Laboratory			Quality Marking & Testing Laboratory, M.P. Laghu Udyog Nigam Limited, Pologround Industrial Area, Indore, Madhya Pradesh				
Accreditation Standard		rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005				
Discipline Certificate Number Last Amended on		Chemical Testing		Issue Date	30.04.2015		
		T-0262		Valid Until	29.04.2017		
		06.05.2015	06.05.2015		1 of 5		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		of Testing / of Detection		
I.	METALS & ALLO	YS					
1.	Iron & Steel Products (Wrought, Cast Rolled and Fabricated items)	Carbon	IS 228 (Part 1): 1987 (RA 1997)	0.05 % to 2.5	%		
		Sulphur	IS 228 (Part 9): 1989 (RA 1999)	0.01 % to 0.08 %			
		Phosphorus	IS 228 (Part 3): 1987 (RA 1997)	0.01 % to 0.08	3 %		
		Manganese	IS 228 (Part 2): 1987 (RA 1997)	0.1 % to 2 %			
		Silicon	IS 228 (Part 8): 1989 (RA 1999)	0.05 % to 2 %			
		Nickel	IS 228 (Part 5): 1987 (RA 1997)	0.10 % to 14 9	6		
		Chromium	IS 228 (Part 6): 1987 (RA 1997)	0.10 % to 20 %	6		
2.	Copper & Copper Alloys Products	Tin	IS 3685: 1966 (RA 1996) IS 4027 (Part 5): 1987 (RA 1996)	0.10 % to 12 9	%		
		Lead	IS 3685: 1966 (RA 1996) IS 4027 (Part 1): 1987 (RA 1996)	0.10 % to 20 %	6		
		Copper	IS 3685: 1966 (RA 1996) IS 4027 (Part 1): 1987 (RA 1996)	50 % to 99.99)%		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection		
	Copper & Copper Alloys Products	Zinc	IS 3685: 1966 (RA 1996) IS 4027 (Part 6): 1987 (RA 1996)	0.10 % to 45	%		
		Iron	IS 3685: 1966 (RA 1996) IS 4027 (Part 8): 1991	0.10 % to 1.0	%		
		Nickel	IS 4027 (Part 4): 1987 (RA 1996)	0.10 % to 2 %)		
3.	Aluminium & Aluminium Alloys Products	Silicon	IS 504 (Part 1): 2002	0.10 % to 10 9	6		
		Manganese	IS 504 (Part 5): 2002	0.05 % to 2 %			
II.	INDUSTRIAL & F	INE CHEMICALS					
1.	Bleaching Powder	Available Chlorine	IS 1065: 1989	1 % to 45 %			
		Stability	IS 1065: 1989	0.5 % to 100 %	6		
		Moisture	IS 1065: 1989	0.10 % to 5 %			
2.	Chlorine Tab.	Moisture	IS 9825: 2003	0.10 % to 5 %			
		Available Chlorine	IS 9825: 2003	1 % to 45 %			
3.	Sodium Hypo Chlorite	Available Chlorine	IS 11673: 1992 (RA 1997)	1 % to 45 %			
		Relative Density	IS 11673: 1992 (RA 1997)	1 to 1.20			
		Free Alkali	IS 11673: 1992 (RA 1997)	0.1 g/L to 10 g	g/L		
		Free Sodium Carbonate	IS 11673: 1992 (RA 1997)	0.1 g/L to 5 g/	L		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		of Testing / of Detection		
4.	Alum	Soluble Iron Compounds	IS 299: 1989 (RA 1999)	0.1 % to 2 %			
		Water Soluble Aluminium Compound	IS 299: 1989 (RA 1999)	0.5 % to 20 %			
		pH Value	IS 299: 1989 (RA 1999)	1 to 14			
		Basicity/Acidity	IS 299: 1989 (RA 1999)	0.1 % to 1 %			
		Lead	IS 299: 1989 (RA 1999)	2 ppm to 50 p	pm		
		Arsenic	IS 299: 1989 (RA 1999)	1 ppm to 20 p	pm		
		Water Insoluble Matter	IS 299: 1989 (RA 1999)	0.01 % to 2 %			
5.	Sulphuric Acid	Total Acidity	IS 266: 1993	0.1 % to 99 %			
		Residue on Ignition	IS 266: 1993	0.01 % to 1 %			
		Organic Matter	IS 266: 1993	Qualitative			
III.	FOOD AND AGRI	CULTURAL PRODUCTS					
1.	Alcoholic Drinks,	Ethyl Alcohol	IS 3752: 2005	2 % to 100 %			
	Beverages (Country Spirit, Rectified Spirit, Neutral Spirit,	Residue on Evaporation	IS 3752: 2005 IS 323: 1959 (RA 1999)	0.01 % to 2.5	%		
	Whisky, Rum, Gin, Beer, Brandy)	Esters	IS 3752: 2005 IS 323: 1959 (RA 1999)	2.5 g/100 L to	50 g/100 L		

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Accreditation Standard		d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Discipline Certificate Number Last Amended on		Chemical Testing		Issue Date	30.04.2015			
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		of Testing / of Detection			
	Alcoholic Drinks, Beverages (Country Spirit, Rectified Spirit, Neutral Spirit, Whisky, Rum, Gin, Beer, Brandy)	Volatile Acid	IS 3752: 2005 IS 323: 1959 (RA 1999)	10 g/100 L to	100 g/100 L			
		Higher Alcohol	IS 3752: 2005 IS 323: 1959 (RA 1999)	10 g/100 L to 350 g/100 L				
		Aldehydes	IS 3752: 2005 IS 6613: 2002	1.0 g/100 L to	45 g/100 L			
		Furfural	IS 3752: 2005	0.5 g/100L to	12 g/100L			
		Methyl Alcohol	IS 3752: 2005	Qualitative				
		Copper	IS 3752: 2005	0.0002 g/100r	nl to 1 g/100ml			
		Alkalinity	IS 323: 1959 (RA 1995)	Qualitative				
		Lead	IS 323: 1959 (RA 1995)	0.00005 g/100 ml to 1 g/100 m				
		Relative Density of Alcohol	IS 3506: 1989	0.99 to 0.77				
		Total Acids	IS 3752: 2005	02 mg/100 L t	to 200 mg/100 L			
2.	Spices & Condiments (Chilly whole & powder, Coriander Powder, Turmeric whole & Powder, Curry powder)	Moisture	IS 1797: 1985 (RA 2001)	0.1 % to 15 %				
		Total Ash	IS 1797: 1985 (RA 2001)	0.1 % to 10 %				
		Acid Insoluble Ash	IS 1797: 1985 (RA 2001)	0.01 % to 2 %				
		Crude Fibre	IS 1797: 1985 (RA 2001)	1 % to 35 %				
		Non-volatile Ether Extract	IS 1797: 1985 (RA 2001)	1 % to 35 %				

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IV. METALLIC COATINGS AND TREATMENT SOLUTIONS

	Metallic Coatings Barbed Wire, Steel	Uniformity of Zinc coating	IS 2633: 1986 (RA 1998)	Qualitative
	Tube, Structural steel, Galv.Fastners, Anodic coating on Al. & its alloys	Mass of Zinc coating	IS 4826: 1979 (RA 1998) IS 6745: 1972 (RA 1998)	5 g/mt ² to 1000 g/mt ²
		Anodic coating thickness	IS 5523: 1983 (RA 1999)	1 micron to 25 micron
V.	WATER			
1.	Water for construction	рН	IS 3025 (Part 11): 1983	0.1 to 14
		Limit of Acidity	IS 3025 (Part 22): 1986	0.01 ml to 20 ml
		Limit of Alkalinity	IS 3025 (Part 23):1986	0.01 ml to 30 ml
		Chlorides	IS 3025 (Part 32): 1988	1 mg/L to 250 mg/L
		Organic Solids	IS 3025 (Part 18): 1984	1 mg/L to 400 mg/L
		Inorganic Solids	IS 3025 (Part 18): 1984	1 mg/L to 1000 mg/L
		Suspended Matter	IS 3025 (Part 17): 1984	1 mg/L to 1000 mg/L
		Sulphates	IS 3025 (Part 24): 1986	1 mg/L to 400 mg/L
VI.	Paper & Pulp			
1.	Paper & Paper Boards	рН	IS 1060 (Part 1): 1966	1 to 4
		Substance	IS 1060 (Part 1): 1966	1 g/sq.m to 700 g/sq.m

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