



KDMEI/GNT/09-002/Cores/2017/09-1135.

Dated: 19th September , 2017

Avani Ecoprojects Private Limited,
Plot No 44 Amar Cooperative Society,
Jubilee Hills, Hyderabad - 500033.

RESULTS OF COMPRESSIVE STRENGTH TEST ON SOIL STABILIZATION CORES

Source of the sample : Sample supplied by the customer
 Technical Reference : IS: 516:1959 (RA: 2013), IS: 456:2000 (RA: 2011).
 Outer Diameter of the Core barrel (mm) : 150
 Name OF the Work : Soil Stabilization Road, Truck and Lorry Terminal Road Project No: 55
 Cores Extracted on : 02.09.2017
 Cores Tested on : 09.09.2017
 Condition of samples : Satisfactory

Sl. No	Core No	Core Identification*	Core length ** (l) (mm)	Core Dia (d) (mm)	Core Wt.** (Kg.)	Load (kN)	Core comp. Strength # (N/sq.mm)	l/d Ratio	Correction factor for (l/d) ratio+	Corrected Cyl. Comp. Strength (N/sq.mm)	Equivalent Cube Comp. Strength ++ (N/sq.mm) Individual
1	C-1	Core Extracted on Road No:5 @ Ch:170 RHS + Camber	172	144	5.940	165.1	10.14	1.19	0.911	9.2	11.5
2	C-2	Core Extracted on Road No:4 @ Ch:100 RHS -Camber	171	144	6.106	186.7	11.46	1.19	0.911	10.4	13.0
3	C-3	Core Extracted on Road No:4 @ Ch:300 LHS + Camber	176	144	5.977	89.8	5.51	1.22	0.914	5.0	6.3
4	C-4	Core Extracted on Road No:3 @ Ch:080 Middle	178	144	6.244	172.2	10.57	1.24	0.916	9.7	12.1
5	C-5	Core Extracted on Road No:3 @ Ch:380 RHS + Camber	173	144	6.200	148.0	9.09	1.20	0.912	8.3	10.4
6	C-6	Core Extracted on Road No:2 @ Ch:400 LHS + Camber	179	144	5.903	73.4	4.51	1.24	0.917	4.1	5.2
7	C-7	Core Extracted on Road No:2 @ Ch:200 Middle	167	144	6.046	166.9	10.25	1.16	0.908	9.3	11.6
8	C-8	Core Extracted on Road No:1 @ Ch:350 RHS + Camber	170	144	6.079	150.4	9.23	1.18	0.910	8.4	10.5
9	C-9	Core Extracted on Road No:1 @ Ch:050 RHS + Camber	173	144	6.174	143.7	8.82	1.20	0.912	8.0	10.1





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10	C-10	Core Extracted on Road No:BC4 @ Ch:035 LHS- Camber	172	144	5.921	162.7	9.99	1.19	0.911	9.1	11.4
11	C-11	Core Extracted on Road No:3 @ Ch:150 RHS+ Camber	168	144	5.983	182.0	11.18	1.17	0.908	10.2	12.7
12	C-12	Core Extracted on Nekkanti Road No:1 @ Ch:030 RHS - Camber	170	144	5.872	168.8	10.36	1.18	0.910	9.4	11.8
13	C-13	Core Extracted on Nekkanti Road No:1 @ Ch:150 RHS + Camber	179	144	6.355	115.1	7.07	1.24	0.917	6.5	8.1

*As furnished by the customer

** Core length / weight after trimming and capping: Core length may increase or decrease when compared to extracted core length after capping.

+ For l/d ratio, correction factors are as per Figure – 1 of IS: 516 – 1959 (Reaffirmed 2013).

++ Equivalent cube compressive strength = 1.25 x corrected cylinder compressive strength as per IS: 516 – 1959 (Reaffirmed 2008).

after correction factor applied for diameter of core which is less than 100mm (i.e., strength of core x 1.08) as per SP 24-1983, Clause 16.3.2.

Acceptance Criteria as per IS: 456 – 2000 (RA: 2011): Concrete cores tested shall be considered acceptable if the average equivalent cube strength of the cores is equal to at least 85 percent of the cube strength of the grade of concrete specified for the corresponding age and no individual core has a strength less than 75 percent.

Note: Report shall not be reproduced, except in full, without the written approval of the laboratory.

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AUTHORISED SIGNATORY
G. ANKAMMA RAO
QUALITY MANAGER

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