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AT L	ABORATORY				
I.	AIR GASES & ATMOS	SPHARE			
1.	Stack Emission	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2): 1985 (RA 2001	$3)  5 \text{ mg/Nm}^3$	<sup>3</sup> to 5000 mg/Nn
	Monitoring	Oxides Of Nitrogen (NO <sub>2</sub> )	IS 11255 (Part 7): 2012 (RA 200	6) 5 mg/Nm <sup>2</sup>	to 400 mg/Nm <sup>3</sup>
		Particulate Matter	IS 11255 (Part 1): 1985 (RA 2003	3) 1 mg/Nm <sup>3</sup>	<sup>3</sup> to 5000 mg/Nn
2.	Ambient Air Monitoring	Particulate Matter (PM-10)	IS 5182 (Part 23) (RA 2006)	5 µg/Nm <sup>3</sup>	to 1000 μg/Nm <sup>3</sup>
		Particulate Matter (PM-2.5)	STP No. TRA/STP/AA/02 Based on manual instrument manufactures	10 µg/Nm	<sup>3</sup> to 1000 μg/Nn
		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001 (RA 2002)	) 5 $\mu$ g/Nm <sup>3</sup>	to 100 µg/Nm <sup>3</sup>
		Oxides Of Nitrogen NO <sub>2</sub>	IS 5182 (Part 6): 2006 (RA 2009)	) 5 $\mu$ g/Nm <sup>3</sup>	to 1050 μg/Nm <sup>3</sup>
		Ammonia	STP No. TRA/STP/AA/05 Based on method of sampling and analysis 3rd edition Method No. 401 Indo phenol Blue Method		to 1000 μg/Nm <sup>3</sup>
		Chlorine	IS 5182 (Part 19): 1982 (RA 2003	3) 5 $\mu$ g/Nm <sup>3</sup>	to 400 µg/Nm <sup>3</sup>
II.	POLLUTION & ENV	IRONMENT			
1.	Liquid effluents	Temperature	IS 3025 (Part 9) (RA 2002)	0 to 100 $^\circ$	С
1.	(Waste water)	-			

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	Liquid effluents	Alkalinity	IS 3025 (Part 23): 1986 (RA 2006	6) 5 mg/L to	1000 mg/L	
	(Waste water)	Biochemical Oxygen Demand	IS 3025 (Part 44): 1993 (RA 2003	3) 1 mg/L to	10000 mg/L	
		Chemical Oxygen Demand	APHA 22 <sup>nd</sup> Ed. 5220 B	5 mg/L to	20000 mg/L	
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2003	3) 0.1 mg/L	to 15 mg/L	
		Total Solids	IS 3025 (Part 15): 1984 (RA 2003	3)  5  mg/L to	10000 mg/L	
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006	6) 5 mg/L to	10000 mg/L	
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 1996	6) 5 mg/L to	10000 mg/L	
		Total Hardness	APHA 22nd Ed. 2340 - C	5 mg/L to	5000 mg/L	
		Calcium Hardness	APHA 22nd Ed. 3500 - Ca: B	5 mg/L to	5000 mg/L	
		Magnesium hardness	APHA 22nd Ed. 3500 - Mg: B	5 mg/L to	5000 mg/L	
		Calcium as Ca <sup>+2</sup>	APHA 22nd Ed. 3500 - Ca: B	2 mg/L to	500 mg/L	
		Magnesium as Mg <sup>+2</sup>	APHA 22nd Ed. 3500 - Mg: B	1 mg/L to	500 mg/L	
		Oil And Grease	IS 3025 (Part 39): 1991 (RA 2009	9) 5 mg/L to	500 mg/L	
		рН	IS 3025 (Part 11) (RA 2006)	1 to 14		
		Electric Conductivity	IS 3025 (Part 14): 2013 (RA 2006	6) 0.1 μS to	200 mS	
		Chloride as Cl-	IS 3025 (Part 32): 1988 (RA 2007	7) 5 mg/L to	20000 mg/L	

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	Liquid effluents (Waste water)	Sulphate as SO <sub>4</sub> - <sup>2</sup>	APHA 22nd Ed. 4500 $SO_4^{-2}$ E	5 mg/L to >50 mg/L	
		Colour	APHA 22 <sup>nd</sup> Ed. 2120 B Visual Comparison Method	5 CU to 5	00 CU
		Turbidity	APHA 22 <sup>nd</sup> Ed. 2130 B Visual Nephelometric Method	0.1 NTU 1	to 1000 NTU
		Volatile and Fixed Residue	IS 3025 (Part 18): 1984 (RA 200	2) 2 mg/L to	1000 mg/L
		Sulphite	APHA 22nd Ed. 4500 SO <sup>3-</sup> B Iodometric Method	2.0 mg/L	to 250 mg/L
		Ammonical Nitrogen	APHA 22nd Ed. 4500 NH3 C Titration Method	0.5 mg/L	to 500 mg/L
		Hexa Chromium	IS 3025 (Part 52): 2003 Diphenylcarbazide Method	0.1 mg/L	to 20 mg/L
		Total Chromium	IS 3025 (Part 52): 2003	0.1 mg/L	to 20 mg/L
		Sodium	APHA 22nd Ed. 3500 Na B Flame Photometric Method	1 mg/L to	100 mg/L
		Potassium	APHA 22nd Ed. 3500 K B. Flame Photometric Method	2 mg/L to	100 mg/L

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III.	WATER					
1.	1. Potable & Domestic water/ Bore water/ Ground Water/ Surface Water/ Saline water	Temperature	IS 3025 (Part 9) (RA 2002)	0 to 100 °	С	
		Acidity	IS 3025 (Part 22): 1986 (RA 200	5  mg/L to	1000 mg/L	
		Alkalinity	IS 3025 (Part 23): 1986 (RA 200	(6) $5 \text{ mg/L to}$	5 mg/L to 1000 mg/L	
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 200	03) 0.1 mg/L	to 15 mg/L	
		Total Solids	IS 3025 (Part 15): 1984 (RA 200	5  mg/L to	10000 mg/L	
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 200	(6) $5 \text{ mg/L to}$	10000 mg/L	
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 199	(96) 5 mg/L to	10000 mg/L	
		Total Hardness	APHA 22nd Ed. 2340 - C	5 mg/L to	5000 mg/L	
		Calcium Hardness	APHA 22nd Ed. 3500 - Ca	5 mg/L to	5000 mg/L	
		Magnesium hardness	APHA 22nd Ed 3500 - Mg: B	5 mg/L to	5000 mg/L	
		Calcium as Ca <sup>+2</sup>	APHA 22nd Ed. 3500 - Ca: B	2 mg/L to	5000 mg/L	
		Magnesium as Mg <sup>+2</sup>	APHA 22nd Ed. 3500 - Mg: B	1 mg/L to	5000 mg/L	
		Oil And Grease	IS 3025 (Part 39): 1991 (RA 200	09) 5 mg/L to	500 mg/L	
		рН	IS 3025 (Part 11) (RA 2006)	1 to 14		

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AT S	ITE					
I.	NOISE (EXCLUDIN	G VIBRATION)				
		Noise	IS 9989: 1991	30 dB(A)	to 130(A)	
		<b>X7 X7 X7 X7 X7 X7 X</b> 7 X				