

RDC CONCRETE (INDIA) PRIVATE LIMITED

RDC Concrete

TRIAL MIX REPORT

DETAILS OF PROJECT / TRIAL:

Chettinad OPC 53 Grade

Reliance Fibre - Comparison Trial

Fibre Mix

TRIAL NO.

TM2

DATE: June 14, 2011

BATCHING TIME: 12:55 PM

AIR TEMPERATURE: 29.8° C

MIX PROPORTIONS (KG):

BATCH SIZE 0.035 CUM

MATERIAL	SOURCE / TYPE	DRY WT	DRY WT	MOISTURE CONT.		WATER ABSORPTION			BATCH
		PER CUM	PER BATCH	%	PER BATCH	%	PER CUM	PER BATCH	WEIGHT
CEMENT	Chettinad OPC 53 G	230	8.05						8.05
MINERAL ADM1	PFA	80	2.80						2.80
MINERAL ADM2			0.00						0.000
CA2: 20 MM	Caltonpet	717	25.10			0.50%	3.59	0.13	24.97
CA1: 12 MM	Caltonpet	474	16.59			0.50%	2.37	0.08	16.51
FA2: M. Sand	Caltonpet	416	14.56			1.80%	7.49	0.26	14.30
FA1:	Caltonpet	344	12.04			1.80%	6.19	0.22	11.82
							19.64	0.69	
ADMIX 1	Rheoplast	2.17	0.08						0.076
Recron 3S Fibre	Reliance	0.9	0.0315						0.032
FREE WATER	0.56	173.6	6.08						6.08
THEORETICAL TOTAL WATER		193	6.76						6.76
ADDED WATER									0.00
THEORETICAL PLASTIC DENSITY -		2457	KG/CUM	FREE W/C RATIO		0.56	A/C RATIO	6.29	

OBSERVATIONS:

CONCRETE TEMPERATURE:	28.4° C	COHESIVE / SEGGREGATING / BLEEDING		
ACTUAL PLASTIC DENSITY:	2466 KG/CUM	AIR CONTENT (%):	2	YIELD: 1.004

WORKABILITY

INITIAL SLUMP - 110 mm
Slump after 30 MIN - 90 mm

COMPRESSIVE STRENGTH DATA

REF NO.	DATE OF TEST	AGE	SIZE	WEIGHT	DENSITY	LOAD	STRENGTH N/SQMM	
		DAYS	MM	KG	KG/CUM	KN	AVERAGE	
Fibre Mix / M20	17-Jun-11	3	150	8.57	2539	374.9	16.66	17.67
		3	150	8.52	2524	420.3	18.68	
	21-Jun-11	7	150	8.58	2542	556.1	24.72	23.76
		7	150	8.66	2566	513.3	22.81	
	12-Jul-11	28	150	8.67	2569	663.3	29.48	29.92
		28	150	8.57	2539	656.3	29.17	
		28	150	8.62	2554	700.1	31.12	

COMMENTS

Initially mix was cohesive.No bleeding.Cubes were casted.

Signed:

Technical Officer

Ultra Readymix Concrete (P) Ltd.,

No. 25, Trichy Road, Kannampalayam Post, Sulur, Coimbatore - 641 402.
Phone : 0422 - 268 2277, 268 2288, Fax : 0422 - 268 8010. www.ultrarmc.in



QC F20 / 0

Date : 21-07-11

Concrete Cube Test Report (As Per IS 516 / IS 1199)

SI No of RMC : TF-1

Customer Name : Trial Mix With Recron Fibre

Site :

Grade of Concrete : M-20

Slump In mm :

Date of Casting : 22-06-11

Date of Testing : 20-07-11

Age In Days : 28

Weight Of Cube Kg	Load In KN	Compressive Strength N/mm ²	Average Strength N/mm ²	Remarks
8.270	660	29.33	29.33	
8.300	640	28.44		
8.340	680	30.22		


Lab Technician


QA/QC In-charge



Trial Mix Test Report



customer

Details M20
Date of trial mix 22.07.2011

Trial Mix No: DATE / TIME 22.07.2011 11:30 am

Concrete Grade M20

OPC BRAND 53 Grade Admixture

PFA SOURCE NIL GGBS SOURCE NIL

Mix Proportion W/C CA : FA Admixture Dosage, % by wt. of Cement 0.65%

Material 1 m³ 0.04M3 Water Absorption (%) Moisture Content (%) Moisture Adjustment (%) (Kg) Corrected Batch Quantity (Kg) Unit

Cementitious 320 12.8 0.00 0.00 0 0 12.8 kg

20mm 670 28.8 1.00 0.00 1.00 0.268 28.53 kg

12.5mm 475 19 1.00 0.00 1.00 0.190 18.81 kg

Natural Sand 0 0 0.00 0.00 0.00 0.000 0.00 kg

Msand 793 31.72 2.00 0.00 2.00 0.634 31.09 kg

Water 170 6.8 0.00 0.00 0 1.092 7.89 kg

Admixture 2.08 0.0832 0.00 0.00 0 0 83 gms

Mix proportion Cem 1 FA 2.48 CA 3.58 W/C 0.53

Slump: Initial 30' 60' 90' Ambient Temp 0

140 120 100 Concrete Temp 0

Air Content Didn't Check Fresh Density (Kg/m³) 2430

Remarks: Cube casting nil

Recron 3s Polyester CT2424 (12mm) added 900gms / 1 Cum of concrete.

Cube Specimen ref #:	24 hrs	ACT(N/mm ²)	3 Days	7 Days	28 Days		
	4.32		15.25	19.72	32.82		
			15.60	19.51	31.28		
				18.53	30.35		
Average	4.32		15.43	19.25	31.48		

Conducted By : Verified by :
Name : Name :
Sign : Sign :
Date : Date :

CIVIL-AID[®] Technoclinic Pvt. Ltd.

Corporate Office : #1000, 13th Cross, Saranahalli 2nd Stage, Bangalore - 560 079 Ph : 929-3888888, 26710531, 26711733 / 94/95 Telfax : 080 - 26718833
Email : enquiries@civildaid.com, info@civildaid.com, sales@civildaid.com, geotech@civildaid.com Website : www.civildaid.com
Sample Collection Centres in Bangalore at Marathahalli 980 - 08301008 and Sahakar Nagar 080 - 4327 4816

Ref: CIVIL-AID:PBLOCK:8/478(b)
Test order dated: 5.8.11

September 6, 2011

M/s Basant Betons - Unit I
70-B, II Phase, KIADB Indl. Area
Jigani, Tq. Anekal
Dist. Bangalore

TEST REPORT ON CONCRETE FLAG SAMPLES

Source of sample	:	Sample supplied by customer
No. of samples tested	:	9 (Nine)
Customer's Reference	:	Letter No. Betons/Factory/2011-12 dated 8.8.11
Period of test	:	24.8.11 to 27.8.11
Project*	:	Not furnished
Brand*	:	Basant Betons
Identification*	:	Pimple Finish - Black
Size*	:	600 x 600 x 65 mm
Description*	:	Samples produced by normally
Technical Reference	:	BS: 7263 (Part 1) - 1994

← WITHOUT Ras

Sl. No.	Transverse Strength (kN)	Compressive Strength (N/Sq. mm)	Water Absorption (%)
1	24.55	28.6	3.1
2	26.75	34.3	3.2
3	25.20	30.5	3.8
Requirements (Flag Type - B)	Min. 16.9 kN	-	Max 4%

* As furnished by the customer

- Note: 1. The results relate only to the items tested.
2. Report shall not be reproduced, except in full, without the written approval of the lab.
3. Any correction invalidates this report.

COMPARATIVE SYNOPSIS

for CIVIL AID TECHNOCLINIC PVT. LTD.

Radha Krishna
6.9.11

RADHA KRISHNA
Sr. Technical Officer

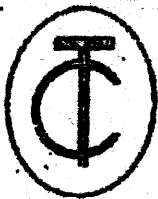
	TRANSVERSE STRENGTH	COMPRESSIVE STRENGTH	WATER ABSORPTION
WITHOUT Ras	25.50	31.13	3.37%
WITH Ras	29.54	41.77	2.83%

REMARKS: INCREASE IN STRENGTH WITH Ras, DECREASE IN Absorption

Pl. No. 1-2-4124/200, Lane No. 1, St. No. 4, Gagan Mahal Colony, Durgamachandra, HYDERABAD - 500 002. Ph: 044-66666662, Telax: 28234382, E-mail: civildaid@rediffmail.com
Lab: Shed No. F-27B, Road No. 8, I D A, Madhapur, Hyderabad - 500 076. Phone: 044-66666662

No. 1073, Vengal Rao Avenue, Ashok Nagar, CHENNAI - 600 002. Ph: 044-24847345, Fax: 044-24723010, E-mail: chennai@civildaid.com

Shed No. C-27, Industrial Estate, Vengal Rao, Mangalore - 575 008. Ph: 0824-8210571, Email: mangalore@civildaid.com, civildaid_mangalore@yahoo.co.in



CIVIL-AID Technoclinic Pvt. Ltd.

Corporate Office : #100, 10th Cross, Reshanchand 2nd Stage, Bangalore - 560 076 Ph : 080 - 3000000, 22710001, 22711705 / 04 / 05 Telefax : 080 - 22710033
Email : enquiry@civilaid.com, lab@civilaid.com, info@civilaid.com, gntech@civilaid.com Website : www.civilaid.com
Sample Collection Centre in Bangalore at Marshall 080 - 03301000 and Sahakar Nagar 080 - 4227 0316

Ref: CIVIL-AID-PBLOCK:8/478(a)
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Project* : Not furnished
Brand* : Basant Betons
Identification* : Pimple Finish - Black - Red Stripes
Size* : 600 x 600 x 65 mm
Description* : Samples produced by using Retron 3s fibre
Technical Reference : BS: 7263 (Part 1) - 1994

WITH
Ras

Sl. No.	Transverse Strength (kN)	Compressive Strength (N/Sq. mm)	Water Absorption (%)
1	29.75	42.4	3.0
2	28.69	39.3	2.8
3	30.18	43.6	2.7
Requirements (Flag Type - B)	Min. 16.9 kN	-	Max 4%

* As furnished by the customer

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for CIVIL-AID TECHNOCLINIC PVT. LTD.

Indira
6.9.11

RADHA KRISHNA
Sr. Technical Officer

Branches

M. No. 1-3-412/400A, Lane No. 1, St. No. 4, Sagar Malai Colony, Dasahpura, HYDERABAD-500 028, Ph: 040-66204522, Telefax: 22224002, E-mail: civilaid@yaho.com
Lab: Shed No. F-80, Road No. 9, I.D.A., Banatara, Hyderabad - 500 076. Phone: 040-64004032

No.10/2, Vengal Rao Nagar, Ashok Nagar, CHENNAI-600 002, Ph: 044 24047045, Fax: 044 24720000, E-mail: chennai@civilaid.com

Shed No. C-27, Industrial Estate, Vengal Rao Nagar, Bangalore - 576 008, Ph: 0824-2210571, Email: bangalore@civilaid.com, chennai@yaho.co.in