

Laboratory **Cochin Test House, Kollanpady, Irumpanam, P.O. Kochi, Kerala**

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

Certificate Number **TC-7720 (in lieu of T-3111, T-2340)**

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Validity **12.09.2018 to 11.09.2020**

Last Amended on **10.10.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**BIOLOGICAL TESTING**

I	WATER			
1.	Packaged Drinking Water, Swimming pool Water, Water for Processed Food Industry, Surface Water, Well Water, Bore-Well Water	Coliforms	IS 1622	2 MPN to 1600 MPN/ 100 ml
		Coliforms	IS 15185	Qualitative (Present/ Absent)/250 ml (Present/Absent)/100 ml Quantitative $\geq 1$ cfu/ 100 ml
		Faecal Coliforms	IS 1622	2 MPN to 1600 MPN/ 100 ml
		E coli	IS 1622	2 MPN to 1600 MPN/ 100 ml
		E coli	IS 15185	Qualitative (Present/ Absent)/250 ml (Present/Absent)/100 ml Quantitative $\geq 1$ cfu/100 ml
		Proteolytic Bacteria	IS 4251 Appendix – A	$\geq 1$ cfu/ml
		Lipolytic Bacteria	IS 4251 Appendix – A	$\geq 1$ cfu/ml
		Salmonella spp.	IS 15187	Qualitative (Present/ Absent)/250 ml (Present/Absent)/100 ml
		Yeast and Mold	IS 5403	$\geq 1$ cfu/ ml
		Total Plate Count at 37°C for 48 hours	IS 1622	$\geq 1$ cfu/ml
		Faecal Streptococci	IS 15186	Qualitative (Present/ Absent)/250 ml (Present/Absent)/100 ml
		Yeast and Mold	IS 5403 IS 15188	Qualitative (Present /Absent)/ 250 ml

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		Staphylococcus aureus	IS 5887(Part 2)	Qualitative (Present/ Absent)/ 250 ml
		Sulphite Reducing Anaerobes	IS 13428 (Annex-C)	Qualitative (Present/ Absent)/50 ml
		Pseudomonas aeruginosa	IS 13428 (Annex-D)	Qualitative (Present/ Absent)/ 250 ml
		Total Viable Count at 20 to 22°C for 72 hours	IS 5402	≥ 1 cfu/ ml
		Total Plate Count at 37±1 °C for 24 hours	IS 5402	≥ 1 cfu/ ml
		Shigella spp.	IS 5887 (Part 7)	Qualitative (Present/ Absent)/250 ml
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Present/ Absent)/250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Qualitative (Present/ Absent)/250 ml
<b>II</b>	<b>ENVIRONMENT AND POLLUTION</b>			
<b>1.</b>	<b>Effluent/ Waste water/ sewage</b>	Total plate count at 37°C for 48 hours	IS 1622	≥ 1 cfu/ ml
		Coliforms	IS 1622	2 MPN to 1600 MPN/ 100 ml
		Faecal Coliforms	IS 1622	2 MPN to 1600 MPN/ 100 ml
		E coli	IS 1622	2 MPN to 1600 MPN/ 100 ml
<b>III.</b>	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Raw foods, Cooked Foods, Fruits, vegetables, salads, biryani</b>	Total Plate Count	IS 5402	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1)	≥ 10 cfu/g

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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
	rice, vegetable curry, chicken curry, Noodles, Cooked rice with vegetables, egg and meat.	Coliforms	IS 5401 (Part 2)	0.3 MPN/g to 110 MPN/g
		E coli	IS 5887 (Part 1)	≥ 10 cfu/g 0.3 MPN/g to 110 MPN/g
		E coli	IS 5887 (Part 1)	Qualitative (Present/Absent)/g or 0.1 g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 100 cfu/g
		Salmonella spp.	IS 5887 (Part 3)	Qualitative (Present/Absent)/ 25 g
		Yeast and Mold	IS 5403	≥ 10 cfu/g
2.	Spices and Condiments (Curry and Mixed Masala, Coriander Powder, Chilly Powder, Turmeric Powder, Pepper powder, Dried Ginger, Dried Cardamom, Cloves, Cumin)	Total Plate Count	IS 5402 BAM Chapter– 3	≥ 10 cfu/g ≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1)	0.3 MPN/g to 110 MPN/g
		Coliforms	BAM, Chapter–4	≥ 10 cfu/g
		Coliforms	BAM, Chapter–4	3 MPN/g to 1100 MPN/g
		E coli	IS 5887 (Part 1)	≥ 10 cfu/g
		E coli	IS 5887 (Part 1)	0.3 MPN/g to 110 MPN/g
		E coli	IS 5887 (Part 1)	Qualitative (Present/ Absent)/ g or 0.1 g
		E coli	BAM, Chapter-4	3 MPN/g to 1100 MPN/g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 100 cfu/g
	Staphylococcus aureus	BAM Chapter–12	≥ 100 cfu/g	

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		Salmonella spp.	IS 5887 (Part 3)	Qualitative (Present/Absent) in 25 g
		Salmonella spp.	BAM Chapter-5,	Qualitative (Present/Absent) in 25 g
		Enterobacteriaceae	IS/ ISO 7402	≥ 10 cfu/g
		Yeast and Mold	IS 5403	≥ 10 cfu/g
		Yeast and Mold	BAM, Chapter-18	≥ 10 cfu/g
3.	Cereals and Cereal Products (Atta, Maida, Suji or Rava, Besan, Rice Flour and flakes, Moong dal, Dal Channa, Corn Flour)	Total Plate Count	IS 5402	≥ 10 cfu/g
			BAM, January 2001	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 2)	0.3 MPN/g to 110 MPN/g
		Coliforms	BAM Chapter-4	≥ 10 cfu/g
		Coliforms	BAM Chapter-4	3 MPN/g to 1100 MPN/g
		E.coli	IS 5887 (Part 1)	≥ 10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 MPN/g to 110 MPN/g
		E.coli	IS 5887 (Part 1)	Qualitative (Present/Absent)/ g or 0.1g
		E.coli	BAM Chapter-4,	3 MPN/g to 1100 MPN/g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 100 cfu/g
		Staphylococcus aureus	BAM Chapter-12	≥ 100 cfu/g
		Salmonella	IS 5887 (Part 3)	Qualitative (Present/Absent) in 25g

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		Salmonella spp	BAM, Chapter – 5	Qualitative (Present/Absent) in 25g
		Enterobacteriaceae	IS/ISO 7402	≥ 10 cfu/g
		Yeast and Mold	IS 5403	≥ 10 cfu/g

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<b><u>CHEMICAL TESTING</u></b>				
<b>I.</b>	<b>WATER</b>			
<b>1.</b>	<b>Surface And Ground Water</b>	Colour	IS 3025 (Part 4)	1 to 500 Hazen Unit
		Odour	IS 3025 (Part 5)	Qualitative (Agreeable / Disagreeable)
		pH@25°C	IS 3025 (Part 11)	4 to 11
		Turbidity	IS 3025 (Part 10)	0.8 to 1000 NTU
		Total Dissolved Solids	IS 3025 (Part 16)	5 to 5000 mg/l
		Chloride as Cl	IS 3025 (Part 32)	5 to 5000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)	2 to 2000 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23)	2 to 2000 mg/l
		Nitrate as NO <sub>3</sub>	IS 3025 (Part 34)	0.1 to 100 mg/l
		Iron as Fe	IS 3025 (Part 53)	0.08 to 200 mg/l
		Fluoride as F	APHA: 23 <sup>rd</sup> Edition – 4500 F-D SPADNS Method	0.1 to 100 mg/l
		Sulphate as SO <sub>4</sub>	APHA: 23 <sup>rd</sup> Edition – 4500 SO <sub>4</sub> <sup>2-</sup> E	1 to 500 mg/l
		Electrical Conductivity@25°C	IS 3025 (Part 14)	1 to 10000 µΩ/cm
		Calcium as Ca	IS 3025 (Part 40)	1 to 200 mg/l
		Magnesium as Mg	IS 3025 (Part 46)	1 to 100 mg/l
		Sodium as Na	IS 3025 (Part 45)	1 to 1000 mg/l
		Potassium as K	IS 3025 (Part 45)	1 to 1000 mg/l
		Mercury as Hg	IS 3025 (Part 2)	0.001 to 1 mg/l
		Arsenic as As	IS 3025 (Part 2)	0.005 to 5 mg/l
		Lead as Pb	IS 3025 (Part 2)	0.010 to 5 mg/l
		Nickel as Ni	IS 3025 (Part 2)	0.010 to 10mg/l

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		Selenium as Se	IS 3025 (Part 2)	0.001 to 1 mg/l
		Copper as Cu	IS 3025 (Part 2)	0.01 to 5 mg/l
		Chromium as Cr	IS 3025 (Part 2)	0.010 to 5 mg/l
		Zinc as Zn	IS 3025 (Part 2)	0.010 to 10 mg/l
		Cadmium as Cd	IS 3025 (Part 2)	0.001 to 5 mg/l
		Manganese as Mn	IS 3025 (Part 2)	0.010 to 10 mg/l
		Residual free chlorine	IS 3025 (Part 26)	0.2 to 10 mg/l
		Aluminium as Al	IS 3025 (Part 55)	0.02 to 10 mg/l
		Hexavalent Chromium as Cr <sup>6+</sup>	APHA: 23 <sup>rd</sup> Edition -3500 Cr B	0.1 to 10 mg/l
		Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 (Part 43)	0.001 to 10 mg/l
		Cyanide as CN	IS 3025 (Part 27)	0.02 to 5 mg/l
		Reactive Silica as SiO <sub>2</sub>	IS 3025 (Part 35)	0.5 to 100 mg/l
		Vanadium as V	IS 3025 (Part 2)	0.01 to 5 mg/l
		Sulphide	APHA: 23 <sup>rd</sup> Edition – 4500 S·D/F	1.0 to 500 mg/l
		Total Suspended Solids	IS 3025 (Part 16)	2 to 1000 mg/l
		Chloramines	IS 3025 (Part 26)	1 to 10 mg /L
		Oxygen absorbed in 4 hours @27°C	IS 3025 (Part 63)	0.4 to 10 mg/l
2.	Swimming Pool Water	Odour	IS 3025 (Part 5)	Qualitative (Agreeable/ Disagreeable)
		pH	IS 3025 (Part 11)	4 to 11
		Turbidity	IS 3025 (Part 10)	1 to 1000 NTU
		Total Dissolved Solids	IS 3025 (Part 16)	5 to 5000 mg/l
		Chloride as Cl <sup>-</sup>	IS 3025 (Part 32)	5 to 5000 mg/l
		Total Alkalinity as Ca CO <sub>3</sub>	IS 3025 (Part 23)	2 to 2000 mg/l
		Iron as Fe	IS 3025 (Part 53)	0.08 to 200 mg/l
		Aluminium as Al	IS 3025 (Part 55)	0.02 to 10 mg/l

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		Residual free chlorine	IS 3025 (Part 26)	0.2 to 10 mg/l
		Oxygen absorbed in 4 hours @27°C	IS 3025 (Part 63)	0.4 to 10 mg/l
		Colour	IS 3025 (Part 4)	1 to 500 Hazen Unit
		Lead as Pb	IS 3025 (Part 2)	0.010 to 5 mg/l
3.	Drinking Water / Packaged Drinking Water	Colour	IS 3025 (Part 4)	1 to 500 Hazen Unit
		Odour	IS 3025 (Part 5)	Qualitative (Agreeable/Disagreeable)
		pH	IS 3025 (Part 11)	4 to 14
		Turbidity	IS 3025 (Part 10)	0.8 to 1000 NTU
		Total Dissolved Solids	IS 3025 (Part 16)	5 to 5000 mg/l
		Chloride as Cl <sup>-</sup>	IS 3025 (Part 32)	5 to 5000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)	2 to 2000 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23)	2 to 2000 mg/l
		Nitrate as NO <sub>3</sub>	IS 3025 (Part 34)	0.1 to 100 mg/l
		Iron as Fe	IS 3025 (Part 53)	0.08 to 200 mg/l
		Fluoride as F	APHA: 23 <sup>rd</sup> Edition – 4500 F D SPADNS Method	0.1 to 100 mg/l
		Sulphate as SO <sub>4</sub>	APHA: 23 <sup>rd</sup> Edition-4500 SO <sub>4</sub> <sup>2-</sup> E	1 to 500 mg/l
		Calcium as Ca	IS 3025 (Part 40)	1 to 200mg/l
		Magnesium as Mg	IS 3025 (Part 46)	1 to 100mg/l
		Zinc as Zn	IS 3025 (Part 2)	0.01 to 10mg/l
		Cyanide as CN	IS 3025 (Part 27)	0.02 to 5 mg/l
		Total Suspended Solids	IS 3025 (Part 16)	2 to 1000 mg/l
		Electrical conductivity @ 25°C	IS 3025 (Part 14)	1 to 10000 µΩ/cm
		Sodium as Na	IS 3025 (Part 45)	1 to 1000 mg/l
		Potassium as K	IS 3025 (Part 45)	1 to 1000 mg/l
		Mercury as Hg	IS 3025 (Part 2)	0.001 to 1 mg/l
		Arsenic as As	IS 3025 (Part 2)	0.005 to 5mg/l



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		Lead as Pb	IS 3025 (Part 2)	0.010 to 5 mg/l
		Nickel as Ni	IS 3025 (Part 2)	0.010 to 2mg/l
		Selenium as Se	IS 3025 (Part 2)	0.001 to 5 mg/l
		Copper as Cu	IS 3025 (Part 2)	0.01 to 5 mg/l
		Chromium as Cr	IS 3025 (Part 2)	0.010 to 5 mg/l
		Cadmium as Cd	IS 3025 (Part 2)	0.001 to 5 mg/l
		Manganese as Mn	IS 3025 (Part 2)	0.010 to 5 mg/l
		Residual free chlorine	IS 3025 (Part 26)	0.2 to 10 mg/l
		Aluminium as Al	IS 3025 (Part 55)	0.02 to 10 mg/l
		Hexavalent Chromium as Cr <sup>6+</sup>	APHA: 23 <sup>rd</sup> Edition – 3500 Cr B	0.1 to 10 mg/l
		Phenolic compounds	IS 3025 (Part 43)	0.001 to 10 mg/l
		Reactive Silica as SiO <sub>2</sub>	IS 3025 (Part 35)	0.5 to 100 mg/l
		Sulphide	APHA: 23 <sup>rd</sup> Edition – 4500 S <sup>-2</sup> /F	1 to 500 mg/l
		Oxygen absorbed in 4 hours @27°C	IS 3025 (Part 63)	0.4 to 10 mg/l
		Silver as Ag	IS 3025 (Part 2)	0.005 to 5 mg/l
		Antimony as Sb	IS 3025 (Part 2)	0.001 to 1 mg/l
		Molybdenum as Mo	IS 3025 (Part 2)	0.010 to 10 mg/l
		Vanadium as V	IS 3025 (Part 2)	0.01 to 5 mg/l
		Boron as B	IS 3025 (Part 2)	0.010 to 5 mg/l
		Barium as Ba	IS 3025 (Part 2)	0.010 to 10 mg/l
<b>II.</b>	<b>POLLUTION AND ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Sewage / Effluent)</b>	pH	IS 3025 (Part 11)	4 to 11
		Total Suspended Solids	IS 3025 (Part 16)	2 to 1000 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58)	10 to 5000 mg/l
		BOD @ 27°C 3 days	IS 3025 (Part 44)	2 to 1000 mg/l
		Oil & Grease	IS 3025 (Part 39)	4 to 1000 mg/l

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		Phenolic compounds	IS 3025 (Part 43)	0.001 to 10 mg/l
		Sulphide	APHA: 23 <sup>rd</sup> Edition – 4500 S·D/F	0.2 to 500 mg/l
		Cyanide as CN	IS 3025 (Part 27)	0.02 to 5 mg/l
		Ammoniacal Nitrogen as NH <sub>3</sub> -N	IS 3025 (Part 34)	1 to 200 mg/l
		Total Kjeldhal Nitrogen as N	IS 3025 (Part 34)	1 to 200 mg/l
		Total Phosphate as P	APHA 23 <sup>rd</sup> Edition 4500-P(C)	0.2 to 100 mg/l
		Chromium as Cr	IS 3025 (Part 2)	0.010 to 5 mg/l
		Lead as Pb	IS 3025 (Part 2)	0.010 to 5 mg/l
		Copper as Cu	IS 3025 (Part 2)	0.01 to 5 mg/l
		Mercury as Hg	IS 3025 (Part 2)	0.001 to 5 mg/l
		Nickel as Ni	IS 3025 (Part 2)	0.010 to 5 mg/l
		Zinc as Zn	IS 3025 (Part 2)	0.010 to 10 mg/l
		Hexavalent Chromium as Cr <sup>6+</sup>	APHA: 23 <sup>rd</sup> Edition – 3500 Cr B	0.1 to 10 mg/l
		Turbidity in treated effluent	IS 3025 (Part 10)	1 to 1000 NTU
		Colour in treated effluent	IS 3025 (Part 4)	1 to 500 Hazen Unit
		Odour in treated effluent	IS 3025 (Part 5)	Qualitative (Agreeable / Disagreeable)
		Total Dissolved Solids	IS 3025 (Part 16)	5 to 5000 mg/l
		Chloride as Cl <sup>-</sup>	IS 3025 (Part 32)	5 to 5000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)	2 to 2000 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23)	2 to 2000 mg/l
		Nitrate as NO <sub>3</sub>	IS 3025 (Part 34)	0.1 to 100 mg/l
		Iron as Fe	IS 3025 (Part 53)	0.08 to 200 mg/l
		Fluoride as F	APHA: 23 <sup>rd</sup> Edition – 4500 F·D SPADNS Method	0.1 to 100 mg/l

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		Sulphate as SO <sub>4</sub>	APHA: 23 <sup>rd</sup> Edition -4500 SO <sub>4</sub> <sup>2-</sup> E	1 to 500 mg/l
		Electrical conductivity @ 25°C	IS 3025 (Part 14)	1 to 10000 µΩ/cm
		Sodium as Na	IS 3025 (Part 45)	1 to 1000 mg/l
		Potassium as K	IS 3025 (Part 45)	1 to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40)	1 to 200mg/l
		Magnesium as Mg	IS 3025 (Part 46)	1 to 100mg/l
		Total Nitrogen	IS 3025 (Part 34)	1 to 200 mg/l
		Arsenic as As	IS 3025 (Part 2)	0.005 to 5 mg/l
		Cadmium as Cd	IS 3025 (Part 2)	0.001 to 5 mg/l
		Manganese as Mn	IS 3025 (Part 2)	0.010 to 10 mg/l
		Selenium as Se	IS 3025 (Part 2)	0.001 to 5 mg/l
		Vanadium as V	IS 3025 (Part 2)	0.01 to 5mg/l
		Residual free chlorine	IS 3025 (Part 26)	1.0 to 10 mg/l
		Nitrite	IS 3025 (Part 34)	0.02 to 100 mg/l
		Silver as Ag	IS 3025 (Part 2)	0.005 to 5 mg/l
		Antimony as Sb	IS 3025 (Part 2)	0.001 to 5 mg/l
		Molybdenum as Mo	IS 3025 (Part 2)	0.010 to 10 mg/l
<b>III.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Ambient Air Quality Monitoring</b>	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 (Part 2)	4 to 1000 µg/m <sup>3</sup>
		Nitrogen dioxide(NO <sub>x</sub> )	IS 5182 (Part 6)	6 to 750 µg/m <sup>3</sup>
		PM <sub>10</sub> Particulate matter (Size<10 µm)	IS 5182 (Part 23)	10 to 1000 µg/m <sup>3</sup>
		PM <sub>2.5</sub> Particulate Matter(Size<2.5 µm)	CTH/CH/SOP/462 Dated 20/8/2015	4 to 200 µg/m <sup>3</sup>

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		Ozone as O <sub>3</sub>	IS 5182 (Part 2)	1.2 to 145 µg/m <sup>3</sup>
		Carbon Monoxide(CO)	CTH/CH/SOP/473 Dated 14/03/2018	0.012 to 50 mg/m <sup>3</sup>
		Ammonia	CTH/CH/SOP/447 Issue No.2 issued on 01/06/2017	20 to 500 µg/m <sup>3</sup>
		Suspended particulate matter(SPM)	IS 5182 (Part 4)	10 to 500 µg/m <sup>3</sup>
		Lead	CTH/CH/SOP/491 Issue No.1 issued on 24/05/2018	0.002 to 10 µg/m <sup>3</sup>
		Nickel	CTH/CH/SOP/491 Issue No.1 issued on 24/05/2018	2 to 10 ng/m <sup>3</sup>
		Arsenic	CTH/CH/SOP/491 Issue No.1 issued on 24/05/2018	2 to 10 ng/m <sup>3</sup>
		Hydrogen sulphide	IS 5182 (Part 7)	1 to 100 µg/m <sup>3</sup>
		Benzo (a) Pyrene	IS 5182 (Part 12)	0.7 to 100 ng/m <sup>3</sup>
		Benzene	IS 5182 (Part 11)	0.3 to 100 µg/m <sup>3</sup>
2.	<b>Stack Emission Monitoring</b>	Particulate Matter	IS 11255 (Part 1)	10 to 500 mg/Nm <sup>3</sup>
		Sulphur dioxide(SO <sub>2</sub> )	IS 11255 (Part 2)	1 to 500 mg/Nm <sup>3</sup>
		Nitrogen dioxide(NO <sub>x</sub> )	IS 11255 (Part 7)	1 to 500 mg/Nm <sup>3</sup>
		Hydrogen sulphide	IS 11255 (Part 4)	1 to 100 mg/Nm <sup>3</sup>
		Ammonia (NH <sub>3</sub> )	IS 11255 (Part 6)	1 to 500 mg/Nm <sup>3</sup>
		Carbon Monoxide(CO)	CTH/CH/SOP/458 Issue No.2 dated 01/06/2017	1.88 to 2000 mg/Nm <sup>3</sup>
		Oxygen (O <sub>2</sub> )	CTH/CH/SOP/465 Issue No.2 dated 01/06/2017	1 to 21 %

Laboratory Cochin Test House, Kollanpady, Irumpanam, P.O. Kochi, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7720 (in lieu of T-3111, T-2340)

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Validity 12.09.2018 to 11.09.2020

Last Amended on 10.10.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Carbon dioxide (CO <sub>2</sub> )	CTH/CH/SOP/466 Issue No.2 dated 01/06/2017	1 to 20 %
		Acid mist	CTH/CH/SOP/474 Dated 02/3/2018	0.5 to 5 mg/Nm <sup>3</sup>
		Vanadium	USEPA METHOD 29-1191	0.04 to 100 mg/Nm <sup>3</sup>
		Nickel	USEPA METHOD 29-1191	0.04 to 100 mg/Nm <sup>3</sup>
		Hydrogen Fluoride	USEPA METHOD 13A - 1191	1 to 100 mg/Nm <sup>3</sup>
3.	Noise Level Monitoring	Ambient Noise levels	CTH/CH/SOP/463 Dated 20/8/2015)	30 to 120 db (A)
		Source(DG Set Only )	CTH/CH/SOP/464 Dated 20/8/2015	30 to 120 db (A)