

Laboratory	Wolkem India Limited, E- 102, Mewar Industrial Area, Madri, Udaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.07.2015
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	BUILDING MATERIALS			
1.	Calcite, Limestone, Dolomite and allied material	LOI	IS1760 (Part 1): 1991	5 % to 50 %
		Acid insoluble residue (AIR) / SiO ₂	IS 1760 (Part 2): 1991	0.2 % to 20 %
		Al ₂ O ₃	IS1760 (Part 3): 1992	0.2 % to 25 %
		Fe ₂ O ₃	IS1760 (Part 3): 1992	0.2 % to 10 %
		MgO	IS1760 (Part 3): 1992	0.2 % to 47 %
		CaO	IS 1760 (Part 3): 1992	1 % to 55.5 %
2.	Feldspar (Soda & Potash)	LOI	IS 9749: 2007 (RA 2012)	0.5 to 20 %
		SiO ₂	IS 9749: 2007 (RA 2012)	1 % to 75 %
		Na ₂ O	IS 9749: 2007 (RA 2012)	0.4 % to 20 %
		K ₂ O	IS 9749: 2007 (RA 2012)	0.4 % to 20 %
		CaO + MgO	IS 9749: 2007 (RA 2012)	0.75 % to 5 %
		Al ₂ O ₃	IS 9749: 2007 (RA 2012)	0.4 % to 45 %
		Fe ₂ O ₃	IS 9749: 2007 (RA 2012)	0.4 % to 10 %

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3.	Talc /Talcum Powder/ Wollastonite	Moisture	IS 10429: 1982	0.1 % to 10 %
		LOI	IS 1462: 1985 IS 10429: 1982	0.5 % to 20 %
		SiO ₂	IS 10429: 1982	1 % to 75 %
		Al ₂ O ₃	IS 10429: 1982	0.4 % to 45 %
		Fe ₂ O ₃	IS 10429: 1982	0.4 % to 10 %
		MgO	IS 10429: 1982	0.5 % to 35 %
		CaO	IS 10429: 1982	0.5 % to 50 %
		pH	IS 1462: 1985	5 to 12
		Bulk Density	IS 1462: 1985	0.2 g/ml to 2 g/ml
4.	High Silica Sand / Quartz /Mica	LOI	IS1917 (Part 1): 1991 (RA 2006)	0.2 % to 20 %
		SiO ₂	IS 1917 (Part 3): 1992 (RA 2005)	50 % to 100 %
		Na ₂ O	IS 1917 (Part 2): 1991 (RA 2006)	0.4 % to 20 %
		K ₂ O	IS 1917 (Part 2): 1991 (RA 2006)	0.4 % to 20 %

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5.	Light Kaolin & China Clay For Ceramic, Paint Industry	Moisture	IS 2840: 2002	0.1 % to 10 %
		LOI	IS 2840: 2002 IS 68: 2006 IS 505: 1995	0.5 % to 20 %
		Al ₂ O ₃	IS 2840: 2002	0.4 % to 45 %
		Fe ₂ O ₃	IS 2840: 2002	0.4 % to 10 %
		Oil absorption	IS 505: 1995	2 % to 50 %
		Brightness /colour reflectance	IS 505: 1995	50 % to 100 %
		pH	IS 505: 1995 IS 68: 2006	5 to 12
		Specific gravity/relative density	IS 505: 1995	1 to 4
		Mixed Oxide	IS 917: 1976 (RA 2006)	0.2 % to 10 %
		Iron	IS 918: 1986 (RA 2006)	0.01 % to 10 %
Moisture	IS 917: 1976 (RA 2006)	0.1 % to 10 %		

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II. ORES & MINERALS				
1.	Iron ore	Moisture	IS 1493 (Part 1): 1981 (RA 2001)	0.1 % to 20 %
		Silica	IS 1493 (Part 1): 1981	1.0 % to 60 %
		Aluminum Oxide	IS 1493 (Part 1): 1981	0.5 % to 50 %
		Iron Oxide	IS 1493 (Part 1): 1981	1 % to 80 %
2.	Aluminium ore/ Bauxite	Loss on Ignition	IS 2000 (Part 1): 1985	0.1 % to 40 %
		Silica	IS 2000 (Part 2): 1985	1.0 % to 60 %
		Aluminum Oxide	IS 2000 (Part 3): 1985	0.50 % to 75.0%
		Iron Oxide	IS 2000 (Part 4): 1985	0.5 % to 40.0 %
3.	Rock Phosphate	Moisture	IS 11224: 1985 (RA 2010)	0.1 % to 10 %
		Loss on Ignition	IS 11224: 1985 (RA 2010)	0.5 % to 20 %
		Silica	IS 11224: 1985 (RA 2010)	1 % to 50 %
		Total Phosphates	IS 11224: 1985 (RA 2010) IS 9386: 1976 (RA 2006)	5 % to 50 %
		Mixed Oxides	IS 11224: 1985 (RA 2010)	0.1 % to 20 %
		Aluminum Oxide	IS 11224: 1985 (RA 2010)	0.03 % to 2 %

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	Rock Phosphate	Iron Oxide	IS 11224: 1985 (RA 2010)	0.1 % to 20 %
		Calcium Oxide	IS 9386: 1979 (RA 2006)	5 % to 55 %
		Magnesium Oxide	IS 11224: 1985 (RA 2010)	0.1 % to 15 %
		Chloride	IS 11224: 1985 (RA 2010)	0.1 % to 20 %
III.	AIR, GASES & ATMOSPHERE			
1.	Ambient Air Monitoring	Particulate Matters (size less than 10 µm) or PM ₁₀ µg/m ³	IS 5182 (Part 23): 2006	10 µg/m ³ to 2000 µg/m ³
		Particulate Matters (size less than 2.5 µm) or PM _{2.5} µg/m ³	SOP No. 10/25 Issue date: 01.03.2010 Revision Date: 01.06.2013	10 µg/m ³ to 2000 µg/m ³
		Sulphur Dioxide	IS 5182 (Part II): 2001 (RA 2006)	3 µg/m ³ to 1000 µg/m ³
		Oxides of Nitrogen	IS 5182 (Part VI): 2006	6 µg/m ³ to 600 µg/m ³
		Wind Speed	SOP No.22/25 Issue Date: 01.05.2015 Issue No. 01	0.01 km/Hr to 55 km/Hr
		Wind Direction	SOP No.22/25 Issue Date: 01.05.2015 Issue No. 01	0 to 360 degree

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	Ambient Air Monitoring	Temperature	SOP No.22/25 Issue Date: 01.05.2015 Issue No. 01	5 °C to 50 °C
		Relative Humidity	SOP No.22/25 Issue Date: 01.05.2015 Issue No. 01	5 % to 100 %
		Ammonia	Indophenol Method (Method-401 Air sampling & analysis, 3 rd edition)	20 µg/m ³ to 700 µg/m ³
		Ozone	Method-411 Air sampling & analysis, 3 rd edition (determination of oxidizing substance in the atmosphere)	20 µg/m ³ to 100 µg/m ³
		Lead	IS 5182 (Part 22): 2004 (RA 2009)	20 µg/m ³ to 100 µg/m ³
		Nickel	Method-501 Air sampling & analysis, 3 rd edition	2 ng/m ³ to 100 ng/m ³
		Fluorides	IS 5182 (Part 13): 1991	0.2 to 100 µg/m ³
2.	Stack Emission Monitoring	Particulate Matter	IS 11255 (Part 1): 1985 (RA 1998 & 2003)	2 mg/Nm ³ to 2000 mg/Nm ³
		Velocity	IS 11255 (Part III): 2008	3 m/s to 30 m/s
		Sulphur Dioxide	IS 11255 (Part II): 1985 (RA 1999 & 2003)	1mg/Nm ³ to 1000 mg/Nm ³

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	Stack Emission Monitoring	Oxides of Nitrogen	IS 11255 (Part 7): 2005	2 mg/Nm ³ to 1700 mg/Nm ³
		Temperature	IS 11255 (Part III): 2008	15 °C to 950 °C
		Ammonia	IS 11255 (Part 6): 1999	5 mg/Nm ³ to 500 mg/Nm ³
3.	Noise monitoring	Ambient Noise Level	IS 989: 1981 (RA 2008)	40 dB to 130 dB
IV. WATER				
1.	Potable water	pH	IS 3025: 1983 (RA 2006)	0.1 to 14
		Colour	IS 3025 (Part 4): 1983 (RA 2006)	5 Hazen to 500 Hazen
		Electrical conductivity	IS 3025: 1964 (Reprint & RA 2007)	0.001 ms/cm to 30 ms/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006)	0.1 NTU to 100 NTU
		Total solids	IS 3025: 1964 (Reprint & RA 2007)	5 mg/L to 5000 mg/L
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2006)	5 mg/L to 1000 mg/L
		Total dissolve solids	IS 3025 (Part 16): 1984 (RA 2006)	5 mg/L to 5000 mg/L
		Calcium	IS 3025 (Part 40): 1991 (RA 2009)	0.4 mg/L to 1000 mg/L
		Magnesium	IS 3025 (Part 46): 1994 (RA 2009)	0.4 mg/L to 1000 mg/L
		Total hardness	IS 3025 (Part 21): 2009	2 mg/L to 2000 mg/L
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	2 mg/L to 500 mg/L

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	Potable water	Chlorides	IS 3025 (Part 32): 1988 (RA 2009)	5 mg/L to 100 mg/L
		Chromium –Hexavalent	IS 3025 (Part 52): 2003 Section No. 6	0.02 mg/L to 50 mg/L
		BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44): 1993 (RA 2009)	1 mg/L to 4000 mg/L
		COD (Chemical Oxygen Demand)	IS 3025 (Part 58): 2006	5 mg/L to 10000 mg/l
		Dissolve oxygen (DO)	IS 3025 (Part 38): 1989 (RA 2009)	1 mg/L to 10 mg/L
		Fluoride	IS 3025 (Part 60): 2008	0.1 mg/L to 20 mg/L
		Iron	IS 3025 (Part 53): 2003 (RA 2009)	0.1 mg/L to 50 mg/L
		Phosphate	IS 3025: 1964 (Reprint & RA 2007)	0.1 mg/L to 20 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (RA 2009)	2 mg/L to 2000 mg/L
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009)	4 mg/L to 50 mg/L
		Copper	IS 3025 (Part 42): 1992 (RA 2009) Section No. 5	0.1 mg/L to 20 mg/L
		Sodium	APHA, 22 nd edition, Part 3500-Na (3-97to3-98)	1 mg/L to 1000 mg/L
		Potassium	APHA, 22 nd edition, Part 3500-K (3-87 to 3-88)	1 mg/L to 1000 mg/L

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	Potable water	Nitrates	IS 3025 (Part -34-3-B): 1988 (RA 2003) (1 st Revision) Spectrophotometric Method	0.1 mg/L to 50 mg/L
		Nitrates	IS 3025 (Part 34-3-B): 1988 (RA 2003) (1 st Revision) Spectrophotometric Method	0.1 mg/L to 50 mg/L
		Residual Chlorine	IS 3025 (Part 26): 1986	0.01 mg/L to 10 mg/L
		Manganese	IS 3025 (Part 59): 2006	0.01 mg/L to 5.0 mg/l
		Nickel	IS 13428: 2005 IS 3025 (Part 54): 2003 (a)	0.01 mg/L to 20 mg/L
		Lead	IS 3025 (Part 47) : 1998 (RA 1999) (a)	0.01 mg/L to 5 mg/L
		Zinc	IS 3025 (Part 49): 1994 (RA 2003) (a)	0.1 mg/L to 25 mg/L
		Cadmium	IS 3025 (Part 41): 1992 (RA 1998) (a)	0.01 mg/L to 5 mg/L
		Total Chromium	IS 13428: 2005 IS 3025 (Part 52): 2003 (a)	0.02 mg/L to 50.0 mg/L
2.	Waste water	pH	IS 3025: 1983 (RA 2006)	0.1 to 14
		Colour	IS 3025 (Part 4): 1983 (RA 2006)	5 Hazen to 500 Hazen
		Electrical conductivity	IS 3025: 1964 (Reprint & RA 2007)	0.001 ms/cm to 30 ms/cm

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	Waste water	Turbidity	IS 3025(Part 10): 1984 (RA 2006)	0.1 NTU to 1000 NTU
		Total solids	IS 3025: 1964 (Reprint & RA 2007)	5 mg/L to 50000 mg/L
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2006)	5 mg/L to 5000 mg/L
		Total dissolve solids	IS 3025 (Part 16): 1984 (RA 2006)	5 mg/L to 50000 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2009)	0.4 mg/L to 1000 mg/L
		Magnesium	IS 3025 (Part 46): 1994 (Reprint & RA 2009)	0.4 mg/L to 1000 mg/L
		Total hardness	IS 3025 (Part 21): 2009	2 mg/L to 2000 mg/L
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	2 mg/L to 2000 mg/L
		Chlorides	IS 3025 (Part 32): 1988 (RA 2009)	5 mg/L to 10000 mg/L
		Chromium –Hexavelent	IS 3025 (Part 52): 2003	0.02 mg/L to 50 mg/L
		BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44): 1993 (RA 2009)	1 mg/L to 40000 mg/L
		COD (Chemical Oxygen Demand)	IS 3025 (Part 58): 2006	4 mg/L to 100000 mg/L
		Dissolve Oxygen (DO)	IS 3025 (Part 38): 1989 (RA 2009)	1 mg/L to 10 mg/L
		Fluoride	IS 3025 (Part 60): 2008	0.1 mg/L to 20 mg/L
		Iron	IS 3025 (Part 53): 2003 (RA 2009)	0.1 mg/L to 50 mg/L

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	Waste water	Phosphate	IS 3025: 1964 (Reprint & RA 2007)	0.1 mg/L to 20 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (RA 2009)	2 mg/L to 2000 mg/L
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009)	4 mg/L to 50 mg/L
		Copper	IS 3025(Part 42) 1992 (RA 2009)	0.1 mg/L to 20 mg/L
		Sodium	APHA, 22 nd edition, Part 3500-Na (3-97to3-98)	1 mg/L to 1000 mg/L
		Potassium	APHA, 22 nd edition, Part 3500-K (3-87 to 3-88)	1 mg/L to 1000 mg/L
		Nitrates	IS 3025 (Part 34-3-B): 1988 (RA 2003) (1 st Revision) Spectrophotometric Method	0.1 mg/L to 50 mg/L
		Nitrates	IS 3025 (Part 34-3-B): 1988 (RA 2003) (1 st Revision) Spectrophotometric Method	0.1 mg/L to 50 mg/L
		Residual Chlorine	IS 3025 (Part 26): 1986	0.01 mg/L to 10 mg/L
		Manganese	IS 3025 (Part 59): 2006	0.01 mg/L to 5 mg/L
		Nickel	IS 13428: 2005/ IS 3025 (Part 54): 2003 (a)	0.01 mg/L to 20 mg/L
		Lead	IS 3025 (Part 47): 1998 (RA 1999) (a)	0.01 mg/L to 5 mg/L

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	Waste water	Zinc	IS 3025 (Part 49): 1994 (RA 2003) (a)	0.1 mg/L to 25 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 1998) (a)	0.01 mg/L to 5 mg/l
		Total Chromium	IS 13428: 2005 IS 3025 (Pat 52): 2003	0.02 mg/L to 50.0 mg/L
V.	SOIL	Total Nitrogen	IS 14684: 1999 (RA 2008)	1 % to 15 %
		Available Phosphorous	IS 10158: 1982 (RA 2003)	0.1 % to 10 %
		Bulk Density	IS 918: 1985 (RA 2006)	0.5 g/cc to 4 g/cc
		Calcium Carbonate	IS 2720 (Part XXIII): 1976 (RA 2006)	1 % to 20 %
		Electrical conductivity	IS 14767: 2000 (RA 2006)	0.1 ms to 5 ms
		Organic Matter	IS 2720 (Part XXII): 1972 (RA 2006)	0.5 % to 25 %
		pH	IS 2720 (Part 26): 1987	0.1 to 14
		Sulphate	IS 2720 (Part XXVII): 1977 (RA 2006)	0.5 % to 5 %
		Total soluble solids	IS 2720 (Part xxi) (RA 2006)	0.1 % to 10 %
		Total Sodium	IS 9497: 1980 (RA 2005)	1 mg/L to 1000 mg/L

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	Soil	Total Potassium	IS 9497: 1980 (RA 2005)	1 mg/L to 1000 mg/L
		Available Sodium	IS 9497: 1980 (RA 2005) SOP No. 93/100 Issue date 01.06.2012	1 mg/L to 1000 mg/L
		Available Potassium	IS 9497: 1980 (RA 2005) SOP No. 93/100 Issue date 01.06.2012	1 mg/L to 1000 mg/L
		pH	IS 2720 (Part 26): 1987	0.1 to 14
		Sulphate	IS 2720 (part XXVII): 1977 (RA 2006)	0.5 % to 5 %
		Total soluble solids	IS 2720 (Part. xxi) (RA 2006)	0.1 % to 10 %
		Total Sodium	IS 9497: 1980 (RA 2005)	1 mg/L to 1000 mg/L
		Total Potassium	IS 9497: 1980 (RA 2005)	1 mg/L to 1000 mg/L
		Available Sodium	IS 9497: 1980 (RA 2005) SOP No. 93/100 Issue date 01.06.2012	1 mg/L to 1000 mg/L
		Available Potassium	IS 9497: 1980 (RA 2005) SOP No. 93/100 Issue date 01.06.2012	1 mg/L to 1000 mg/L

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