Laboratory Accreditation Standard Discipline Certificate Number Last Amended on		Jyoti Test House, B-1/1	Jyoti Test House, B-1/111, Sector-11, Faridabad, Haryana				
		ISO/IEC 17025: 2005					
		Mechanical Testing		Issue Da	ate 14.10.2013		
		T-1895		Valid Un	til 13.10.2015		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specifica against which tests a performed		Range of Testing / Limits of Detection		
I.	BUILDING MATERIAI	LS					
1.	CEMENT	Compressive Strength	IS: 4031 (Part-6) 1988 Reaffirmed – 2009	:	20 to 100 Mpa		
		Consistency	IS: 4031 (Part-6) 1988 Reaffirmed – 2007		10 to 45%		
		Initial & Final Setting Time	IS: 4031 (Part-5) 1988 Reaffirmed – 2005		30 to 600 min		
		Soundness by Le-chitlier Method	IS: 4031 (Part-3) 1988 Reaffirmed – 2009		0.5 to 10 mm		
		Soundness by Auto Clave	IS: 4031 (Part-3) 1988 Reaffirmed – 2009		0.01 to 1%		
		Fineness by Blaine method	IS: 4031 (Part-2) 1999 Reaffirmed – 2008		150 to 600 m ² /kg		
		Specific Gravity	IS: 4031 (Part-2) 1999 Reaffirmed – 2007	:	2.5 to 3.2		
2.	CONCRETE (Design Mix)	Slump	IS: 1199:1959		20 to 150 mm		
		Compressive Strength	IS: 516-1959 Reaffirmed – 2004	:	20 to 50 N/mm ²		
3.	COARSE AGGREGATE	Sieve Analysis	IS: 2386 (Part-1) 1997 Reaffirmed – 2002		1 to 100%		
		Material finer than 75 micron	IS: 2386 (Part-1) 1997 Reaffirmed – 2002		1 to 15%		

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COARSE AGGREGATE	Flakiness Index	IS: 2386 (Part-1) 1997 Reaffirmed – 2002	15 t/	o 45%	
	Elongation Index	IS: 2386 (Part-1) 1997 Reaffirmed – 2002	15 te	0 45%	
	Bulk Density	IS: 2386 (Part-3) 1997 Reaffirmed – 2009	0.1te	o 3.0 g/cc	
	Specific Gravity	IS: 2386 (Part-3) 1997 Reaffirmed – 2009	2.3 1	to 3.5	
	Water Absorption	IS: 2386 (Part-3) 1997 Reaffirmed – 2009	0.5	to 5%	
	Crushing Value	IS: 2386 (Part-4) 1997 Reaffirmed – 2009	5 to	45%	
	10% Fines Value	IS: 2386 (Part-4) 1997 Reaffirmed – 2009	100	to 300 kN	
4. FINE AGGREGATE	Impact Value	IS: 2386 (Part-4) 1997 Reaffirmed – 2009	5 to	45%	
	Loss Angles Abrasion Value	IS: 2386 (Part-4) 1997 Reaffirmed – 2009	10 te	0 50%	
	Soundness	IS: 2386 (Part-5) 1997 Reaffirmed – 2009	1 to	15%	
	Sieve Analysis	IS: 2386 (Part- 1) 1997 Reaffirmed – 2002	0 to	100%	
	Water Absorption	IS: 2386 (Part-3) 1997 Reaffirmed – 2009	0.5 1	to 50%	

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	FINE AGGREGATE	Specific Gravity	IS: 2386 (Part-3) 1997 Reaffirmed – 2007	2.3	to 3.5	
		Bulk Density	IS: 2386 (Part-3) 1997 Reaffirmed – 2007	1.4	to 1.8 g/cc	
		Deleterious Material -Finer than 75 micron -Clay Humps	IS: 2386 (Part-5) 1997 Reaffirmed – 2007	1 tc	0 10%	
		Slit Contents (By Volume Only)	CPWD SPECIFIC	2 to	20%	
		Soundness	IS: 2386 (Part-5) 1997 Reaffirmed – 2007	0.5	to 10%	
5.	ADMIXTURE FOR CONCRETE USE	Setting Time	IS: 9103-1999	30 1	to -600 min	
	CONCRETE USE	Slump loss of workability	IS: 9103-1999	10	to 120 mm	
		Length Change	IS: 9103-1999	0 to	12.7 mm	
		Air Content	IS: 9103-1999	0.5	to 10%	
		Bleeding	IS: 9103-1999	0.1	to 10%	
6.	CONCRETE CUBE	Compressive Strength	IS: 516-1959 Reaffirmed – 2004	100	to 600 N/mm ²	
7.	SOIL	Plastic limit and liquid limit	IS: 2720 (Part-5) 1985 Reaffirmed – 2006	2 to	9 40%	
		Standard Proctor Test (OMC, MDD) Light Compaction	IS: 2720 (Part-7) 1980 Reaffirmed – 2007		DD: 1 to 5 g/cc IC: 1 to 50%	

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	SOIL	Standard Proctor Test (OMC,MDD) Heavy Compaction	IS: 2720 (Part 8) 1980 Reaffirmed – 2007		OMC	D: 1 to 5% g/cc C: 1 to 50% g/cc	
		Laboratory CBR	IS: 2720 (Part 16) 1987 Reaffirmed – 2002		1 to 9	90%	
		Specific Gravity	IS: 2720 (Part 3) 1987 Reaffirmed – 2007		1.5 to	0 3.5	
8.	BRICKS	Compressive Strength	IS: 3495 (Part 2) 1992 Reaffirmed – 2007		0.5 to	o 35 N/mm ²	
		Water Absorption	IS: 3495 (Part 3) 1992 Reaffirmed – 2007		0.05	to 20%	
		Efflorescence	IS: 3495 (Part 4) 1992 Reaffirmed – 2007		Qual	itative Test	
		Dimension	IS: 1077-1992 Reaffirmed 2007		Widt	th: 4500 h: 2200 ht: 1400	
II. M	ETAL & ALLOYS						
1.	STEEL & STEEL ALLOYS (Rod, sheet, Channel,	OYS Reaffin			40 to	1000 N/mm ²	
	Angle, TMT)	Elongation	IS 1608: 2005 Reaffirmed 2008		0.2 to	0 40%	
		Bend Test	IS 1599: 1985 Reaffirmed 2008		1° to	180°	

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2.	STAINLESS STEEL ALLOYS	Yield Stress	IS 1608: 1995 Reaffirmed 2008	40 to	o 1000 N/mm ²	
		Weight per meter	IS 1786: 2008	1 to	20 kg/m	
		Rebend Test	IS 1786: 2008	Qua	litative	
		Impact Strength a) Charpy	IS 1757: 1988 Reaffirmed 2008	25 J	to 300 J	
		b) Izod	IS 1499: 1977 Reaffirmed 2008	25 J	to 300 J	
		Hardness a) HRA at 60 kgf	IS: 1586-2000 Reaffirmed 2008	20 to	0 88 HRA	
		b) HRB at 100 kgf	IS: 1586-2000 Reaffirmed 2008	20 to	o 100 HRB	
		c) HRB at 150 kgf	IS: 1586-2000 Reaffirmed 2008	20 to	o 70 HRC	
3.	GI	Microstructure a) Grain Size	IS: 4748: 1988 100X Reaffirmed 2008		x	
		b) Inclusion Rating	IS: 4163: 1982 Reaffirmed 2008	0.5 t	to 2.5 mm	
		Anodizing Thickness	IS: 1868: 1996 Reaffirmed 2006	0.1%	% to 2%	