

**CIVIL-AID**

Ref. CIVIL AID : CUBE : ML/831/2/2016

Date : 09-02-2016

Test Order Dated : 08-02-2016

Page : 1

**MAHABALA M**

Engineer and Building contractors, Emporium Commercial Building, IInd Floor, Pumpwell Road, Kankanady Mangalore.

**TEST REPORT ON CONCRETE CUBES**

Source of sample : Sample supplied by the customer  
 No of Samples Tested : 3 (three)  
 Customer's Reference : Letter dated 01.02.2016  
 Project\* : Transit One  
 Grade of concrete\* : M30  
 Location\* : Footing (CF-17)  
 Conditions of sample : Satisfactory  
 Test Method : IS : 516 -1959 (Reaffirmed 2013)

**COMPRESSIVE STRENGTH :**

Sl.No	UIN	Identification *	Dimension of Specimen (mm)	Cross Sectional Area (Sq.mm)	Date of Casting*	Date of Testing	Age at test (days)	Weight (kg)	Failure Load (kN)	Compressive Strength (N/mm <sup>2</sup> )
1	160004065	--	151.0x151.0x152.0	22801	30-01-16	08-02-16	9	7.94	442	19.4
2	160004065	--	152.0x150.0x150.0	22800	30-01-16	08-02-16	9	7.93	370	16.2
3	160004065	--	151.0x151.0x152.0	22801	30-01-16	08-02-16	9	8.00	496	21.8

\* As furnished by the customer

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- Note : 1. The Results relate only to the samples tested  
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 3. Any correction invalidates this report.

**for CIVIL AID TECHNOCLINIC PRIVATE LIMITED**

*S.B. Manjunath*  
 09.02.2016  
**S.B. MANJUNATH**  
 Senior Manager



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**CIVIL-AID**

Ref. CIVIL AID : CUBE : ML/2075/2/2016

Date : 22-02-2016

Test Order Dated : 20-02-2016

Page : 1

**MAHABALA M**Engineer and Building contractors, Emporium Commercial Building, II<sup>nd</sup> Floor, Pumpwell Road, Kankanady Mangalore.**TEST REPORT ON CONCRETE CUBES**

Source of sample : Sample supplied by the customer  
 No of Samples Tested : 3 (three)  
 Customer's Reference : Letter dated 20.02.2016  
 Project\* : Transit One  
 Grade of concrete\* : M30  
 Location\* : Footing (CF-18)  
 Conditions of sample : Satisfactory  
 Test Method : IS : 516 -1959 (Reaffirmed 2013)

**COMPRESSIVE STRENGTH :**

Sl.No	UIN	Identification *	Dimension of Specimen (mm)	Cross Sectional Area (Sq.mm)	Date of Casting*	Date of Testing .	Age at test (days)	Weight (kg)	Failure Load (kN)	Compressive Strength (N/mm <sup>2</sup> )
1	160005435	--	151.0x149.0x151.0	22499	22-01-16	20-02-16	29	7.98	569	25.3
2	160005435	--	151.0x150.0x151.0	22650	22-01-16	20-02-16	29	8.09	719	31.7
3	160005435	--	150.0x150.0x152.0	22500	22-01-16	20-02-16	29	8.14	528	23.5

\* As furnished by the customer

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for CIVIL AID TECHNOCLINIC PRIVATE LIMITED

*S.B. Manjunath* 22.02.2016  
**S.B. MANJUNATH**  
 Senior Manager

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CIVIL-AID



Ref. CIVIL AID : CUBE : ML/1194/2/2016

Date : 15-02-2016

Test Order Dated : 11-02-2016

Page : 1

MAHABALA M

Engineer and Building contractors, Emporium Commercial Building, 11nd Floor, Pumpwell Road, Kankanady Mangalore.

TEST REPORT ON CONCRETE CUBES

Source of sample : Sample supplied by the customer
No of Samples Tested : 3 (three)
Customer's Reference : Letter dated 11.02.2016
Project\* : Transit One
Grade of concrete\* : M30
Location\* : Retaining wall
Conditions of sample : Satisfactory
Test Method : IS : 516 -1959 (Reaffirmed 2013)

COMPRESSIVE STRENGTH :

Table with 11 columns: Sl.No, UIN, Identification \*, Dimension of Specimen (mm), Cross Sectional Area (Sq.mm), Date of Casting\*, Date of Testing, Age at test (days), Weight (kg), Failure Load (kN), Compressive Strength (N/mm²). Contains 3 rows of test data.

\* As furnished by the customer

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for CIVIL AID TECHNOCLINIC PRIVATE LIMITED

S.B. MANJUNATH
Senior Manager
15.02.2015



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**CIVIL-AID**

Ref. CIVIL AID : CUBE : ML/2901/1/2016  
 Test Order Dated : 29-01-2016

Date : 30-01-2016  
 Page : 1

**MAHABALA M**

Engineer and Building contractors, Emporium Commercial Building, IInd Floor, Pumpwell Road, Kankanady Mangalore.

**TEST REPORT ON CONCRETE CUBES**

Source of sample : Sample supplied by the customer  
 No of Samples Tested : 3 (three)  
 Customer's Reference : Letter dated 29.01.2016  
 Project\* : Transit One  
 Grade of concrete\* : M30  
 Location\* : Footing (CF-18)  
 Conditions of sample : Satisfactory  
 Test Method : IS : 516 -1959 (Reaffirmed 2013)

**COMPRESSIVE STRENGTH :**

Sl.No	UIN	Identification *	Dimension of Specimen (mm)	Cross Sectional Area (Sq.mm)	Date of Casting*	Date of Testing.	Age at test (days)	Weight (kg)	Failure Load (kN)	Compressive Strength (N/mm <sup>2</sup> )
1	160003107	--	150.0x150.0x151.0	22500	22-01-16	29-01-16	7	8.00	620	27.6
2	160003107	--	151.0x151.0x151.0	22801	22-01-16	29-01-16	7	8.13	659	28.9
3	160003107	--	150.0x151.0x151.0	22650	22-01-16	29-01-16	7	8.09	635	28.0

\* As furnished by the customer

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for **CIVIL AID TECHNOCLINIC PRIVATE LIMITED**

*S.B. Manjunath* 30-01-2016  
**S.B. MANJUNATH**  
 Senior Manager



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**CIVIL-AID**Ref: CIVIL AID: WATER/ML/503/12/2015  
Test Order dated: 07.12.2015

Date: 12.12.2015

Mahabala .M  
Engineer and Building Contractor,  
Emporium Commercial Building,  
2<sup>nd</sup> Floor, Old Pumpwell Road,  
Kankanady, Mangalore-2.**TEST REPORT ON ANALYSIS OF WATER SAMPLE**

Source of sample for testing : Sample supplied by the customer  
 Customer's reference : Letter dated 07.12.2015  
 UIN : 150032595  
 Project\* : Ecological Habitat at Kallapu  
 Source\* : Bore well at Kallapu, Thokattu  
 Condition of sample : Satisfactory  
 Period of test : 09.12.2015 to 12.12.2015  
 Test Method : IS:456 - 2000 (Reaffirmed 2005)  
 IS:3025-1983 (Part 11,15,16,17,18,22,23,24 & 32)

Sl No	Particulars	Results	Stipulations of IS:456-2000 (water for construction purpose)
1	Quantity of 0.02N NaOH required to neutralise 100ml of water sample using phenolphthalein as an indicator	0.56 ml	Shall not be more than 5 ml
2	Quantity of 0.02N H <sub>2</sub> SO <sub>4</sub> required to neutralise 100ml of water sample using mixed indicator	22.00 ml	Shall not be more than 25ml
3	Chlorides as Cl	79.42 mg/l	500 mg/l max. for RCC 2000 mg/l max. for PCC
4	Sulphates as SO <sub>3</sub>	86.14 mg/l	400 mg/l max.
5	Inorganic Solids	547.00 mg/l	3000 mg/l max.
6	Suspended matter	53.00 mg/l	2000 mg/l max.
7	Organic Solids	121.00 mg/l	200 mg/l max.
8	pH Value	7.43	Shall not be less than 6

\* As furnished by the customer

Remarks: The tested water sample conforms to the requirements of IS:456-2000 for plain and reinforced concrete construction.

Note: 1. The results relate only to the items tested.  
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for CIVIL AID TECHNOCLINIC PVT. LTD.

*Dinesh H.T.*  
 12/12/2015  
**DINESH H.T.**  
 Manager - Lab

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CIVIL-AID



Ref. CIVIL-AID : CUBE : ML/2118/1/2016  
Test Order Dated : 21-01-2016

Date : 25-01-2016  
Page : 1

**MAHABALA M**

Engineer and Building contractors, Emporium Commercial Building, IInd Floor, Pumpwell Road, Kankanady Mangalore.

TEST REPORT ON CONCRETE CUBES

Source of sample : Sample supplied by the customer  
No of Samples Tested : 3 (three)  
Customer's Reference : Letter dated 21.01.2016  
Project\* : Transit One  
Grade of concrete\* : M30  
Location\* : Footing  
Conditions of sample : Satisfactory  
Test Method : IS : 516 -1959 (Reaffirmed 2013)

**COMPRESSIVE STRENGTH :**

Sl.No	UIN	Identification *	Dimension of Specimen (mm)	Cross Sectional Area (Sq.mm)	Date of Casting*	Date of Testing .	Age at test (days)	Weight (kg)	Failure Load (kN)	Compressive Strength (N/mm <sup>2</sup> )
1	160002264	--	150.0x151.0x151.0	22650	14-01-16	21-01-16	7	8.25	480	21.2
2	160002264	--	151.0x150.0x150.0	22650	14-01-16	21-01-16	7	8.19	494	21.8
3	160002264	--	151.0x149.0x150.0	22499	14-01-16	21-01-16	7	8.12	483	21.5

\* As furnished by the customer

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for CIVIL-AID TECHNOCLINIC PRIVATE LIMITED

*S.B. Manjunath*  
**S.B. MANJUNATH** 25 01 2016  
Senior Manager





CIVIL-AID



Ref . CIVIL AID : STEEL : ML/730/1/2016

Date : 12-01-2016

Test Order Dated : 07-01-2016

Page : 1

**MAHABALA M**

Engineer and Building contractors, Emporium Commercial Building, IIInd Floor, Pumpwell Road, Kankanady Mangalore.

**TEST REPORT ON REINFORCING STEEL**

Source of sample : Sample supplied by the customer  
 No of Samples Tested : Eighteen  
 Customer's Reference : Letter dated 06.01.2016  
 Date of Test : 11-01-2016  
 Project\* : Trinity One Ecologic Habitats  
 Grade\* : Fe-500D  
 Brand\* : JSW Neosteel  
 Conditions of sample : Satisfactory  
 Test Method : IS: 1608-2005 (Reaffirmed 2011), IS:1599-1985 and IS:1786-2008

**PHYSICAL PROPERTIES :**

Sl.No	UIN	Identification*	Nominal Dia* (mm)	Mass (Wt.) (kg/m)	0.2% Proof Stress / Yield Stress(N/mm <sup>2</sup> )	UTS (N/mm <sup>2</sup> )	Elongation (%)	Bend Test	Rebend Test
1	160000703	--	8	0.378	577	640	27.5	PASSES	PASSES
2	160000703	--	10	0.615	600	664	22.0	PASSES	PASSES
3	160000703	--	12	0.873	541	628	26.7	PASSES	PASSES
4	160000703	--	16	1.562	558	638	22.5	PASSES	PASSES
5	160000703	--	20	2.460	539	641	22.0	PASSES	PASSES
6	160000703	--	25	3.901	553	656	20.0	PASSES	PASSES

**Requirements as per IS : 1786 - 2008**

Dia (mm)	Mass (wt.) (Kg/m) (Min.)	Dia (mm)	Mass (wt.) (Kg/m) (Min.)	Grade	0.2% Proof Stress (N/mm <sup>2</sup> ) (Min.)	UTS (N/mm <sup>2</sup> ) (Min.)	Elongation (%) (Min.)
8	0.363	20	2.366	Fe - 415	415	485 or 10% more than Actual Proof Stress whichever is higher	24.5
10	0.567	25	3.697	Fe - 500	500	545 or 8% more than Actual Proof Stress whichever is higher	22.0
12	0.834	28	4.638	Fe - 500D	500	565 or 10% more than Actual Proof Stress whichever is higher	22.0
16	1.483	32	6.058				

\* As furnished by the customer

Remarks : The tested samples conforming to IS:1786-2008 requirements for Fe-500D Grade with respect to Physical tests conducted.

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for CIVIL AID TECHNOCLINIC PRIVATE LIMITED

*S.R. Manjunath* 12-01-2016  
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