# **3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

**Clarification Asked:-** HEI to pl submit 1. List of grants for research projects received during the assessment years along with the nature of the award, and the awarding agency with amount.(sanctioned letter highlighting the required parts) 2. E-copies of the letters of award for research projects sponsored by Government and non government sources are mandatory for claim, Pl attach.

# **Response: -**

 Lists of grants for research projects and letters of award for research projects sponsored by Government and Nongovernment sources are attached. (Appendix-I) Appendix-I

# 2022-23

Government of Maharashtra Act No. XXII of 1989, XXIX of 2014

Dr. Babasaheb Ambedkar Technological University Lonere



Office of Dean (R&D)



"Vidyavihar", LONERE 402103, Dist. Raigad, Maharashtra, India

**Prof. (Dr.) Sachin M. Pore** Professor, Department of Civil Engineering Dean (R &D) No. Dean (R&D)/DBATU-VC-RPG-2023/01 Date: 30/03/2023

# Declaration of List of Proposals Provisionally Shortlisted for Funding under DBATU-VC-RPG-2023

References: 1) MoM of FC dated 19/01/2023, circulated on 21/01/2023

2) MoM of AC dated 19/01/2023 circulated on 13/02/2023

3) Approval of Hon. Vice Chancellor for Scrutiny of received proposals 17/02/23

4) Announcement of Call for Proposal circulated to all faculty of DBATU Lonere, all Principals of affiliated colleges and website of DBATU

5) Approval dated 30/03/2023 for declaration of selection for proposals under DBATU-VC-RPG-2023 by Hon. Vice-Chancellor, Prof. (Dr.) K. V. Kale

It is pleasure, to place on record that in the first attempt to cultivate a quality research culture in DBATU family of faculty, we received **Total - 214 Proposals.** These were scrutinized by selection committee. Shortlisted proposals were granted presentation to panel of expert judges. With reference to no. 5 above, enclosed herewith is the list of proposals provisionally selected for financial grant under DBATU Vice Chancellor's Research promotion Grant (DBATU-VC-RPG-2023). All applicants are hereby directed to submit final copy of DPR to comply inclusion of:

- 1) review by experts after presentation
- 2) planning of research work distributed over 24 months
- 3) planning of allotted grant as distributed over first and second year with details of recurring and nonrecurring requirement.

Format for submission of DPR remains as before. It is available on university website under "Research" tab. Applicants shall include full contact details such as name, address, email and cellphone number. DPR completed in all respects shall be emailed to <u>dbatu.vc.rpg@dbatu.ac.in</u> on or before 21/04/2023. A google form will be circulated to all applicants to collect summary of application. It is requested to note that University is in process to define norms of expenditure under DBATU-VC-RPG. These will be provided very soon and immediately after that 1<sup>st</sup> installment of grant will be disbursed. It is expected that these norms are strictly adhered while making expenditure. After review of performance after one year, there is scope of reappropriation of funds. Good performing projects may be allotted funds from poor performing projects.

Sincere congratulations to all researchers and wish you all the best!!

Enclosure: List of selected proposals

Copy to Hon. Vice-Chancellor for kind favor of information. All Deans, All Heads of Department and Section Heads All Principals of affiliated colleges

**Dr. Sachin M. Pore** Professor in Civil Engineering Dean (R&D)

# Provisionally Selected Research Proposals for Funding under the Scheme DBATU -VC-RPG 2023

Sr. No.	Branch	Name of Investigators	Email ID	Name of Institute	Title of Proposal	Provisionally alloted Grant
1		Dr. Sachin Kothawade	sachin.kothawade 23@gmail.com	RSM's N.N. Sattha College of Pharmacy, Ahmednagar	Targated therapy for prostatitis using antibody- conjugated mesoporous silica nanoparticles	315000
2		Dr. Preeti P.Mehta	preetigandhi2007 @gmail.com	Navsahyadri Institute of Pharmacy, Naigaon, Nasrapur, Pune	Synthesis, characterization and pharmacological evaluation of novel conjugates of clinically used drug.	315000
3		Dr. Manoj Gangadhar Damale	pharmalink1985@ gmail.com	Srinath College of Pharmacy, Ch.Sambhajinagar	Molecular modelling, Synthesis and Biological Evaluation of Novel Inhibitors of aspartate- semialdehyde dehydrogenase of Helicobacter pylori	315000
4		Dr. Mohd Usman palladiumsalt@g Mohd Siddique mail.com				315000
5	:y	Dr Vivekkumar K Redasani	vivek.redasani@g mail.com	YSPMs Yashoda Technical Campus, Faculty of Pharmacy, Satara	Design, Synthesis and Pharmacological Evaluation of multiple targeted Anti-Diabetic agents	315000
6	Pharmacy	Dr. Rakesh Devidas Amrutkar	rdamrutkar@kkwa gh.edu.in	K. K. Wagh College of Pharmacy, Hirabai Haridas Vidyanagari, Amrutdham, Nashik-03	"Design, Synthesis, Evaluation and Computational Studies of Some Quinazolinone analogues as Potential Anticancer Agents"	315000
7		Dr. N. H. Aloorkar nhaloorkar@gmai I.com		Satara College of Pharmacy, Satara	s .	
8		Dr. B.S. Wakure & Prof Salunke M.A.	balaji.wakure@vd f.in	Vilasrao Deshmukh Foundation, Group of Institutions, VDF School of Pharmacy, Latur 413531	Isolation of anticancer bioactive compounds from the marine seaweeds.	315000
9		Mr. Rohan Phantosh Tembare	rohantembare18 @gmail.com	Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara.	Drug design, Structure Based Pharmacophore modeling, Virtual screening, Molecular docking and ADMET of Anti-cancer agents	200000
10		Dr. Nitin P Jain	nitinpjain06@gma il.com	Rashtrasant Janardan Swami College of Pharmacy	Design by molecular modeling and Synthesis of PPARy agonist Derivatives for Antidiabetic Activity	315000
11		Miss Mulla S. Y	samina.mulla27@ gmail.com	Arvind Gavali College of Engineering Satara	Text2Query- An automatic question generation system	65000
12	Comp/IT	Ashwini Gavli	ashwini.gavli@cs mssengg.org	Chh.Shahu College of Engineering, Aurangabad	Portable tomato sorter using AI and ML	151190
13	S	Dr.T.A.Chavan	dblokhande@ssw coe.edu.in	Shree Siddheshwar Women's College of Engineering,Solapur	Machine Learning Approach for detecting Human Disease based on Behavioral Parameters	300000
14		danesh dangat(0)k		Karmaveer Bhaurao Patil College of Engneering Satara	Digital Notice Board Control and management System	214000
<mark>15</mark>	EXTC	Prof. U. V. Bhagat jagtapu346@gmai Engineering & Re Lcom Sangola		Engineering & Research	MIMO antenna in 5G Wireless Communications.	300000
16	-	Dr.G.A.Kulkarni	Shri Sant Gadge Baba		Automated System for Aerial Reforestation	300000
17		Dr. Shrikant Jahagirdar	shrikantjahagirdar @orchidengg.ac.i n	NK Orchid College of Engg. & Tech., Solapur	Design and Development of dead body cremation chamber using Biomass Briquittees	300000

# Provisionally Selected Research Proposals for Funding under the Scheme DBATU -VC-RPG 2023

18	Civil	Dr. G. R. Gandhe	saurabhnirkhe@di etms.org	Deogiri Institute of Engineering and Management Studies, Aurangabad, Maharashtra	Composite Grey Water Treatment System for Rural Household	300000
19		Ganesh A. Suryawanshi	gasuryawanshi@ dbatu.ac.in	Dr. Babasaheb Ambedkar Technological University Lonere	Design and Development of Universal Test Rig setup for Pipes	300000
20	Chemical	Dr. Sangeeta Sidram Metkar	sbbodekar@dbatu .ac.in	Dr. Babasaheb Ambedkar Technological University Lonere	Analysis of Tulsi (Ocimum Basilicum) Leaves	300000
21		Dr. B. K. Sonage	dipakbhoge85@g mail.com	NK Orchid College of Engg. & Tech., Solapur	Smart building technologies for decarbonaiztion and to enhance energy efficiency in buildings	300000
22		Dr. B. F. Jogi	bfjogi@dbatu.ac.i n	Dr. Babasaheb Ambedkar Technological University Lonere	Study of enginnering aspects of SHIVKALIN weapons	300000
23		Dr. H S Joshi	hsjoshi@dbatu.ac .in	Dr. Babasaheb Ambedkar Technological University Lonere	Design, Development and Testing of Robot based Library Automation System	300000
24		Prof Sachin B Lahane	profsachinlahane @gmail.com	CSMSS CHH SHAHU COLLEGE OF ENGINEERING AURANGABAD	Fully Automatic Vegetable Trans -planter for Sapling of brinjal, chili, tomato.	300000
25	Mechanical	Dr.Izhak D Paul	izakpaul@gmail.c om	Shri Sant Gadge Baba College of Engineering and Technology, Bhusawal	Fabrication of Foldable Solar Dryer for Household Purpose	300000
26	Me	Dr. Deepakkumar Himmatrao Patil	deepakpatil285@ gmail.com	CSMSS Chhtrapati Shahu College of Engineering, Chhatrapati Sambhajinagar	Development of continuous flow channel reactor	300000
27		G S Warkhade	gswarkhade@dba tu.ac.in	Dr. Babasaheb Ambedkar Technological University Lonere	The performance investigations of an agriculture engie using Bio-gas produced from locally available elephant graass/herbal waste	300000
28		Dr. Neeraj Agrawal	neerajagrawal@ dbatu.ac.in	Dr. Babasaheb Ambedkar Technological University Lonere	Performance Improvement of a Domestic Refrigerator Using Phase Change Material and nano particles	300000
29		Dr. Dhobe Milind M.	m_dhobe@rediff mail.com	PES COLLEGE OF ENGINEERING , AURANGABAD	Punching/Blanking Tool service life improvement using Heat treatment & cryogenic treatment & digitizing its measurement	300000
30	ical	Kaustubha H. Shedbalkar	khshedbalkar@sit coe.org.in	Sharad Institute of Technology College of Engineering, Yadrav Ichalkaranji	Solar PV feeder approach for existing agriculture feeder in Shirol Taluka.	205000
31	Electrical	Syed Suhail Ahmed	daimi82@gmail.c om	Gramin Technical and Management Campus Vishnupuri,Nanded	Analysis and improvement in aging life of Li-ion Battery	300000
32		Dr. B. M. Nayak	bmnayak.agce@g mail.com	Arvind Gavali College of Engineering Satara	Pyro-cycling: Electricity generation by plastic and dry garbage waste	300000
33	Humanities	Dr. Amit Shesh	apshesh@dbatu.a c.in	Dr. Babasaheb Ambedkar Technological University Lonere	A survey on Assessment of Perception of Language Acquisition of Stakeholders in the Maharashtra State Technological University & Role of ICT	300000
34	nterdisciplinary	Mr. Ravindra C. Gahane	ravigahane@gmai I.com	Nutan College of Engineering and Research.	Optimizing Pesticide Application in Agriculture.	300000
35	Interdisc	Dr. Sanjay Khobragade	svk2305@gmail.c om	Dr. Babasaheb Ambedkar Technological University Lonere	Green Infrastructure and Connectivity to Remote Habitations for Tribal Community	300000
		l	l	1		

# COLLEGE OF ENGINEERING & RESERCH SANGOLA (2022-23)

Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

# **Consultancy / Testing Charges**

Ledger Account

#### 1-Apr-22 to 31-Mar-23

Date	F	Particulars	Vch Type	Vch N	<b>1</b> 0.	Debit	Credit
1-Apr-22	Dr	M/S Angahadatta Engineers and Developer	Journal		1		2,070.00
7-Apr-22	Dr	Grampanchayat Nijampur	Journal		21		2,865.00
50 B	Dr	Shree.Sai Associates	Journal		22		12,106.00
18-Apr-22	Dr	Grampanchayat Ekhatpur	Journal		33		1,380.00
30-Apr-22	Dr	M/s. Pushpak Construction Pvt. Ltd. Mumbai	Journal		43		690.00
	Dr	Grampanchayat Chick-Mahud	Journal		44		690.00
12-May-22	Dr	Shree.Sai Associates	Journal		57		6,368.00
31-May-22	Dr	M/S Mulani Construction	Journal		77		10,665.00
1-Jun-22	Dr	Grampanchayat Patwardhan Kuroli	Journal		82		3,390.00
6-Jun-22	Dr	Grampanchayat Salgar	Journal		85		2,813.00
24-Jun-22	Dr	Grampanchayat Haldhahiwadi	Journal		97		690.00
28-Jun-22	Dr	Shree.Sai Associates	Journal		101		55,200.00
1-Aug-22	Dr	Grampanchayat Marwade	Journal		124		1,965.00
8-Aug-22	Dr	Shree.Sai Associates	Journal		128		31,050.00
12-Aug-22	Dr	Grampanchayat Aglavewadhi	Journal		136		2,070.00
23-Aug-22	Dr	Grampanchayat Khavaspur	Journal		142		3,390.00
26-Aug-22	Dr	Shree.Sai Associates	Journal		144		2,760.00
	Dr	Grampanchayat Kole	Journal		145		3,185.00
6-Sep-22	Dr	Grampanchayat Khavaspur	Journal		157		1,380.00
10-Oct-22	Dr	M/S Siddhnath Construction	Journal		198		64,930.00
12-Oct-22	Dr	Grampanchayat Kole	Journal		199		3,875.00
	Dr	Grampanchayat Chikmahud	Journal		200		690.00
19-Oct-22	Dr	Balasaheb Remesh Deshmukh GSTIN NO.27CFUPD1659F1Z7	Journal	1	206		72,540.00
2-Nov-22	Dr	M/S Deepak Raj Constuction Pvt.Ltd.Javala	Journal		216		8,545.00
7-Nov-22	Dr	M/s. Sarpanch Grampanchyat Lotewadi	Journal		220		6,816.00
11-Nov-22	Dr	M/S Angahadatta Engineers and Developer	Journal		225		4,245.00
21-Nov-22	Dr	M/S Angahadatta Engineers and Developer	Journal		246		8,606.00
23-Nov-22	Dr	Grampanchayat Chick-Mahud	Journal		252		2,865.00
	Dr	Grampanchayat Chick-Mahud	Journal		253		3,290.00
26-Nov-22	Dr	Grampanchayat Chick-Mahud	Journal		260		1,380.00
	Dr	Grampanchayat Lonavire	Journal	24	261		690.00
30-Nov-22	Dr	Datta Construction	Journal	20 C	269		5,000.00
1-Dec-22	Dr	M/s Akshay Nalvade	Journal		274		6,525.00
2-Dec-22	Dr	Grampanchayat Chick-Mahud	Journal		275		1,380.00
20-Dec-22	Dr	Mahalaxmi Constuction	Journal		293		22,770.00
	Dr	Datta Construction	Journal		294		5,205.00
	Dr	Datta Construction	Journal		295		2,500.00
21-Dec-22	Dr	M/s Rajendra Patil	Journal		296		1,595.00
3-Jan-23	Dr	Datta Construction	Journal		307		3,500.00
	Dr	M/S Grampanchayat Itaki	Journal		308		690.00
	Dr	M/s Rajendra Patil	Journal		309		1,595.00
4-Jan-23	Dr	Datta Construction	Journal		311		5,000.00
18-Jan-23	Dr	M/s Grampanchayat Tippehali	Journal		326		2,865.00
25-Jan-23	Dr	Me.Shri.Akshay Ashok Yedage	Journal	CINCINEERING	328		6,585.00
1-Feb-23	Dr	Grampanchayat Kole	Journal		335		690.00
		Carried Over		AND			3,89,099.00

#### COLLEGE OF ENGINEERING & RESERCH SANGOLA (2022-23)

Date	100	ting Charges Ledger Ac Particulars Vch	Type	to 31-Mar-23 Vch No.	Debit	Page 2 Credi
Date		Brought Forward	1960	Voirtie		3,89,099.00
1 Eab 22	<b>D</b> -	Mahalaxmi Constuction	Journal	336		20,010.00
1-Feb-23			Journal	330		1,806.00
7-Feb-23		Grampanchayat Kole M/s Sadashiv Construction	Journal	342		690.00
0 5-6 00	Dr	M/S Siddhnath Construction	Journal	343		
9-Feb-23						7,500.00
44 5-1 00		M/S Siddhnath Construction	Journal	346		18,855.00
11-Feb-23		Belgoanker Brothers	Journal	347		1,380.00
45 5 4 00	Dr	M/S Siddhnath Construction	Journal	348		34,200.00
15-Feb-23		M/s Devidas Malhari Devakate	Journal	352		2,760.00
17-Feb-23		BOI A/C NO 074920110000560	Bank Payment	691	1,79,561.00	
	Cr	BOI A/C NO 074920110000560	Bank Payment	692	7,806.00	
		Grampanchayat Diksal	Journal	361		5,895.00
		M/S Siddhnath Construction	Journal	366		2,500.00
		M/s Sarpanch Tirangewadi	Journal	368		1,380.00
13-Mar-23		Grampanchayat Rajuri	Journal	372		3,185.00
	Dr	Shree.Sai Associates	Journal	373		8,756.00
14-Mar-23	Dr	M/S Siddhnath Construction	Journal	375		24,965.00
15-Mar-23	Dr	Shinde Ranjeet Jalinder	Journal	376		423.0
16-Mar-23	Dr	Yuvraj Sharad Kamble	Journal	379		1,965.00
28-Mar-23	Dr	M/s Grampanchayat Chinchole	Journal	383		690.0
29-Mar-23	Dr	Grampanchayat Shivane	Journal	386		1,380.00
	Dr	Grampanchayat Shivane	Journal	387		68,695.00
31-Mar-23	Dr	Grampanchayat Wani Chinchale	Journal	391		1,380.00
	Dr	Wapmebs Pvt Ltd Pune	Journal	421		1,00,000.00
	Dr	Shiv Enterprises	Journal	422		1,00,000.00
	Dr	Kakade Agro Equipments	Journal	423		98,650.00
25				( <del></del>	1,87,367.00	8,96,164.00
Cr		Closing Balance			7,08,797.00	
						Contraction of the



PRINCIPAL

8,96,164.00

8,96,164.00

FABTEOH TECHNICAL CAMPUS COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA



Ref. No .:- FTC- COER/ Test Report/ 2028/3149(B)

Date : 01 /02 /2023



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Belgoanker Brothers Group Ready Mix Concrete. (Dtd. 01/02/2023) Contract: Mr. Ingale, Magar Site at. Pandharpur

Agency: Belgoanker Brothers Group

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr.	Date of Casting	Date of	Sample Identific	Name of	ot	ST - 22 (1997)	Grade of Concrete		Compressive Strength N/mm <sup>2</sup>			Avg. Compressive Strength (N/mm <sup>2</sup> )		(Location) Remark	
No.	Casting	Testing	Testing	resting	ation No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strength (tvinin )	Specification	
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
			1 to 3	dn			14.5	N.A.	N.A.	N.A.		ressive ncrete 16.25 days is			
1	04-01-2023	12-01-2023	1 to 3	0	Site at.	M-20	13.9	N.A.	N.A.	N.A.	14.17	mpro y con % (1 % (1 t 28 d /mm <sup>2</sup>			
			1 to 3	others Gr concrete	Magar 3 harpur		14.1	N.A.	N.A.	N.A.		00 C 1 by 1 out 6 rete a			
			4 to 6	ker Bro dy Mix	Ingale, Magar Pandharpur		N.A.	N.A.	N.A.	21.25		456-20 chieved s is abc d concl 100%	Maga		
2	04-01-2023	02-02-2023	4 to 6	Belgoanker Ready l	Mr. In	<b>M-</b> 20	N.A.	` <sub>.</sub> N.A.	N.A.	21.65	21.67	per IS:4: ength ach 07 days 1m²) and about 1	Line Sec.		
0			4 to 6	Be			N.A.	N.A.	N.A.	22.1		As per strengt at 07 ( N/mm <sup>2</sup> ) abo			

charge



PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

**COLLEGE OF ENGINEERING & RESEARCH** [Approved by AICTE, New Delhi; DTE., [M.S.], Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.-Raigad]

An Education Empowered by Industry ... FABTECH TECHNICAL CAMPUS

NAAC Accrediated 'B' Grade

ISO 9001:2015 Certified Institute Pandharpur Road, Gat No.565/1, Sangola, Taluka:-Sangola, District:- Solapur.- 413 307, .P.O. Box No. 04 Contact No.: 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

Ref. No .:- FTC/ COER/Test Report / 2022/1958

Date:- 30 / 04 /20222

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Assistant Manager (Contract) Civil/RVNL Kurduwadi (Dtd. 29/04/2022)

Contract: Concrete work of New FOB Foundation and Column at Kurduwadi Railway Station.

Agency: M/S Pushpak Rail Construction PVT. LTD.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr.	Date of	Date of Testing	Sample Identific	of Name o		value of Grade of Compressive Strength Forman		Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS	(Location) Remark			
No.	Casting	Testing	ation No.	Client	WOIK	Concient	7 Days	12 Days	21 Days	28 Days	Strength (Farmer)	Specification	
1	2 .	3	4	5	6	7	8	9	. 10	11	12	13	14
-	-	-	1 to 3				N.A.	22.05	'N.A.	N.A.	120		
1	4/13/2022	4/25/2022	1 to 3		Concrete	M-25	N.A.	21.75	N.A.	N.A.	21.97	1.5	
	4/15/2022	712512022	1 to 3		Work		N.A.	22.1	N.A.	N.A.			15

As per IS:456-2000 Compressive strength achieved by concrete at 12 days is about 85% (21.25 N/mm²)

esting In-charge

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Res-dro Sandola Dist Sciabur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



To, Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola.

Subject: Test Report on Safe Bearing Capacity Soil.
Date of Sample Received: 10/02/2023.
Date of Testing: 11/02/2023.
Contract: Providing Water Supply Scheme at Balwadi ESR 44000Liters Tal. - Sangola Dist. - Solapur.
Agency Name: Shri. Datta Construction at Methavde.

The Engineering Properties of the Soilsample determine from Laboratory Test were present in the Following Table:-

#### 1. SBC of Murum/Soil:

Sr.No. Name of Work		Recommended Founding Stratum	Founding Depth (m)	Net Safe Bearing Capacity KN/m <sup>2</sup>
1	Construction of ESR Water tank at Balwadi	Residual deposits of shattered and broken bed soft loose soiland soft black cotton soil strata	4.0	155
Test	ing In-charge	Bepartment of Civil Engineering College of Engineering & Res- Sangela Dist Solapu	FABTECH 1	RINCIPAL ECHNICAL CAMPUT OF ENGINTEERINS ARCH, SANGOLA

Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



1. Name & Address of Customer: Shri. Datta Construction at Methavde. Tal.- Sangola Dist.-Solapur.

2. Client's Reference: As per the application from Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola.(Dtd. 10/02/2023)

3. Contract: Providing Water Supply Scheme at ESR 44000Litersand Balwadi ESR 34000 Liters Tal. - Sangola Dist. - Solapur.

4. Sample i) Description: Fineness Modulus and Silt/Clay content of Course Aggregate (Metal).

ii) Quantity: 5 kg (Loose Sample)20 mm Size.

iii) Date of Receipt: 10/02/2023

5. Date of Testing/Casting: 11/02/2023

The Engineering Properties of the Course Aggregate (Metal) Sample Determined from Laboratory Tests were Presented in the Following Table:-

			TEST	RESULT		
Sr. No.	IS Sieve Size	Weight Retained (kg)	Cumulative Weight Retained (gm)	Cumulative % Weight Retained (gm)	Cumulative % Passing	Grading Limits IS 383- 1970 Limits
1	80 mm	0	0	0	100.000	N/A
2	40 mm	9	0	30.380	100.000	N/A
3	20 mm	1.519	1.519	99.260	63.620	85-100
4	10 mm	3.444	4.963	100.000	0.740	0-20
5	4.75 mm	0.037	5.000	100.000	0.000	0-5
6	2.36 mm	0.000	5.000	100.000	0.000	N/A
7	1.18 mm	0.000	5.000	100.000	0.000	N/A
8	150 micron	0.000	5.000	100.000	0.000	
9	Total	5.0		729.64		

#### 1) Course Aggregate (Metal- 20 mm size)

Fineness Modulus = Cumulative Percentage weight retained / 100 = 729.64/100 = 7.30to zone III Type of Aggregate: Angular Aggregate Coarse Aggregate Belongs





To, Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola.

Subject: Test Report on Safe Bearing Capacity Soil.
Date of Sample Received: 10/02/2023.
Date of Testing: 11/02/2023.
Contract:Providing Water Supply Scheme at Balwadi ESR 34000Liters Tal.-Sangola Dist. - Solapur.
Agency Name: Shri. Datta Construction at Methavde.

The Engineering Properties of the Soilsample determine from Laboratory Test were present in the Following Table:-

#### 1. SBC of Murum/Soil:

Sr. No.	Name of Work	Recommended Founding Stratum	Founding Depth (m)	Net Safe Bearing Capacity KN/m <sup>2</sup>
1	Construction of ESR Water tank at Balwadi	Residual deposits of shattered and broken bed soft loose soiland soft black cotton soil strata	4.0	150
Test	ing In-charge	Department of Civil Engineering Fabtech Technical Campus College of Engineering & Res- Sangela Dist Solapur	aich COLLEGE OF	NCIPAL CHNICAL CAMPU ENGINTEERIN.3 CH, SANGOLA

Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.

#### An Education Empowered by Industry ... FABTECH TECHNICAL CAMPUS ERING & RESEARCH COLLEGE OF ENG ( Approved by AICTE, New Delhi; DTE., (M.S.), Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad ) ISO 9001 : 2015 Certified Institute NAAC Accredited Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 E-mail : fabtech@ftccoe.ac.in Website : www.ftccoe.ac.in Contact No. 8408888657 Date : 10 / 07/2023

Ref. No .:- FTC - COER /Test Report 2013

> Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola. Contract: Providing Water Supply Scheme at Balwadi ESR 44000 Liters Tal. - Sangola Dist. - Solapur.

Agency: Shri. Datta Construction at Methavde.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr.	Date of	Date of	Sample Identific	Name	Name Name of of	of Grade of	Compressive Strength N/mm <sup>2</sup>			Avg. Compressive	Standard References as	(Location)		
No.	Casting	Testing	ation No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strength (N/mm <sup>2</sup> )	per IS Specification	Remark	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
			1 to 3	ethavde.	y Scheme at Sangola Dist		21.5	N.A.	N.A.	N.A.		ompressive concrete at 07 out 65% (20 30 N/mm²)		
1	23/02/2023	3/3/2023	1 to 3	on at M	iction Suppl Tal pur.	5 1	21.75	N.A.	N.A.	N.A.	21.72	0 2 9 0	First	
			1 to 3	tructi			21.9	N.A.	N.A.	N.A.		by by 00%	Brace and Bottom	
			4 to 6	t Cons	W 44		N.A.	N.A.	N.A.	32.05		S:456 hieve 28 da 28 da	Slab	
2	8/6/2023	10/7/2023	4 to 6	Datta	Providing Balwadi ESR	M-30	N.A.	N.A.	N.A.	31.75	31.75	As per IS rength ach days and 2 N/mm <sup>2</sup> )		
			4 to 6	Shri.	Balw	Balw	Darwa	N.A.	N.A.	N.A.	31.45	5	As per strength days an N/m1	



ing In-charge

Head

Department of Civil Engineering Fabtech Technical Campus Collega of Engineering & Resmarch Sangela Dist Solapur

PRINCIPAL FASTECH TECHNICAL CAMPING COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola. Contract: Providing Water Supply Scheme at Balwadi ESR 34000 Liters Tal. - Sangola Dist. - Solapur. Agency: Shri. Datta Construction at Methavde.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr.	Date of	Date of	Sample Identific	Name of	of Grade of	of Grade of		of Grade of	Grade of	Grade of I	Compressive Strength N/mm <sup>2</sup>			Grade of Compressive Strength N/mm <sup>2</sup>				Avg. Compressive	Standard References as	(Location)	
No.	Casting	Testing	ation No.	- 28.00 S	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strength (N/mm <sup>2</sup> )	per IS Specification	Remark								
1	2	3	4	5	6	7	8	9	10	11	12	13	14								
			1 to 3	Datta Construction at Methavde.	y Scheme at Sangola Dist		21.75	N.A.	N.A.	N.A.		ompressive concrete at 07 out 65% (20 80 N/mm²)									
1	23/02/2023	3/3/2023	1 to 3	on at M	-	M-30	21.25	N.A.	N.A.	N.A.	21.37		First								
			1 to 3	tructi	ater Supf 000 Tal. Solapur.		21.1	N.A.	N.A.	N.A.		56-2000 ( ved by by days is a id 100%	Brace and Bottom								
			4 to 6	Cons	¥ 4		N.A.	N.A.	N.A.	31.75		S:456 hieve 28 da 28 da	Slab								
2	8/6/2023	10/7/2023	4 to 6	Datta	Providing Balwadi ESR	M-30	N.A.	N.A.	N.A.	31.2	31.68										
			4 to 6	Shri.	Balw										N.A.	N.A.	N.A.	32.1		As per strength a days an N/mn	





Head Department of Civil Enginearing Fabtech Technical Campus College of Engineering & Research Sangela Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPI'S COLLEGE OF ENGINTEERIN & RESEARCH, SANGOLA



1. Name & Address of Customer: Grampanchayat Hatid Tal.-Sangola Dist.- Solapur.

2. Client's Reference: As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision. Sangola. (Dtd. 12/05/2023)

**3.** Contract: Construction of Compound Wall of Zilla Parishad Primary School at Hatid Tal.-Sangola Dist.- Solapur.

4. Sample i) Description: Brick

ii) Quantity: Set of 5 Brick

iii) Date of Receipt: 12/05/2023

### 5. Date of Testing/Casting: 12/05/2023

#### 6. Physical Properties:-

The Engineering Properties of the Brick Sample Determined from Laboratory Tests were Presented in the Following Table:-

			TEST RESULT				
Sr. No.	Description	Test method as per IS Codes	Test Result (s)	Average Compressive Strength (N/mm <sup>2</sup> )	Standard Requirement as per IS 1077-1992 (Rev5)		
			$7.1 \text{ N/mm}^2$				
	Compressive	IS 3495-	6.9 N/mm <sup>2</sup>		<b>a b i i</b>		
1	Strength of Bricks	1992	6.8 N/mm <sup>2</sup>	$6.74 \text{ N/mm}^2$	Class Designation		
		(Part-1)	6.5 N/mm <sup>2</sup>	_	5.0		
			6.4 N/mm <sup>2</sup>				
			18.50%				
	W/ A Land	IS 3495-	17.10%				
2	Water Absorption of Bricks	1992	16.65%	17.22 %	Not more than 20%		
	of Bricks	(Part-2)	17.30%	1-0-004/004/004/004/004/004	roctinore mail 2070		
			16.58%				
3	Efflorescence of Bricks	IS 3495- 1992 (Part-3)	Moderate		Up to 12.5 Class		





1. Name & Address of Customer: Grampanchayat Hatid Tal.- Sangola Dist.- Solapur.

2. Client's Reference: As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision, Sangola. (Dtd. 12/05/2023)

**3.** Contract: Construction of Compound Wall of Zilla Parishad Primary School at Hatid Tal.-Sangola Dist.- Solapur.

4. Sample i) Description: Fineness Modulus and Silt/Clay content of Fine Aggregate.

ii) Quantity: 5 kg (Loose Sample)

iii) Date of Receipt: 12/05/2023

#### 5. Date of Testing/Casting: 12/05/2023

The Engineering Properties of the Fine Aggregate Sample Determined from Laboratory Tests were Presented in the Following Table:-

			TEST	RESULT		
Sr. No.	IS Sieve Size	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % Weight Retained (gm)	Cumulative % Passing	Grading Limits IS 383- 1970 Zone II (%)
1	10 mm	0	0	0	100	100
2	4.75 mm	9	9	0.9	99.1	90-100
3	2.36 mm	25	34	3.4	96.6	75-100
4	1.18 mm	163	197	19.7	80.3	55-90
5	600 micron	408	605	60.5	39.5	35-59
6	300 micron	210	815	81.5	18.5	8-30
7	150 micron	165	980	98.0	02.0	0-10
8	PAN	20				
9	Total	1000		264		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 264/100 = 2.64Fine Aggregate Belongs to zone II

Sr. No.	Source of Material	Type of test Conducted	Test Result Valu (%)	ue Allowable limits (ASTM C33)
1	River Said	Silt Content	3.80	Max. 5%
F	esting In-charge	Head Department of Civil Englin Fabtech Technical Car College of Engineering & F Sangela Dist Solap	npus C Research	PRINCIPAL BTECH TECHNICAL CAMP COLLEGE OF ENGINTEERIN & RESEARCH, SANGOLA



1. Name & Address of Customer: Grampanchayat Hatid Tal.- Sangola Dist.- Solapur.

2. Client's Reference: As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision, Sangola. (Dtd. 08/07/2023)

**3. Contract:** Construction of Concrete Road from Ram Mandir to Bajar Patanganat Hatid Tal.-Sangola Dist.- Solapur.

4. Sample i) Description: Fineness Modulus and Silt/Clay content of Fine Aggregate.

ii) Quantity: 5 kg (Loose Sample)

iii) Date of Receipt: 08/07/2023

#### 5. Date of Testing/Casting: 08/07/2023

The Engineering Properties of the Fine Aggregate Sample Determined from Laboratory Tests were Presented in the Following Table:-

			TEST	RESULT		
Sr. No.	IS Sieve Size	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % Weight Retained (gm)	Cumulative % Passing	Grading Limits IS 383- 1970 Zone II (%)
1	10 mm	0	0	0	100	100
2	4.75 mm	9	9	0.9	99.1	90-100
3	2.36 mm	25	34	3.4	96.6	75-100
4	1.18 mm	163	197	19.7	80.3	55-90
5	600 micron	408	605	60.5	39.5	35-59
6	300 micron	210	815	81.5	18.5	8-30
7	150 micron	165	980	98.0	02.0	0-10
8	PAN	20				
9	Total	1000		264		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 264/100 = 2.64Fine Aggregate Belongs to zone II

Sr. No.	Source of Material	Type of test Conducted	Test Result Valu (%)	e Allowable limits (ASTM C33)
1	River Sand	Silt Content	3.95	Max. 5%
	Auton Attan Sesting In-charge	Head	Research	PRINCIPAL BRECH TECHNICAL CAMPU DLLEGE OF ENGINTEERIN. & RESEARCH, SANGOLA



To, Sub Divisional Engineer Zilla Parishad (Works) Subdivision Sangola Tal.-Sangola Dist.- Solapur

Subject: Test Report of Stone/Rubble. Date of Sample Received: 08/07/2023

Date of Testing: 08/07/2023

**Contract:** Construction of Concrete Road from Ram Mandir to Bajar Patanganat Hatid Tal.-Sangola Dist.- Solapur.

Name & Address of Customer: Grampanchayat Hatid Tal.-Sangola Dist.- Solapur.

The Engineering Properties of Rubble/Stone Sample Determined from Laboratory Tests were Presented in the Following Table:-

#### 1. Rubble/Stone

Sr.No.	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Water Absorption	1.5%	Less than 2% to 3%
2	Compressive Strength	180	150 to 200 N/mm <sup>2</sup>
3	Crushing Value	12.5%	Maximum 30%
4	Specific Gravity	2.7	2.5 to 3



Head

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangela Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's **ORIGINAL FORM** only. (Any correction shall invalidate this report)

Page 1 of 1



1. Name & Address of Customer: Grampanchayat Hatid Tal.-Sangola Dist.- Solapur.

2. Client's Reference: As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision, Sangola. (Dtd. 19/07/2023)

3. Contract: Construction of Wall of Maribai Temple at Hatid Tal.- Sangola Dist.- Solapur.

- 4. Sample i) Description: Brick
  - ii) Quantity: Set of 5 Brick
  - iii) Date of Receipt: 19/07/2023
- 5. Date of Testing/Casting: 20/07/2023

#### 6. Physical Properties:-

The Engineering Properties of the Brick Sample Determined from Laboratory Tests were Presented in the Following Table:-

			TEST RESULT				
Sr. No.	Description	Test method as per IS Codes	Test Result (s)	Average Compressive Strength (N/mm <sup>2</sup> )	Standard Requirement as per IS 1077-1992 (Rev5)		
			7.1 N/mm <sup>2</sup>				
	Compressive	IS 3495-	6.9 N/mm <sup>2</sup>	1	Class Designation		
1	Strength of	1992	6.8 N/mm <sup>2</sup>	6.74 N/mm <sup>2</sup>	Class Designation		
	Bricks	(Part-1)	6.5 N/mm <sup>2</sup>		5.0		
			6.4 N/mm <sup>2</sup>				
			18.50%				
	·····	IS 3495-	17.10%				
2	Water Absorption	1992	16.65%	17.22 %	Not more than 20%		
	of Bricks	(Part-2)	17.30%				
			16.58%				
3	Efflorescence of Bricks	IS 3495- 1992 (Part-3)	Moderate		Up to 12.5 Class		



PRINCIPAL FABTECH TECHNICAL CAMPL COLLEGE OF ENGINTEERIN... & RESEARCH, SANGOLA



1. Name & Address of Customer: Grampanchayat Hatid Tal.- Sangola Dist.- Solapur.

2. Client's Reference: As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision. Sangola. (Dtd. 19/07/2023)

3. Contract: Construction of Wall of Maribai Temple at Hatid Tal.- Sangola Dist.- Solapur.

4. Sample i) Description: Fineness Modulus and Silt/Clay content of Fine Aggregate.

ii) Quantity: 5 kg (Loose Sample)

iii) Date of Receipt: 19/07/2023

5. Date of Testing/Casting: 20/07/2023

The Engineering Properties of the Fine Aggregate Sample Determined from Laboratory Tests were Presented in the Following Table:-

	1		TEST	RESULT		
Sr. No.	IS Sieve Size	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % Weight Retained (gm)	Cumulative % Passing	Grading Limits IS 383- 1970 Zone II (%)
1	10 mm	0	0	0	100	100
2	4.75 mm	9	9	0.9	99.1	90-100
3	2.36 mm	25	34	3.4	96.6	75-100
4	1.18 mm	163	197	19.7	80.3	55-90
5	600 micron	408	605	60.5	39.5	35-59
6	300 micron	210	815	81.5	18.5	and the second se
7	150 micron	165	980	98.0	02.0	8-30
8	PAN	20			02.0	0-10
9	Total	1000		264		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 264/100 = 2.64Fine Aggregate Belongs to zone II

Sr. No.	Source of Material	Type of test Conducted	Test Result Value (%)	Allowable limits (ASTM C33)
1	River Sand	Silt Content	4.05	Max. 5%
E	Atking In-charge	Department of Civi Fabtech Technic College of Engineerin Sangela Dist	Engin <del>ca</del> ring F/ al Campus C ng & Research	PRINCIPAL ABTECH TECHNICAL CAMPI COLLEGE OF ENGINTEERIA & RESEARCH, SANGOLA



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer Zilla Parishad (Works) Subdivision Sangola. (Dtd. 08/07/2023) Contract: Construction of Concrete Road from Ram Mandir to Bajar Patangan at Hatid Tal.- Sangola Dist.- Solapur. Agency: Grampanchayat Hatid Tal.- Sangola Dist.- Solapur. The Engineering Properties of the Concrete Cide Samuel Determined from Laboratory Tasts were Presented in the Following Tal.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory	y Tests were Presented in the Following Table:-
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Sr. Date of No. Casting		Date of Testing	Sample Identific	Name of	and the second s	e Grade of Concrete					Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS	(Location) Remark
1.40.	Chatting	reating	ation No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strength (N/mm)	Specification	Kentark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			000 ach s is a n <sup>2</sup> )	r to Bajar latid									
0	7/10/2023	7/18/2023	1 to 3	ampanchayat	ofC	M-10	7.8	N.A.	N.A.	N.A.	7.45	r IS:456 e stren, at 07 d (6.5 N/	. Ram Mandi Patangan at I
			1 to 3	Gramp	Construction		7.05	N,A,	N.A.	N.A.		As per Compressiv by concrete 65%	From Ra Pata



Head

Testing In-charge

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangela Dist Solapur PRINCIPAL FABTECH TECHNICAL CAMPL' COLLEGE OF ENGINTEERIN. & RESEARCH SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's **ORIGINAL FORM** only. (Any correction shall invalidate this report)

Page 1 of 1



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer Zilla Parishad (Works) Subdivision Sangola. (Dtd. 12/05/2023)

Contract: Construction of Compound Wall of Zilla Parishad Primary School at Hatid. Tal.- Sangola Dist.- Solapur.

Agency: Grampanchayat Hatid Tal.- Sangola Dist.- Solapur.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Date of Casting	Date of Testing	Sample Identific	Name of	Name of	Grade of Concrete	Com		Strength 1		Avg. Compressive Strength (N/mm <sup>2</sup> )	S1055	(Location) Remark
NO.	Casting	resting	ation No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strengen (1911117)	Specification	
1	2	3	2]	5	6	7	8	9	10	11	12	13	4
1	15/05/2023	23/05/2023	1 to 3 1 to 3	ichayat Hatid	of Compound Wall	M-20	14.5	N.A.	N.A.	N.A. N.A.	14.28	6-2000 Compressive ieved by concrete at about 65% (13 N/mm²)	d Primary School Hatid
			1 to 3	Grampan	Construction -		14.1	N.A.	N.A.	N.A.		As per IS:456 strength achie 07 days is N	Zilla Parishad at I



Head Department of Civil Engineering Fabtech Technical Campus



PRINCIPAL FABTECH TECHNICAL CAMPI COLLEGE OF ENGINTEERIN: & RESEARCH, SANGOLA

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College of Engineering & Research Sangela Dist Solapur

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's ORIGINAL FORM only. (Any correction shall invalidate this report)

Page 1 of 1



Ref. No .:- FTC-COER/ Test Report/ 2023/01

Date : 22/02/2023

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 25/01/2023)

Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

~			Sample	Name	Name		Com	pressive S	Strength 1	N/mm <sup>2</sup>	Avg.	Standard	(Location) Remark
Sr. No.	Date of Casting	Date of Testing	Identificat ion No.		of Work	Grade of Concrete				28 Days	Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3				N.A.	N.A.	N.A.	26.95		by	
1	24-01-2023	22-02-2023	1 to 3			M-25	N.A.	N.A.	N.A.	27.15	27.07	if).	
			1 to 3		ting		N.A.	N.A.	N.A.	27.1		/mr	
			4 to 6	gai	Footing		N.A.	N.A.	N.A.	27.45		per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mn?).	at KM 77/300 and 54/200
2	24-01-2023	22-02-2023	4 to 6	Ambajogai		M-25	N.A.	N.A.	N.A.	27.05	27.37		
			4 to 6	Amt	R.C.C.		N.A.	N.A.	N.A.	27.6			
			7 to 9		for		N.A.	N.A.	N.A.	27.5		sive ut 1	
3	24-01-2023	22-02-2023	7 to 9	Dongare,	ay	M-25	N.A.	N.A.	N.A.	28	27.78	tess	
			7 to 9		sew		N.A.	N.A.	N.A.	27.85		mp is i	W
			10 to 12	B.	to Causeway		N.A.	N.A.	N.A.	26.45		Co lays	at l
4	24-01-2023	22-02-2023	10 to 12	M/S A.	to	M-25	N.A.	N.A.	N.A.	28.25	27.35	000 28 d	6 A
			10 to 12	W	airs	airs	N.A.	N.A.	N.A.	27.35		56-2 : at	NH 516
			13 to 15		Repairs 1		N.A.	N.A.	N.A.	28.1		S:4: rete	NH
5	24-01-2023	22-02-2023	13 to 15			M-25	N.A.	N.A.	N.A.	28.3	28.13	er L onc	
			13 to 15				N.A.	N.A.	N.A.	28	28.15	As pe co	

In-charge

Head Department of Civil Engineering

Fabtech Technical Campus

College of Engineering & Research

Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



Ref. No .:- FTC/COER/Test Report/2023/01

Date : 17 /04/2023

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 20/03/2023)

Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

~		59 8221 0 - 1038	Sample	Name	Name		Com	pressive S	Strength	N/mm <sup>2</sup>	Avg.	Standard	
Sr. No.	Casting .	Date of Testing	Identificat ion No.		of Work	Grade of Concrete					Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3		and		N.A.	N.A.	N.A.	27.85		t t	2
1	18-03-2023	17-04-2023	1 to 3	.=	it ar	M-25	N.A.	N.A.	N.A.	27.7	27.87	strength is about	00
			1 to 3	joga	men		N.A.	N.A.	N.A.	28.05		str is a	54/2
	2 18 02 2022 17		4 to 6	ıba	butment		N.A.	N.A.	N.A.	28.15	5	essive i days 1°).	; pu
2	18-03-2023	17-04-2023	4 to 6	B. Dongare, Ambajogai	r A 2	M-25	N.A.	N.A.	N.A.	28.25	28.13	ompres: at 28 d N/mm²)	at KM 77/300 and 54/200
			4 to 6	are	iseway for Pier Lift 2		N.A.	N.A.	N.A.	28			7/30
			7 to 9	ong	auseway Pier Li		N.A.	N.A.	N.A.	27.65		O to co	7 M
3	18-03-2023	17-04-2023	7 to 9	S. D	aı	M-25	N.A.	N.A.	N.A.	27.7	27.82	6-200 conc	H K
			7 to 9	A. I	to C		N.A.	N.A.	N.A.	28.1		:456-2000 by concre 100% (2	A al
		_	10 to 12	M/S A.	irs t		N.A.	N.A.	N.A.	27.1		IS:4 ed b	516 A
4	18-03-2023	17-04-2023	10 to 12	2	Repairs	M-25	N.A.	N.A.	N.A.	28.05	27.75	As per IS: achieved	S HN
			10 to 12		R		N.A.	N.A.	N.A.	28.1	10000000000000000000000000000000000000	As p ach	Z

g In-charge

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PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's **ORIGINAL FORM** only. (Any correction shall invalidate this report)

College of Engineering & Research

Sangola Dist Solapur



 FABTECH TECHNICAL CAMPUS

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 Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad )

 NAAC Accredited

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 Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307
 P.O.Box No.04

 Contact No. 8408888657

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Ref. No .:- FTC-COER/Test Report 2023/5(E)

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 13/04/2023)

Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

			Sample	Name	Name			pressive S	Strength 1	V/mm <sup>2</sup>	Avg.	Standard	
Sr. No.	Date of Casting	Date of Testing	Identificat ion No.	~ 25:20 동생 (외문자)	of Work	Grade of Concrete		14 Days	21 Days	28 Days	Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		×	1 to 3	gai	-	_	N.A.	N.A.	N.A.	32.5		red	р
1	12-04-2023	11-05-2023	1 to 3	ajo	for	M-30	N.A.	N.A.	N.A.	32.1	32.18	00 achieved is about ²).	an (
-			1 to 3	Ambajogai	eway Pier o		N.A.	N.A.	N.A.	31.95			77/300 and
			4 to 6		ausev nd P		N.A.	N.A.	N.A.	32.85		456-200 ength ac 8 days is N/mm²)	
2	12-04-2023	11-05-2023	4 to 6	Dongare,	50 0	M-30	N.A.	N.A.	N.A.	32.5	32.60	0 6 2 3	at KM 54/200
			4 to 6		s to nent		N.A.	N.A.	N.A.	32.45			54 at
			7 to 9	. B.	Repairs Abutme		N.A.	N.A.	N.A.	31.85		As per npressive concrete 100%	16 A
3	12-04-2023	11-05-2023	7 to 9	M/S A.	Re	M-30	N.A.	N.A.	N.A.	32.45	32.10	As per Compressiv by concrete 100%	NH 516
			7 to 9	M/			N.A.	N.A.	N.A.	32		by .	Ż

In-charge

Flead Department of Civil Engineering Fabtech Technical Campus

Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapur



FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Date :11 / 05/2023



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 09/04/2023)

Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

-			Sample	Name	Name		Com	pressive S	Strength	N/mm <sup>2</sup>	Avg.	Standard	
Sr. No.	Date of Casting	Date of Testing	Identificat ion No.	100000 (jorne	of Work	Grade of Concrete	7 Days	14 Days	21 Days	28 Days	Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3		рі		N.A.	N.A.	N.A.	28.55		ft ti	
1	08-04-2023	09-05-2023	1 to 3	-=	tar	M-25	N.A.	N.A.	N.A.	28.4	28.37	strength is about	003
			1 to 3	loga	men		N.A.	N.A.	N.A.	28.15			54/2
			1 to 3 4 to 6 4 to 6	Abutment and		N.A.	N.A.	N.A.	27.95	5	pressive 28 days nm²).	pu	
2	08-04-2023	09-05-2023	4 to 6		10	M-25	N.A.	N.A.	N.A.	27.6	27.73	ompressive at 28 days N/mm²).	77/300 and 54/200
		_	4 to 6	Dongare,			N.A.	N.A.	N.A.	27.65		at	7/3
			7 to 9	ong	ew		N.A.	N.A.	N.A.	28.45			M 7
3	08-04-2023	09-05-2023	7 to 9	B. D	P	M-25	N.A.	N.A.	N.A.	28.6	28.40	6-200 conc	at KM
			7 to 9	A. I	0		N.A.	N.A.	N.A.	28.15		:456-2000 by concre 100% (2	A
			10 to 12	M/S A.	irs t		N.A.	N.A.	N.A.	27.7		IS:4	516
4	08-04-2023	09-05-2023	10 to 12	2	Repairs to	M-25	N.A.	N.A.	N.A.	27.45	27.72	vs per IS achieved	HN
			10 to 12		R		N.A.	N.A.	N.A.	28		Asıach	2

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Head Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING S RESEARCH, SANGOLA



#### Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 17/06/2023) Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

	D		Sample	Name	Name		Com	pressive S	Strength 1	N/mm <sup>2</sup>	Avg.	Standard	
100000	Date of Casting	Date of Testing	Identificat ion No.	of Client	of Work	Grade of Concrete		14 Days	21 Days	28 Days	Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	22.020000		1 to 3				N.A.	N.A.	N.A.	31.8		р.	
1	16-06-2023	15-07-2023	1 to 3			M-30	N.A.	N.A.	N.A.	32.15	32.05	ieve m²)	
			1 to 3		5 S2		N.A.	N.A.	N.A.	32.2		achieved N/mm²).	_
			4 to 6	gai	Slab		N.A.	N.A.	N.A.	32.5		gth : (30 ]	/200
2	16-06-2023	15-07-2023	4 to 6	ajo		M-30	N.A.	N.A.	N.A.	31.85	32.15	) %	54
			4 to 6	Ambajogai	for R.C.C.		N.A.	N.A.	N.A.	32.1		e sti 100	and
			7 to 9		for		N.A.	N.A.	N.A.	32.25		sive	300
3	16-06-2023	15-07-2023	7 to 9	ıgaı	ay	M-30	N.A.	N.A.	N.A.	32.5	32.52	abc	3177
	•		7 to 9	Dongare,	sew		N.A.	N.A.	N.A.	32.8	02.02	om s is	M
		32	10 to 12	B.	Causeway	-	N.A.	N.A.	N.A.	31.75		0 C day	A at KM 77/300 and 54/200
4	16-06-2023	15-07-2023	10 to 12	M/S A.	to	M-30	N.A.	N.A.	N.A.	32.45	32.15	200	
			10 to 12	M/	airs		N.A.	N.A.	N.A.	32.25	52.15	156- e at	NH 516
			13 to 15		Repairs to		N.A.	N.A.	N.A.	32.25		As per IS:456-2000 Compressive strength by concrete at 28 days is about 100% (30	HN
5	16-06-2023	15-07-2023	13 to 15		-	M-30	N.A.	N.A.	N.A.		22.45	cone	100.0371
			13 to 15				N.A.	N.A.	N.A.	32.75 32.1	32.45	As p by e	

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Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



Ref. No .:- FTC/COER/Test Report 2023/

Date : 16 / 01 /202-9

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 18/12/2022)

Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. Date of No. Casting			Samula	Name	Nama		Com	pressive S	Strength 1	V/mm <sup>2</sup>	Avg.	Standard	
Sr. No.	Date of Casting	Date of Testing	Sample Identificat ion No.	Contraction of the second second	Name of Work	Grade of Concrete		14 Days	21 Days	28 Days	Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3				N.A.	N.A.	N.A.	22		tt t	
1	17-12-2022.	16-01-2023	1 to 3		work	M-20	N.A.	N.A.	N.A.	22.5	22.20	strength is about	54/200
			1 to 3	oga	Č.		N.A.	N.A.	N.A.	22.1		e str s is a	54/5
			4 to 6	Ambajogai	P.C.		N.A.	N.A.	N.A.	21.85		sive ays	pu
2	17-12-2022	16-01-2023	4 to 6		for I	M-20	N.A.	N.A.	N.A.	22.5	22.13		516 A at KM 77/300 and
			4 to 6	Dongare,	1 1 1 2 2 2 2		N.A.	N.A.	N.A.	22.05		om e at N/r	51713
			7 to 9	ong	Causeway		N.A.	N.A.	N.A.	22.85		-2000 Co concrete 00% (20	W
3	17-12-2022	16-01-2023	7 to 9	B. D	Cau	M-20	N.A.	N.A.	N.A.	23.1	22.92	56-200 y conc 100%	I K
			7 to 9	A. F	to		N.A.	N.A.	N.A.	22.8		456- by c 10	As
			10 to 12	N/S	airs		N.A.	N.A.	N.A.	22.65		IS:	516
4	17-12-2022	16-01-2023	10 to 12	N	Repairs	M-20	N.A.	N.A.	N.A.	22.45	22.75	us per IS:456-2000 achieved by concre 100% (3	HN
	Depts - Level Statistics (1997)		10 to 12		-	1	N.A.	N.A.	N.A.	23.15	*	Asac	_

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ead Department of Civil Engineering Fablech Technical Campus College of Engineering & Research

Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



Ref. No .:- FTC/ COER/Test Report 20231 23 C

# Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola.

TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 09/07/2023) Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

			Sample	Name	Name		Com	pressive S	Strength	N/mm <sup>2</sup>	Avg.	Standard	
Sr. No.	Date of Casting	Date of Testing	Identificat ion No.	Contraction of the second	of Work	Grade of Concrete					Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11 .	12	13	14
			1 to 3				N.A.	N.A.	N.A.	31.6		l by	
1	08-07-2023	07-08-2023	1 to 3			M-30	N.A.	N.A.	N.A.	32.25	32.12	ved if).	
			1 to 3		5 S3		N.A.	N.A.	N.A.	32.5		achieved by N/mn <del>î</del> ).	0
			4 to 6	gai	Slab		N.A.	N.A.	N.A.	32.45		gth a (30 N	at KM 77/300 and 54/200
2	08-07-2023	07-08-2023	4 to 6	Ambajogai	C .	M-30	N.A.	N.A.	N.A.	32.6	32.38	en g1 6 (3	d 54
			4 to 6	/mp	R.C.		N.A.	N.A.	N.A.	32.1		stro 00%	an
			7 to 9		for		N.A.	N.A.	N.A.	32.75		sive ut 1	300
3	08-07-2023	07-08-2023	7 to 9	Dongare,		M-30	N.A.	N.A.	N.A.	31.45	32.02	ress abo	177
	- A.		7 to 9	Dor	sew		N.A.	N.A.	N.A.	31.85	2	om p i si s	КМ
	1		10 to 12	B.	Causeway		N.A.	N.A.	N.A.	32.05		) Co Jays	at
4	08-07-2023	07-08-2023	10 to 12	SA.		M-30	N.A.	N.A.	N.A.	32.25	32.07	28 0	516 A
			10 to 12	S/W	Repairs to		N.A.	N.A.	N.A.	31.9		per IS:456-2000 Compressive strength concrete at 28 days is about 100% (30	151
			13 to 15	ů.	Rep		N.A.	N.A.	N.A.	32.1		S:4	HN
5	08-07-2023	07-08-2023	13 to 15		100	M-30	N.A.	N.A.	N.A.	32	32.18	er I onc	
			13 to 15				N.A.	N.A.	N.A.	32.45	52.10	As p c	

In-charge

Head Department of Civil Engineering Fabtech Technical Campus Council engineering & Research Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



Ref. No .:- FTC/COER/Test Report/2023/01(A) Date: 11/04/2023

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola.

TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen) Reference: As per the application from Sub Divisional Engineer P.W. Sub Division, Mangalwedha. (Dtd. 14/03/2023)

Contract: Repairs to causeway on NH 516 A to Bhose Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhose Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

Agency: M/S A. B. Dongare, Ambajogai Dist. Beed

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

			Sample	Name	Name		Com	pressive S	Strength 1	N/mm <sup>2</sup>	Avg.	Standard	
Sr. No.	Date of Casting	Date of Testing	Identificat ion No.	1990 (1990) (1990) (1990) (1990) (1990) (1990)	of Work	Grade of Concrete				28 Days	Compressive Strength (N/mm <sup>2</sup> )	References as per IS Specification	(Location) Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3		and		N.A.	N.A.	N.A.	28.1		tt. ti	
1	13-03-2023	11-04-2023	1 to 3	.=		M-25	N.A.	N.A.	N.A.	27.95	28.22	strength is about	003
			1 to 3	loga	men		N.A.	N.A.	N.A.	28.6			54/2
			4 to 6	ıba	Abutment		N.A.	N.A.	N.A.	28.3		sive lays ).	; pu
2	13-03-2023	11-04-2023	4 to 6	An,	100	M-25	N.A.	N.A.	N.A.	28.55	28.35	om pressive at 28 days N/mm²).	at KM 77/300 and 54/200
	4		4 to 6	are, A	2.2		N.A.	N.A.	N.A.	28.2		N/at ou	7/3(
			7 to 9	Dongare, J	ausewa Pier I		N.A.	N.A.	N.A.	27.95		5-2000 Co concrete 00% (25	M 7
3	13-03-2023	11-04-2023	7 to 9	3. D	au	M-25	N.A.	N.A.	N.A.	27.8	27.95	6-200 conc 00%	t K
			7 to 9	A. I	0 C		N.A.	N.A.	N.A.	28.1		:456-2000 by concre 100% (2	Чa
			10 to 12	1/S	Repairs to		N.A.	N.A.	N.A.	28.15		IS:4 ed b	NH 516 A
4	13-03-2023	11-04-2023	10 to 12	2	epa	M-25	N.A.	N.A.	N.A.	28.3	28.30	per ] hiev	5 H
			10 to 12		Я		N.A.	N.A.	N.A.	28.45		As per IS achieved	Z

esting In-charge

Ariead Department of Civil Engineering Fabtech Technical Campus College of Engineering & Reswarch Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Engineer (Class-I) Rural Water Supply Subdivision Sangola. (Dtd. 30/07/2023)

Contract: Construction of Pipe Gutter at Waghmare Bhandage Howal wasti at Hatid Tal.- Sangola Dist.- Solapur. Agency: Grampanchayat Hatid Tal.- Sangola Dist.- Solapur.

The Engineering Properties of the Concrete Cube Sample Determined f	om Laboratory Tests were Presented in the Following Table:-
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Sr. No.	Date of Casting	Date of Testing	Sample Identific	of	Name of	Grade of Concrete	0.0000000000000000000000000000000000000	pressive S	Strength	N/mm²	Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS	(Location) Remark
		0	ation No.	Client	Work	concrete	7 Days	14 Days	21 Days	28 Days	Strengen (tvinin )	Specification	Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3	ıyat Hatid	Pipe Gutter		11.5	N.A.	N.A.	N.A.		) Compressive y concrete at 07 6 (10 N/mm²)	re Bhandage Howal wasti
1	29-07-2023	07-08-2023	1 to 3	Grampanchayat	Construction of Pipe	M-15	11.95	N.A.	N.A.	N.A.	11.82	er IS:456-2000 (th achieved by s is about 65%	mare Bhanda
			1 to 3	0	J		12	N.A.	N.A.	N.A.		As per strength days	Waghmar

**Festing In-charge** 

Head

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & DISEARCH SANGOLA

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## FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH

(Approved by AICTE, New Delhi; DTE., (M.S.), Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad ) NAAC Accredited ISO 9001 : 2015 Certified Institute

Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoc.ac.in E-mail : fabtech@ftccoc.ac.in

Ref.No.:-

Date : 08/ 03/2022

#### TEST REPORT

 Name & Address of Circle: Grampanchayat Khadki Tal.- Mangalwedha Dist.- Solapur.
 Client's Reference: As per the application from Sub Divisional Water Conservation Officer, Zilla Parishad Subdivision (L.P.), Mohol.

**3.** Contract/Name of Work: Maintenance and renovation work of Bandhara Beldar Wasti G. No. 183 at Khadki Tal.- Mangalwedha Dist.- Solapur.

4.Agency: Grampanchayat Khadki

5. Sample i) Description: Steel

ii) Quantity: 3 No's. (10 mm)

iii) Date of Receipt: 08/03/2022

6. Date of Testing/Casting: 08/03/2022

#### TEST RESULT

1. Description of Sample

2. Type of Steel 3. Gauge Length : TMT Bars 10.0 mm Dia. :Tor Steel :50 mm

		(As PEI	R IS 1786: 2	TEST 2008 For Det	RESULT ails of Speci	fication Rec	uirements)		
Sr. No.	Nominal Diameter (mm)	Effective C/S Area (mm <sup>2</sup> )	Weight per Meter (Kg/m)	0.2% Yield Stress (N/mm <sup>2</sup> )	Ultimate Tensile Strength (N/mm <sup>2</sup> )	Average Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Bend & Rebend Test	Grade
	10	78.28	0.630	595.00	635.45			No	
1	10	78.28	0.630	621.00	663.15	656.37	21.30	Rupture	Fe 500
	10	78.28	0.630	630.00	670.50			& Cracks	

Minimum Requirement as per IS Code 456-2000:- 1. Grade of Steel : Fe – 500 2. Tensile Strength ((N/mm<sup>2</sup>): 545 3. Percentage Elongation: 12

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Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's **ORIGINAL FORM** only. (Any correction shall invalidate this report)

Page 1 of 1



# FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH

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 Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307
 P.O.Box No.04

 Contact No. 8408888657
 Website : www.ftccoe.ac.in
 E-mail : fabtech@ftccoe.ac.in

Ref.No::-

Date : 08 / 03 / 2022

#### **TEST REPORT**

1. Name & Address of Circle: Grampanchayat Khadki Tal.- Mangalwedha Dist.- Solapur.

2. Client's Reference: As per the application from Sub Divisional Water Conservation Officer, Zilla Parishad Subdivision (L.P.), Mohol.

**3.** Contract/Name of Work: Maintenance and renovation work of Bandhara Beldar Wasti G. No. 183 at Khadki Tal.-Mangalwedha Dist.- Solapur.

4. Agency: Grampanchayat Khadki

5. Sample i) Description: Stone Rubble

ii) Quantity: 10 kg

iii) Date of Receipt: 08/03/2022

6. Date of Testing/Casting: 08/03/2022

The Engineering Properties of Rubble/Stone Sample Determined from Laboratory Tests were Presented in the Following Table:-

#### 1. Rubble/Stone

Sr.No.	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Water Absorption	2.1%	Less than 2% to 3%
2	Compressive Strength	180	150 to 200 N/mm <sup>2</sup>
3	Crushing Value	15.5%	Maximum 30%
4	Specific Gravity	2.8	-

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Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in

Ref.No .:-

Date :25/03/2022

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from Sub Divisional Water Conservation Officer, Zilla Parishad Subdivision (L.P.), Mohol.

Contract: Maintenance and renovation work of Bandhara Beldar Wasti G. No. 183 at Khadki Tal.- Mangalwedha Dist.- Solapur. Agency: Grampanchayat Khadki Tal.- Mangalwedha Dist.- Solapur.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Date of Casting	Date of Testing	Sample Identific	of	of	Grade of Concrete	Com	pressive S	Strength I	N/mm <sup>2</sup>	Avg. Compressive		(Location)
			ation No.	Client	Work	contrette	7 Days	14 Days	21 Days	28 Days	Strength (N/mm <sup>2</sup> )	per IS Specification	Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3		renovation Ihara		N.A.	15.55	N.A.	N.A.		Compressive concrete at 14 13.5 N/mm²)	33 at Khadki
1	10-03-2022	25-03-2022	1 to 3		Maintenance and renov work of Bandhara	M-15	N.A.	15.8	N.A.	N.A.	15.78	IS:456-2000 Co achieved by co about 90% (13	Wasti G. No. 183
	• .		1 to 3		Mainte w		N.A.	16	N.A.	N.A.	X	As per IS: strength acl days is ab	Beldar Was



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1. Name & Address of Customer: Grampanchayat Chincholi Tal.- Sangola Dist.- Solapur

2. Client's Reference: As per the application from Sub Divisional Engineer Zilla Parishad (Works)Subdivision Sangola. (Dtd. 10/08/2023)

3. Contract/Name of Work: Providing murum road to Chavanwasti at Chincholi Tal.- Sangola Dist.- Solapur.

- 4. Sample i) Description: Fineness Modulus (Sieve Analysis) of Hard Murum.
  - ii) Quantity: 1 kg (Loose Sample)
  - iii) Date of Receipt: 10/08/2023
- 5. Date of Testing/Casting: 10/08/2023
- 6. Agency: Grampanchayat Chincholi.

The Engineering Properties of the Murum Sample Determined from Laboratory Tests were Presented in the Following Table:-

1. Soil/Hard Murum Test Report:

Sr. No.	Engineering Properties/Name of Test	Sieve Size (mm)	Actual Passing %	Standard References as per IS Specification
1	Fineness Modulus	80	100.00	95-100
		25	1.57	0-2

ing In-charge

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> Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR SOIL (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No.: B-1/MWC/25/For 2022-2023 Agency: Me. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur. The Engineering Properties of the Soil (Plack Cotton Soil) Same Dist. Solapur.

The Engineering Properties of the Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

	No.	Supplen		. pa	Fie Densi				1.0	anical 4			1	Att	erbe Limi	rg's		nkage		Mod Stand	ified	Direct She		y Test	U		
Collection	fication	ary Da	ita	Sample	Dis./U Sam		Clay	Silt		Sand	-	Gr	avel	1	. 1	ex	nit	ıge	tion	_		Cohesion C (Kg/m <sup>3)</sup>	Tan φ Peak	Constant	y at 27 <sup>0</sup>	Index <b>C</b>	- 4
Date of Co	Sample Identification	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	0.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity at 27° C	Compression Index	Remark
1	2	3	.4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25 ·	26	27	28
06-06-2023	4 to 6	Construction of Converted Storage Tank at Katphal No. 1	Soil for Cutoff Trench (C.O.T)	Disturbed						-	-	-						-	-	1.72	21					-	Black Cotton Soil is used for work.



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	No.	Supplen		. pa	Fie Densi				1.0	anical 4			1	Att	erbe Limi	rg's		nkage		Mod Stand	ified	Direct She		y Test	U		
Collection	fication	ary Da	ita	Sample	Dis./U Sam		Clay	Silt		Sand	-	Gr	avel	1	. 1	ex	nit	ıge	tion	_		Cohesion C (Kg/m <sup>3)</sup>	Tan φ Peak	Constant	y at 27 <sup>0</sup>	Index <b>C</b>	- 4
Date of Co	Sample Identification	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	0.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity at 27° C	Compression Index	Remark
1	2	3	.4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25 ·	26	27	28
06-06-2023	4 to 6	Construction of Converted Storage Tank at Katphal No. 1	Soil for Cutoff Trench (C.O.T)	Disturbed						-	1	-						-	-	1.72	21					-	Black Cotton Soil is used for work.



Head Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangala Dist Solapur





Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR SOIL (Disturbed Sample)

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Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's ORIGINAL FORM only. (Any correction shall invalidate this report)

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Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola.

TEST RESULT FOR SOIL (Disturbed Sample)

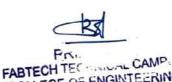
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The Engineering Properties of the Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

	No.	Supplem	ent	p	Fiel Densit				Mech	anical A	Analys	is			erber Limit		Shrin	ıkage		Mod Stand		Direct She	ar Test	y Test	J		
lection		ary Da		ample disturbe	Dis./Ui Sam	ndis.	Clay	Silt		Sand		Gr	avel			ex	nit	age	tion	(		Cohesion C (Kg/m <sup>3)</sup>	Tan <b>φ</b> Peak	Constant	y at 270	Index C	¥
Date of Collection	Sample Identification	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	0.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity at 27º C	Compression Index	Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
04-06-2023	1 to 3	Construction of Converted Storage Tank at Katphal No. 1	Soil for Cutoff Trench (C.O.T)	Disturbed		-	-	-	-	_	-	-	-	_	-	-		-	_	1.6	23		-	-	-	_	Black Cotton Soil is used for work.



Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research



COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA



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	E	gineerin		opere	Fiel		(Dia			anical A			2	Atto	rber .imit	gs	Shrip			Modi Stand	0.000	Direct She	ar Test	y Test	U	5	
tion	tion No.	Supplem ary Da	100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Densit Dis./Ur Samj	ndis.	Clay	Silt		Sand		Gr	avel				nit .	nge	ation	()	)	Cohesion C (Kg/m <sup>3)</sup>	Tan <b>φ</b> Peak	Constant	ity at 27 <sup>6</sup>	n Index (	ark
Date of Collection	Sample Identification	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)		Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	0.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	s	Compression Index C	Remark
1	2	3	4	5	6	7	8	9	<u>تد</u> 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
11-06-2023	10 to 12	Construction of Converted Storage Tank at Katphal No. 1	Soil for Cutoff Trench (C.O.T)	Disturbed	2 	-	_		-		-				-	-		-	-	1.8	21				-	_	Black Cotton Soil is used for work



Head

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PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA



To, Gramsevak / Sarpanch Grampanchayat Nazare A/P- Nazare Tal.- Sangola Dist.- Solapur

Subject:- Visual Inspection Report of Z. P. School building (R.C.C. Slab) at Nazare.

Respected Sir,

Based on your request through letter dated on 14<sup>th</sup> August 2023, our Engineer Prof. A. A. Metkari visited the Z. P. School site at Nazare on 17<sup>th</sup> August 2023. The following issues were noted points:

1. The school building was more than 25 years old.

2. The major problem observed regarding the school building R.C.C. slab cover was collapsed.

3. R.C.C. slab ceiling surface found with undulations, bulges, loose slab cover and signs of dampness with major leakage.

4. The major cracks observed in verandah slab.

5. Observed steel of slab exposed at many places in large area. Steel exposed area is around approximate 70% of floor area and 80% steel is corroded.

6. Observed separation of top slab from wall.

7. The major cracks were observed in these may be the major cause of sudden failure of structure in future.

Based on above mentioned observations, it is noted that the structure may not be safe for its longer duration use.

PRINCIPAL Department of Civil Engineering FABTECH TECHNICAL CAMPUS Fabtech Technical Campus COLLEGE OF ENGINEERING College of Engineering & Research & RESEARCH, SANGOLA Sangola Dist Solapur

Note: - The information in the letter and/or enclosed report is / are purely meant for your guidance and should not be used for litigation evidence / advertisement.



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Ref. No .:- FTC-COER/Test Report (2023/25(A)

Date :09 /10 /2023

To, Sub Divisional Officer, Maharashtra Jeevan Pradhikaran.

Subject: Test Report on Concrete cube. Date of Sample Received: 09/10/2023. Date of Testing: 09/10/2023. Name of Agency: Eagle Infra India Ltd Ulhasnagar, C/O. Vasant Vihar Reality Pvt. Ltd. Solapur Project: Shirbhavi and 81 Village RRWSS (WTP) Tal. - Sangola Dist.-Solapur The Engineering Properties of the Concrete cube sample determine from Laboratory Test were present in the Following Table:-

1. Concrete cube:

Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressiv e Strength (N/mm <sup>2</sup> )
					8910	22500	470	20.88	
		00/10/2023	7	Construction Of raft WTP	8780	22500	475	21.11	21.10
M-30	03/10/2023	09/10/2023			8650	22500	480	21.33	
	Concrete Mortar	Concrete Mortar	Concrete Mortar Casting Testing	Grade of Concrete Mortar Date of Casting Date of Testing in days	Grade of Concrete Mortar     Date of Casting     Date of Testing     cube in days     Component of work       Mortar     Contraction     Construction     Construction       Construction     Op/10/2023     7     Construction	Grade of Concrete MortarDate of CastingDate of TestingCube in daysComponent of workof Cube (gm)M-3003/10/202309/10/20237Construction Of raft WTP8780	Grade of Concrete MortarDate of CastingDate of TestingCube cube in daysComponent of workof Cube (gm)C/3 Area (mm²)M-3003/10/202309/10/20237Construction Of raft WTP878022500	Grade of Concrete MortarDate of CastingDate of TestingAge of cube in daysComponent of workof of Cube (gm)C/S Area (mm²)Taken by Cube in KNM-3003/10/202309/10/20237Construction Of raft WTP891022500470	Grade of Concrete MortarDate of CastingDate of TestingAge of cube in daysComponent of workOf of Grade (gm)C/S Area (mm²)Taken by Cube in KNCompressive Strength (N/mm²)M-3003/10/202309/10/20237Construction Of raft WTP89102250047020.88M-3003/10/202309/10/20237Construction Of raft WTP87802250047521.11

As per IS:456-2000 Compressive Strength achieved by concrete at 7days is a

(Prof.V.S.Bhakare)

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Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



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Ref. No .:- FTC-COER / Test Report / 2023/ (1) C

Date :28/04/2023

To, Executive Engineer Div.No.1 Zilla Parishad Solapur, Dist-Solapur

Subject: Test Report on Cement Concrete Cube. Date of Sample Received: 28/04/2023. Date of Testing: 28/04/2023 Contract: Providing S.T. Pick up shed Akola Mangalwedha Road at. – Akola Tal. – Mangalwedha Dist.- Solapur

The Engineering Properties of the sand and concrete cube sample determine from Laboratory Test were present in the Following Table:-

Sr. No.	1. Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
					Providing	8910	22500	230	10.22	
1	M-15	22/04/2023	28/04/2023	07	S.T. Pick	8780	22500	235	10.44	10.29
			31		up shed Akola	8650	22500	230	10.22	

As per IS:456-2000 Compressive Strength achieved by concrete at 7 days is about 65%(9.75 N/mm<sup>2</sup>)

(Prof.V.S.Bhakare)

**Testing In-charge** 

Head

Department of Civil Engineering Fabtech Technical Campus Ceulege of Engineering & Research Sangola Dist Solapur

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Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



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Ref. No .:- FTC-COER | Test Report | 2023 | (1) C

Date :28/04/2023

To, Executive Engineer Div.No.1 Zilla Parishad Solapur, Dist-Solapur

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1. Concrete cube:

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				Desidian	8910	22500	230	10.22	
M-15	22/04/2023	28/04/2023	07	S.T. Pick	8780	22500	235	10.44	10.29
141-15				up shed	8650	22500	230	10.22	
	Concrete	Concrete Mortar	Concrete Mortar Casting Testing	Concrete Mortar Date of Casting Testing cube in days	MortarDate of CastingDate of TestingDate of cube in daysComponent of workM-1522/04/202328/04/202307Providing S.T. Pick up shed	Grade of Concrete MortarDate of CastingDate of TestingDate of cube in daysComponent of workCube (gm)M-1522/04/202328/04/202307S.T. Pick s.T. Pick8910	Grade of Concrete MortarDate of CastingDate of TestingIngoin cube in daysComponent of workCube (gm)Area (mm²)M-1522/04/202328/04/202307Providing S.T. Pick up shed891022500M-1522/04/202328/04/202307878022500	Grade of Concrete MortarDate of CastingDate of TestingAge of cube in daysComponent of workWt. of Cube (gm)C/S Area (mm²)Taken by Cube in KNM-1522/04/202328/04/202307Providing S.T. Pick up shed891022500230	Grade of Concrete MortarDate of CastingDate of TestingAge of cube in daysComponent of workWt. of Cube (gm)C/S Area (mm²)Taken by Cube in KNCompressive Strength (N/mm²)M-1522/04/202328/04/202307Providing S.T. Pick up shed89102250023010.2287802250023010.44

As per IS:456-2000 Compressive Strength achieved by concrete at 7 days is about 65% (9.75 N/mm<sup>2</sup>)

(Prof.V.S.Bhakare)

(Prof.V.S.Bhakare) Testing In-charge

Head

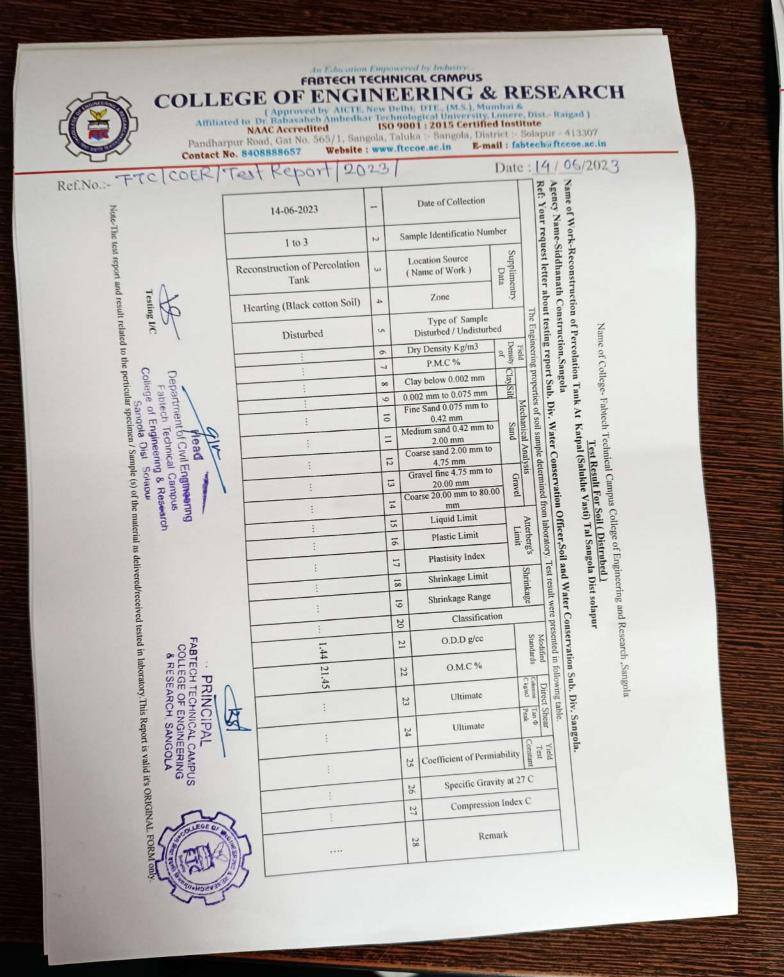
Department of Civil Engineering Fabtech Technical Campus Critiege of Engineering & Rasearch Sangola Dist Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

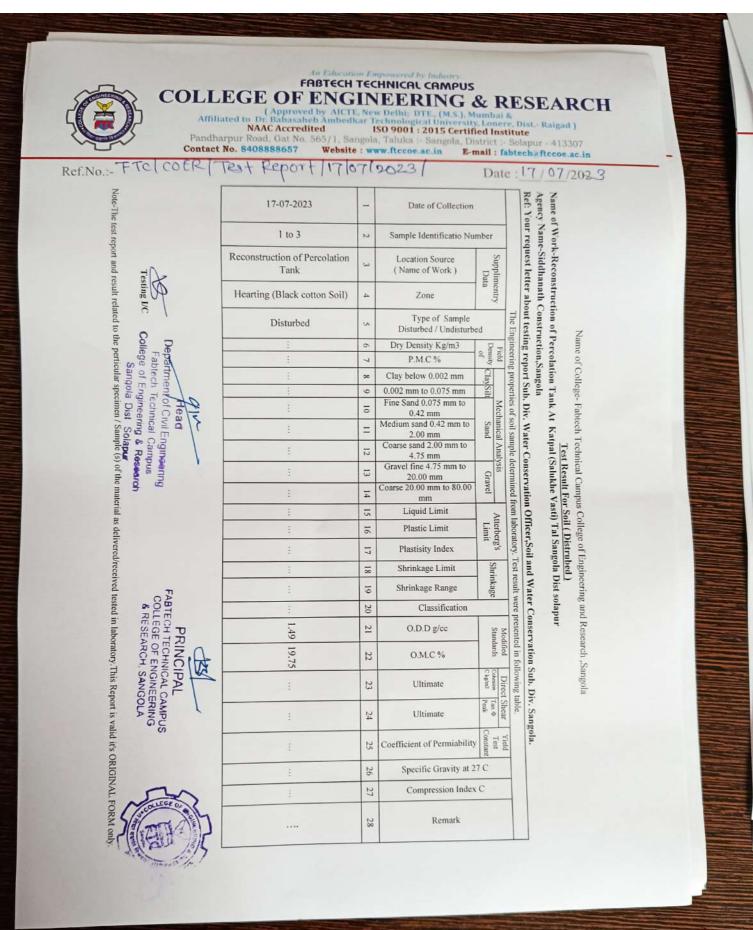
/sample of the delivered/received and tested in the

Note:-The test report and result related to the particular spacemen /sal

Amile Pandha	FABTECH EGE OF ENG (Approved by AICTI Ited to Dr. Babasaheb Ambedi NAAC Accredited Irour Road, Gat No. 565/1, Sa	New Car Te IS ngoin	Delhi: DTE. (M.S.). M chnological Universit 30 9001 : 2015 Certif Taluka - Sangola, D	& R	k re, Dist, titute - Solapu	- Raigad )
Ref. No .:- FTC - COER	Test Report !	202	3	Dat		-/06/2023
Г	02-06-2023	-	Date of Collection		Ref: Your	Name of Work-Reconstruction of Percolation Tank At Katpal (Salukle Vasti) Tal Sangola Dist solapur Name of Work-Reconstruction of Percolation Tank At Katpal (Salukle Vasti) Tal Sangola Dist solapur Name Siddhanath Construction, Sangola
The ter	1 to 3	2	Sample Identificatio Nu	1	requi	ork-1
A Bepartment of Civil Engineering Testing VC College of Engineering & Research Sandola Dist Solapu Sandola Dist Solapu Sandola Dist Solapu Solaput Note-The test report and result related to the perticular specimen/ Sample (s) of the material as delivered/received tested in laboratory. This Report is valid its ORIGINAL POWN	Reconstruction of Percolation Tank	3	Location Source (Name of Work)	Supplimentry Data	st letter	Reconstr
Testi	Hearting (Black cotton Soil)	4	Zone	YUN	abou	th Co
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Dep P Solleg		9	0.002 mm to 0.075 mm Fine Sand 0.075 mm to	n <u></u>	nies o Me	- Fab
Department of Civil Engineering Fablech Technical Campus Sangola Dist Solapur Jular specimen / Sample (s) of the material	:	-	5 0.42 mm Medium sand 0.42 mm	to Sand	es of soil sample deter Mechanical Analysis	Name of College- Fabtech Technical Campus College of Engineering and Research T <u>est Result For Soil (Distrubed)</u> I Percolation Tank At Katpat (Salukhe Vasti) Tal Sangola Dist solapur fruction,Sangola truction,Sangola
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PRINCIPAL H TECHNICAL OF SEARCH, SANO milory. This Report	5	1	Ultimate	:	esting report Sub. Dr	angola Sub. Div. Sangola. Sub. Div. Sangola.
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Pandl		edkar Sango site : v	ISO 9001 : 2015 Cert la, Taluka :- Sangola,	tified Distric E-mail	Inst ct :- : fa	e, Dist Raigad ) itute Solapur - 413307 btech@ftccoe.ac.in
	manifant	02	31	D	_	03/07/2023
Note-Th	03-07-2023	-	Date of Collection			ame of You
c test	1 to 3	2	Sample Identificatio Num	nber		r req
Head A Testing VC Testing VC Note-The test report and result related to the perticular specimen / Sample (s) of the material as delivered/recei	Reconstruction of Percolation Tank	3	Location Source (Name of Work)	Supplimentry Data		Name of College- Fabtech Technical Campus College of Engineering and R <u>Test Result For Soil ( Distrubed )</u> Name of Work-Reconstruction of Percolation Tank At Katpal (Salukhe Vasti) Tal Sangola Dist solapur Agency Name-Siddhanath Construction,Sangola Ref: Your request letter about testing report Sub. Div. Water <u>Conservation Officer,Soil and Water Con</u>
Testing VC	Hearting (Black cotton Soil)	4	Zone	entry a		tructio ath C
related t	Disturbed	5	Type of Sample Disturbed / Undisturbe	:d	The Engineering properties of soil sample determined from laboratory. Lest room	Na on of P onstrue
to the		6	Dry Density Kg/m3	Field Density of	lincer	Name of College- Fabtech Technical Campus College of Engineerin <u>Test Result For Soil ( Distrubed )</u> of Percolation Tank At Katpal (Salukhe Vasti) Tal Sangola Dist : truction,Sangola truction,Sangola by Water Conservation Officer,Soil and Wates the state of the technic
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Head Department of Civil Engineering Fablech Technical Campus College of Engineering & Research Sangola Dist Solapur Sangola Dist Solapur erticular specimen / Sample (s) of the materi	:	13	Gravel fine 4.75 mm to 20.00 mm	Gr	eterm	echnical Campus College of Engine <u>Test Result For Soil (Distrubed)</u> pal (Salukhe Vasti) Tal Sangola D er Conservation Officer,Soil and <sup>N</sup>
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& R d in 1	1.47	21	O.D.D g/cc	Standarus	Modified	g and Research ,Sangola solapur ter Conservation Sub. Div. S. were presented in following table.
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MPUS ING LA valid it	:	1	Coefficient of Permiabil	nt	Yield Test	a
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IGIN			Compression In	dex C		
INLE C	:					
R MULEGE			12 Remark			





To, Sub Div. Water Conservation office, Soil and Water Conservation Sub Div. Sangola, Dist-Solapur

Subject: Test Report on Permeability of Casing (Murum). Date of Sample Received: 17/07/2023. Date of Testing: 17/07/2023. Contract: Reconstruction of Percolation Tank at. –Katphal (SalukheVasti) Tal. - SangolaDist.-Solapur

The Engineering Properties of the Soilsample determine from Laboratory Test were present in the Following Table:-

1. Test:-

Sr.No	Type of Soil	Name of Work	Date of Test	Test conducted By Value m/s	Remark
1	Soil from Casing (Murum)	Reconstruction of Percolation Tank at. –Katphal (SalukheVasti)	08/05/2023	4.8X10 <sup>-6</sup>	As per Standard Percolation tank may be built up soil having coefficient permeability less than K=5X10 <sup>-6</sup> m/s
2	Soil from Casing(M urum)	Reconstruction of Percolation Tank at. –Katphal (SalukheVasti)	17/07/2023	4.35X10 <sup>-6</sup>	As per Standard Percolation tank may be built up soil having coefficient permeability less than K=5X10 <sup>-6</sup> m/s

(Prof.V.S.Bhakare) Testing In-charge

Head Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapur



Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.

# 2021-22

# COLLEGE OF ENGINEERING & RESERCH SANGOLA

Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

# **Consultancy / Testing Charges**

Ledger Account

#### 1-Apr-21 to 31-Mar-22

		• • • • • • • • • • • •			Page 1
Date	Particulars	Vch Type	Vch No.	Debit	Credit
15-Apr-21	Dr Grampanchayat Chinke (GSTIN 27PNEG22353C1D9)	Journal	9		1,100.00
54	Dr Grampanchayat Chinke (GSTIN 27PNEG22353C1D9)	Journal	10		3,100.00
18-May-21	Dr Grampanchayat Manewadi	Journal	18		2,550.00
8-Jun-21	Dr Grampanchayat Diksal	Journal	22		2,073.73
24-Jun-21	Dr M/s. Pushpak Construction Pvt. Ltd. Mumbai	Journal	27		550.00
	Dr Grampanchayt Pare	Journal	28		4,150.00
	Dr Grampanchayt Pare	Journal	29		3,600.00
	Dr Grampanchayt Pare	Journal	30		3,600.00
	Dr Grampanchayat Save	Journal	31		1,650.00
	Dr Grampanchayat Save	Journal	32		550.00
9-Jul-21	Dr M/s. Pushpak Construction Pvt. Ltd. Mumbai	Journal	46		1,100.00
16-Jul-21	Dr Grampanchayat Kamalapur	Journal	53		2,423.00
23-Jul-21	Dr Grampanchayat Ajnale	Journal	55		3,500.00
27-Jul-21	Dr Grampanchayat Kamalapur	Journal	58		3,500.00
5-Aug-21	Dr Grampanchayat Shivane	Journal	72		550.00
	Dr Grampanchayat Haldahivadi	Journal	73		550.00
12-Aug-21	Dr Grampanchayat Kamalapur	Journal	79		650.00
27-Aug-21	Dr Grampanchayat Wani Chinchale	Journal	85		1,950.00
	Dr M/s. Pushpak Construction Pvt. Ltd. Mumbai	Journal	86		5,200.00
30-Aug-21	Dr The Yuvraj Patil & Company	Journal	87		74,850.00
20-Sep-21	Dr Grampanchayat Dhyati	Journal	113		1,380.50
2-Dec-21	Dr Grampanchayat Chinke (GSTIN 27PNEG22353C1D9)	Journal	206		690.00
6-Jan-22	Dr Grampanchayat Chinke (GSTIN 27PNEG22353C1D9)	Journal	255		4,670.00
28-Jan-22	Dr Grampanchayat Rajuri	Journal	272		1,380.00
14-Feb-22	Cr BOI A/C NO 074920110000560	Bank Payment	437	63,087.00	•
15-Feb-22	Dr Agricultural Produce Market Committe	Journal	285		4,830.00
28-Feb-22	Dr Agricultural Produce Market Committe	Journal	300		690.00
15-Mar-22	Dr Grampanchayat Waki-Gherdi	Journal	314		690.00
29-Mar-22	Dr Sanjaykumar Madhukarrao Gadhage	Journal	327		11,735.00
31-Mar-22		Journal	351		7,485.00
				63,087.00	1,50,747.23
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**Closing Balance** 



PRINCIPAL FABTEOH TECHNICAL CAMPUS COLLEGE OF ENGINTEERING & RESEARCH SANGOLA

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### An Education Empowered by Industry... FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH (Approved by AICTE, New Delhi; DTE., (M.S.), Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad.) NAAC Accredited ISO 9001 : 2015 Certified Institute

Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in

Ref. No .:- FTC/COER/Test Report 2023 A (02)

Date : 19/07/2023

To Gramsevak Sarpanch, Grampanchayat Udanwadi, A/P — Udanwadi, Tal Sangola, Dist - Solapur.

Subject: - Visual Inspection Report of Water Tank at Udanwadi.

Respected Sir,

Based on your request through letter dated on 07/07/2023, our Engineer Prof.V.S.Bhakare visited the water tank site at Udanwadi on 19/07/2023. The following issues were noted,

- The tank was more than 30 years old.
- Foundation is in UCR Stone Masonry and the wall above ground level is found with Pragmatic Cracks.
- UCR Stone Masonry Vertical Wall surface found with undulations, bulges, loose plaster and signs of dampness with major leakage.
- > Observed walls and wall junctions with noticeable Cracks.
- Cracks at stone masonry with loose mortar found at many locations Vertical Wall surface.
- > Opening observed with cracks at corners of masonry work, and Lintel joints and at many other places.
- The major cracks observed in these may be the major cause of sudden failure of structure in future.

Based on above mentioned observations, it is noted that the structure may not be safe due to UCR Masonry water Tank is dismantle as early as possible.

(Prof.V.S.Bhakare) Audited By Head Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research PRINCIPAL ABTECH TECHNICAL CAMPUS COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA

Note- The information in the letter and/or enclosed report in the prely meant for your guidance and should not be used for litigation evidence / advertisement.





Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola.

TEST RESULT FOR MURUM (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 Agency: Me. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur. Tests were Presented in the Following Table:-

T	T	gineering Pr			Fiel					anical /				Atte	rber	g's		kage		Mod	incu	Direct She	ar Test	y Test	U		
tion No.	101 NO	Supplemen Data	itary	aple	Densit Dis./Ui Sam	ndis.	Clay	Silt		Sand		Gr	avel			5	nit	ıge	tion			Cohesion C (Kg/m <sup>3)</sup>	Tan ø Peak	Constant	ty at 27 <sup>6</sup>	Index (	*
Cample Identification	Sample Identification 30	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	<b>Plasticity Index</b>	Shrinkage Limit	Shrinkage Range	Classification	0.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity at 27 <sup>6</sup> (		Remark
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
C202-C0-02	13 to 15	Construction of Converted Storage Tank at Kntphal No. 1	Casing (Murum)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.85	11.5	-	-	-	-	-	Contract (Adverse) used for under

sting In-charge

Head

Department of Civil Engineering Fablech Technical Campus College of Engineering & Resmirch Sangola Dist Solapu

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PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's ORIGINAL FORM only. (Any correction shall invalidate this report)



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR SOIL (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 Agency: Me. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

rties of the Hearting Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

ne i	Eng	incering	T	opera	Fiel					nical A				Alle	imit	8.2	Shrin	kage		Modi Stand		Direct She	ar Test	y Test	U		
and No.		Suppleme ary Dat		ple	-	y of adis.	Clay	Silt		Sand		Gra	ivel				nit	nge	tion	0		Cohesion C (Kg/m <sup>3)</sup>	Tan ø Peak	Constant	ity at 270	n Index C	ark
Date of Concentration	Sample Identification	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	<b>Plasticity Index</b>	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	S		
+	2	3	4	5	6	7	8	9	王 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
19-04-2023	1 to 3	Construction of Converted Storage Tank at Katphal No. 1	Hearting (Black Cotton Soil)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	18	-	-	-	-	-	Contraction of Contraction



PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH. SANGOLA

esting In-charge

Head Department of Civil Engineering Fabtech Technical Campi-College of Engineering & Pro -.... Sangola Dist Solapu



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR SOIL (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 Agency: Me. Shri. Prakash Vitthal Shewale Pandharpur Tal. - Pandharpur Dist. - Solapur.

The Engineering Properties of the Hearting Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

					Fiel	Unit.			Mech	anical /	Analys	is			Limit	-	Shri	nkage			lified dards	Direct She	ar Test	y Test	J		
	ation No.	Supplem ary Da		ample disturbed		ndis.	Clay	Silt		Sand		Gr	avel			1	nit	ige	tion	(		Cohesion C (Kg/m <sup>3)</sup>	Tan <b>φ</b> Peak	Constant	ty at 27 <sup>6</sup>	Index C	×
Date of Collection	Sample Identification	Location Source (Name of Work)	Lone	Type of Sample Disturbed/Undisturb	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
19-06-2023	28 to 30	Construction of Converted Storage Tank at Katphal No. 1	Hearting (Black Cotton Soil)	Disturbed	-	-	-	-	-	-	-	-	-	-	1	1		-	-	1.86	18.1	-	-	-	-	-	Black Cotton Soil is used for work.

ting In-charge

Head Department of Civil Engineering

Fabtech Technical Camin College of Engineering \* - n

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PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Sangois Dist



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola TEST RESULT FOR SOIL (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 Agency: Mc. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

The Engineering Properties of the Hearting Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

					Fiel	id		1		anical /	Analys	is			Limit		Shrin	kage		Mod		Direct She	ar Test	y Test	J		
rtion	ation No	Supplem ary Da	-	mple isturbed	Densit Dis./U Sam	ndis.	Clay	Silt		Sand		Gr	avel	-	_	CX .	nit	ige	tion	)		Cohesion C (Kg/m <sup>3)</sup>	Tan o Peak	Constant	-	Index (	ž
Date of Collection	Sample Identification No	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity	Compression Index C	Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
03-07-2023	37 to 39	Construction of Converted Storage Tank at Katphal No. 1	Hearting (Black Cotton Soil)	Disturbed	-	-	-	-	-	-	-	-	-	-	1		1	1	1	1.94	19.2	Ţ	-		_	-	Black Cotton Soil is used for most

ing In-charge

Head

Department of Civil Engineering Fablech Technical Campur College of Engineering & Research



PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Sangela Dist Solapur



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR MURUM (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 Agency: Me. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

T	Ţ	gineering P			Fiel	d				anical /				Atte	rber	g's	Shrin			Modi	meu	Direct She	ar Test	y Test	U		
tion No.	ON HOI	Supplemen Data		sturbed	Densit Dis/Ui Sam	ndis.	Clay	Silt		Sand		Gr	avel				nit	ige	tion			Cohesion C (Kg/m <sup>3)</sup>	Tan o Peak	Constant	ty at 27 <sup>6</sup>	Index 6	ž
Cample Identification No.	and	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	<b>Plasticity Index</b>	Shrinkage Limit	Shrinkage Range	Classification	0.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity at 27		Remark
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
C202-00-20	16 to 18	Construction of Converted Storage Tank at Katphal No. 1	Casing (Murum)	Disturbed	-	-	-	-	-	-	-	-	-	-	-		-	-	-	1.91	11.8	-	-	-	-	_	Contract (Manual) used for more

ead

FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

g In-charge

Department of Civil Engineering Fablech Technical Campus College of Engineering & Resarch Sangola Dist Science



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ReENON FTC KOER Test Report/2023/23

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR MURUM (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 pracy: Mr. Stri. Prakash Vitihal Shewale Pandharpur Tal - Pandharpur Dist - Solapur.

The Engineering Properties of the Soil (Murum) Sample Determined from Laborato	ry Tests were Presented in the Following Table
--	--

1		pineering r			Fiel	ы				anical /	alys	is .			imit		Shrin	nkage			lified lards	Direct She	ar Test	y Test	0		
ction	atton Ne	Data	-	uple isturbed	Densit Dis_/U Sam	ndis.	Clay	Silt		Sand		Gr	and			KA .	nit	ıge	tion			Cohesion C (Kg/m <sup>3)</sup>	Tan o Peak	Constant	ly at 27 <sup>8</sup>	Index (	-2
Date of Collection	Sample Identification No.	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturbed	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine and 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	8		Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
03-08-2023	55 10 57	Construction of Converted Storage Tank at Katphat No. 1	Cosing (Murum)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.62	11.6	-	-	-	-	-	Casing (Murum) used for work

In-charge

PRINCIPAL Department of Civil Engineering FABTECH TECHNICAL CAMPUS Fabtech Technical Campur

College of Engineering & Res-wich Sangela Dist Solapu

COLLEGE OF ENGINEERING & RESEARCH SANGOLA



Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola TEST RESULT FOR SOIL (Disturbed Sample)

Reference: As per the application from Sub Divisional Water Conservation Officer, Soil and Water Conservation Subdivision, Sangola. (Dtd. 18/04/2023) Name of work: Construction of Converted Storage Tank at Katphal No. 1 Tal.- Sangola Dist.- Solapur. Tender No. : B-1/MWC/25/For 2022-2023 Agency: Me. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

The Engineering Properties of the Hearting Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

					Fiel				Mech	anical A	Analys	is			rber		Shrin	kage		Mod	ified lards	Direct She	ar Test	y Test	0		
ction	ation No	Supplem ary Da		Sample Indisturbed	Densit Dis./U	ndis.	Clay	Silt		Sand		Gr	avel			×	nit	ige	tion	)		Cohesion C (Kg/m <sup>3)</sup>	Tan ø Peak	Constant	ty at 27 <sup>0</sup>	Index C	r.
Date of Collection	Sample Identification No	Location Source (Name of Work)	Zone	Type of Sample Disturbed/Undisturb	Placement Dry Density (Kg/m3)	P.M.C. %	Clay below 0.002 mm	0.002 to 0.075 mm	Fine sand 0.075 to 0.42 mm	Medium Sand 0.42 to 2.0 mm	Coarse sand 2.0 to 4.75 mm	Gravel fine 4.75 mm to 20.00 mm	Coarse 20.0 to 80 mm	Liquid Limit	Plastic Limit	<b>Plasticity Index</b>	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	0.M.C. (%)	Ultimate	Ultimate	Coefficient of Permeability	Specific Gravity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	21
22-07-2023	46 to 48	Construction of Converted Storage Tank at Katphal No. 1	Hearting (Black Cotton Soil)	Disturbed	-	_	-	-	-		-	-	-	-	-	-	-	-	1	1.85	18.2	-	-		1	1	Black Cotton Soil is used for work

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t of Civil Engineering Departmet Fabtech Technical Cam

College of Engineering & Research Sangela Dist Solapu

PRINCIPAI FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA



To, Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola.

Subject: Test Report on Safe Bearing Capacity Soil. Date of Sample Received: 10/04/2023. Date of Testing: 10/04/2023. Contract:Construction Tap Water Supply Scheme at- WakiShivane Tal. - Sangola Dist. - Solapur.

The Engineering Properties of the Soilsample determine from Laboratory Test were present in the Following Table:-

# 1. SBC of Murum/Soil:

Sr.No.	Name of Work	Recommended Founding Stratum	Founding Depth (m)	Net Safe Bearing Capacity KN/m <sup>2</sup>
1	Construction of ESR Water tank at WakiShivane	Residual deposits of shattered and broken bed rock and hard shale, cemented material	1.5	830

(Prof.V.S.Bhakare) Testing In-charge

Head Department of Civil Engineering Fabtech Technical Campus Conege of Engineering & Research Sangela Dist Solapur

PRINCIPAL CABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING COLLEGE OF ENGINEERING COLLEGE OF ENGINEERING

Note:-The test report and result related to the particular space man sumple of the delivered/received and tested in the laboratory.





To, Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola.

Subject: Test Report on Safe Bearing Capacity Soil. Date of Sample Received: 26/04/2023. Date of Testing: 26/04/2023. Contract:Construction Tap Water Supply Scheme at- Lonvire Tal. - Sangola Dist. - Solapur.

The Engineering Properties of the Soilsample determine from Laboratory Test were present in the Following Table:-

# 1. SBC of Murum/Soil:

Sr.No.	Name of Work	Recommended Founding Stratum	Founding Depth (m)	Net Safe Bearing Capacity KN/m <sup>2</sup>
1	Construction of ESR Water tank at Lonvire	Residual deposits of shattered and broken bed rock and soft rock strata	1.5	637
2	Construction of Sump Water tank at Lonvire	Residual deposits of shattered and broken bed rock and soft rock strata	1.5	625

(Prof.V.S.Bhakare) Testing In-charge

Department of Civil Engineering Fabtech Technical Campus Guilege of Engineering & Research Sangela Dist Solapui

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Note:-The test report and result related to the particular spacemen /sample of the detrered/received and tested in the laboratory.



To, Sub Divisional Engineer, Rural Water Supply (R.W.S), Subdivision Department, Sangola.

Subject: Test Report on Safe Bearing Capacity Soil. Date of Sample Received: 26/04/2023. Date of Testing: 26/04/2023. Contract:Construction Tap Water Supply Scheme at- Nijampur Tal. - Sangola Dist. - Solapur.

The Engineering Properties of the Soilsample determine from Laboratory Test were present in the Following Table:-

# 1. SBC of Murum/Soil:

Sr.No.	Name of Work	Recommended Founding Stratum	Founding Depth (m)	Net Safe Bearing Capacity KN/m <sup>2</sup>
1	Construction of ESR Water tank at Nijampur	Residual deposits of shattered and broken bed rock and hard shale, cemented material	1.25	835
2	Construction of Sump Water tank at Nijampur	Residual deposits of shattered and broken bed rock and hard shale, cemented material	1.25	845

(Prof.V.S.Bhakare) Testing In-charge

Plead Department of Civil Engineering Fabtech Technical Campus Courage of Engineering & Research Sangela Dist Sciapur

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Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



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Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in

Ref. No .:- FTC (OBR / TEST Report /2023 / 32210)

Date : 31 /05/2023.

To, Sub. Div. Officer Irrigation Sub. Div. Sangola Dist.-Solapur

Subject: Test Report on Stone Block.

Date of Sample Received: 31/05/2025.

Date of Testing: 31/05/2023.

Contract: Repairs to Left D/S earthen filling and necessary Quarry Spall of K.T. weir At Kadlas Tal Sangola Dist.-Solapur

The Engineering Properties of the Stone Block sample determine from Laboratory Test were present in the Following Table:-

1. Stone Block:

Sr.N o.	Name of Stone	Date of Testing	Component of work	Wt. of Stone Block (gm)	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Crushing Strength (N/mm <sup>2</sup> )	Average Crushing Strength (N/mm <sup>2</sup> )
	Igneous		Repairs to Left D/S earthen	8810	10000	1150	115	
1	Rock Basalt	31/05/2023	filling and necessary	8880	10000	1175	117.5	117.5
	Dasan		Quarry Spall of K.T. weir	8850	10000	1200	120	

(Prof.V.S.Bhakare) Testing In-charge

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Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sanuela Dist Solapur

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Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.





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Ref.No .:-

/202Date :

Agency Name-Dipakraj Construction, Sangola

Name of Work-Repairs to Left D/S earthen filling and necessary Quarry Spall of K.T. weir At Kadlas Tal Sangola Dist solapur

**Fest Result For Soil** 

Note-The test report and result related to the perticular specimen / Sample f the material as delivered/received tested in laboratory. This Report is valid it's ORIGINAL 1 only. & RESEARCH, SANGOLA



**Festing** I/C

College of Engineering & Research Department of Civil Engineering Fabtech Technical Campus Sangela Dist Solapur Head

FABTECH TECHNICAL CAMPUS

PRINCIPAL

31-05-2023 Date of Collection Ref: Your request letter about testing report Sub. Div. Officer, Irrigation Sub. Div. Sangola. -1 to 3 Sample Identificatio Number N Supplimentry Repairs to Left D/S earthen Location Source filling and necessary Quarry -(Name of Work) Spall of K.T. weir Data Soil from Casing Zone 4 Type of Sample Disturbed / Undisturbed Disturbed UN Distru/Un Dry Density Kg/m3 Density of 0 distru Field P.M.C % 4 The Engineering properties of soil sample determined Clay Clay below 0.002 mm -Silt . 0.002 mm to 0.075 mm Fine Sand 0.075 mm to 0.42 mm õ Mechanical Analysis Sand Ξ Medium sand 0.42 mm to 2.00 mm Coarse sand 2.00 mm to 4.75 mm 12 З Gravel fine 4.75 mm to 20.00 mm Gravel Coarse 20.00 mm to \$0.00 mm 4 5 Liquid Limit from laboratory Atterberg's Limit 1 16 Plastic Limit i. 17 Plastisity Index Test 18 Shrinkage Limit Shrinkage result were Shrinkage Range 19 presented in following table Classification 20 Modified Standards 1.74 N ODDg/cc 15.10 OMC% 13 Cohesion kg/m3 **Direct Shear Test** Ultimate Ľ Peak 22 Ultimate Yield Constant K Coefficient of Permiability Tes 26 Specific Gravity at 27 C 3 Compression Index C Test Sample speciman used 28 Remark for work



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# Ref. No.:- FTC - COER/ Test Report/2013/3203 Date : 17/05/2023

To Gramsevak Sarpanch, Grampanchayat Jawala, A/P - Jawala Tal Sangola, Dist - Solapur.

Subject: - Visual Inspection Report of Water Tank at Jawala.

## Respected Sir.

Based on your request through letter dated on 10/05/2023, our Engineer Prof.V.S.Bhakare visited the water tank site at Jawala on 12/05/2023. The following issues were noted,

- The tank was more than 30 years old.
- Foundation is in RCC and the wall above ground level is found with Pragmatic Cracks.
- RCC Column damaged with steel open for concrete.
- > Wall and Top Cover Slab is found in irregular Undulations.
- RCC Vertical Wall surface found with undulations, bulges, loose plaster and signs of dampness with major leakage.
- Observed walls and wall junctions with noticeable Cracks.
- > Observed steel of slab exposed at many places in large area. Steel exposed area is around approximate 50% of floor area.
- Observed Separation of Top Slab from Wall.
- Rain Water Seeps from the Wall and slab observed at various spots.
- > The major cracks observed in these may be the major cause of sudden failure of structure in future.

Based on above mentioned observations, it is noted that the structure may not be safe for its longer duration use.

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(Prof. V.S.Bhakare) Audited By

College of Engineering & Research Note- The information in the letter and/or enclosed report is / are purely meant for your guidance and should not be used for litigation evidence / advertisement.





Ref. No .:- FTC. COER/Test Report/2023/3161(A) Date: 03/04/2023

# TEST REPORT

1. Name & Address of Circle: Rural Water Supply (R.W.S.) Subdivision Department, Sangola.

2. Client's Reference: As per the application from Sub Divisional Engineer, Rural Water Supply (R.W.S.) Department Subdivision Second (Ded 2020)

(R.W.S.) Department Subdivision, Sangola.(Dtd. 03/04/2023)

3. Contract/Name of Work: Construction of Tap water supply scheme at Ajnale Tal.- Sangola Dist.- Solapur.

4.Agency: M. Siddhnath Construction, Hotel Blue Diamond Tal.- Sangola Dist.- Solapur.

5. Sample i) Description: Steel

ii) Quantity: 3 No's. (12 mm)

iii) Date of Receipt: 03/04/2023

6. Date of Testing/Casting: 03/04/2023

# TEST RESULT

1. Description of Sample	: TMT Bars 12.0 mm Dia.
2. Type of Steel	: Tor Steel

· 60 mm

4.	Type of Steel	
3.	Gauge Length	

		(As PEF	R IS 1786: 2	TEST 008 For Det	RESULT ails of Speci	fication Reg	uirements)		
Sr. No.	Nominal Diameter (mm)	Effective C/S Area (mm <sup>2</sup> )	Weight per Meter (Kg/m)	0.2% Yield Stress (N/mm <sup>2</sup> )	Ultimate Tensile Strength (N/mm <sup>2</sup> )	Average Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Bend & Rebend Test	Grade
	12	113.09	0.892	610.00	641.15	652.32 22.10 Rupti		No	Fe 500
1	12	113.09	0.892	595.00	665.30		22.10	Rupture	
	12	113.09	0.892	620.00	650.50		Cracks		

inimum Requirement as per IS Code 456-2000:- 1. Grade of Steel : Fe – 500 2. Tensile Strength ((N/mm<sup>2</sup>): 545 3. Percentage Elongation: 12

In-charge

Department of Civil Commentation

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College of Englishering & Research

Sanoola Dist Solaour



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Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's ORIGINAL FORM only. (Any correction shall invalidate this report)



Ref. No .:- FTC/COER/ Test Report/ 2023/3161(C)

# TEST REPORT

1. Name & Address of Circle: Rural Water Supply (R.W.S.) Subdivision Department, Sangola. 2. Client's Reference: As per the application from Sub Divisional Engineer, Rural Water

Supply (R.W.S.) Department Subdivision, Sangola. (Dtd. 03/04/2023)

3. Contract/Name of Work: Construction of Tap water supply scheme at Ajnale Tal.- Sangola Dist.- Solapur.

4. Agency: M. Siddhnath Construction, Hotel Blue Diamond Tal.- Sangola Dist.- Solapur.

5. Sample i) Description: Steel

ii) Quantity: 3 No's. (10 mm)

iii) Date of Receipt: 03/04/2023

6. Date of Testing/Casting: 03/04/2023

#### TEST RESULT

10.0 mm Dia.

1. Description of Sample	: TMT Bars
2. Type of Steel	: Tor Steel
3. Gauge Length	: 50 mm

		(As PEF	R IS 1786: 2	TEST 008 For Det	RESULT ails of Speci	fication Red	uirements)		
Sr. No.	Nominal Diameter (mm)	Effective C/S Area (mm <sup>2</sup> )	Weight per Meter (Kg/m)	0.2% Yield Stress (N/mm <sup>2</sup> )	Ultimate Tensile Strength (N/mm <sup>2</sup> )	Average Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Bend & Rebend Test	Grade
	10	78.28	0.630	595.00	635.45			No	
1	10	78.28	0.630	621.00	663.15	656.37 21.30 Rupt	Rupture	Fe 500	
	10	78.28	0.630	630.00	670.50			Cracks	

Minimum Requirement as per IS Code 456-2000:- 1. Grade of Steel : Fe - 500 2. Tensile Strength ((N/mm<sup>2</sup>): 545 3. Percentage Elongation: 12

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Date:03/04/2023

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Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in It's ORIGINAL FORM only, (Any correction shall invalidate this report)



Ref. No .:- FTC-COER | Test Report (2023/3161 (D)

Date :03 /0 4/2029

# TEST REPORT

Name & Address of Circle: Rural Water Supply (R.W.S.) Subdivision Department, Sangola.
 Client's Reference: As per the application from Sub Divisional Engineer, Rural Water Supply (R.W.S.) Department Subdivision, Sangola. (Dtd. 03/04/2023)

3. Contract/Name of Work: Construction of R.C.C. ESR and R.C.C. GSR Tap water supply scheme at Ajnale Tal.- Sangola Dist.- Solapur.

4. Agency: M. Siddhnath Construction, Hotel Blue Diamond Tal.- Sangola Dist.- Solapur.

#### Dear Sir,

Based on the material supplied by you for mix design of M-30 Concrete, we have tested the required material and performed design of M-30 Concrete. The M-30 Concrete mix design based on 7 days test is given below.

	(As PER IS	IS:10262,200	TEST RESULT 9For Details of Spec	ification Requirements)	
				Course Aggregate	Compressiv
	Water	Cement	Crushed Sand	CA-20	e Strength at 7 Days
Per M <sup>3</sup>	176 Ltr.	380 Kg	702 kg	1183 kg	29.10
Proportion	0.42	1	1.84	3.11	N/mm <sup>2</sup>

Note: 1. The above recommended mix design must be verified, by actual cube tests. 2. The mix design is based on the quality and grading of the materials actually supplied, by the client.

3. On field any variation in quality and gradation will result in changes in the mix design.

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TEST REPORT

1. Name & Address of Circle: Rural Water Supply (R.W.S.) Subdivision Department, Sangola. 2. Client's Reference: As per the application from Sub Divisional Engineer, Rural Water

Supply (R.W.S.) Department Subdivision, Sangola. (Dtd. 03/04/2023)

3. Contract/Name of Work: Construction of Tap water supply scheme at Ajnale Tal.- Sangola Dist.- Solapur.

4. Agency: M. Siddhnath Construction, Hotel Blue Diamond Tal.- Sangola Dist.- Solapur.

: Tor Steel

5. Sample i) Description: Steel

ii) Quantity: 3 No's. (08mm)

iii) Date of Receipt: 03/04/2023

6. Date of Testing/Casting: 03/04/2023

# TEST RESULT

1. Description of Sample	: TMT Bars 8.0 mm Dia.
--------------------------	------------------------

2. Type of Steel

2 Course Longth

	3. Gauge		R IS 1786: 2	: 40 mm TEST 2008 For Det	RESULT ails of Speci	fication Req	uirements)		
Sr. No.	Nominal Diameter (mm)	Effective C/S Area (mm <sup>2</sup> )	Weight per Meter (Kg/m)	0.2% Yield Stress (N/mm <sup>2</sup> )	Ultimate Tensile Strength (N/mm <sup>2</sup> )	Average Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Bend & Rebend Test	Grade
	8	50.30	0.412	585.00	615.00	637.91 22.15 &		No	
1	8	50.30	0.412	610.00	643.25		Rupture &	Fe 500	
	8	50.30	0.412	605.00	655.50			Cracks	

Minimum Requirement as per IS Code 456-2000:- 1. Grade of Steel : Fe – 500 2. Tensile Strength ((N/mm<sup>2</sup>): 545 3. Percentage Elongation: 12

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Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in

Ref.No .:-

# Concrete Mix Design M-30 Grade

Date :03 /04/2023

# 1. TEST DATA FOR MATERIALS SUPPLIED

- Degree of workability Medium (Normal reinforced concrete manually compacted and heavily reinforced section with vibration)
- Specified Minimum Strength = 30 N/Sq.mm
- Durability Requirements
  - i) Exposure Mild
  - ii) Minimum Cement Content = 320 Kgs/Cum.
  - iii) Maximum w/c Ratio 0.42 assumed (For R.C.C.)
- Size of coarse aggregate 20 mm
- Shape of coarse aggregate Angular
- Degree of Quality Control Good
- Cement (Refer Table No. 5 of IS: 456-2000)

ACC 43 Grade (OPC), Specific Gravity- 3.15, Compressive Strength of cement after 7

days of curing - 35.66 N/Sq.mm (Satisfies the requirement of IS12269:1987)

- Specific Gravity of (20mm) coarse Aggregate 2.76
- Specific Gravity of Fine Aggregate 2.69
- Free Moisture
  - i) Fine Aggregate Nil
  - ii) Course Aggregate Nil
- Water Absorption
  - i) Coarse Aggregate 0.5% for 20 mm
  - ii) Fine Aggregate 1.32%
- Sieve analysis of Coarse Aggregate is confirming to table no. 2 in IS 383:1970
- Sieve analysis Fine Aggregate is confirming to table no. 4 in IS 383:1970
- Fineness Modulus of Fine Aggregate 2.7
- ➢ Fineness Modulus of Coarse Aggregate 20 mm − 8.27
- Assume 5% results are allowed to be fall below.

chart

Note: - The test report and result related to the particular specimen/sample(s) of ABJ mitterial hereiter and tested in the laboratory. This Report is Valid in It's ORIGINAL FORM only Charge Some of the Shall Brivelidate this report)

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( Approved by AICTE, New Delhi; DTE., (M.S.), Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad )

NAAC Accredited ISO 9001 : 2015 Certified Institute

Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech/aftccoe.ac.in

Ref.No .:-

#### ANNEXURE-I

Date :03 /04 /2023

# **Detailed Test Report and Mix Design Calculations**

Name of Party: M. Siddhnath Construction, Hotel Blue Diamond Tal.- Sangola Dist.- Solapur. Site: Construction of R.C.C. ESR and R.C.C. GSR Tap water supply scheme at Ajnale Tal.-Sangola Dist.- Solapur.

## a) Cement

Name of Test on Cement	Cement		
Standard Consistency of Cement	30.5%		
Fineness of Cement	2.0%		
Initial Setting time of Cement	70 minutes		
Final Setting time of Cement	295 minutes		
Avg. Comp. Strength at 7 Days	35.66 MPa		
Specific Gravity	3.15		

# b) Coarse Aggregate

20 mm Graded Angular Type Crushed Stone Aggregate Specific Gravity = 2.76 Water Absorption = 0.5% for 20 mm Free (Surface) Moisture = Nil Crushing Value = 21.22% Impact Value = 17.6% Fineness Modulus = 8.27

# c) Fine Aggregate (Crushed Sand)

Specific Gravity = 2.69 Water Absorption = 1.32% Free (Surface) Moisture = Nil Silt Content = 1.0% Fineness Modulus = 2.7

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Department of Civil Engineering Fahtech Technical Campus College of Engineering & Research Sanchia Dist. Solapur



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## Ref. No MIX CALCULATIONS

Date : 03 / 04/2023

The mix calculations per unit volume of concrete

a) Volume of Concrete =  $1 \text{ m}^3$ b) Volume of Cement =  $\frac{380}{3.15} \times \frac{1}{1000}$ 

$$= 0.12 \text{ m}^3$$

c) Volume of Water  $= \frac{160}{1} \times \frac{1}{1000}$ 

$$= 0.160 \text{ m}^3$$

- d) Volume of Admixture =  $\frac{4}{1.18} \times \frac{1}{1000}$  $= 0.0037 \text{ m}^3$ 
  - e) Volume of Air Content = 2% by total volume =  $0.02 \text{ m}^3$

1) Volume of 
$$(CA+FA) = (a) - [(b+c+d+e)]$$

= 1 - [(0.12 + 0.160 + 0.02 + 0.0037)]

 $= 0.696 \text{ m}^3$ 

## Coarse Aggregate Calculation

Mass of CA = Volume of CA × Volume of (CA+FA) × Sp. Gr. of Coarse Aggregate × 1000

$$= 0.62 \times 0.696 \times 2.76 \times 1000$$

$$= 1190 \text{ Kg/m}^3$$



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#### Fine Aggregate Calculation

Mass of FA = Volume of FA × Volume of (CA+FA) × Sp. Gr. of Fine Aggregate × 1000

 $= 0.38 \times 0.696 \times 2.69 \times 1000$ 

 $= 711 \text{ Kg/m}^3$ 

#### Correction for Water Absorption

1. For C.A. =  $0.6\% \times 1190 = 7.14 \text{ Kg/m}^3$ 

2. For F.A. =  $1.31\% \times 711 = 9.39 \text{ Kg/m}^3$ 

Corrected Water Content =  $160 + 7.14 + 9.39 = 176.53 \text{ Kg/m}^3$ 

Corrected C.A.  $= 1190 - 7.14 = 1183 \text{ Kg/m}^3$ 

Corrected F.A.  $= 711 - 9.38 = 702 \text{ Kg/m}^3$ 

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# Ref.NotARGET MEAN STRENGTH (TMS)

a) Statistical Constant K = 1.65

b) Standard Deviation S = 5

Target Mean Strength: T.M.S. =  $F_{ck}$  + 1.65 × S.D.

(from 1.8. 456-2000)  $= 30 + 1.65 \times 5$ 

= 38.25 Mpa

Thus, TMS = 38.25 Mpa

## 3. SELECTION OF W/C RATIO

a) As Required for TMS = 0.45

Adopt w/c Ration as 0.42

## 4. DETERMINATION OF WATER & FINE AGGREGATE CONTENT CA 20 MM

Approximate Sand and Water Content per cubic meter of concrete

For W/C = 0.42, Size of Aggregate 20 mm

Water Content = 160 Kg/Cum.

## 5. DETERMINATION OF CEMENT CONTENT

W/C Ratio = 0.42

Water Content = 160 Kg/Cum.

Thus, Cement Content = 380 Kg/Cum., Adequate for mild exposure say 320 kg/Cum.

## 6. DETERMINATION OF COURSE AND FINE AGGREGATE CONTENT

From Table-3, Volume of Coarse Aggregate Corresponding to 20 mm size aggregate and Fine aggregate zone-II, w/c of 0.42 = 0.62

Therefore, for w/c of 0.44 volume of coarse aggregate = 0.62

Volume of fine aggregate = 1.0 - 0.62 = 0.38

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Department of Civil Engineering Eastern Technical Clamores



Date :03 /04/2023

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Ref.No .:-

Date: 06/02/2023

#### Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from N. Yaganti Eshwraiah, Hatalgeri Road, Gadag. (Dtd. 06/02/2023)

Contract: Elimination of manned levelcrossing No. 32 at KM 458/7-8 by providing 2 box of 4.5 X 4.5 m at kms. 458/7-8 on Kurduwad - Miraj Section. Agency: N. Yaganti Eshwraiah Rly. Contractor

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr.	Date of	Date of	Sample Identificat	Name of	Name	Grade of	Com	pressive S	Strength N	N/mm <sup>2</sup>	Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS	(Location) Remark
No.	Casting	Testing	ion No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strength (tolum )	Specification	and the statement of the
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	-	-	37 to 39		1		18.22	N.A.	N.A.	N.A.		As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm²) and 28 per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 100% (20 N/mm² and 30 N/mm²).	Pre Cast
13	07-12-2022	14-12-2022	37 to 39			M-20	16.17	N.A.	N.A.	N.A.	17.12	6	Road
15	01-12-2022		37 to 39		V.		16.98	N.A.	N.A.	N.A.			Road
			40 to 42				N.A.	N.A.	N.A.	24.33		Z	
14	01-11-2022	28-11-2022	40 to 42	1	1	M-20	N.A.	N.A.	N.A.	25.1	25.44	9.0	Raft
	01 11 2022		40 to 42	1	Elimination of manned levelcrossing at Kurduwad - Miraj Section		N.A.	N.A.	N.A.	26.9		3	
-			43 to 45	1	ct		N.A.	N.A.	N.A.	25.34		%	
15	04-11-2022	02-12-2022	43 to 45	1	Š	M-20	N.A.	N.A.	N.A.	24.92	25.49	1 65	Wall
			43 to 45	1	2		N.A.	N.A.	N.A.	26.21		5	
-			46 to 48	1	Mi		N.A.	N.A.	N.A.	24.91	8507500	sive strength achieved by concrete at 07 days is ab 28 days is about 100% (20 N/mm² and 30 N/mm² ).	
16	07-11-2022	05-12-2022	46 to 48	1 5	7	M-20	N.A.	N.A.	N.A.	26.88	25.64	si s	Wall
	1 BOUDDUD0000000		46 to 48	N. Yaganti Eshwraiah Rly. Contractor	ad		N.A.	N.A.	N.A.	25.12		N'I N	
-			49 to 51	1 5	N N		N.A.	N.A.	.N.A.	24.19		30	
17	10-11-2022	08-12-2022	49 to 51	1 8	Ē	M-20	N.A.	N.A.	N.A.	25.25	25.27	a p	Wall
			49 to 51	1 0	3		N.A.	N.A.	N.A.	26.38		a	
-		1	52 to 54	1 Å	1 2		N.A.	N.A.	N.A.	25.38	-	5	
18	13-11-2022	11-12-2022	52 to 54	1 4	0.0	M-20	N.A.	N.A.	N.A.	24.01	25.18	N N	Wall
			52 to 54	ai	sin	-	N.A.	N.A.	N.A.	26.16		20	
			55 to 57	La	SO.	000000400	N.A.	N.A.	N.A.	26.15		% (	11-11
19	16-11-2022	14-12-2022	55 to 57	T A	c	M-20	N.A.	N.A.	N.A.	24.19	25.24	00 ic	Wall
			55 to 57	Es	ve		N.A.	N.A.	N.A.	25.37		41	
			58 to 60	Ţ.	1		N.A.	N.A.	N.A.	25.2	-	i i i	Raft
20	19-11-2022	17-12-2022	58 to 60	2a	lee	M-20	N.A.	N.A.	N.A.	25.91		2 3 3	Kan
			58 to 60	(a	an		N.A.	N.A.	N.A.	24.03		itre ys i	-
			61 to 63	1 5	E	Service of the	N.A.		N.A.	26.38	The second second	da,	
21	20-11-2022	18-12-2022	61 to 63	1 4	of	M-20	N.A.	N.A.	N.A.	24.17		28	Wall
	1		61 to 63		E U		N.A.		N.A.	24.04	and a second	bre	
			64 to 66		ati		N.A.	which the second s	N.A.	24.49		E.	Wall
22	23-11-2022	21-12-2022	2 64 to 66			M-20	N.A.		N.A.	26.42		Ŭ	wan
			64 to 66		E		N.A		N.A.	24.1		8	-
			67 10 69		E		N.A		N.A.	26.42	North Contract	1-5	AN/ I
2	26-11-2022	24-12-202	2 67 to 69			M-20	N.A	the second se	N.A.			45(	Wal
			67 to 69				N.A		N.A.	24.15		IS	
			70 to 72				N.A	the second division of	N.A.	and the second second second	and the second se	5	
2	29-11-2022	27-12-202	2 70 10 72	2		M-20	N.A	. N.A.				S P	Wal
			70 to 72	2			N.A	. N.A.	N.A	24.2		<	

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## Ref. No.:- FTC-COER | Test Report / 2023/3153 (A) Date: 06/02/2023

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No.	Casting	Testing	ion No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strengta (twant)	Specification	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			1 to 3				17.58	N.A.	N.A.	N.A.	No. Post of Concession	6	020020
1	01-11-2022	08-11-2022	1 to 3			M-20	17.56	N.A.	N.A.	N.A.	17.11		Raft
	and data taken		1 to 3				16.2	N.A.	N.A.	N.A.		100 (13.00 %), 13.00 %), 10.00 %), 1	
			4 to 6				17.98	' N.A.	N.A.	N.A.	PERSONAL PROPERTY AND INC.	8 4	
2	04-11-2022	10-11-2022	4 to 6			M-20	17.78	N.A.	N.A.	N.A.	17.39	0 N	Wall
			4 to 6		IOI		16.42	N.A.	N.A.	N.A.		% (	
		1	7 to 9		ct		16.56	N.A.	N.A.	N.A.		89	
3	07-11-2022	14-11-2022	7 to 9		Š	M-20	17.3	N.A.	N.A.	N.A.	16.69	1 E	Wall
			7 to 9		La.		16.21	N.A.	N.A.	N.A.		abc //m	
			10 to 12		Mi		17.66	N.A.	N.A.	N.A.		10 12	11/-11
4	10-11-2022	17-11-2022	10 to 12	5	5	M-20	17.72	N.A.	N.A.	N.A.	17.39	iys (2	Wall
	Contraction of the second	Local Anna and a second	10 to 12	cto	ad		16.79	N.A.	N.A.	N.A.		di.	
			13 to 15	tra	MI	1210210202	17.98	N.A.	N.A.	N.A.	17.12	.0	Wall
5	13-11-2022	20-11-2022	13 to 15	uo	1p.	M-20	17.07	N.A.	N.A.	N.A.	17.12	ca	wan
			13 to 15	Ö	n,		16.32	N.A.	N.A.	N.A.		19	
			16 to 18	ly.	÷	Carlos Carlos Carlos	17.16	N.A.	N.A.	N.A.	17.34	ano	Wall
6	16-11-2022	23-11-2022	16 to 18	R	60	M-20	18.2	N.A.	N.A.	N.A.	17.54	ye	wan
			16 to 18	iał	in		16.65	N.A.	N.A.	N.A.		d b	
			19 to 21	La	SO		16.98	N.A.	N.A.	N.A.	17.28	ave	Raft
7	19-11-2022	26-11-2022	19 to 21	hw	lcr	M-20	18.1	N.A.	N.A.	N.A.	17.20	chi	Nan
		-	19 to 21	Yaganti Eshwraiah Rly. Contractor	ve		16.77	N.A.	N.A.	and the second design of the s		1 1	
			22 to 24	Ţ.	l le		17.9	N.A.	N.A.	N.A.	17.46	11S	Wall
8	20-11-2022	27-11-2022	22 to 24	an	Jed	M-20	17.76	N.A.	N.A.	N.A.	17.40	ret	wan
		<u> </u>	22 to 24	ag	Iu		16.71	N.A.	N.A.	and the second se		c st	
	TOTAL STREET	The second second	25 to 27	ż	Elimination of manned levelcrossing at Kurduwad - Miraj Section	11.00	17.98	N.A.	N.A.	N.A.	17.13	siv.	Wall
9	23-11-2022	30-11-2022	25 to 27	2	of	M-20	17.02	N.A.	N.A.	N.A.	17.8.2	per IS:456-2000 Compress and 28 days is about 100%	matt
			25 to 27		uo		16.4	N.A.	N.A.	N.A.		L I	
	National and and		28 to 30		ati	20.00	17.45	and the second s	N.A.	N.A.	17.40	Co	Wall
10	26-11-2022	03-12-2022	28 to 30		ii.	M-20	16.7	N.A.	N.A.	N.A.	17.10	00	
			28 to 30		in		18.06		N.A.	N.A.		-20	
			31 to 33		E	14.20	18.77	N.A.	N.A.	N.A.	17.87	156 day	Wall
11	29-11-2022	06-12-2022	31 to 33			M-20	16.13	the state of the s	N.A.	N.A.	1.7.017	S:4	
			31 to 33				18.7	N.A.		N.A.		I'l	
	Andread Sectors	atur de cateron	34 to 36				17.11	N.A.	N.A.	And and a support of the local division of t	16.51	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm²) and 28 days is about 100% (13.00 N/mm² ).	Wall
12	02-12-2022	09-12-2022	34 to 36	1		M-20	16.11	N.A.	N.A.	N.A.	10.51	As	wall
			34 to 36				16.3	N.A.	N.A.	N.A.			

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Ref. No .:- FTC - COER/ Test Report / 2023 / 3153 (A) Date: 06/02/2023

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No.	Casting	Testing	ion No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strength (N/mm <sup>2</sup> )	Specification	Kemark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			109 to 111				N.A.	N.A.	N.A.	36.42			
37	30-12-2022	28-01-2023	109 to 111		6 1	M-30	N.A.	N.A.	N.A.	36.53	36.47		Road
			109 to 111				N.A.	N.A.	N.A.	36.47			
			112 to 114				N.A.	N.A.	N.A.	35.99			
38	30-12-2022	28-01-2023	112 to 114			M-30	N.A.	N.A.	N.A.	35.48	36.03		Road
			112 to 114				N.A.	N.A.	N.A.	36.61			
			115 to 117				N.A.	N.A.	N.A.	36.79			
39	30-12-2022	28-01-2023	115 to 117			M-30	N.A.	N.A.	N.A.	36.66	36.81		Road
	Benetic Book of Linearest	Contraction of the second of the	115 to 117		N.A.	N.A.	N.A.	36.99	337 652 55		ALCONTRACT!		
			118 to 120		1		N.A.	N.A.	N.A.	35.98			
40	01-01-2023	30-01-2023	118 to 120			M-30	N.A.	N.A.	N.A.	36.98	36.39		Road
			118 to 120				N.A.	N.A.	N.A.	36.22	1		60016 - San
			121 to 123				N.A.	N.A.	N.A.	36.72			
41	01-01-2023	30-01-2023	121 to 123			M-30	N.A.	N.A.	N.A.	35.98	36.03		Road
			121 to 123				N.A.	N.A.	N.A.	35.4			
			124 to 126				N.A.	N.A.	N.A.	36.49			
42	01-01-2023	30-01-2023	124 to 126			M-30	N.A.	N.A.	N.A.	36.15	36.54		Road
		and a second	124 to 126			w/cvr/520(71)	N.A.	N.A.	N.A.	36.98		5	
			127 to 129			n.	N.A.	N.A.	N.A.	36.33			
43	07-01-2023	06-02-2023	127 to 129			M-30	N.A.	N.A.	N.A.	36.7	36.67		Wall
			127 to 129			12512 (2517)	N.A.	N.A.	N.A.	36.98	3270 SM		12220201

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Ref.No .:-

Date :06/02/2023

#### Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola. TEST RESULT FOR CEMENT CONCRETE (Moulded Specimen)

Reference: As per the application from N. Yaganti Eshwraiah, Hatalgeri Road, Gadag. (Dtd. 06/02/2023) Contract: Elimination of manned levelcrossing No. 32 at KM 458/7-8 by providing 2 box of 4.5 X 4.5 m at kms. 458/7-8 on Kurduwad - Miraj Section. Agency: N. Yaganti Eshwraiah Rly. Contractor

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr.	Date of	Date of	Sample Identificat	Name of	Name of	Grade of	Com	pressive S	Strength N	N/mm <sup>2</sup>	Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per 1S	(Location) Remark
No.	Casting	Testing	ion No.	Client	Work	Concrete	7 Days	14 Days	21 Days	28 Days	Strengen (romm)	Specification	
	-	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	73 to 75				N.A.	N.A.	N.A.	25.11	200000	puv	11/-11
26	02-12-2022	31-12-2022	73 to 75			M-20	N.A.	N.A.	N.A.	26.09	25.21	1 (21	Wall
25	02-12-2022	31-12-2022	73 to 75				N.A.	N.A.	N.A.	24.44			
-			76 to 78		1 1	1	N.A.	N.A.	N.A.	25.76		ž	Pre Cast
	07 12 2022	05-01-2023	76 to 78	1		M-20	N.A.	N.A.	N.A.	24.32	24.85	8	Road
26	07-12-2022	03-01-2023	76 to 78	1	5		N.A.	N.A.	N.A.	24.46		(3	
				1	iti		N.A.	N.A.	N.A.	25.21		%	
	0121021212121212121	00.01.0000	79 to 81 79 to 81	ł	Se	M-20	N.A.	N.A.	N.A.	24.4	24.64	65	Raft
27	10-12-2022	08-01-2023	79 to 81	1	aj		N.A.	N.A.	N.A.	24.3		E E	
			82 to 84	1			N.A.	N.A.	N.A.	26.78		ssive strength achieved by concrete at 07 days is ab 28 days is about 100% (20 N/mm² and 30 N/mm² ).	
		12-01-2023	82 to 84	1 -	2	M-20	N.A.	N.A.	N.A.	24.66	25.35	s is	Wall
28	14-12-2022	12-01-2023	82 to 84	8	P	A14-0-0-00	N.A.	N.A.	N.A.	24.6		Nay	
			82 to 84 85 to 87	N. Yaganti Eshwraiah Rly. Contractor	Wa		N.A.	N.A.	N.A.	24.36		30	
-	16 10 2022	13-01-2023	85 to 87	Ĩ	p	M-20	N.A.	N.A.	N.A.	24.5	24.42	1 Pa	Wall
29	15-12-2022	13-01-2023	85 to 87	- Ŭ	La la		N.A.	N.A.	N.A.	24.4		2 a	
-			88 to 90	i i	1 ž		N.A.	N.A.	N.A.	24.01		an a	0
30	18-12-2022	16-01-2023	88 to 90	2	50	M-20	N.A.	N.A.	N.A.	24.04	24.08	NIN	Casing
30	10-12-2022	10-01-2025	88 to 90	ah a	Ē.		N.A.	N.A.	N.A.	24.18		20	
-			91 to 93	12	oss		N.A.	N.A.	N.A.	24.03		%	Culture
31	18-12-2022	16-01-2023		N.	C.	M-20	N.A.	N.A.	N.A.	24.44	24.39	00	Casing
21	10-12-2022	10-01-2025	91 to 93	Es -	vel	and a second second	N.A.	N.A.	N.A.	24.7		L Ich	
-			94 to 96		le		N.A.	N.A.	N.A.	25.14		pot	Casing
32	20-12-2022	18-01-2023		an	led	M-20	N.A.	N.A.	N.A.	24.4	24.62	20.00	Casing
32	20-12-2022	10 01 2025	94 to 96	50	au a	20100501	N.A.		N.A.	24.32		ys i	
-			97 to 99		ma		N.A.	N.A.	N.A.	26.43		ve s da	Casing
33	20-12-2022	18-01-2023		Z	of	M-20	N.A.		N.A.	24.3	25.04	28i	Casing
55	20-12-2022	10 01 2020	97 to 99		-		N.A.	N.A.	N.A.	24.4		bre	
-			100 to 10	2	tic		N.A.	and the second sec	N.A.	36.4	26.05	Ho	Road
34	29-12-2022	27-01-2023			Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-30	N.A		N.A.		36.05	0	Road
54	27-12-2022		100 to 10		E		N.A		N.A.	And in case of the local division of the loc		00	
-			103 to 10		E		N.A		N.A.	36.7		6-2	Road
35	29-12-2022	27-01-202				M-30	N.A	the second se		the second s		45	Road
1 33			103 to 10				N.A			and the second se		- IS	
-		-	106 to 10				N.A		the second se	the second se	Contraction of the second s	Der	Dear
36	29-12-2022	27-01-202				M-30	N.A	N.A.	and the second se	the second division in the local division in		As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm²) and 28 per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 100% (20 N/mm² and 30 N/mm² ).	Road
1.00	27-12-2022	1	106 to 10				N.A	. N.A.	N.A	. 36.7	1	4	_

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory. This Report is Valid in 12's ORIGINAL FORM only. (Any correction shall invalidate this report)





Ref. No .:- FTC - COER / Test Report /2022/3185(A) [

Date : 01 / 12/2022

To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Toilet Blockconstruction Building. Date of Sample Received: 1/12/2022. Date of Testing: 1/12/2022.

Contract:Construction on Toilet Block Building for Talathi Office At. -Medshingi Tal. -SangolaDist.-Solapur

The Engineering Properties of the Bricks sample determine from Laboratory Test were present in the Following Table:-

#### 1. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1					37	
2					38	
3	Bricks 35	225X100X75	1/12/2022	22500	37	Bricks 35 Grade
4	Grade	225X100X75	1/12/2022	22500	36	Min. 35 N/mm <sup>2</sup>
5					37.5	
				Average	37.10	

#### 2. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	4.5%	Less than 20% by weight

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:3495 Part-3- 1992
1	Efflorescence of bricks	5.5%	Less than 10% That is Slight
esting In	Sangola Dist Sola	Resarch College	PRINCIPAL a Technical Campus of Engg.& Research Sang, ered/received and tested



To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Toilet Block and Urinaryconstruction Building. Date of Sample Received: 1/12/2022. Date of Testing: 1/12/2022.

Contract:Construction on Toilet Block and Urinary Building for Z.P. School At. -MedshingiTal. -SangolaDist.-Solapur

The Engineering Properties of the Bricks sample determine from Laboratory Test were present in the Following Table:-

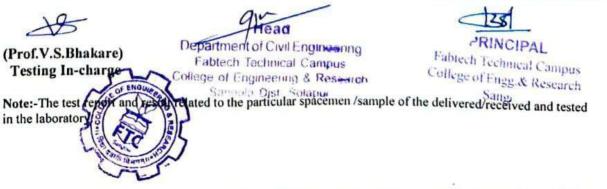
#### 1. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1					37	
2					38.5	
3	Bricks 35	225X100X75	1/12/2022	22500	36	Bricks 35 Grade
4	Grade	2237100773	1/12/2022	22500	38	Min. 35 N/mm <sup>2</sup>
5					37	
				Average	37.30	

#### 2. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	3.5%	Less than 20% by weight

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:3495 Part-3- 1992
1	Efflorescence of bricks	4.5%	Less than 10% That is Slight





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Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad ) ISO 9001 : 2015 Certified Institute

Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Website : www.ftccoe.ac.in Contact No. 8408888657

Date : 01 / 12/2022

## Ref. No .:- FTC/COER | Test Report / 2022/3185.

To, **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Toilet Block construction Building. Date of Sample Received: 1/12/2022. Date of Testing: 1/12/2022. Contract: Construction on Toilet Block Building for Primary Health CenterAt. -Medshingi

Tal. -SangolaDist.-Solapur

The Engineering Properties of the Bricks sample determine from Laboratory Test were present in the Following Table:-

#### 1. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1					38	
2					39	
3	Bricks 35	225X100X75	1/12/2022	22500	37	Bricks 35 Grade
4	Grade	2252100275	1/12/2022	22500	38	Min. 35 N/mm <sup>2</sup>
5					36	
				Average	37.60	

#### 2. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	4.3%	Less than 20% by weight

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:3495 Part-3- 1992
1	Efflorescence of bricks	5.2%	Less than 10% That is Slight

(Prof.V.S.Bhakare) Testing In-charco can a resolution Note:-The test report and resolution in the laboratory.	Head Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangota Dist Solapui red to the particular spacemen /sample of	PRINCIPAL Fabtech Technical Campus College of Engg. & Research the delivered/received and tested	
		•:	



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Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657

Website : www.ftccoe.ac.in

Date : 01 / 12/2022

E-mail : fabtech/a ftccoe.ac.in

## Ref. No .:- Ftc-COER/ Test REPORT /2022/3185(A)

To, **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Toilet Blockconstruction Building. Date of Sample Received: 1/12/2022. Date of Testing: 1/12/2022.

Contract: Construction on Toilet Block Building for Talathi Office At. -Medshingi Tal. -SangolaDist.-Solapur

The Engineering Properties of the Bricks sample determine from Laboratory Test were present in the Following Table:-

#### 1. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1					37	
2	Bricks 35	1			38	Bricks 35
3	Grade	225X100X75	1/12/2022	22500	37	GradeMin. 35 N/mm <sup>2</sup>
		- Ann		Average	37.33	

#### 2. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	4.5%	Less than 20% by weight

#### 1. Bricks (Efflorescence)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:3495 Part-3- 1992
1	Efflorescence of bricks	5.5%	Less than 10% That is Slight

(Prof.V.S.Bhakare) **Testing In-charge** 

ead

Department of Civil Engineering Fablech Technical Campus College of Engineering & Research Sangola Disi Solapur

PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.





Ref. No .:- FTC-COER/Test Report/2022/3185

To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Toilet Block construction Building. Date of Sample Received: 1/12/2022. Date of Testing: 1/12/2022. Contract:Construction on Toilet Block Building for Primary Health CenterAt. –Medshingi Tal. -SangolaDist.-Solapur

The Engineering Properties of the Bricks sample determine from Laboratory Test were present in the Following Table:-

#### 1. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1					38	
2	D				39	Bricks 35
3	Bricks 35 Grade	225X100X75	1/12/2022	22500	37	GradeMin. 35 N/mm <sup>2</sup>
				Average	38	

#### 2. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077-1992
1	Water Absorption	4.3%	Less than 20% by weight

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:3495 Part-3- 1992
1	Efflorescence of bricks	5.2%	Less than 10% That is Slight

Head PRINCIPAL Department of Civil Engineering (Prof.V.S.Bhakare) FABTECH TECHNICAL CAMPUS Fabtech Technical Campus COLLEGE OF ENGINEERING **Testing In-charge** College of Engineering & Research & RESEARCH, SANGOLA Sangola Disi Solapur Note:-The test report and result related to the particular spacemen /sam ed/received and tested in the laboratory.



Ref. No .:- FTC- COER/ Test Report /2022/3185(B)

Date : 0/ / 12/2022

To. **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Toilet Block and Urinaryconstruction Building. Date of Sample Received: 1/12/2022. Date of Testing: 1/12/2022.

Contract: Construction on Toilet Block and UrinaryBuilding for Z.P. School At. -MedshingiTal. -SangolaDist.-Solapur

The Engineering Properties of the Bricks sample determine from Laboratory Test were present in the Following Table:-

#### 1. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1					37 38.5	Bricks 35
2	Bricks 35	225X100X75	1/12/2022	22500	36	GradeMin. 35 N/mm <sup>2</sup>
	Grade			Average		N/Hutt

#### 2. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	IS:1077-1992
1	Water Absorption	3.5%	Less than 20% by weight

#### 1. Bricks (Efflorescence)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:3495 Part-3- 1992
1	Efflorescence of bricks	4.5%	Less than 10% That is Slight

ead

(Prof.V.S.Bhakare) **Testing In-charge** 

Department of Civil Engineering

Fablech Technical Campus College of Engineering & Research Sangola Dist Solapur

PRINCIPAL FARTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

red/received and tested

Note:-The test report and result related to the particular spacemen /sam in the laboratory.



Ref. No .:- FTC- COER/ Test Report/2022/3132(A)

Date :17 / 10/2022\_

To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on sump water Tank. Date of Sample Received: 17/10/2022. Date of Testing: 17/10/2022.

Contract:Construction sump water Tank At. -Itaki Tal. -Sangola Dist.-Solapur

The Engineering Properties of the Concrete cube, Bricks and Steel sample determine from Laboratory Test were present in the Following Table:-

1.	Concrete cube:	:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Arca (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )			
				Construction 7 sump water Tank Itaki			8910	22500	430	19.11			
1	M-30	24/09/2022	30/09/2022		8780	22500	420	18.67	18.81				
	11-50				Contraction of the second s	8650	22500	420	18.67				
									8910	22500	730	32.44	
,	14.20	20/00/2022	17/10/2022	20	Construction	8780	22500	750	33.33	32.96			
1	M-30	20/09/2022	17/10/2022	28	sump water Tank Itaki	8650	22500	745	33.11				

 $N/mm^2 \& 30 N/mm^2$ )

#### 2. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per 18:1077- 1992
1	Bricks 35 Grade	1 2 Deiele 26			37	
2						38.5
3		225X100X75	17/10/2022	22500	36	GradeMin. 35 N/mm <sup>2</sup>
-		Average			37.16	



Ref. No .:- FTC- COER/ Test Report/2022/3132(A)

Date :17 / 10/2022\_

To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on sump water Tank. Date of Sample Received: 17/10/2022. Date of Testing: 17/10/2022.

Contract:Construction sump water Tank At. -Itaki Tal. -Sangola Dist.-Solapur

The Engineering Properties of the Concrete cube, Bricks and Steel sample determine from Laboratory Test were present in the Following Table:-

1.	Concrete cube:	:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Arca (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )			
				Construction 7 sump water Tank Itaki			8910	22500	430	19.11			
1	M-30	24/09/2022	30/09/2022		8780	22500	420	18.67	18.81				
	11-50				Contraction of the second s	8650	22500	420	18.67				
									8910	22500	730	32.44	
,	14.20	20/00/2022	17/10/2022	20	Construction	8780	22500	750	33.33	32.96			
1	M-30	20/09/2022	17/10/2022	28	sump water Tank Itaki	8650	22500	745	33.11				

 $N/mm^2 \& 30 N/mm^2$ )

#### 2. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per 18:1077- 1992
1	Bricks 35 Grade	1 2 Deiele 26			37	
2						38.5
3		225X100X75	17/10/2022	22500	36	GradeMin. 35 N/mm <sup>2</sup>
-		Average			37.16	



## Ref. No .:- FTC-COER/ Test Report/2022/3132(A)

Date :17 / 10 /2022\_

#### 3. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	3.5%	Less than 20% by weight

#### 4. Steel Bar (8mm)

Sr.No.	Engineering Properties/Name of Test	Steel Sample Result	Requirement as per IS:432-1-1982
1	Tensile Strength(Ultimate)	585N/mm <sup>2</sup>	540N/mm <sup>2</sup>
2	Elongation	8.7	Up to 20%

#### 5. SteelBar (10mm)

Sr.No.	Engineering Properties/Name of Test	Steel Sample Result	Requirement as per IS:432-1-1982
1	Tensile Strength(Ultimate)	585N/mm <sup>2</sup>	540N/mm <sup>2</sup>
2	Elongation	8.5	Up to 20%

(Prof.V.S.Bhakare) Testing In-charge

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Disl Solapur

ead

PIGINCIPAL CABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH SANGOLA

Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



## Ref. No .:- FTC-COER/ Test Report/2022/3132(A)

Date :17 / 10 /2022\_

#### 3. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	3.5%	Less than 20% by weight

#### 4. Steel Bar (8mm)

Sr.No.	Engineering Properties/Name of Test	Steel Sample Result	Requirement as per IS:432-1-1982
1	Tensile Strength(Ultimate)	585N/mm <sup>2</sup>	540N/mm <sup>2</sup>
2	Elongation	8.7	Up to 20%

#### 5. SteelBar (10mm)

Sr.No.	Engineering Properties/Name of Test	Steel Sample Result	Requirement as per IS:432-1-1982
1	Tensile Strength(Ultimate)	585N/mm <sup>2</sup>	540N/mm <sup>2</sup>
2	Elongation	8.5	Up to 20%

(Prof.V.S.Bhakare) Testing In-charge

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Disl Solapur

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Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



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Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech oftccoe.ac.in

Ref. No .:- FTC-COER/TEst Report/2022/1796(A)

Date : 10 / 02/2022

To. **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Urinary construction Building. Date of Sample Received: 10/02/2022. Date of Testing: 10/02/2022. Contract: Construction Urinary Building At. -Lotewadi Tal. -Sangola Dist.-Solapur The Engineering Properties of the Aggregate and Sand sample determine from Laboratory Test were present in the Following Table:-

#### 1. Sand:

Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
1	Fineness Modulus	2.70	2.6 to 3.6
2	Silt/Clay Content	3.1%	Maximum 4%

#### 2. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992	
1					37		
2	Bricks 35 Grade					38.5	Bricks 35
3		225X100X75	10/02/2022	22500	36	GradeMin. 35 N/mm <sup>2</sup>	
		Average		1	37.16		

#### 3. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per 1S:1077-1992
1	Water Absorption	3.5%	Less than 20% by weight





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Pandharpur Road, Gat No. 565/1, Sangola, Taluka :- Sangola, District :- Solapur - 413307 P.O.Box No.04 Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech oftccoe.ac.in

Ref. No .:- FTC-COER/TEst Report/2022/1796(A)

Date : 10 / 02/2022

To. **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Urinary construction Building. Date of Sample Received: 10/02/2022. Date of Testing: 10/02/2022. Contract: Construction Urinary Building At. -Lotewadi Tal. -Sangola Dist.-Solapur The Engineering Properties of the Aggregate and Sand sample determine from Laboratory Test were present in the Following Table:-

#### 1. Sand:

Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
1	Fineness Modulus	2.70	2.6 to 3.6
2	Silt/Clay Content	3.1%	Maximum 4%

#### 2. Bricks(Compressive Strength)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992	
1					37		
2	Bricks 35 Grade					38.5	Bricks 35
3		225X100X75	10/02/2022	22500	36	GradeMin. 35 N/mm <sup>2</sup>	
		Average		1	37.16		

#### 3. Bricks (Water Absorption)

Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per 1S:1077-1992
1	Water Absorption	3.5%	Less than 20% by weight





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Ref. No .:- FTC/COER/ Test Report/2022/3145 (A)

Website : www.ftccoe.ac.in

Date :30 / 10/2022\_

To. **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Cement Concrete Gutter construction. Date of Sample Received: 30/10/2022. Date of Testing: 30/10/2022 Contract: Construction cements Concrete Gutter At. -Lotewadi Tal. -Sangola Dist.-Solapur The Engineering Properties of the concrete cube, Aggregate and Sand sample determine from Laboratory Test were present in the Following Table:-

#### 1. Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
					Constructio	8910	22500	360	16.00	
1	N 15	02/10/2022	20/10/2020		n cements	8780	22500	375	16.67	16.67
1	M-15	03/10/2022 30/10/20	30/10/2022	28	Gutter At Lotewadi	8650	22500	390	17.33	

chieved by concrete at 28 days is about  $100\%(15N/mm^2)$ 

#### 2. Sand:

Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
1	Fineness Modulus	2.70	2.6 to 3.6
2	Silt/Clay Content	3.2%	Maximum 4%

#### 3. Crushing Metal Aggregate

	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Sieve Analysis( Fineness Modulus)	6.2	5.5 to 8
2	Water Absorption	1%	Less than 2% to 3%

(Prof.V.S.Bhakare) **Testing In-charge** 

lead

Department of Civil Engineening Fabtech Technical Campus College of Engineering & Resea Sangola Dist Solapu

sample of the



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Note:-The test report and result related to the particular spacement in the laboratory.



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Ref. No .:- FTC/COER/ Test Report/2022/3145 (A)

Website : www.ftccoe.ac.in

Date :30 / 10/2022\_

To. **Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Cement Concrete Gutter construction. Date of Sample Received: 30/10/2022. Date of Testing: 30/10/2022 Contract: Construction cements Concrete Gutter At. -Lotewadi Tal. -Sangola Dist.-Solapur The Engineering Properties of the concrete cube, Aggregate and Sand sample determine from Laboratory Test were present in the Following Table:-

#### 1. Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
					Constructio	8910	22500	360	16.00	
1	N 15	02/10/2022	20/10/2020		n cements	8780	22500	375	16.67	16.67
1	M-15	03/10/2022 30/10/20	30/10/2022	28	Gutter At Lotewadi	8650	22500	390	17.33	

chieved by concrete at 28 days is about  $100\%(15N/mm^2)$ 

#### 2. Sand:

Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
1	Fineness Modulus	2.70	2.6 to 3.6
2	Silt/Clay Content	3.2%	Maximum 4%

#### 3. Crushing Metal Aggregate

	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Sieve Analysis( Fineness Modulus)	6.2	5.5 to 8
2	Water Absorption	1%	Less than 2% to 3%

(Prof.V.S.Bhakare) **Testing In-charge** 

lead

Department of Civil Engineening Fabtech Technical Campus College of Engineering & Resea Sangola Dist Solapu

sample of the



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Note:-The test report and result related to the particular spacement in the laboratory.

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Ref. No .:- FTC - COER/ Test Report / 2022/3128 (A) To.

Date : 9/ 10/2022\_

**Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Cement Concrete Cube and Paving Block Date of Sample Received: 09/10/2022. Date of Testing: 09/10/2022 Contract: Providing Paving Block in KamshidhMandir Premises At. -Jawala Tal. -Sangola Dist.-Solapur The Engineering Properties of the concrete cube and Paving Block sample determine from Laboratory

Test were present in the Following Table:-

#### 1. Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
					Kamshidh Mandir	8810	22500	250	11.11	
						8670	22500	275	12.22	11.62
1	M-10	12/09/2022	09/10/2022	28	Concrete work at Jawala	8630	22500	260	11.55	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(10 N/mm<sup>2</sup>)

#### 2. Paving Block (60mm Thickness)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:15658- 2006
1					37	
2	Paving Block			225.00	38.5	
3	Set of 8 Block				36	Grade-1 Min. 35 N/mm <sup>2</sup>
4	(60mm	60	09/10/2022		39	
5	Thickness)	s)			37	
6					36.5	
7					38	
8					37	
		Average			37.37	

#### 3. Paving Block (60mm Thickness)

Sr.No.	Engineering Properties/Name of Test	Paving Block Sample Result	Standard Reference as per 1S Specification
1	Water Absorption	AND OF EACH	Maximum 6%
A	410 Flea	d Il Engineering	PRINCIPAL

Note:-The test report and result related to the particular spacenten /sample of the delivered/received and tested in the laboratory.

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Ref. No .:- FTC - COER/ Test Report / 2022/3128 (A) To.

Date : 9/ 10/2022\_

**Executive Engineer** Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on Cement Concrete Cube and Paving Block Date of Sample Received: 09/10/2022. Date of Testing: 09/10/2022 Contract: Providing Paving Block in KamshidhMandir Premises At. -Jawala Tal. -Sangola Dist.-Solapur The Engineering Properties of the concrete cube and Paving Block sample determine from Laboratory

Test were present in the Following Table:-

#### 1. Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
				K	Kamshidh	8810	22500	250	11.11	
					Mandir	8670	22500	275	12.22	11.62
1	M-10	12/09/2022	09/10/2022	28	Concrete work at Jawala	8630	22500	260	11.55	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(10 N/mm<sup>2</sup>)

#### 2. Paving Block (60mm Thickness)

Sr.No.	Material	Sample Size in mm	Date of Testing	C/S Area (mm²)	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:15658- 2006
1					37	
2	Paving Block			225.00	38.5	
3	Set of 8 Block				36	Grade-1 Min. 35 N/mm <sup>2</sup>
4	(60mm	60	09/10/2022		39	
5	Thickness)	s)			37	
6					36.5	
7					38	
8					37	
		Average			37.37	

#### 3. Paving Block (60mm Thickness)

Sr.No.	Engineering Properties/Name of Test	Paving Block Sample Result	Standard Reference as per 1S Specification
1	Water Absorption	AND OF EACH	Maximum 6%
A	410 Flea	d Il Engineering	PRINCIPAL

Note:-The test report and result related to the particular spacenten /sample of the delivered/received and tested in the laboratory.



## Ref. No .:- FTC-COER/ TESt Report/2022/3114(A)

Date :03 / 10 /2022\_

To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on sand and Cement Concrete Cube. Date of Sample Received: 03/10/2022. Date of Testing: 03/10/2022 Contract: Construction internal concrete road in Gavthan at. -Jawala Tal. -Sangola Dist.-Solapur

The Engineering Properties of the sand and concrete cube sample determine from Laboratory Test were present in the Following Table:-

#### 1. Sand:

Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
1	Fineness Modulus	2.70	2.6 to 3.6
2	Silt/Clay Content		2.0 10 3.0
~	onveray content	3.2%	Maximum 4%

#### 2. Crushing Metal Aggregate

Sr.No.	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Sieve Analysis( Fineness Modulus)	6.2	5.5 to 8
2	Water Absorption	1%	Less than 2% to 3%
3	Specific Gravity	2.7	2.5 to 3.0
4	Crushing Value	8.5%	Maximum 30%

#### 3. Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm <sup>2</sup> )
						8910	22500	360	16.00	
1	M-15	06/09/2022	02/10/0000		Concrete	8780	22500	375	16.67	16.67
		00/09/2022	03/10/2022	28	work at Jawala	8650	22500	390	17.33	1

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days R about 100%(15 N/mm²)

(Prof.V.S.Bhakare) Testing In-charge

ead

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapue PRINCIPAL PRINCIPAL Fablech Technical Campus College of Engg.& Research Sange

Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



## Ref. No .:- FTC-COER/ TESt Report/2022/3114(A)

Date :03 / 10 /2022\_

To, Executive Engineer Div.No.1 ZillaParishad Solapur, Dist-Solapur

Subject: Test Report on sand and Cement Concrete Cube. Date of Sample Received: 03/10/2022. Date of Testing: 03/10/2022 Contract: Construction internal concrete road in Gavthan at. -Jawala Tal. -Sangola Dist.-Solapur

The Engineering Properties of the sand and concrete cube sample determine from Laboratory Test were present in the Following Table:-

#### 1. Sand:

Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
1	Fineness Modulus	2.70	2.6 to 3.6
2	Silt/Clay Content		2.0 10 3.0
~	onveray content	3.2%	Maximum 4%

#### 2. Crushing Metal Aggregate

Sr.No.	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Sieve Analysis( Fineness Modulus)	6.2	5.5 to 8
2	Water Absorption	1%	Less than 2% to 3%
3	Specific Gravity	2.7	2.5 to 3.0
4	Crushing Value	8.5%	Maximum 30%

#### 3. Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	Wt. of Cube (gm)	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm <sup>2</sup> )
						8910	22500	360	16.00	
1	M-15	06/09/2022	02/10/0000		Concrete	8780	22500	375	16.67	16.67
		00/09/2022	03/10/2022	28	work at Jawala	8650	22500	390	17.33	1

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days R about 100%(15 N/mm²)

(Prof.V.S.Bhakare) Testing In-charge

ead

Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research Sangola Dist Solapue PRINCIPAL PRINCIPAL Fablech Technical Campus College of Engg.& Research Sange

Note:-The test report and result related to the particular spacemen /sample of the delivered/received and tested in the laboratory.



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Ref.No .- FTC - COER/Test Report / 2023/25

Date :29 / 09/2023

To, **Executive Engineer** Div.No.1 Zilla Parishad Solapur, Dist-Solapur

Subject: Test Report on Metal Aggregate, Fine Aggregate and Concrete cube. Date of Sample Received: 29/09/2023.

Date of Testing: 29/09/2023.

Contract: Construction on Concrete Road Nana Natha Padalkar to Sakhubai Bapu Lavate At. - Lotewadi Tal. Sangola Dist.-Solapur

The Engineering Properties of the Metal Aggregate, Fine Aggregate and Concrete cube sample determine from Laboratory Test were present in the Following Table:-

#### 1

Sand: Sr.No.	Engineering Properties/Name of Test	Sand Sample Result	Standard Reference as per IS Specification
-	The Madeline	2.75	2.6 to 3.6
1	Fineness Modulus	2.5%	Maximum 4%
2	Silt/Clay Content	2.370	Discontinua J.T.

#### 2

Sr.No.	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
		1%	Less than 2% to 3%
1	Water Absorption	2.78	2.5 to 3.0
2	Specific Gravity	7.5%	Maximum 30%
3	Crushing Value	1.370	Triteculture a serve

#### Concrete cube:

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of cube in days	Component of work	WL of Cube (gm)	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>3</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
1.1847	ANADOLAN				Construction	8910	22500	390	17.33	1
1	the Regist	366.86			on Concrete	8780	22500	385	17.11	17.26
	M-15	02/09/2023	29/09/2023	28	Road At Lotewadi	8650	22500	390	17.33	
	TAT- 1.2	1345 (800) (19.02)			ed by concre	te at 28	days is a	bout 100%	(15 N/mm <sup>2</sup> )	

S.ml

## As per IS:456-2000 Compressive Strength achieved by con-

Head Department of Civil Engineering Fabtech Technical Campus College of Engineering & Research

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(Prof.V.S.Bhakare) Sangola Dist Solapur Note:-The test report and result related to the particular spacemen /sample of the this received and tested in the laboratory-

640

# 2020-21

COLLEGE OF ENGINEERING & RESERCH SANGOLA (20-21)

Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

# Consultancy / Testing Charges Ledger Account

1-Apr-20 to 31-Mar-21

						Page 1
Date	1	Particulars	Vch Type	Vch No.	Debit	Credit
3-Jul-20	Dr	Grampanchayat Kamalapur	Journal	31		4,872.88
	Dr	Grampanchayat Diksal	Journal	32		4,872.90
6-Jul-20	Dr	Grampanchayat Hangirge	Journal	33		4,872.90
	Dr	Grampanchayat Hangirge	Journal	35		4,872.90
15-Sep-20	Dr	<b>Grampanchayat Devale</b>	Journal	74		1,300.00
	Dr	Grampanchayat Devale	Journal	75		1,950.00
3-Nov-20	Dr	Dr. Kelkar Hospital	Journal	99		1,950.00
20-Nov-20	Dr	Grampanchayat Bagalwadi	Journal	110		2,600.00
10-Feb-21	Dr	M/s Dattaji Suresh Gaikwad	Journal	286		2,600.00
12-Feb-21	Dr	Grampanchayat Save	Journal	289		1,900.00
25-Mar-21	Dr	Grampanchayat Waki-Gherdi	Journal	313		550.00
	Dr	M/s. Pushpak Construction Pvt. Ltd. Mumbai	Journal	314		1,100.00
						33,441.58
Cr		Closing Balance			33,441.58	
					33,441.58	33,441.58



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Ref. No.:- FTC/ COEP/Test Report/2021/1394 (A)

DATE: 25/ 03/2021

To, Assistant Manager (Contract) Civil/RVNL Kurduwadi, Dist. Solapur- 413208

Subject: Test Report of Concrete Cube. Date of Sample Received: 24/03/2021 Date of Testing: 24/03/2021 Contract: Cocrete work of New FOB Foundation and Column at Kurduwadi Railway Station. Description of Cube: F-1 I<sup>st</sup> Lift Column/08-03-2021.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Grade of	crete Cubes: Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
			· .	The second	Construction	22500	490	21.78	
1	C.C.M-	08/03/2021	24/03/2021	16	ofFOB	22500	485	21.56	21.26
	25		"Renning	Days	Work	22500	460	20.44	

Metkari) **Testing** In-charge



Principal PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING

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Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory.

Page 1 of 1

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Ref. No.:- FTC/COER/Test Report/ 2021 1394 (B) DATE:- 25/03/2021

To, Assistant Manager (Contract) Civil/RVNL Kurduwadi, Dist. Solapur- 413208

Subject: Test Report of Concrete Cube. Date of Sample Received: 24/03/2021 Date of Testing: 24/03/2021 Contract: Cocrete work of New FOB Foundation and Column at Kurduwadi Railway Station. Description of Cube: F-2, F-4 Footing Raft Concrete /11-03-2021.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Grade of Concrete Mortar	Date 01	Date of Testing	Age_ of Cube in Days	Component of Work	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
			8 N	10	Construction	22500	470	20.90	
1	C.C.M-	11/03/2021	24/03/2021	13	of FOB	22500	455	20.22	20.07
1	25	11,00,2001		Days	Work	22500	/ 430	19.11	

fof. A. A. Metkari) **Testing In-charge** 



Principal PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory.

Page 1 of 1



Ref. No .:- FTC/LOER/Test Report/2021/1394

DATE: 25/03/2021

To, Sub Engineer Sub-Division Sangola, Zilla Parishad (Cont.), Sangola. Dist. Solapur- 413307

6/3

Subject: Test Report of Murum (WBM Road). Date of Sample Received: 15/03/2021 Date of Testing: 16/03/2021 Contract: Repairing Road work of Murum Road (WBM Road) Location Z. P. Primary School to Dashrath Khandekar House Road at Waki Gherdi Tal.- Sangola Dist.- Solapur.

The Engineering Properties of the Murum Sample Determined from Laboratory Tests were Presented in the Following Table:-

1. Murum (Sieve analysis of 10 mm particle size):

Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per IS Specification
1	Fineness Modulus	7.35	5.5 to 8.0

(Prof. A. A. Metkari) **Testing In-charge** 



Principal PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH, SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory.

Page 1 of 1



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Ref.No .:- FTC 1/2021/1334

DATE: 12 /02/2021

To, Sub Engineer Sub-Division Sangola, Zilla Parishad, Sangola. Dist. Solapur- 413307

Subject: Test Report of Rubble and Concrete Cube. Date of Sample Received: 05/02/2021 Date of Testing: 08/02/2021 Contract: Z. P. School new stage construction at Save Tal.- Sangola Dist.- Solapur.

The Engineering Properties of the Stone Rubble Sample Determined from Laboratory Tests were Presented in the Following Table:-

#### 1. Stone/Rubble:

(Crushing Value/Compressive Strength of 15 to 20 mm Aggregate particle size)

Sr. No.	Engineering Properties/Name of Test	Stone Rubble Sample Result	Standard References as per IS:383 Specification
1	Specific Gravity	2.65	
2	Water Absorption	1.60	Maximum 5%
3	Impact Value/Crushing Value (%)	22.70	Maximum 45%



A. A. Metkari)

Testing In-charge

HEAD DepartCivilDEnggEDopering Fablech Technical Campus College of Engineering & Research Sandola Dist Solapur

FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINEERING & RESEARCH SANGOLA

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory.

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Ref. No .:- FTC-COER/Test Report/2021/1328(A)

DATE: 05 / 02/2021

To, Sub-Division Engineer Sangola Branch Canal Project, Sub. Div. No.2 Sangola. Dist. Solapur- 413307

Subject: Test Report of Concrete Cube. Date of Sample Received: 04/02/2021 Contract: Construction of HPC @ 81/190 of Sangola Branch Canal Tal.- Sangola Dist.-Solapur.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

	1. Con	crete Cubes:		Age			Load	Compressive	Average
	Grade of Concrete Mortar		Date of Testing	of Cube in	Component of Work	C/S Area (mm <sup>2</sup> )	Taken by Cube in KN	Strength (N/mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )
5	101010		and the second	Days	Construction	22500	370	16.44	
	1. 2017 - 2. 2.			K 1 1 23 1	of HPC of	22500	380	16.90	16.67
	C.C.M- 15	22/12/2020	05/02/2021		Branch Canal Work	22500	375	16.67	

Note: - The test report and result related to the fortigutar specific the sample(s) of the material standing college of Engineering College of the material standing college of Engineering College of the material standing college standin



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Seport/2021/1328(B) Ref.No .:- F7C-

DATE:- 05 /02 /2021

To, Sub-Division Engineer Sangola Branch Canal Project, Sub. Div. No.2 Sangola. Dist. Solapur- 413307

Subject: Test Report of Concrete Cube. Date of Sample Received: 04/02/2021 Date of Testing: 05/02/2021 Contract: Construction of HPC @ 81/190 of Sangola Branch Canal Tal.- Sangola Dist.-Solapur.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Grade of Concrete Mortar	I DALE UI	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
19. 2	A STATISTICS	La Market Contraction	AREAS AND		Construction	22500	385	17.11	
1.1	COM			28	of HPC of	22500	360	16.00	16.60
1	C.C.M- 15	25/12/2020	05/02/2021	Days	Branch Canal Work	22500	375	16.67	10.00

Note: - The test report and result related to the particular speciments and lested in the laboratory. Department from early content for an early content of the material as/delivered/received content of the material as/delivered/receivered/receivered/receivered/receivered/receivered/receivered/rec COLLEGE OF ENGINEEKING

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Ref. No .:- FTC-COER/ Test Report/2021/1328(C)

DATE: 05 /02/2021

To. Sub-Division Engineer Sangola Branch Canal Project, Sub. Div. No.2 Sangola. Dist. Solapur- 413307

Subject: Test Report of Concrete Cube. Date of Sample Received: 04/02/2021 Date of Testing: 05/02/2021 Contract: Construction of HPC @ 81/190 of Sangola Branch Canal Tal.- Sangola Dist.-Solapur.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Grade of Concrete Mortar	Date of	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
12.010			And the second	1963.247	Construction	22500	365	16.22	
	C.C.M-	un der lite		28	of HPC of	22500	375	16.67	16.44
1	15	19/12/2020	05/02/2021	Days	Branch Canal Work	22500	370	16.44	16.44



**Testing In-charge** 



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Ref. No .:- FTC-COER/ Test Report/2021/1328(D)

DATE:- 05 /02/2027

To, Sub-Division Engineer Sangola Branch Canal Project, Sub. Div. No.2 Sangola. Dist. Solapur- 413307

Subject: Test Report of Concrete Cube. Date of Sample Received: 04/02/2021 Date of Testing: 05/02/2021 Contract: Construction of HPC @ 81/190 of Sangola Branch Canal Tal.- Sangola Dist.-Solapur.

The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
1	The Case of the State of the				Construction	22500	360	16.00	
	C.C.M-		00/00/2021	28	of HPC of	22500	365	16.22	16.22
1	15	20/12/2020	05/02/2021	Days	Branch Canal Work	22500	370	16.44	10.22

A. Metkari) Testing In-charge

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CivilEngingering Note: - The test report and result related to the natribular specific engineering and tested in the laboratory. Dopation of the material as delivered received - Fablech Engineering Solaput College of Engineering Solaput

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Ref. No .:- FTC/ COER/Testing Reporta/2020/1136(C) DATE 24/03/2020

To, Sub Engineer Sub-Division Sangola, Zilla Parishad, Sangola. Dist. Solapur- 413307

Subject: Test Report of Sand, Concrete Cubes and Metal Aggregate. Date of Sample Received: 21/03/2020 Date of Testing: 22/03/2020 Contract: Dalit Wasti Concrete Road Work at Hangirge Wasti.

The Engineering Properties of the Sand Sample Determined from Laboratory Tests were Presented in the Following Table:-

1. Sand: Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per IS Specification
1	Fineness Modulus	2.75	2.6 to 3.6
2	Silt/Clay Content	2.15%	Maximum 4%

#### 2. Concrete Cubes:

Se. No.	Grade of Concrete	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
			1	20	0	22500	360	16.00	
	M-15	22/02/2020	22/03/2020	28	Concrete	22500	365	16.22	16.22
	141-13	220212020		Days	ys Road Work	22500	370	16.44	

#### 3. Metal Aggregate:

Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per 18 Specification
1	Specific Gravity	2.65	
2	Water Absorption	1.50	Maximum 5%
3	Impact Value/Crushing Value (%)	18.70	Maximum 45%

A. Metkari)

Testing In-charge

Job Civil

Principal

Note: - The test report and result related to the particular or chuen/sample(s) of the material as help the help thelp the help thelp the help the help the

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 NAAC Accrediated 'B' Grade ISO 9001 : 2015 Certified Institute
 Pandharpur Road, Gat No. 565/1, Sangola, Talukov- Sangola, District.- Soliput. - 413 307. P.O. Box No. 04 Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail: ftc.coer@gmail.com

Ref. No .:- FTC COEP | testing Reports 2020/1136(D) DATE: 24/03/2020

Sub-Engineer Sub-Division Sangola, Zilla Parishad, Sangola. Dist. Solapur- 413307

Subject: Test Report of Sand, Concrete Cubes and AAC Paving Blocks .Date of Sample Received: 20/03/2020 Date of Testing: 21/03/2020 Contract: Paving Block Work at Hangirge Wasti.

The Engineering Properties of the Sand Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per IS Specification
1	Fineness Modulus	2.85	2.6 to 3.6
2	Silt/Clay Content	2.35%	Maximum 4%

#### 2. Concrete Cubes:

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Grade of Concrete	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm²)	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
15				20		22500	368	16.35	
1	M-15	22/03/2020	21/03/2020	28	Paving	22500	371	16.49	16.48
	1 11-13	-15 220512020 2		Days	Block Work	22500	374	16.62	

#### 3. Paving Block

Sr. No.	Sample Size in mm	Date of Testing	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS: 2185 P-3
1	60	21/03/2020	· 4.15	Grade-1 Min. 4,0 N/mm <sup>2</sup>

A. Metkari) Testing In-charge

FIOD Civil

Principal

Note: - The test report and result related to the particular specimen/sample(s) of the material as deix represented and tested in the laboratory.

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Ref. Np.:- <u>FTC/COEP/Testing</u> Reports 2020/1136 (B) DATE:- 24/03/2020

Sub Engineer () Sub-Division Sangola, Zilla Parishad, Sangola. Dist. Solapur- 413307

Subject: Test Report of Sand, Concrete Cubes and AAC Paving Blocks.

Date of Sample Received: 20/03/2020

Date of Testing: 21/03/2020

Contract: Paving Block Work at Diksal.

The Engineering Properties of the Sand Sample Determined from Laboratory Tests were Presented in the Following Table:-

#### 1. Sand:

Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per IS Specification
1	Fineness Modulus	2.90	2.6 to 3.6
2	Silt/Clay Content	2.30%	Maximum 4%

#### 2. Concrete Cubes:

Sr. No.		and the second se	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Averag Compress Strengt (N/mm
1	M-15	22/02/2020	21/02/2020	28	Paving	22500	355	15.77	
	M-15	22/03/2020	21/03/2020	Days	Block Work	22500	360	16.00	16.14
		+			Dioek Work	22500	375	16.66	

#### 3. AAC Paving Block

Sr. No.	Sample Size in mm	Date of Testing	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS: 2185 P-3
1	60	21/03/2020	4.10	Grade-I Min. 4.0 N/mm <sup>2</sup>

(Prof. A. A. Metkari) Testing In-charge

Principal

Note: - The test report and result related to the particular and tested in the laboratory.



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Ref. No.:- FTC/COEI2/Testing Reports) 2020/1136 (A) DATE	:-24/03/2	2020
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Sub Engineer Sub-Division Sangola, Zilla Parishad, Sangola. Dist. Solapur- 413307

Subject: Test Report of Sand, Concrete Cubes and Metal Aggregate. Date of Sample Received: 21/03/2020 Date of Testing: 22/03/2020

Contract: Near Navale College Dalit Wasti Concrete Road Work at Kamlapur

The Engineering Properties of the Sand Sample Determined from Laboratory Tests were Presented in the Following Table:-

1. Sand: Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per IS Specification
1	Fineness Modulus	2.95	2.6 to 3.6
1		2.20%	Maximum 4%
2	Silt/Clay Content	2.2070	With Million 170

#### 2. Concrete Cubes:

Sr. No.	Grade of Concrete		Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Avera Compres Streng (N/mn
						22500	360	16.00	
1	M-15	22/02/2020	22/03/2020	_28	Concrete	22500	365	16.22	16.22
1	141-13	22/02/2020	22,007,2020	Days	Road Work	22500	370	16.44	

#### 3. Metal Aggregate:

Sr. No.	Engineering Properties/Name of Test	Sand Sample Result	Standard References as per IS Specification
1	Specific Gravity	2.75	
2	Water Absorption	1.40	Maximum 5%
3	Impact Value/Crushing Value (%)	17.70	Maximum 45%

A. Metkari) **Testing In-charge** 

HOD Civil

Note: - The test report and result related to the particular specimen/sample(s) of the material as delivered received pus and tested in the laboratory.



# 2019-20

## COLLEGE OF ENGINEERING & RESERCH SANGOLA (19-20)

Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

#### **Consultancy / Testing Charges**

Ledger Account

1-Apr-19 to 1-Apr-20

Date	F	Particulars	Vch Type	Vch No.	Debit	Credit
15-May-19	Dr	M/s. Siddhanath Construction	Journal	73		3,000.00
9/76 (919973 <b>*</b> 5 - 7639)	Dr	P R PATIL	Journal	74		30,000.00
7-Jun-19	Dr	<b>Gulmire Dilip Vasantrav</b>	Journal	107		5,693.00
15-Jun-19	Dr	Shivshakti Construction Company	Journal	115		26,400.00
1-Jul-19	Dr	Jyotibaraje Construction & Earth Movers	Journal	136		6,600.00
23-Jul-19	Cr	BOI A/C NO 074920110000560	Bank Payment	186	28,954.00	
31-Jul-19	Dr	M/s. Siddhanath Construction	Journal	224		3,000.00
19-Aug-19	Dr	NATHBABA CONSTRUCTION	Journal	311		2,000.00
	Dr	Datta Construction	Journal	313		2,000.00
9-Sep-19	Dr	M M Deshmukh	Journal	368		2,119.00
25-Sep-19	Dr	SHANTAPPA NAGAPPA KONAPURE	Journal	410		4,400.00
26-Sep-19	Dr	SHANTAPPA NAGAPPA KONAPURE	Journal	417		3,300.00
21-Nov-19	Dr	NATHBABA CONSTRUCTION	Journal	519		2,000.00
1-Mar-20	Dr	SARPANCH GRAMPANCHAYAT JAWALA	Journal	702		4,237.00
					28,954.00	94,749.00
Cr		Closing Balance			65,795.00	100 00000 100 -20000000
		(T)			94,749.00	94,749.00



PRINCIPAL FABTECH TECHNICAL CAMPUS COLLEGE OF ENGINTEERING & RESEARCH, SANGOLA

# 2018-19

# COLLEGE OF ENGINEERING & RESERCH SANGOLA (18-19) Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

## Consultancy / Testing Charges Ledger Account

#### 1-Apr-18 to 31-Mar-19

					Page 1
		Vch Type	Vch No.	Debit	Credit
Date	Particulars		52	40,161.00	
19-Apr-18	Cr SBI SANGOLA A/C NO 32162953097	Bank Payment	96		4,237.00
1- Jun-18	Dr SARPANCH GRAMPANCHATAT JAWALA	Journal	215	4,108.00	
13-Aug-18	Cr SBI SANGOLA A/C NO 32162953097	Bank Payment	382		21,186.50
28-Aug-18	Dr Vidnvan Mahavidyalaya Sangola	Journal	654		10,010.00
12-Nov-18	Dr GRINFRAPROJECTS LTD	Journal	830		1,500 00
19-Jan-19	Dr Chairman Dhuldev M.S.S Ltd	Journal	831		900.00
	Dr Krushna Construction & Earthmovers	Journal	835		250.00
21-Jan-19	Dr Dipak Deshmukh	Journal	837		4,000.00
	Dr M/s. Siddhanath Construction		845		4,237.00
23-Jan-19	Dr SARPANCH GRAMPANCHAYAT YELAGI	Journal	857		2,550.00 2,000.00
	Dr NATHBABA CONSTRUCTION	Journal	899		3,400.00
	Dr Suryakant Vishnu Khatakale	Journal	907		4,000.00
	Dr Tanaji Mane	Journal	946		2,000.00
	Dr Jagdish Patil	Journal	947		12,712.00
	Dr Dattatray Bandgar Dr Misal Subhash Ramchandra	Journal	959		1,950.00
10 11101 10	the transformed Contine		975	04 742 00	1,000.00
29-Mar-19	00330000140000140000	Bank Payment	621	24,743.00	
31-Mar-19	Cr BOI A/C NO 074920110000560			69,012.00	74,932.50
				5,920.50	
	Cr Closing Balance			74,932.50	74,932.50



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