

**Laboratory** Noida Testing Laboratories, GT-20, Sector-117, Noida, Gautam Budh Nagar, Uttar Pradesh

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-6814 (in lieu of T-3871, T-2489.)

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**Validity** 03.12.2017 to 02.12.2019

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b><u>BIOLOGICAL TESTING</u></b>				
<b>I.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking, Ground, Borewell, Surface</b>	Yeast & Mould Count	IS 1622-1981(RA 1996)	≥1 cfu/ml
		Detection of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /100ml
		Detection of Fecal streptococci	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /100ml
		Total Coliform	IS 1622-2003	<2 - >1600 MPN/100ml
		<u>E.coli</u>	IS 1622-2003	Present/Absent /100ml
		Total Plate Count	IS 1622-2003	≥1 cfu/ml
		Detection of Fecal streptococci	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /100ml
<b>2.</b>	<b>Water for processed food industries</b>	Detection of S.aureus	IS 5887 (Part2)1976 (RA 2005)	Present/Absent /100ml
		Total Coliform Count	IS 1622-1981 (RA 1996)	<2 - 1600 MPN/100ml
		Total Plate Count	IS 1622-1981 (RA 1996)	≥1 cfu/ml
<b>3.</b>	<b>Water for construction purpose</b>	Detection of Lipolytic and Proteolytic Organism	IS:4251-1967 (RA 2005)	Present/Absent /100ml
		Total Coliform Count	IS 1622-1981 (RA 1996)	<2 - 1600 MPN/100ml
<b>4.</b>	<b>Water for swimming pools</b>	Detection Of E.coli	IS 1622-1981 (RA 1996)	Present/Absent /100ml
		Total Coliform Count	IS 1622-1981 (RA 1996)	<2 - 1600 MPN/100ml
		Detection Of E.coli	IS 1622-1981 (RA 1996)	Present/Absent /100ml
		Total Plate Count	IS 1622-1981(RA 1996)	≥1 cfu/ml

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5.	<b>Packaged Drinking Water</b>	Detection of Coliform	IS 5401(Part1):2002 (RA 2005)	Present/Absent /250ml
		Total Aerobic Count 37°C for 24 Hr 22°C for 72 Hr	IS 5402: 2012	≥1 cfu/ml
		Detection of Yeast & Mould	IS 5403:1999( RA 2005)	Present/Absent /250ml
		Detection of E.coli	IS 5887 (Part1):1976 (RA 2005)	Present/Absent /250ml
II.	<b>Animal feeds</b>	Total Coliform Count	IS 5401:2012	≥10 cfu/gm
		Detection of E.coli	IS 5887 (Part1):1976 (RA 2005)	Present/Absent /25gm
		Total Plate Count	IS 5402-2012	≥10 cfu/gm
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10 cfu/gm
<b>III FOOD &amp; AGRICULTURAL PRODUCTS</b>				
1.	<b>Beverages</b>	Total Coliform Count	IS 5401:2002	≥10 cfu/ml
		Detection OF E.coli	IS 5887 (Part1)1976 (RA 2005)	Present/Absent /ml
		Total Plate Count	IS 5402-2012	≥10 cfu/ml (≥1 cfu/ml)
		Detection of Yeast & Mould	IS 5403-1999 (RA 2005)	Present/Absent /ml
2.	<b>Bakery and confectionary products</b>	Detection of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /ml
		Total Coliform Count	IS 5401:2012	≥10 cfu/gm
		Detection of E.coli	IS 5887 (Part1):1996 (RA 2005)	Present/Absent /25gm
		Total Plate Count	IS 5402-2012	≥10 cfu/gm
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10 cfu/gm
		Detection of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /25gm
		Detection of Fecal Streptococci	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /25gm

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3.	Spices and condiments	Detection of S.aureus	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /25gm
		Total Coliform Count	IS 5401:2012	≥10 cfu/gm
		Detection of E.coli	IS 5887 (Part1): 1976 (RA 2005)	Present/Absent /25gm
		Total Plate Count	IS 5402-2012	≥10 cfu/gm
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10 cfu/gm
4.	Milk & Dairy products, Condensed Milk, Partly Skimmed Milk	Detection of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /25gm
		Total Coliform Count	IS 5401:2012	≥10 cfu/gm or ml
		Detection Of E.coli	IS 5887 (Part1):1976 (RA 2005)	Present/Absent /25gm or ml
		Total Plate Count	IS 5402-2012	≥10 cfu/gm or ml
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10 cfu/gm or ml
		Detection of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /25gm or ml
5.	Vegetable & vegetable products	Detection of Fecal streptococci	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /25gm or ml
		Detection of S.aureus	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /25gm or ml
		Total Coliform Count	IS 5401:2012	≥10 cfu/gm
		Detection of E.coli	IS 5887 (Part1):1976 (RA 2005)	Present/Absent /25gm
		Total Plate Count	IS 5402-2012	≥10 cfu/gm
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10 cfu/gm
		Detection Of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /25gm
		Detection of Fecal streptococci	IS 5887 (Part2):1967 (RA 2005)	Present/Absent /25gm

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		Detection of S.aureus	IS 5887 (Part2):1967 (RA 2005)	Present/Absent /25gm
6.	Ready to eat food	Total Coliform Count	IS 5401:2012	≥10 cfu/gm
		Detection of E.coli	IS 5887 (Part1):1976 (RA 2005)	Present/Absent /25gm
		Total Plate Count	IS 5402-2012	≥10 cfu/gm
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10 cfu/gm
		Detection of Salmonella	IS 5887 (Part3):1976 (RA 2005)	Present/Absent /25gm
		Detection of Fecal streptococci	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /25gm
		Detection of S.aureus	IS 5887 (Part2):1976 (RA 2005)	Present/Absent /25gm
7.	Meat & Meat products	Total Coliform Count	IS 5401:2012	≥10 cfu/gm
		Detection of E.coli	IS 5887 (Part1):1976 (RA 2005)	Present/Absent /25gm
		Total Plate Count	IS 5402-2012	≥10 cfu/gm
		Detection of Yeast & Mould	IS 5403-1999(RA 2005)	Present/Absent /25gm
		Detection of Salmonella	IS 5887 (Part3):1999 (RA 2005)	Present/Absent /25gm
		Detection Of Fecal streptococci	IS 5887 (Part2):1967 (RA 2005)	Present /Absent/25gm
		Detection Of S.aureus	IS 5887 (Part2):1967 (RA 2005)	Present/Absent 25 gm

**\*NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428.**

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<b><u>CHEMICAL TESTING</u></b>				
<b>I.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Ambient Air Work Environmental &amp; Indoor Air Quality</b>	Respirable Suspended Particulate Matters, PM <sub>10</sub> (RSPM)	IS 5182 (Part-23)-2006	5 µg/ m <sup>3</sup> to 1000 µg/ m <sup>3</sup>
		Sulphur dioxide (SO <sub>2</sub> )	IS 5182 (Part -2)-2001, RA 2006	5 µg/ m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Nitrogen dioxide (NO <sub>x</sub> )	IS 5182 (Part -6)-2006	6 µg/ m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Ozone (O <sub>3</sub> )	IS 5182 (Part -9)-1974/ Chemical method	10 µg/ m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Ammonia (NH <sub>3</sub> )	NIOSH to 6015 : 1994	20 µg/ m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Fine Particulate Matter(PM <sub>2.5</sub> )	USEPA to 40 –CER – appendix L, Part to 50/53 Candidate Method	5 µg/ m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Carbon monoxide (CO)	NIOSH to 6604 : 1996	0.1 µg/ m <sup>3</sup> to 10 mg/m <sup>3</sup>
		Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) 2006/ Followed by G.C –FID With Capillary column	1 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Benzene (α) Pyrene (BaP)- Particulate Phase Only	IS 5182 (Part 12) 2004/ G.C –FID With Capillary column	1 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>
		Arsenic (as As)	IS 5182 (Part 22) 2004/ followed by AAS-VGA	5 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>
Lead (as Pb)	IS 5182 (Part22) 2004/ followed by AAS	0.1 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>		
Nickel(as Ni)	IS 5182 (Part 22) 2004/ followed by AAS	10 ng /m <sup>3</sup> to 1000 ng /m <sup>3</sup>		

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2.	<b>Stack Emission Process / Vent Emission Process / Vent Emission</b>	Particulate matter (PM)	IS 11255 (Part 1):1985	10 mg /m <sup>3</sup> to 500 mg /m <sup>3</sup>
		Sulfur dioxide (SO <sub>2</sub> )	IS 11255 (Part to 2):1985	5 mg /m <sup>3</sup> to 250 mg /m <sup>3</sup>
		Oxide of Nitrogen (NO <sub>x</sub> )	IS 11255 (Part 7):2005	5 mg /m <sup>3</sup> to 1500 mg /m <sup>3</sup>
		Carbon monoxide (CO)	IS 13270 (Orsat):1992	0.2% to 2.0 %
		Oxygen content (as O <sub>2</sub> )	IS 13270 (Orsat) :1992	0.2% to 2.0 %
		Carbon dioxide (as CO <sub>2</sub> )	IS 13270 (Orsat):1992	0.2% to 20 %
		Total Hydrocarbon	Lab/SOP-018 (Issue No. -01 & Issue Date -10/05/2017)	1 pm to 1000 pm
II.	<b>WATER</b>			
1.	<b>Surface Water, Ground Water, Drinking Water, Packaged Drinking Water, Swimming Pool Water, Industrial Water, Irrigation Water, Water from Purifiers</b>	Odour	IS 3025 (Part -5)-1983, RA 2002	Qualitative
		Turbidity	IS 3025 (Part 10)-1984, RA 2002 (Turbidity meter)	1 NTU to 1000 NTU
		pH	IS 3025 (Part 11)-1983, RA 2002 (pH meter)	4 to 12
		Total Hardness	IS 3025 (Part -21)-2002-2009, EDTA method)	1 mg/l to 1000 mg/l
		Chloride	IS 3025 (pt-32)-1988, RA 2002 (Arganophotometer)	1 mg/l to 10000 mg/l
		Residual Free Chlorine	IS 3025 (Part -26)-1986, RA 2002/	0.1 mg/l to 10 mg/l
		Fluoride	APHA 4500F (D) 22 <sup>nd</sup> Edition-2012	0.1 mg/l to 25 mg/l
		Total solid	IS-3025(Part 15)1984 Gravimetric	5 mg/l to 10000 mg/l
		Fixed Solid	IS-3025(Part 18)1984 GRAVIMETRIC	5 mg/l to 10000 mg/l

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		Organic solid	IS-3025(15)1984	5 mg/l to 10000 mg/l
		Conductivity at 25°C	IS-3025(Part 14)198	2 µS/cm to 20 µS/cm
		Temperature	IS 3025 (Part 9)-1984, RA 2002	4 °C to 50 °C
		Total Acidity	IS-3025(Part 22)-1986, Method-8, Indicator method	1 mg/l to 1000 mg/l
		Total suspended solids	IS-3025(Part 17)-1984 Gravimetric method	1 mg/l to 10000 mg/l
		Ammonical Nitrogen	IS-3025(Part 34)-1988, Method 2.5	0.5 mg/l to 1000 mg/l
		Total kjeldhal Nitrogen	IS-3025(Part 34)-1988, Method 5.2	1 mg/l to 1000 mg/l
		Carbonate(CO <sub>3</sub> ) Content	IS-3025(Part -51)2001, Method-7	0.1 mg/l to 1000 mg/l
		Bicarbonate (HCO <sub>3</sub> )	IS-3025(Part 51)2001, Method-7	0.1 mg/l to 1000 mg/l
		Free Carbon dioxide	IS-3025(Part 61)2008	0.1 mg/l to 1000 mg/l
		Oxygen Absorbed in 4h	IS-3025(Part 63)2007	0.4 mg/l to 10mg/l
		Sodium	IS 3025 (Part 45)-1993, RA 2003	1 mg/l to 100 mg/l
		B.O.D	IS 3025 (Part -44)-1993, RA 2003 (27°C for 3 days)	2 mg/l to 1000 mg/l
		Potassium	IS 3025 (Part 45)-1993, RA 2003	1 mg/l to 100 mg/l
		Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34)-1988, RA 2003Method-4	0.01 mg/l to 50 mg/l
		C.O.D.(as O <sub>2</sub> )	APHA-5220B 22nd Edition 2012	4 mg/l to 10000 mg/l
		Total Dissolved Solids (TDS)	IS 3025 (Part -16)-1984, RA 2002, Gravimetric method)	5 mg/l to 10000 mg/L

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		Calcium	IS 3025 (Part -40)-1991, RA 2002, Method-5, EDTA Titrimetric	1 mg/l to 1000 mg/l
		Magnesium	IS-3025(Part -46)-1994 By Calculation	1 mg/l to 1000 mg/l
		Sulphate	IS 3025 (Part -24)-1986, RA 2003	1 mg/l to 1000 mg/ l
		Nitrate	IS 3025 (Part -34)-1988, RA 2003, Method 3.5	1 mg/l to 100 mg/l
		Alkalinity	IS 3025 (Part -23)-1986, RA 2003 Method-8	2.0 mg/l to 1000 mg/l
		Dissolved Oxygen	IS 3025 (Part -38)-1989, RA 2003, Method-4	1 mg/l to 10 mg/l
		Colour	IS 3025 (Part -4)-1983	5 to 500 Hazan
		Phosphorus(P/PO4)	IS 3025 (Part -31)-1988 , Method-4	0.01 mg/l to 100 mg/l
		Silica (as SiO2)	IS 3025 (Part -35)-1985, Method-3 Spectrophotometer	5 mg/l to 100 mg/l
		Phenolic Compound	IS 3025 (Part -43)-1992, Method-6	0.001 mg/l to 1.0 mg/l
		Inorganic Solid	IS 3025 (Part -15) 1984 / APHA - 2540 E	5 mg /liter to 10000 mg /liter
	<b>I - Construction Water</b>	pH	IS 3025 (Part 11)-1983, RA 2002 pH meter)	1.0 to 13
		Chloride	IS 3025 (Part -32)-1988, RA 2002 (Arganophotometer)	1 mg/l to 10000 mg/l
		Total solid	IS-3025(Part 15)1984 Gravimetric	5 mg/l to 10000 mg/l
		Organic solid	IS-3025(15)1984	5 mg/l to 10000 mg/l



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		Inorganic Solid	IS 3025 (Part -15) 1984 / APHA - 2540 E	5 mg /liter to 10000 mg /liter
		Neutralization value H <sub>2</sub> SO <sub>4</sub> In 100 ML.	IS 3025 (Pt - 23) 1986	0.5 ml to 25/100 ml
		Neutralization value Na OH in 100 ml Sample	IS 3025 (Part --22) 1986	0.5 ml to 25/100 ml
		Sulphate	IS 3025 (Part -24)-1986, RA 2003	1 mg/ l to 1000 mg/ l
		Total Suspended Solids	IS-3025 (Part 17)-1984 Gravimetric method	1 mg/ l to 10000 mg/L
<b>III.</b>	<b>RESIDUES IN WATER</b>			
<b>1.</b>	<b>Trace metal elements</b>	Lead Content (as Pb)	IS:3025 (Part 47):1994/ APHA 22 Ed - AAS -VGA	0.01 mg/ l to 100 mg /l
		Arsenic (as As)	IS:3025 (Part 37):1988/ APHA 22 Ed - AAS -VGA	0.010 mg/ l to 50 mg /l
		Mercury (as Hg)	IS:3025 (Part 48):1994/ APHA 22 Ed - AAS -VGA	0.001 mg /l
		Selenium (as Se)	IS:3025 (Part 56):2003/ APHA 22 Ed - AAS -VGA	0.010 to 0.01
		Cadmium (Cd)	IS:3025 (Part 41)1992/ APHA 22 Ed - AAS	0.010 mg/ l to 100 mg /l
		Zinc (as Zn)	IS:3025 (Part 49):1994/ APHA 22 Ed - AAS	0.1 mg/ l to to 100mg /l
		Nickel (as Ni)	IS:3025 (Part 54):2003/ APHA 22 Ed - AAS	0.05 mg/ l to 100 mg/l
		Copper (as Cu)	IS:3025 (Part 42)1992/ APHA 22 Ed - AAS	0.010 mg/ l to 100 mg /l
		Chromium (Total)	IS 3025 (Part -52)-2003Method-6,	0.05 mg/ l to 50 mg/l
		Iron	IS 3025 (pt-53) 2003/ METHOD -6, (Spectrophotometer )	0.1 mg/ l to 10 mg/l

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		Manganese (as Mn)	IS 3025 (Part59)	0.05 mg/ l to 100 mg/l
		Chromium (Hexavalent)	IS 3025 (pt-52)-2003, Method-6,	0.03 mg/ l to 50 mg/l
		Boron (B)	IS 3025 (part 57) : 2005 (colorimetric absorption	0.1 mg/ l to 100 mg /l
<b>IV.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Soil / Sludge</b>	Moisture	NTL/SOIL/SOP/01 Issue no: 01, Issue date: 01-04-2015 (Based on M.L.Jackson Book)	0.1%to to to 100 %
		Conductivity	NTL/SOIL/SOP/02 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	1 uS/cm to 1000 uS/cm
		Specific Gravity	NTL/SOIL/SOP/03 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	1 to 3
		Bulk Density	NTL/SOIL/SOP/04 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	0.8 g /cc to to 2 g /cc
		Potassium	NTL/SOIL/SOP/05 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	1 mg /kg to 1000 mg /kg
		Sodium	NTL/SOIL/SOP/06 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	1 mg /kg to 1000 mg /kg
		Calcium	NTL/SOIL/SOP/07 Issue no: 01, Issue date:	4 mg /kg to 10000 mg /kg

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			01-04-2015 (Based on M.L. Jackson Book)	
		Magnesium	NTL/SOIL/SOP/08 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	4 mg /kg to 5000 mg /kg
		Sulphate (asS04)	NTL/SOIL/SOP/09 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	( 0 .005to to 10) %m
		Chloride	NTL/SOIL/SOP/010 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	(0.01to to 100) mg /kg
		Organic Matter	NTL/SOIL/SOP/011 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	(0.1to to 20) %
		S.A.R.	NTL/SOIL/SOP/012 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	By Calculation 0.1 to 10
		Total Kjeldhal Nitrogen(TKN)	NTL/SOIL/SOP/013 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	50 mg /kg to to 5000 mg /kg
		Oil & Grease	NTL/SOIL/SOP/014 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	10 mg /kg to to 10000 mg/kg
		Total Solid	NTL/SOIL/SOP/015 Issue no: 01, Issue date: 01-04-2015 (Based on M.L. Jackson Book)	0.1%to to 100 %

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2.	Waste Water (Effluents/ Sewage)	pH	IS 3025 (pt-11)-1983, RA 2002 pH meter)	1 to 13
		TDS	IS 3025 (pt-16)-1984,	10 mg/l to 10000 mg/l
		TSS	IS-3025(pt-17)-1984 Gravimetric method	1 mg/l to 10000 mg/l
		Dissolved Oxygen	IS 3025 (pt-38)-1989, RA 2003, Method-4	1 mg/l to 10 mg/l
		Oil & Grease	IS 3025 (pt-39)-1991, RA 2003, Method-5	10 mg/l to 1000 mg/l
		B.O.D.	IS 3025 (pt-44)-1993, RA 2003 (27°C for 3 days)	5 mg/l to 1000 mg/l
		COD	APHA-5220B/22 nd Edition. 2012	10 mg/l to 1000 mg/l
		Fixed Dissolved Solids (FDS)	IS-3025(Pt-18)1984 GRAVIMETRIC	5 mg/l to 10000 mg/l
		Sulphates (as SO <sub>4</sub> )	IS 3025 (Part 24)-2003	10 mg/l to 1000 mg/l
		Ammonical- Nitrogen	IS:3025(Part-34)-2003	0.5 mg/l to 1000 mg/l
		Total Kjeldhal Nitrogen (TKN)	IS:3025(Part-34)-2003	1 mg/l to 1000 mg/l
		Nitrate- Nitrogen	IS:3025(Part-34)-2003	02 mg/l to 1000 mg/l
		Phosphates, (as P )	IS:3025(Part-31)-2003	0.01 mg/l to 100 mg/l
		Chlorides (as Cl)	IS 3025 (pt-32)-1988, RA 2002 ARGANOPHOTOMETER)	1 mg/l to 10000 mg/l
Fluoride (as F)	APHA 4500F (D) 22 <sup>nd</sup> Edition-2012	0.1 mg/l to 25 mg/l		
Sulphides, (as S)	IS 3025 (Part - 29)-2003	0.2 mg/l to 100 mg/l		
Phenolic compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part - 43)-2003	0.01 mg/l to 100 mg/l		
Total Residual Chlorine	IS 3025 (Part - 26)-2003	0.2 mg/l to 10 mg/l		
8.	Petroleum			

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**Validity** 03.12.2017 to 02.12.2019

**Last Amended on** 18.01.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Furnace Oil HSD/LDO	Relative Density@ 15°C	IS 1448 P- 16-2002	800 kg/cm <sup>3</sup> to 1000 kg/cm <sup>3</sup>
	Furnace Oil HSD/LDO Lubricating Oil Gear Oil Hydraulic Oil	K. Viscosity @ 40°C, 50°C, 100°C	IS 1448 P- 25-2007	1 cSt to 200 cSt
	Furnace Oil Lubricating Oil Gear Oil Hydraulic Oil HSD/LDO	Water Content	IS 1448 P- 40-2006	0.02% vol. to 60 % vol.
	Furnace Oil HSD/LDO	Flash Point (PMCC) °C	IS 1448 P- 21-2003	35°C to 400 °C
	Furnace Oil	Ash Content	IS 1448 P- 4-2008	0.01%wt. to 20%wt.
	HSD/LDO	Flash Point (ABEL) °C	IS 1448 P- 20-2004	30°C to 70 °C
		Distillation Recovery@350 & 370°C	IS 1448 P- 18-2000	70°C to 100%
	Lubricating Oil	Viscosity Index	IS 1448 P- 56-2007	50 to 200
		Flash Point COC	IS 1448 P- 69-2003	100°C to 360 °C
		Sulphated Ash	IS 1448 P- 4-2008	0.010% to 30%

AT SITE		
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**Bhumi Rajyaguru**  
Convener

**Alok Jain**  
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Ambient Noise Levels (Excluding Vibration)</b>	Ambient Noise Level	IS 9989 : 1981 (RA 2008)	30 db (A) to 130 db (A)
	<b>Source Noise Levels (Excluding Vibration) Particular Source to be specified</b>	Source Noise Level	IS 4758 : 2002	30 db (A) to 140 db (A)