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**DEPARTMENT OF CIVIL ENGINEERING
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F701/CE/Str. Div/PT/T.No. 1070/2011-12

Date : 03.10.2011

Test(s) conducted by : STRUCTURES DIVISION

Test(s) conducted for : Vijay Nirman Company Private Limited. Coromandal International
Kakinada.

Reference Letter No. : NIL, Dated: 30.09.2011.

Description : Testing of Steel Rod samples for physical and mechanical properties for the
construction of Kakinada Site.

Note : Each 3 Specimens of (Each 1meter length) 8, 10, 12, 16, 20, 25 and 32mm dia. Simhadri TMT Fe – 500D bars.


Samples are sent by the party with description (identity mark) noted below and reference cited above.


TEST RESULTS

Date of Testing : 03.10.2011

S.No.	Description	Sample / Result						
		SIMHADRI – TMT Fe - 500D						
1.	Dia of the rod as specified by the party (mm)	8.00	10.00	12.00	16.00	20.00	25.00	32.00
2.	Weight per meter length (kgs)	0.400	0.620	0.895	1.590	2.485	3.885	6.325
3.	Area (mm ²)	50.96	78.98	114.01	202.55	316.56	494.90	805.73
4.	Actual Diameter (mm)	8.05	10.03	12.05	16.06	20.08	25.10	32.03
5.	0.2% Proof Stress (MPa)	549.45	531.78	502	538.14	562.29	565.77	528.71
6.	Ultimate Tensile Stress (MPa)	706.44	671.06	666.61	646.75	666.54	731.46	645.38
7.	Elongation (%)	22.50	20.00	23.33	22.50	21.00	19.40	19.30
8.	Bend Test & Rebend Test	Withstood						

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Testing In-charge
SM Laboratory


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