard

Area Code	Area Type	Limit in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

END

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Soil Sample Analysis Report

Report No. : ME-NS0093-140919-SA-INDIABULLS-NASHIK		Date: 19.09.2014	
Name and Address of Customer	Indiabulls Realtech Limited Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.	Order Reference	
		Your P.O. No. 3320001083 dated 8.11.2011(Amendment dated 16.01.2014)	
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	12.09.2014	Date of Receipt of Sample	12.09.2014
Date of Start of Analysis	13.09.2014	Date of Completion of Analysis	19.09.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	18.3	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.6	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.11	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.41	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	271	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	9.80	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	59.3	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	110	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	377	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	39.8	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-NS0094-140919-SA-INDIABULLS-NASHIK		Date: 19.09.2014	
Name and Address of Customer	Indiabulls Realtech Limited Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your P.O. No. 3320001083 dated 8.11.2011(Amendment dated 16.01.2014)
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	12.09.2014	Date of Sampling	12.09.2014
Date of Start of Analysis	13.09.2014	Date of Start of Analysis	19.09.2014

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)	-	8.6	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.11	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.67	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	208	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	30.2	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	318	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	85.2	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	401	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	38.8	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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Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

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Soil Sample Analysis Report

Report No. : ME-NS0095-140919-SA-INDIABULLS-NASHIK		Date: 19.09.2014	
Name and Address of Customer	Indiabulls Realtech Limited Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference
			Your P.O. No. 3320001083 dated 8.11.2011(Amendment dated 16.01.2014)
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	12.09.2014	Date of Sampling	12.09.2014
Date of Start of Analysis	13.09.2014	Date of Start of Analysis	19.09.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	18.9	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.5	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.122	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.40	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	206	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	35.9	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	232	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	96.6	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	417	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	38.9	FAO Sec. III .7-2, Page No. 104

Remarks:

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Page 1 of 1

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