



**GRADIENT ENGINEERS
PRIVATE LIMITED**

AN ISO 9001 : 2008 COMPANY

Material Testing Laboratories

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Government Approved

TEST REPORT ON BRICKS

Name of Client : Reliance Brick Industries

Chennai - Bangalore High Way

Sriperumbudur - 602 105.

Date of Testing : 25.12.2014

Brand Name: RBI - Wire cut Bricks (Machine Bricks)

I. COMPRESSIVE STRENGTH (IS : 3495 (Part 1) - 1976)						Date of Test : 24.12.2014		
Sl.No.	Dimensions in cm.			Breaking load in kN.	Stress N/mm ²	Average Stress		Remarks
	L	B	D			in N/mm ²	in Kg/cm ²	
1	22.3	10.5	7.7	160.0	6.83	6.38	65.02	
2	22.4	10.7	7.7	140.0	5.84			
3	22.3	10.6	7.5	160.0	6.77			
4	22.0	10.4	7.7	140.0	6.12			
5	22.3	10.7	7.6	160.0	6.71			
6	22.2	10.5	7.7	140.0	6.01			
7	22.1	10.8	7.6	140.0	5.87			
8	22.3	10.6	7.7	160.0	6.77			
9	22.2	10.7	7.5	140.0	5.89			
10	22.4	10.5	7.7	140.0	5.95			
II. WATER ABSORPTION						Date of Test : 25.12.2014		
Description		Observed value		I.S. Limits (IS : 3495 (Part 2) - 1976)				
Percentage of water Absorption		8.1%		Not More than 20% up to class 12.5 bricks				
III. EFFLORESCENCE TEST						Date of Test : 25.12.2014		
Observed rating of efflorescence		I.S. Limits (IS : 3495 (Part 3) : 1992						
Nil		The rating of efflorescence shall not be more than "moderate" upto class 12.5 and 'slight' for higher classes						
IV. DIMENSION						Date of Test : 24.12.2014		
Dimension	Measurement for 10 Bricks in cms				Remarks			
Length	226.50							
Breadth	108.50							
Height	78.70							

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