Laboratory		Deep Testing Laborat Faridabad, Haryana	Deep Testing Laboratories, Plot No 338, Sector-58, Ballabhgarh, Faridabad, Haryana					
Accreditation Standard		rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Disc	cipline	Mechanical Testing		Issue Date	05.12.2013			
Cert	tificate Number	T-1648		Valid Until	04.12.2015			
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
I. MI	ECHANICAL PROPI	ERTIES OF MATERIALS						
1.	Ferrous-Non Ferrous	UTS, Ys, Elongation% Reduction Area%	IS 1608-2005	Upto 6 1% to 1% to				
		Hardness HV5	IS 1501-2002	100 to	700 HV5			
		Hardness HRC	IS 1586-2000	20 to 7	70 HRC			
		Hardness HRB	IS 1586-2000	20 to 3	100 HRB			
		Hardness BHN	IS 1500-2005	50 to 4	400 HBW			
		Bend Test	IS 1599-1986, (RA 2006)	32, 40	rel Size: 12, 16, 25, , 44, 48, 50, 60, 100, 25, 140, 150 mm			
2.	Ferrous	Izod Impact test	IS 1598-1977, (RA 2003)	0 to 10	58 J			
		Charpy Impact Test (at Room Temp.)	IS 1757-1988, (RA 2003)	0 to 30	00 J			
3.	Steel	Jominey Hardenability Test	IS 3848-1991, (RA 2003)	Qualit	ative			
4.	Ferrous Material	Rebend Test	IS 1786-2008	50, 60	rel Size: 32, 40, 48, , 96, 112, 140, 150, 75, 196, 210, m			

		Faridabad, Haryana				
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S.No	. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
II. N	IETALLOGRAPHY 7	ſEST				
1.	Steel	Grain Size	ASTM E-112-2007 IS 6416:1988	Upto A ASTM	ASTM No. 10/ I No.	
		Determination of Case Depth by Microscopic Method	IS 6416-1988	0.1 to	1.6 mm	
III.	BUILDING MATERI	ALS				
1.	Brunt Clay Bricks	Water Absorption	IS 3495 (Part-2) 1992, (RA 20	02) 1.40%		
		Compressive Strength	IS 3495 (Part-1) 1992, (RA 20	02) 0.4 to	40 N/mm <sup>2</sup>	
		Efflorescence	IS 3495 (Part-3) 1992, (RA 20	02) Qualit	ative	
		Dimensions: Width, Length, Depth/ Height	IS 1077-1992, (RA 2002)	Upto 6	3000 mm 5000 mm 2000 mm	
2.	Aggregate	Flakiness Index	IS 2386 (Part-1) 1986, (RA 20	02) 1 to 60	)%	
	(Coarse/ Fine)	Elongation Index	IS 2386 (Part-1) 1986, (RA 20	002) 1 to 60	1 to 60%	
		Sieve Analysis	IS 2386 (Par-1) 1986, (RA 200	75 mic Coarse	eron to 4.75 mr e: nm to 75 mm	
		Water Absorption	IS 2386 (Part-3) 1986, (RA 20	02) 1 to 25	5%	

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6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Aggregate	Bulk Density	IS 2386 (Part-3) 1963, (RA 2002)	0.1 to 3.0 g/cc
	(Coarse/ Fine)	Material Finer than 75 micron	IS 2386 (Part-1) 1986, (RA 2002)	01 to 6%
		Impact Value	IS 2386 (Part-4) 1963, (RA 2007)	10 to 80%
		Crushing Value	IS 2386 (Part-4) 1963, (RA 2007)	10 to 80%
		10% Fine Value	IS 2386 (Part-4) 1963, (RA 2007)	10 to 180 kN
		Loss Angles Abrasion Value	IS 2386 (Part-4) 1963, (RA 2007)	10 to 80%
3.	Timber Testing	Moisture Content	IS 287-1993, (RA 2001)	0.5 to 25%
4.	Cement	Consistency	IS 4031 (Part-4) 1988, (RA 2005)	10 to 35%
		Setting Time	IS 4031 (Part-5) 1988, (RA 2005)	10 min to 300 min 30 min to 600 min
		Fineness (Blains)	IS 4031 (Part-2) 1999, (RA 2004)	100 to 700 $m^2/kg$
		Soundness Le-Chatelier	IS 4031 (Part-3) 1988, (RA 2005)	0.5 to 20 mm
		Soundness Autoclave	IS 4031 (Part-3) 1988, (RA 2005)	0.02 to 4%
		Compressive Strength	IS 4031 (Part-6) 1988, (RA 2005)	10 to 70 MPa
5.	Concrete	Compressive Strength	IS 516:1959 Edition 1.2 (1991-07), (RA 2004)	10 N/mm <sup>2</sup> to 50 N/mm

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IV. S	SOIL & ROCK TESTI	NG					
1.	Soil Testing	Liquid Limit	IS 2720 (Part-5) 1985, (RA 2001)	10 to 2	90%		
		Plastic Limit	IS 2720 (Part-5) 1985, (RA 2001)	10 to :	50%		
		California Bearing Ratio	IS 2720 (Part-16) 1987, (RA 2001	) 2 to 8	0%		
		Grain Size Analysis	IS 2720 (Part-4) 2001	0.075	to 4.75 mm		
		Water Content	IS 2720 (Part-2) 1973, (RA 2006)	0.1 to	40%		
		Light Compaction	IS 2720 (Part-7) 1980, (RA 2002)		: 1.1 to 2.00 g/cc : 10 to 20%		
		Heavy Compaction	IS 2720 (Part-8) 2005, (RA 2005)		: 1.1 to 2.50 g/cc : 10 to 20%		
		Direct Shear Test	IS 2720 (Part-13) 1986, (RA 2002)	C: 0 to \$\$\overline\$\$ 20	o 1.0 kg/cm2 & to 50		