

### **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: -**

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

# Appendix-I

**2022-23**



**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 non-recurring 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 [dbatu.vc.rpg@dbatu.ac.in](mailto:dbatu.vc.rpg@dbatu.ac.in) 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 allotted Grant
1	Pharmacy	Dr. Sachin Kothawade	sachin.kothawade23@gmail.com	RSM's N.N. Sattha College of Pharmacy, Ahmednagar	Targeted 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 Mohd Siddique	palladiumsalt@gmail.com	Shri Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule	Substrate Based Design and Discovery of Small Molecule CYP1B1 Inhibitors as Anticancer Agents for Hormonal Induced Cancer in Women	315000
5		Dr Vivekkumar K Redasani	vivek.redasani@gmail.com	YSPMs Yashoda Technical Campus, Faculty of Pharmacy, Satara	Design, Synthesis and Pharmacological Evaluation of multiple targeted Anti-Diabetic agents	315000
6		Dr. Rakesh Devidas Amrutkar	rdamrutkar@kkwagh.edu.in	K. K. Wagh College of Pharmacy, Hirabai Haridas Vidyayanagari, Amrutdham, Nashik-03	"Design, Synthesis, Evaluation and Computational Studies of Some Quinazolinone analogues as Potential Anticancer Agents"	315000
7		Dr. N. H. Aloorkar	nhaloorkar@gmail.com	Satara College of Pharmacy, Satara	Modification, Characterization and Evaluation of Natural High Performance Stimuli Sensitive Smart Functional Polymers for Pharmaceutical and Food Industry.	315000
8		Dr. B.S. Wakure & Prof Salunke M.A.	balaji.wakure@vdf.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@gmail.com	Rashtrasant Janardan Swami College of Pharmacy	Design by molecular modeling and Synthesis of PPAR $\gamma$ agonist Derivatives for Antidiabetic Activity	315000
11	Comp/IT	Miss Mulla S. Y	samina.mulla27@gmail.com	Arvind Gavali College of Engineering Satara	Text2Query- An automatic question generation system	65000
12		Ashwini Gavli	ashwini.gavli@cssmssengg.org	Chh.Shahu College of Engineering, Aurangabad	Portable tomato sorter using AI and ML	151190
13		Dr.T.A.Chavan	dblokhande@sswcoe.edu.in	Shree Siddheshwar Women's College of Engineering,Solapur	Machine Learning Approach for detecting Human Disease based on Behavioral Parameters	300000
14	EXTC	Mr. Ganesh Dangat	ganesh.dangat@kbpcoes.edu.in	Karmaveer Bhaurao Patil College of Engineering Satara	Digital Notice Board Control and management System	214000
15		Prof. U. V. Bhagat	jagtapu346@gmail.com	FTC College of Engineering & Research Sangola	MIMO antenna in 5G Wireless Communications.	300000
16		Dr.G.A.Kulkarni	girish227252@gmail.com	Shri Sant Gadge Baba College of Engineering and Technology, Bhusawal	Automated System for Aerial Reforestation	300000
17		Dr. Shrikant Jahagirdar	shrikantjahagirdar@orchidengg.ac.in	NK Orchid College of Engg. & Tech., Solapur	Design and Development of dead body cremation chamber using Biomass Briquettees	300000

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

18	Civil	Dr. G. R. Gandhe	saurabhnrkhe@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	sbodekar@dbatu .ac.in	Dr. Babasaheb Ambedkar Technological University Lonere	Analysis of Tulsi (Ocimum Basilicum) Leaves	300000
21	Mechanical	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		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		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		Electrical	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.
31	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		bmnyak.agce@g mail.com	Arvind Gavali College of Engineering Satara	Pyro-cycling: Electricity generation by plastic and dry qarbage 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	Interdisciplinary	Mr. Ravindra C. Gahane	ravigahane@gmai l.com	Nutan College of Engineering and Research.	Optimizing Pesticide Application in Agriculture.	300000
35		Dr. Sanjay Khobragade	svk2305@gmail.c om	Dr. Babasaheb Ambedkar Technological University Lonere	Green Infrastructure and Connectivity to Remote Habitations for Tribal Community	300000

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

Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

**Consultancy / Testing Charges**

Ledger Account

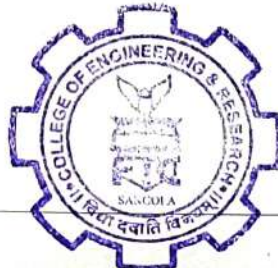
1-Apr-22 to 31-Mar-23

Page 1

Date	Particulars	Vch Type	Vch No.	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
	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	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 Grampanchayat 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	261		690.00
30-Nov-22	Dr Datta Construction	Journal	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	328		6,585.00
1-Feb-23	Dr Grampanchayat Kole	Journal	335		690.00

Carried Over

3,89,099.00



continued ...



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

Consultancy / Testing Charges Ledger Account : 1-Apr-22 to 31-Mar-23

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward				3,89,099.00
1-Feb-23	Dr Mahalaxmi Constuction	Journal	336		20,010.00
7-Feb-23	Dr Grampanchayat Kole	Journal	342		1,806.00
	Dr M/s Sadashiv Construction	Journal	343		690.00
9-Feb-23	Dr M/S Siddhnath Construction	Journal	345		7,500.00
	Dr M/S Siddhnath Construction	Journal	346		18,855.00
11-Feb-23	Dr Belgoanker Brothers	Journal	347		1,380.00
	Dr M/S Siddhnath Construction	Journal	348		34,200.00
15-Feb-23	Dr M/s Devidas Malhari Devakate	Journal	352		2,760.00
17-Feb-23	Cr BOI A/C NO 074920110000560	Bank Payment	691	1,79,561.00	
	Cr BOI A/C NO 074920110000560	Bank Payment	692	7,806.00	
28-Feb-23	Dr Grampanchayat Diksal	Journal	361		5,895.00
4-Mar-23	Dr M/S Siddhnath Construction	Journal	366		2,500.00
10-Mar-23	Dr M/s Sarpanch Tirangewadi	Journal	368		1,380.00
13-Mar-23	Dr 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		423.00
16-Mar-23	Dr Yuvraj Sharad Kamble	Journal	379		1,965.00
28-Mar-23	Dr M/s Grampanchayat Chinhole	Journal	383		690.00
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
				1,87,367.00	8,96,164.00
Cr	Closing Balance			7,08,797.00	
				<b>8,96,164.00</b>	<b>8,96,164.00</b>



*[Signature]*  
**PRINCIPAL**  
 FABTECH TECHNICAL CAMPUS  
 COLLEGE OF ENGINEERING  
 & RESEARCH, SANGOLA



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# 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. 840888657 Website : [www.ftccoe.ac.in](http://www.ftccoe.ac.in) E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.ac.in)

Ref.No.: - *FTC-COER/TEST Report/2023/3149(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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	04-01-2023	12-01-2023	1 to 3	Belgoanker Brothers Group Ready Mix Concrete	Mr. Ingale, Magar Site at. Pandharpur	M-20	14.5	N.A.	N.A.	N.A.	14.17	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (16.25 N/mm <sup>2</sup> ) and concrete at 28 days is about 100% (20 N/mm <sup>2</sup> )	Magar Site
		1 to 3	13.9				N.A.	N.A.	N.A.				
		1 to 3	14.1				N.A.	N.A.	N.A.				
2	04-01-2023	02-02-2023	4 to 6			M-20	N.A.	N.A.	N.A.	21.25	21.67		
			4 to 6				N.A.	N.A.	N.A.	21.65			
			4 to 6				N.A.	N.A.	N.A.	22.1			

*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. This Report is Valid in It's ORIGINAL FORM only. (Any correction shall invalidate this report)





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Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.-Raigad]  
NAAC Accredited '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.: 840888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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

Date:- 30 / 04 /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 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	12 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	4/13/2022	4/25/2022	1 to 3		Concrete Work	M-25	N.A.	22.05	N.A.	N.A.	21.97		
			1 to 3				N.A.	21.75	N.A.	N.A.			
			1 to 3				N.A.	22.1	N.A.	N.A.			

As per IS:456-2000 Compressive strength achieved by concrete at 12 days is about 85% (21.25 N/mm<sup>2</sup>)

  
Testing 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

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

Ref.No.:- *FTC-COER / Test Report / 2023 / 3158(D)*

Date : *11 / 02 / 2023*

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



*[Signature]*  
Testing In-charge

*[Signature]*  
Head  
Department of Civil Engineering  
Fabtech Technical Campus  
College of Engineering & Research  
Sangola Dist Solapur

*[Signature]*  
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.





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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](http://www.ftccoe.ac.in) E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.ac.in)

Ref.No.:- FTC - OER / Test Report / 2023 / 8156 (C)

Date : 11 / 02 / 2023

## TEST REPORT

- 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:-

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

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	<b>Total</b>	<b>5.0</b>		<b>729.64</b>		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 729.64/100 = 7.30

Coarse Aggregate Belongs to zone III Type of Aggregate: Angular Aggregate

  
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E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.ac.in)

Ref.No.:- *FTC - COER / Test Report / 2023 / 3158 (B)*

Date : *11 / 02 / 2023*

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 soil and soft black cotton soil strata	4.0	150

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**Contact No. 8408888657****Website : www.ftccoe.ac.in****E-mail : fabtech@ftccoe.ac.in**Ref.No.:- *FTC - COER / Test Report / 2023 / 3268(B)*Date : *10 / 07 / 2023*

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering &amp; 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	23/02/2023	3/3/2023	1 to 3	Shri. Datta Construction at Methavde.	Providing Water Supply Scheme at Balwadi ESR 44000 Tal. - Sangola Dist. - Solapur.	M-30	21.5	N.A.	N.A.	N.A.	21.72	As per IS:456-2000 Compressive strength achieved by concrete at 07 days and 28 days is about 65% (20 N/mm <sup>2</sup> ) and 100% (30 N/mm <sup>2</sup> )	First Brace and Bottom Slab
1 to 3	21.75	N.A.	N.A.				N.A.						
1 to 3	21.9	N.A.	N.A.				N.A.						
2	8/6/2023	10/7/2023	4 to 6			M-30	N.A.	N.A.	N.A.	32.05	31.75		
			4 to 6				N.A.	N.A.	N.A.	31.75			
			4 to 6				N.A.	N.A.	N.A.	31.45			



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Ref.No.:- *FTC - COER / Test Report / 2023 / 3268 (A)*

Date : *10 / 07 / 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, 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	23/02/2023	3/3/2023	1 to 3	Shri. Datta Construction at Methavde.	Providing Water Supply Scheme at Balwadi ESR 44000 Tal. - Sangola Dist. - Solapur.	M-30	21.75	N.A.	N.A.	N.A.	21.37	As per IS:456-2000 Compressive strength achieved by concrete at 07 days and 28 days is about 65% (20 N/mm <sup>2</sup> ) and 100% (30 N/mm <sup>2</sup> )	First Brace and Bottom Slab
			1 to 3				21.25	N.A.	N.A.	N.A.			
			1 to 3				21.1	N.A.	N.A.	N.A.			
2	8/6/2023	10/7/2023	4 to 6			M-30	N.A.	N.A.	N.A.	31.75	31.68		
			4 to 6				N.A.	N.A.	N.A.	31.2			
			4 to 6				N.A.	N.A.	N.A.	32.1			



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Ref.No.:- FTC - COER / Test Report / 2023 / 3186 (A)

Date : 12/05/2023

TEST REPORT


- Name & Address of Customer:** Grampanchayat Hatid Tal.-Sangola Dist.- Solapur.
- Client's Reference:** As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision. Sangola. (Dtd. 12/05/2023)
- Contract:** Construction of Compound Wall of Zilla Parishad Primary School at Hatid Tal.-Sangola Dist.- Solapur.
- Sample i) Description:** Brick
  - Quantity:** Set of 5 Brick
  - Date of Receipt:** 12/05/2023
- Date of Testing/Casting:** 12/05/2023
- 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 (Rev.-5)
1	Compressive Strength of Bricks	IS 3495-1992 (Part-1)	7.1 N/mm <sup>2</sup>	6.74 N/mm <sup>2</sup>	Class Designation 5.0
			6.9N/mm <sup>2</sup>		
			6.8N/mm <sup>2</sup>		
			6.5N/mm <sup>2</sup>		
			6.4N/mm <sup>2</sup>		
2	Water Absorption of Bricks	IS 3495-1992 (Part-2)	18.50%	17.22 %	Not more than 20%
			17.10%		
			16.65%		
			17.30%		
			16.58%		
3	Efflorescence of Bricks	IS 3495-1992 (Part-3)	Moderate	---	Up to 12.5 Class

  
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Ref.No.:- *FTC-COER/Test Report/2023/3186(B)*

Date : *12/05/2023*

## TEST REPORT

- 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	<b>Total</b>	<b>1000</b>		<b>264</b>		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 264/100 = **2.64**

Fine 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	3.80	Max. 5%

  
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Ref.No.:- *FTC-COER/Test Report/2023/3264 (A)*

Date : *08/07/2023*

## TEST REPORT

- Name & Address of Customer:** Grampanchayat Hatid Tal.- Sangola Dist.- Solapur.
- Client's Reference:** As per the application from Sub Divisional Engineer, Z. P. (Works) Subdivision. Sangola. (Dtd. 08/07/2023)
- Contract:** Construction of Concrete Road from Ram Mandir to Bajar Patanganat Hatid Tal.- Sangola Dist.- Solapur.
- Sample**
  - Description:** Fineness Modulus and Silt/Clay content of Fine Aggregate.
  - Quantity:** 5 kg (Loose Sample)
  - Date of Receipt:** 08/07/2023
- 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	<b>Total</b>	<b>1000</b>		<b>264</b>		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 264/100 = **2.64**

Fine 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	3.95	Max. 5%

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Ref.No.:- *FTC - COER / Test Report / 2023 / 3264 (B)*

Date : *08/07/2023*

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



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Ref.No.:- *FTC-COER / Test Report / 2023 / 3282(B)*

Date : *20/07/2023*

## TEST REPORT

- 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 (Rev.-5)
1	Compressive Strength of Bricks	IS 3495-1992 (Part-1)	7.1 N/mm <sup>2</sup>	6.74 N/mm <sup>2</sup>	Class Designation 5.0
			6.9N/mm <sup>2</sup>		
			6.8N/mm <sup>2</sup>		
			6.5N/mm <sup>2</sup>		
			6.4N/mm <sup>2</sup>		
2	Water Absorption of Bricks	IS 3495-1992 (Part-2)	18.50%	17.22 %	Not more than 20%
			17.10%		
			16.65%		
			17.30%		
			16.58%		
3	Efflorescence of Bricks	IS 3495-1992 (Part-3)	Moderate	---	Up to 12.5 Class

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Ref.No.:- *FTC-COER / Test Report / 2023 / 3282(A)* Date : *20/07/2023*

## TEST REPORT

- 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:-

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	<b>Total</b>	<b>1000</b>		<b>264</b>		

Fineness Modulus = Cumulative Percentage weight retained / 100 = 264/100 = 2.64

Fine 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%



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 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/2023/3278(A)*

Date : *18/07/2023*

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 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 Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	7/10/2023	7/18/2023	1 to 3	Grampanchayat Hatid	Construction of Concrete Road	M-10	7.5	N.A.	N.A.	N.A.	7.45	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (6.5 N/mm <sup>2</sup> )	From Ram Mandir to Bajar Patangan at Hatid
			1 to 3				7.8	N.A.	N.A.	N.A.			
			1 to 3				7.05	N.A.	N.A.	N.A.			



*Atkars*  
 Testing In-charge

*Head*  
 Head

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

*1381*

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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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Contact No. 8408888657

Website : www.ftccoe.ac.in

E-mail : fabtech@ftccoe.ac.in

Ref.No.:- FTC-COER/Test Report/2023/3209(A)

Date : 23/05/2023

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering &amp; 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 Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	15/05/2023	23/05/2023	1 to 3	Grampanchayat Hatid	Construction of Compound Wall	M-20	14.5	N.A.	N.A.	N.A.	14.28	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13 N/mm <sup>2</sup> )	Zilla Parishad Primary School at Hatid
			1 to 3				14.25	N.A.	N.A.	N.A.			
			1 to 3				14.1	N.A.	N.A.	N.A.			



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*[Signature]*

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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 Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjeagaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark																
							7 Days	14 Days	21 Days	28 Days																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14																
1	24-01-2023	22-02-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Footing	M-25	N.A.	N.A.	N.A.	26.95	27.07	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200																
			1 to 3				N.A.	N.A.	N.A.	27.15																			
			1 to 3				N.A.	N.A.	N.A.	27.1																			
2	24-01-2023	22-02-2023	4 to 6			M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Footing	M-25	N.A.	N.A.	N.A.			27.45	27.37	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200												
			4 to 6						N.A.	N.A.	N.A.			27.05															
			4 to 6						N.A.	N.A.	N.A.			27.6															
3	24-01-2023	22-02-2023	7 to 9					M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Footing	M-25	N.A.			N.A.	N.A.			27.5	27.78	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200								
			7 to 9								N.A.			N.A.	N.A.			28											
			7 to 9								N.A.			N.A.	N.A.			27.85											
4	24-01-2023	22-02-2023	10 to 12							M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Footing			M-25	N.A.			N.A.	N.A.			26.45	27.35	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200				
			10 to 12												N.A.			N.A.	N.A.			28.25							
			10 to 12												N.A.			N.A.	N.A.			27.35							
5	24-01-2023	22-02-2023	13 to 15											M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Footing			M-25	N.A.			N.A.	N.A.			28.1	28.13	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200
			13 to 15																N.A.			N.A.	N.A.			28.3			
			13 to 15																N.A.			N.A.	N.A.			28			

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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 Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark		
							7 Days	14 Days	21 Days	28 Days					
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
1	18-03-2023	17-04-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for Abutment and Pier Lift 2	M-25	N.A.	N.A.	N.A.	27.85	27.87	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200		
			1 to 3				N.A.	N.A.	N.A.	27.7					
			1 to 3				N.A.	N.A.	N.A.	28.05					
2	18-03-2023	17-04-2023	4 to 6				M-25	N.A.	N.A.	N.A.				28.15	28.13
			4 to 6					N.A.	N.A.	N.A.				28.25	
			4 to 6					N.A.	N.A.	N.A.				28	
3	18-03-2023	17-04-2023	7 to 9			M-25		N.A.	N.A.	N.A.	27.65			27.82	
			7 to 9					N.A.	N.A.	N.A.	27.7				
			7 to 9					N.A.	N.A.	N.A.	28.1				
4	18-03-2023	17-04-2023	10 to 12				M-25	N.A.	N.A.	N.A.	27.1				27.75
			10 to 12					N.A.	N.A.	N.A.	28.05				
			10 to 12					N.A.	N.A.	N.A.	28.1				

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

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. 13/04/2023)

**Contract:** Repairs to causeway on NH 516 A to Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	12-04-2023	11-05-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for Abutment and Pier cap	M-30	N.A.	N.A.	N.A.	32.5	32.18	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (30 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200
			1 to 3				N.A.	N.A.	N.A.	32.1			
			1 to 3				N.A.	N.A.	N.A.	31.95			
2	12-04-2023	11-05-2023	4 to 6			M-30	N.A.	N.A.	N.A.	32.85	32.60		
			4 to 6				N.A.	N.A.	N.A.	32.5			
			4 to 6				N.A.	N.A.	N.A.	32.45			
3	12-04-2023	11-05-2023	7 to 9			M-30	N.A.	N.A.	N.A.	31.85	32.10		
			7 to 9				N.A.	N.A.	N.A.	32.45			
			7 to 9				N.A.	N.A.	N.A.	32			

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Ref.No.:- **FTC-COER/Test Report/2023/5(0)**

Date : **09 / 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 Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze Hunnur to Dist. Border at KM 77/300 and 54/200, Tal. Mangalwedha Dist. Solapur

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

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Sr. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	08-04-2023	09-05-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for Abutment and Pier Lift 3	M-25	N.A.	N.A.	N.A.	28.55	28.37	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200
			1 to 3				N.A.	N.A.	N.A.	28.4			
			1 to 3				N.A.	N.A.	N.A.	28.15			
2	08-04-2023	09-05-2023	4 to 6			M-25	N.A.	N.A.	N.A.	27.95	27.73		
			4 to 6				N.A.	N.A.	N.A.	27.6			
			4 to 6				N.A.	N.A.	N.A.	27.65			
3	08-04-2023	09-05-2023	7 to 9			M-25	N.A.	N.A.	N.A.	28.45	28.40		
			7 to 9				N.A.	N.A.	N.A.	28.6			
			7 to 9				N.A.	N.A.	N.A.	28.15			
4	08-04-2023	09-05-2023	10 to 12			M-25	N.A.	N.A.	N.A.	27.7	27.72		
			10 to 12				N.A.	N.A.	N.A.	27.45			
			10 to 12				N.A.	N.A.	N.A.	28			

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Ref.No.: **FTC-COER/Test Report/2023/05(C)** Date : **15/07/2023**

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. 17/06/2023)

**Contract:** Repairs to causeway on NH 516 A to Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	16-06-2023	15-07-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Slab S2	M-30	N.A.	N.A.	N.A.	31.8	32.05	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (30 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200
			1 to 3				N.A.	N.A.	N.A.	32.15			
			1 to 3				N.A.	N.A.	N.A.	32.2			
2	16-06-2023	15-07-2023	4 to 6			M-30	N.A.	N.A.	N.A.	32.5	32.15		
			4 to 6				N.A.	N.A.	N.A.	31.85			
			4 to 6				N.A.	N.A.	N.A.	32.1			
3	16-06-2023	15-07-2023	7 to 9			M-30	N.A.	N.A.	N.A.	32.25	32.52		
			7 to 9				N.A.	N.A.	N.A.	32.5			
			7 to 9				N.A.	N.A.	N.A.	32.8			
4	16-06-2023	15-07-2023	10 to 12			M-30	N.A.	N.A.	N.A.	31.75	32.15		
			10 to 12				N.A.	N.A.	N.A.	32.45			
			10 to 12				N.A.	N.A.	N.A.	32.25			
5	16-06-2023	15-07-2023	13 to 15			M-30	N.A.	N.A.	N.A.	32.5	32.45		
			13 to 15				N.A.	N.A.	N.A.	32.75			
			13 to 15				N.A.	N.A.	N.A.	32.1			

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

Date : 16/01/2023

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. 18/12/2022)

Contract: Repairs to causeway on NH 516 A to Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	17-12-2022	16-01-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for P.C.C work	M-20	N.A.	N.A.	N.A.	22	22.20	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (20 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200
			1 to 3				N.A.	N.A.	N.A.	22.5			
			1 to 3				N.A.	N.A.	N.A.	22.1			
2	17-12-2022	16-01-2023	4 to 6			M-20	N.A.	N.A.	N.A.	21.85	22.13		
			4 to 6				N.A.	N.A.	N.A.	22.5			
			4 to 6				N.A.	N.A.	N.A.	22.05			
3	17-12-2022	16-01-2023	7 to 9			M-20	N.A.	N.A.	N.A.	22.85	22.92		
			7 to 9				N.A.	N.A.	N.A.	23.1			
			7 to 9				N.A.	N.A.	N.A.	22.8			
4	17-12-2022	16-01-2023	10 to 12			M-20	N.A.	N.A.	N.A.	22.65	22.75		
			10 to 12				N.A.	N.A.	N.A.	22.45			
			10 to 12				N.A.	N.A.	N.A.	23.15			

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Ref.No.:- FTC/COER/Test Report/2023/23 (C)

Date : 07/08/2023

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. 09/07/2023)

Contract: Repairs to causeway on NH 516 A to Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	08-07-2023	07-08-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for R.C.C. Slab S3	M-30	N.A.	N.A.	N.A.	31.6	32.12	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (30 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200
			1 to 3				N.A.	N.A.	N.A.	32.25			
			1 to 3				N.A.	N.A.	N.A.	32.5			
2	08-07-2023	07-08-2023	4 to 6			M-30	N.A.	N.A.	N.A.	32.45	32.38		
			4 to 6				N.A.	N.A.	N.A.	32.6			
			4 to 6				N.A.	N.A.	N.A.	32.1			
3	08-07-2023	07-08-2023	7 to 9			M-30	N.A.	N.A.	N.A.	32.75	32.02		
			7 to 9				N.A.	N.A.	N.A.	31.45			
			7 to 9				N.A.	N.A.	N.A.	31.85			
4	08-07-2023	07-08-2023	10 to 12			M-30	N.A.	N.A.	N.A.	32.05	32.07		
			10 to 12				N.A.	N.A.	N.A.	32.25			
			10 to 12				N.A.	N.A.	N.A.	31.9			
5	08-07-2023	07-08-2023	13 to 15	M-30	N.A.	N.A.	N.A.	32.1	32.18				
			13 to 15		N.A.	N.A.	N.A.	32					
			13 to 15		N.A.	N.A.	N.A.	32.45					

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Ref.No.: FTCCOER/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 Bhoze Khedbhose Gadegaon Korti Bohali Khardi Tanali Gunjegaon Andhalgaon Patkhal Nandeshwar Bhoze 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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark	
							7 Days	14 Days	21 Days	28 Days				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	13-03-2023	11-04-2023	1 to 3	M/S A. B. Dongare, Ambajogai	Repairs to Causeway for Abutment and Pier Lift 1	M-25	N.A.	N.A.	N.A.	28.1	28.22	As per IS:456-2000 Compressive strength achieved by concrete at 28 days is about 100% (25 N/mm <sup>2</sup> ).	NH 516 A at KM 77/300 and 54/200	
			1 to 3				N.A.	N.A.	N.A.	27.95				
			1 to 3				N.A.	N.A.	N.A.	28.6				
2	13-03-2023	11-04-2023	4 to 6			M-25	N.A.	N.A.	N.A.	28.3	28.35			
			4 to 6				N.A.	N.A.	N.A.	28.55				
			4 to 6				N.A.	N.A.	N.A.	28.2				
3	13-03-2023	11-04-2023	7 to 9				M-25	N.A.	N.A.	N.A.	27.95			27.95
			7 to 9					N.A.	N.A.	N.A.	27.8			
			7 to 9					N.A.	N.A.	N.A.	28.1			
4	13-03-2023	11-04-2023	10 to 12			M-25	N.A.	N.A.	N.A.	28.15	28.30			
			10 to 12				N.A.	N.A.	N.A.	28.3				
			10 to 12				N.A.	N.A.	N.A.	28.45				

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Ref.No.:- FTC/COER/Test Report/2023/23(B) Date 07/08/2023

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 (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 from Laboratory Tests were Presented in the Following Table:-

Sr. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	29-07-2023	07-08-2023	1 to 3	Grampanchayat Hatid	Construction of Pipe Gutter	M-15	11.5	N.A.	N.A.	N.A.	11.82	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (10 N/mm <sup>2</sup> )	Waghmare Bhandage Howal wasti
			1 to 3				11.95	N.A.	N.A.	N.A.			
			1 to 3				12	N.A.	N.A.	N.A.			

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

## TEST RESULT

(As PER IS 1786: 2008 For Details of Specification Requirements)

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 & Rebind Test	Grade
1	10	78.28	0.630	595.00	635.45	656.37	21.30	No Rupture & Cracks	Fe 500
	10	78.28	0.630	621.00	663.15				
	10	78.28	0.630	630.00	670.50				

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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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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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 Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	10-03-2022	25-03-2022	1 to 3		Maintenance and renovation work of Bandhara	M-15	N.A.	15.55	N.A.	N.A.	15.78	As per IS:456-2000 Compressive strength achieved by concrete at 14 days is about 90% (13.5 N/mm <sup>2</sup> )	Beldar Wasti G. No. 183 at Khadki
			1 to 3				N.A.	15.8	N.A.	N.A.			
			1 to 3				N.A.	16	N.A.	N.A.			



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Ref.No.:- FTC-COER / Test Report / 2023 / 24

Date : 10 / 08 / 2023


### TEST REPORT

- 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

  
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Ref.No.:- FTC - COER / Test Report / 2023 / 3225 (A) Date : 06 / 06 / 2023

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

Date of Collection	Sample Identification No.	Supplementary Data		Type of Sample	Field Density of Dis./Undis. Sample		Mechanical Analysis							Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		y Test Constant	Specific Gravity at 27° C	Compression Index C <sub>c</sub>	Remark			
		Location Source (Name of Work)	Zone		Disturbed/Undisturbed	Placement Dry Density (Kg/m <sup>3</sup> )	P.M.C. %	Clay	Silt	Sand		Gravel			Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)					Cohesion C (Kg/m <sup>3</sup> )	Tan φ Peak	
06-06-2023	4 to 6	Construction of Converted Storage Tank at Katphal No. 1	Soil for Cutoff Trench (C.O.T)	Disturbed	-	-	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	1.72	21	Ultimate	Ultimate	Coefficient of Permeability	-	-	-	-	Black Cotton Soil is used for work.



*(Signature)*  
 Testing In-charge

*(Signature)*  
 Head  
 Department of Civil Engineering  
 Fabtech Technical Campus  
 College of Engineering & Research  
 Sangola Dist Solapur

*(Signature)*  
**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)











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**Contact No. 840888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in**

Ref.No.:- FTC-COER/Test Report/2023/3233(A) Date : 11/06/2023

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

Date of Collection	Sample Identification No.	Supplementary Data		Type of Sample Disturbed/Undisturbed	Field Density of Dis./Undis. Sample		Mechanical Analysis							Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		y Test Constant	Specific Gravity at 27° C	Compression Index C <sub>c</sub>	Remark	
		Location Source (Name of Work)	Zone		Placement Dry Density (Kg/m <sup>3</sup> )	P.M.C. %	Clay	Silt	Sand			Gravel	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)	Cohesion C (Kg/m <sup>3</sup> )	Tan φ Peak					
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
11-06-2023	10 to 12	Construction of Converted Storage Tank at Katphal No. 1	Soil for Cutoff Trench (C.O.T)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	21	-	-	-	-	-	-

  
**Testing In-charge**

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

  
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**COLLEGE OF ENGINEERING & RESEARCH, SANGOLA**

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Contact No. 8408888657 Website : [www.ftccoe.ac.in](http://www.ftccoe.ac.in) E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.ac.in)

Ref.No.:- FTC-COER/Audit Report/2023/23 (B)

Date : 17/08/2023

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 approximately 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.

  
Audited By

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



  
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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:**

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> )
1	M-30	03/10/2023	09/10/2023	7	Construction Ofraft WTP	8910	22500	470	20.88	21.10
						8780	22500	475	21.11	
						8650	22500	480	21.33	

As per IS:456-2000 Compressive Strength achieved by concrete at 7days is about 65%(19.5 N/mm<sup>2</sup>)

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

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

**I. 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> )
1	M-15	22/04/2023	28/04/2023	07	Providing S.T. Pick up shed Akola	8910	22500	230	10.22	10.29
						8780	22500	235	10.44	
						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  
College of Engineering & Research  
Sangola Dist Solapur

  
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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:-

**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> )
1	M-15	22/04/2023	28/04/2023	07	Providing S.T. Pick up shed Akola	8910	22500	230	10.22	10.29
						8780	22500	235	10.44	
						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  
College of Engineering & Research  
Sangola Dist Solapur

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

Date 02/06/2023

Date of Collection		Supplimentry Data	Location Source ( Name of Work )	Zone	Type of Sample Disturbed / Undisturbed	Dry Density Kg/m <sup>3</sup>	P.M.C %	Clay Silt	Sand	Gravel	Liquid Limit	Plastic Limit	Plastisity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D g/cc	O.M.C %	Ultimate	Ultimate	Coefficient of Permiability	Specific Gravity at 27 C	Compression Index C	Remark	
1	2																								
02-06-2023	1																								
1 to 3	2																								
Reconstruction of Percolation Tank	3																								
Hearing (Black cotton Soil)	4																								
Disturbed	5																								
.....	6																								
.....	7																								
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.....	10																								
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.....	27																								
.....	28																								

Name of Work- Reconstruction of Percolation Tank At Karpal (Sainthe Vadu)  
 Agency Name- Siddhant Construction Sangola  
 Ref. Your request letter about testing report Sub. Div. Water Conservation Officer, Soil and Water Conservation Sub. Div. Sangola.

Name of College- Fabtech Technical Campus College of Engineering and Research, Sangola  
 Test Result For Soil (Disturbed)  
 Test Result For Soil (Disturbed) Tal Sangola Dist solapur

Note:-The test report and result related to the particular specimen / Sample (s) of the material as delivered/received tested in laboratory. This Report is valid it's ORIGINAL FORM ONLY

Testing I/C  
 Department of Civil Engineering  
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Ref.No.:- FTC/COER/Test Report/2023/

Date : 14/06/2023

Name of Work-Reconstruction of Percolation Tank At Katpal (Saluhle Vasthi) Tal Sangola Dist solapur  
 Agency Name-Siddhanath Construction,Sangola  
 Ref. Your request letter about testing report Sub. Div. Water Conservation Officer,Soil and Water Conservation Sub. Div. Sangola.

Name of College- Fabtech Technical Campus College of Engineering and Research ,Sangola  
 Test Result For Soil (Disturbed)  
 Sangola Dist solapur

Sl. No.	Date of Collection	Sample Identification Number	Location Source (Name of Work)	Zone	Type of Sample Disturbed / Undisturbed	Mechanical Analysis				Atterberg's Limit			Shrinkage		Classification	Modified Standards		Direct Shear (C <sub>v</sub> & φ <sub>v</sub> )	Yield Stress Constant	Specific Gravity at 27 C	Compression Index C	Remark		
						Density of Field	Clay	Silt	Sand	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range		O.D.D g/cc	O.M.C %							
1	14-06-2023	1 to 3	Reconstruction of Percolation Tank	Hearing (Black cotton Soil)	Disturbed																			
2						Dry Density Kg/m <sup>3</sup>																		
3						P.M.C %																		
4						Clay below 0.002 mm																		
5						0.002 mm to 0.075 mm																		
6						Fine Sand 0.075 mm to 0.42 mm																		
7						Medium sand 0.42 mm to 2.00 mm																		
8						Coarse sand 2.00 mm to 4.75 mm																		
9						Gravel fine 4.75 mm to 20.00 mm																		
10						Coarse 20.00 mm to 80.00 mm																		
11						Liquid Limit																		
12						Plastic Limit																		
13						Plasticity Index																		
14						Shrinkage Limit																		
15						Shrinkage Range																		
16						Classification																		
17						O.D.D g/cc																		
18						O.M.C %																		
19						Ultimate																		
20						Ultimate																		
21						Coefficient of Permiability																		
22						Specific Gravity at 27 C																		
23						Compression Index C																		
24						Remark																		

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

Ref.No.: FTCCOER/ Test Report /17/07/2023/

Date : 17/07/2023

Name of Work-Reconstruction of Percolation Tank At Katpal (Sahukhe Vasti) Tal Sangola Dist solapur  
 Agency Name-Siddhanath Construction,Sangola  
 Ref: Your request letter about testing report Sub. Div. Water Conservation Officer, Soil and Water Conservation Sub. Div. Sangola.

Name of College- Fabtech Technical Campus College of Engineering and Research, Sangola  
Test Result For Soil ( Disturbed )

Date of Collection		Supplimentry Data	Location Source ( Name of Work )	Zone	Type of Sample Disturbed / Undisturbed	Field Density of	Clay/Silt	Sand	Gravel	Atterberg's Limit	Shrinkage	Classification	Modified Standards	Direct Shear Cohesion C kg/cm <sup>2</sup>	Direct Shear Tan-φ Peak	Yield Test Constant
1	2															
17-07-2023	1															
1 to 3	2															
Reconstruction of Percolation Tank	3															
Hearing (Black cotton Soil)	4															
Disturbed	5															
.....	6					Dry Density Kg/m3										
.....	7					P.M.C %										
.....	8					Clay below 0.002 mm										
.....	9					0.002 mm to 0.075 mm										
.....	10					Fine Sand 0.075 mm to 0.42 mm										
.....	11					Medium sand 0.42 mm to 2.00 mm										
.....	12					Coarse sand 2.00 mm to 4.75 mm										
.....	13					Gravel fine 4.75 mm to 20.00 mm										
.....	14					Coarse 20.00 mm to 80.00 mm										
.....	15					Liquid Limit										
.....	16					Plastic Limit										
.....	17					Plastisity Index										
.....	18					Shrinkage Limit										
.....	19					Shrinkage Range										
.....	20					Classification										
.....	21					O.D.D g/cc										
.....	22					O.M.C %										
.....	23					Ultimate										
.....	24					Ultimate										
.....	25					Coefficient of Permiability										
.....	26					Specific Gravity at 27 C										
.....	27					Compression Index C										
.....	28					Remark										

Note- The test report and result related to the particular specimen/ Sample (s) of the material as delivered/received tested in laboratory. This Report is valid it's ORIGINAL FORM only.

*[Signature]*  
Testing I/C

*[Signature]*  
Head  
Department of Civil Engineering  
Fabtech Technical Campus  
College of Engineering & Research  
Sangola Dist Solapur

*[Signature]*  
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Ref.No.: - FTC - COER / Test Report / 2023 /

Date : 17/07/2023

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.

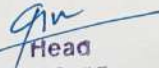
**Contract:** Reconstruction of Percolation Tank at. -Katphal (SalukheVasti) Tal. - Sangola Dist.-Solapur

The Engineering Properties of the Soil sample 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	$4.8 \times 10^{-6}$	As per Standard Percolation tank may be built up soil having coefficient permeability less than $K=5 \times 10^{-6}$ m/s
2	Soil from Casing (Murum)	Reconstruction of Percolation Tank at. -Katphal (SalukheVasti)	17/07/2023	$4.35 \times 10^{-6}$	As per Standard Percolation tank may be built up soil having coefficient permeability less than $K=5 \times 10^{-6}$ m/s

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

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

  
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**2021-22**

**COLLEGE OF ENGINEERING & RESEARCH 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
	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 Grampanchayat Pare	Journal	28		4,150.00
	Dr Grampanchayat Pare	Journal	29		3,600.00
	Dr Grampanchayat 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 Committee	Journal	285		4,830.00
28-Feb-22	Dr Agricultural Produce Market Committee	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	Dr TDS Receivable (A.Y.22-23)	Journal	351		7,485.00
				63,087.00	1,50,747.23
				87,660.23	
				<b>1,50,747.23</b>	<b>1,50,747.23</b>
Cr	Closing Balance				



  
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Contact No. 8408888657

Website : [www.ftccoe.ac.in](http://www.ftccoe.ac.in)

E-mail : [fabtech@ftccoe.ac.in](mailto: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  
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**Contact No. 8408888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in**

Ref.No.:- FTC/COER/Test Report/2023/07(A) Date: 26/05/2023

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.

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

Date of Collection	Sample Identification No.	Supplementary Data		Type of Sample	Field Density of Dis./Undis. Sample		Mechanical Analysis							Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		y Test Constant	Specific Gravity at 27° C	Compression Index $C_c$	Remark	
		Location Source (Name of Work)	Zone		Disturbed/Undisturbed	Placement Dry Density (Kg/m <sup>3</sup> )	P.M.C. %	Clay	Silt	Sand			Gravel		Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)					Cohesion C (Kg/m <sup>3</sup> )
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
26-05-2023	13 to 15	Construction of Converted Storage Tank at Katphal No. 1	Casing (Murum)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.85	11.5	-	-	-	-	-	-

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

Date : 19/04/2023

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 Kathal 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 Hearing Soil (Black Cotton Soil) Sample Determined from Laboratory Tests were Presented in the Following Table:-

Date of Collection	Sample Identification No.	Supplementary Data	Field Density of Dis./Undis. Sample	Mechanical Analysis						Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		γ Test Constant	Coefficient of Permeability	Specific Gravity at 27°C	Compression Index C <sub>c</sub>	Remark				
				Clay	Silt	Sand		Gravel		Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)	Cohesion C (Kg/m <sup>2</sup> )						Tan φ Peak			
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
19-04-2023	1 to 3	Construction of Converted Storage Tank at Kathal No. 1	Hearing (Black Cotton Soil)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	18	-	-	-	-	-	-

  
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Ref.No.:- FIC/coER/Test Report/2023/11(B)

Date : 19/06/2023

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:** Mr. 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:-

Date of Collection	Sample Identification No.	Supplementary Data		Field Density of Dis./Undis. Sample	Mechanical Analysis								Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		γ Test Constant	Specific Gravity at 27°C	Compression Index C <sub>c</sub>	Remark		
		Location Source (Name of Work)	Zone		Type of Sample	Clay	Silt	Sand		Gravel		Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	O.D.D. (g/cc)	O.M.C. (%)	Cohesion C (Kg/m <sup>2</sup> )	Tan φ Peak							
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.86	18.1	-	-	-	-	-	-

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Ref.No.:- FTC/COER/Test Report/2023/16

Date : 03/07/2023

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: Mr. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

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

Date of Collection	Sample Identification No.	Supplementary Data	Field Density of Dis./Undis. Sample	Mechanical Analysis										Atterberg's Limit			Shrinkage		Modified Standards	Direct Shear Test		γ Test Constant	Specific Gravity at 27°C	Compression Index C <sub>c</sub>	Remark		
				Clay	Silt	Sand			Gravel		Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)		Cohesion C (Kg/m <sup>2</sup> )	Tan φ Peak						
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
03-07-2023	37 to 39	Construction of Converted Storage Tank at Katphal No. 1	Hearing (Black Cotton Soil)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.94	19.2	-	-	-	-	-	-

  
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Ref.No.:- FTC/COER/Test Report/2023/08(B) Date : 02/06/2023

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: Mr. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

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

Date of Collection	Sample Identification No.	Supplementary Data		Type of Sample	Field Density of Dis./Undis. Sample		Mechanical Analysis							Atterberg's Limit		Shrinkage		Modified Standards		Direct Shear Test		y Test Constant	Specific Gravity at 27° C	Compression Index C <sub>c</sub>	Remark		
		Location Source (Name of Work)	Zone		Disturbed/Undisturbed	Placement Dry Density (Kg/m <sup>3</sup> )	P.M.C. %	Clay	Silt	Sand			Gravel	Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)					Cohesion C (Kg/m <sup>3</sup> )	Tan φ Peak
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
02-06-2023	16 to 18	Construction of Converted Storage Tank at Katphal No. 1	Casing (Murum)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.91	11.8	-	-	-	-	-	Casing (Murum) used for work.

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Ref.No.: FTC/KOE R/Test Report/2023/23

Date : 03/08/2023

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: Mr. Shri. Prakash Vinthal Shewale Pandharpur Tal- Pandharpur Dist- Solapur.

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

Date of Collection	Sample Identification No.	Supplementary Data		Type of Sample Disturbed/Undisturbed	Field Density of Dis./Undis. Sample		Mechanical Analysis						Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		y Test Constant	Specific Gravity at 27° C	Compression Index $C_c$	Remark		
		Location Source (Name of Work)	Zone		Placement Dry Density (Kg/m <sup>3</sup> )	P.M.C. %	Clay	Silt	Sand		Gravel		Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)	Cohesion C (Kg/m <sup>2</sup> )					Tan $\phi$ Peak	
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 to 57	Construction of Converted Storage Tank at Katphal No. 1	Casing (Murum)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.62	11.6	-	-	-	-	-	Casing (Murum) used for work

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**Contact No. 840888657 Website : www.ftccoe.ac.in E-mail : fabtech@ftccoe.ac.in**

Ref.No.:- F1C/COER/Test Report/2023/19(B)

Date : 22/07/2023

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:** Mr. Shri. Prakash Vitthal Shewale Pandharpur Tal.- Pandharpur Dist.- Solapur.

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

Date of Collection	Sample Identification No.	Supplementary Data	Field Density of Dis./Undis. Sample	Mechanical Analysis										Atterberg's Limit			Shrinkage		Modified Standards		Direct Shear Test		y Test Constant	Specific Gravity at 27° C	Compression Index C <sub>c</sub>	Remark	
				Clay	Silt	Sand			Gravel		Liquid Limit	Plastic Limit	Plasticity Index	Shrinkage Limit	Shrinkage Range	Classification	O.D.D. (g/cc)	O.M.C. (%)	Cohesion C (Kg/m <sup>2</sup> )	Tan φ Peak							
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
22-07-2023	46 to 48	Construction of Converted Storage Tank at Katphal No. 1	Hearing (Black Cotton Soil)	Disturbed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.85	18.2	-	-	-	-	-	-

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Ref.No.:- **FTC/COER/Test Report/3283(B)**

Date : **10/04/2023**

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

  
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Ref.No.:- FTC/COER/ Test Report / 3283 (B) Date : 26/04/2023

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

  
**Head**  
Department of Civil Engineering  
Fabtech Technical Campus  
College 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/3283(B) Date : 26/04/2023

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

  
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Ref.No.: - FTC / COER / Test Report / 2023 / 322 / (B)

Date : 31/05/2023.

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

**Subject:** Test Report on Stone Block.

**Date of Sample Received:** 31/05/2023.

**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.No.	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> )
1	Igneous Rock Basalt	31/05/2023	Repairs to Left D/S earthen filling and necessary Quarry Spall of K.T. weir	8810	10000	1150	115	117.5
				8880	10000	1175	117.5	
				8850	10000	1200	120	

As per ISI1121:1 References Igneous Rock Basalt not less than 100N/mm<sup>2</sup>

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

  
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Ref.No.: - FTC-COER/ Test Report/2023/3203 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.

  
(Prof. V.S. Bhakare)  
Audited By

  
Head  
Department of Civil Engineering  
Fabtech Technical Campus  
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Sangola, Dist. Solapur

  
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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, 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
3. Gauge Length : 60 mm

## TEST RESULT

(As PER IS 1786: 2008 For Details of Specification Requirements)

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 & Re bend Test	Grade
1	12	113.09	0.892	610.00	641.15	652.32	22.10	No Rupture & Cracks	Fe 500
	12	113.09	0.892	595.00	665.30				
	12	113.09	0.892	620.00	650.50				
<p>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</p>									

Testing In-charge

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

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

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, 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

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


### TEST RESULT

(As PER IS 1786: 2008 For Details of Specification Requirements)

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 & Rebind Test	Grade
1	10	78.28	0.630	595.00	635.45	656.37	21.30	No Rupture & Cracks	Fe 500
	10	78.28	0.630	621.00	663.15				
	10	78.28	0.630	630.00	670.50				

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

  
Testing In-charge

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

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, 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.

TEST RESULT					
(As PER IS IS:10262,2009 For Details of Specification Requirements)					
	Water	Cement	Crushed Sand	Course Aggregate	Compressive Strength at 7 Days
				CA-20	
Per M <sup>3</sup>	176 Ltr.	380 Kg	702 kg	1183 kg	29.10 N/mm <sup>2</sup>
Proportion	0.42	1	1.84	3.11	

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

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, 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. (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 : Tor Steel
3. Gauge Length : 40 mm

<b>TEST RESULT</b>									
(As PER IS 1786: 2008 For Details of Specification Requirements)									
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 & Re bend Test	Grade
1	8	50.30	0.412	585.00	615.00	637.91	22.15	No Rupture & Cracks	Fe 500
	8	50.30	0.412	610.00	643.25				
	8	50.30	0.412	605.00	655.50				
<b>Minimum Requirement as per IS Code 456-2000:- 1. Grade of Steel : Fe - 500</b> <b>2. Tensile Strength ((N/mm<sup>2</sup>): 545 3. Percentage Elongation: 12</b>									

Testing In-charge

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Ref.No.:-

Concrete Mix Design M-30 Grade

Date : 03 / 04 / 2023

## I. 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.

*[Signature]*  
In-charge

*[Signature]*  
Head

*[Signature]*  
PRINCIPAL

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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

  
Testing In-charge

  
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Ref.No.: **7 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 =  $0.02 \text{ m}^3$

f) 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  $\times$  Volume of (CA+FA)  $\times$  Sp. Gr. of Coarse Aggregate  $\times$  1000  
=  $0.62 \times 0.696 \times 2.76 \times 1000$   
=  $1190 \text{ Kg/m}^3$

  
Testing In-charge

  
Principal

  
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Ref.No.:- FTC-COER / Test Report / 2023 / 9161 D Date : 03 / 04 / 2023

### 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.No: **2. TARGET MEAN STRENGTH (TMS)**

Date: 03 / 04 / 2023

a) Statistical Constant  $K = 1.65$

b) Standard Deviation  $S = 5$

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

$$\begin{aligned} \text{(from I.S. 456-2000)} &= 30 + 1.65 \times 5 \\ &= 38.25 \text{ Mpa} \end{aligned}$$

Thus, TMS = 38.25 Mpa

### 3. SELECTION OF W/C RATIO

a) As Required for TMS = 0.45

Adopt w/c Ratio 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 COARSE 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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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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark
							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
13	07-12-2022	14-12-2022	37 to 39	N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	18.22	N.A.	N.A.	N.A.	17.12	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) and 28 days is about 100% (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Pre Cast Road
			37 to 39				16.17	N.A.	N.A.	N.A.			
			37 to 39				16.98	N.A.	N.A.	N.A.			
14	01-11-2022	28-11-2022	40 to 42			M-20	N.A.	N.A.	N.A.	24.33	25.44		Raft
			40 to 42				N.A.	N.A.	N.A.	25.1			
			40 to 42				N.A.	N.A.	N.A.	26.9			
15	04-11-2022	02-12-2022	43 to 45			M-20	N.A.	N.A.	N.A.	25.34	25.49		Wall
			43 to 45				N.A.	N.A.	N.A.	24.92			
			43 to 45				N.A.	N.A.	N.A.	26.21			
16	07-11-2022	05-12-2022	46 to 48			M-20	N.A.	N.A.	N.A.	24.91	25.64		Wall
			46 to 48				N.A.	N.A.	N.A.	26.88			
			46 to 48				N.A.	N.A.	N.A.	25.12			
17	10-11-2022	08-12-2022	49 to 51			M-20	N.A.	N.A.	N.A.	24.19	25.27		Wall
			49 to 51				N.A.	N.A.	N.A.	25.25			
			49 to 51				N.A.	N.A.	N.A.	26.38			
18	13-11-2022	11-12-2022	52 to 54			M-20	N.A.	N.A.	N.A.	25.38	25.18		Wall
			52 to 54				N.A.	N.A.	N.A.	24.01			
			52 to 54				N.A.	N.A.	N.A.	26.16			
19	16-11-2022	14-12-2022	55 to 57			M-20	N.A.	N.A.	N.A.	26.15	25.24		Wall
			55 to 57				N.A.	N.A.	N.A.	24.19			
			55 to 57				N.A.	N.A.	N.A.	25.37			
20	19-11-2022	17-12-2022	58 to 60			M-20	N.A.	N.A.	N.A.	25.2	25.05		Raft
			58 to 60				N.A.	N.A.	N.A.	25.91			
			58 to 60				N.A.	N.A.	N.A.	24.03			
21	20-11-2022	18-12-2022	61 to 63	M-20	N.A.	N.A.	N.A.	26.38	24.86	Wall			
			61 to 63		N.A.	N.A.	N.A.	24.17					
			61 to 63		N.A.	N.A.	N.A.	24.04					
22	23-11-2022	21-12-2022	64 to 66	M-20	N.A.	N.A.	N.A.	24.49	25.00	Wall			
			64 to 66		N.A.	N.A.	N.A.	26.42					
			64 to 66		N.A.	N.A.	N.A.	24.1					
23	26-11-2022	24-12-2022	67 to 69	M-20	N.A.	N.A.	N.A.	26.42	25.03	Wall			
			67 to 69		N.A.	N.A.	N.A.	24.52					
			67 to 69		N.A.	N.A.	N.A.	24.15					
24	29-11-2022	27-12-2022	70 to 72	M-20	N.A.	N.A.	N.A.	26.71	25.12	Wall			
			70 to 72		N.A.	N.A.	N.A.	24.44					
			70 to 72		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**

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)

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

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							7 Days	14 Days	21 Days	28 Days												
1	2	3	4	5	6	7	8	9	10	11	12	13	14									
1	01-11-2022	08-11-2022	1 to 3	N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	17.58	N.A.	N.A.	N.A.	17.11	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Raft									
			1 to 3				17.56	N.A.	N.A.	N.A.												
			1 to 3				16.2	N.A.	N.A.	N.A.												
2	04-11-2022	10-11-2022	4 to 6			N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	17.98	N.A.	N.A.		N.A.	17.39	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Wall						
			4 to 6						17.78	N.A.	N.A.		N.A.									
			4 to 6						16.42	N.A.	N.A.		N.A.									
3	07-11-2022	14-11-2022	7 to 9					N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	16.56		N.A.	N.A.		N.A.	16.69	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Wall			
			7 to 9								17.3		N.A.	N.A.		N.A.						
			7 to 9								16.21		N.A.	N.A.		N.A.						
4	10-11-2022	17-11-2022	10 to 12							N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section		M-20	17.66		N.A.	N.A.		N.A.	17.39	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Wall
			10 to 12											17.72		N.A.	N.A.		N.A.			
			10 to 12											16.79		N.A.	N.A.		N.A.			
5	13-11-2022	20-11-2022	13 to 15	N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section							M-20	17.98	N.A.		N.A.	N.A.		17.12	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).		Wall
			13 to 15										17.07	N.A.		N.A.	N.A.					
			13 to 15										16.32	N.A.		N.A.	N.A.					
6	16-11-2022	23-11-2022	16 to 18			N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section					M-20	17.16	N.A.	N.A.	N.A.	17.34		As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).			Wall
			16 to 18										18.2	N.A.	N.A.	N.A.						
			16 to 18										16.65	N.A.	N.A.	N.A.						
7	19-11-2022	26-11-2022	19 to 21					N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section			M-20	16.98	N.A.	N.A.	N.A.	17.28	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).				Raft
			19 to 21										18.1	N.A.	N.A.	N.A.						
			19 to 21										16.77	N.A.	N.A.	N.A.						
8	20-11-2022	27-11-2022	22 to 24							N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	17.9	N.A.	N.A.	N.A.	17.46				As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Wall
			22 to 24										17.76	N.A.	N.A.	N.A.						
			22 to 24										16.71	N.A.	N.A.	N.A.						
9	23-11-2022	30-11-2022	25 to 27	N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section							M-20	17.98	N.A.	N.A.	N.A.	17.13			As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).		Wall
			25 to 27										17.02	N.A.	N.A.	N.A.						
			25 to 27										16.4	N.A.	N.A.	N.A.						
10	26-11-2022	03-12-2022	28 to 30			N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section					M-20	17.45	N.A.	N.A.	N.A.	17.40		As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).			Wall
			28 to 30										16.7	N.A.	N.A.	N.A.						
			28 to 30										18.06	N.A.	N.A.	N.A.						
11	29-11-2022	06-12-2022	31 to 33					N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section			M-20	18.77	N.A.	N.A.	N.A.	17.87	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).				Wall
			31 to 33										16.13	N.A.	N.A.	N.A.						
			31 to 33										18.7	N.A.	N.A.	N.A.						
12	02-12-2022	09-12-2022	34 to 36							N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	17.11	N.A.	N.A.	N.A.	16.51				As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Wall
			34 to 36										16.11	N.A.	N.A.	N.A.						
			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**

Name of The College: FABTECH TECHNICAL CAMPUS, College of Engineering & Research Sangola.  
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							7 Days	14 Days	21 Days	28 Days			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
37	30-12-2022	28-01-2023	109 to 111			M-30	N.A.	N.A.	N.A.	36.42	36.47		Road
			109 to 111				N.A.	N.A.	N.A.	36.53			
			109 to 111				N.A.	N.A.	N.A.	36.47			
38	30-12-2022	28-01-2023	112 to 114			M-30	N.A.	N.A.	N.A.	35.99	36.03		Road
			112 to 114				N.A.	N.A.	N.A.	35.48			
			112 to 114				N.A.	N.A.	N.A.	36.61			
39	30-12-2022	28-01-2023	115 to 117			M-30	N.A.	N.A.	N.A.	36.79	36.81		Road
			115 to 117				N.A.	N.A.	N.A.	36.66			
			115 to 117				N.A.	N.A.	N.A.	36.99			
40	01-01-2023	30-01-2023	118 to 120			M-30	N.A.	N.A.	N.A.	35.98	36.39		Road
			118 to 120				N.A.	N.A.	N.A.	36.98			
			118 to 120				N.A.	N.A.	N.A.	36.22			
41	01-01-2023	30-01-2023	121 to 123	M-30	N.A.	N.A.	N.A.	36.72	36.03	Road			
			121 to 123		N.A.	N.A.	N.A.	35.98					
			121 to 123		N.A.	N.A.	N.A.	35.4					
42	01-01-2023	30-01-2023	124 to 126	M-30	N.A.	N.A.	N.A.	36.49	36.54	Road			
			124 to 126		N.A.	N.A.	N.A.	36.15					
			124 to 126		N.A.	N.A.	N.A.	36.98					
43	07-01-2023	06-02-2023	127 to 129	M-30	N.A.	N.A.	N.A.	36.33	36.67	Wall			
			127 to 129		N.A.	N.A.	N.A.	36.7					
			127 to 129		N.A.	N.A.	N.A.	36.98					

Testing Incharge

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

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

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. No.	Date of Casting	Date of Testing	Sample Identification No.	Name of Client	Name of Work	Grade of Concrete	Compressive Strength N/mm <sup>2</sup>				Avg. Compressive Strength (N/mm <sup>2</sup> )	Standard References as per IS Specification	(Location) Remark	
							7 Days	14 Days	21 Days	28 Days				
							8	9	10	11	12	13	14	
25	02-12-2022	31-12-2022	73 to 75	N. Yaganti Eshwraiah Rly. Contractor	Elimination of manned levelcrossing at Kurduwad - Miraj Section	M-20	N.A.	N.A.	N.A.	25.11	25.21	As per IS:456-2000 Compressive strength achieved by concrete at 07 days is about 65% (13.00 N/mm <sup>2</sup> ) and 28 days is about 100% (20 N/mm <sup>2</sup> and 30 N/mm <sup>2</sup> ).	Wall	
			73 to 75				N.A.	N.A.	N.A.	26.09				
			73 to 75				N.A.	N.A.	N.A.	24.44				
26	07-12-2022	05-01-2023	76 to 78			M-20	N.A.	N.A.	N.A.	25.76	24.85		24.85	Pre Cast Road
			76 to 78				N.A.	N.A.	N.A.	24.32				
			76 to 78				N.A.	N.A.	N.A.	24.46				
27	10-12-2022	08-01-2023	79 to 81			M-20	N.A.	N.A.	N.A.	25.21	24.64		24.64	Raft
			79 to 81				N.A.	N.A.	N.A.	24.4				
			79 to 81				N.A.	N.A.	N.A.	24.3				
28	14-12-2022	12-01-2023	82 to 84			M-20	N.A.	N.A.	N.A.	26.78	25.35		25.35	Wall
			82 to 84				N.A.	N.A.	N.A.	24.66				
			82 to 84				N.A.	N.A.	N.A.	24.6				
29	15-12-2022	13-01-2023	85 to 87	M-20	N.A.	N.A.	N.A.	24.36	24.42	24.42	Wall			
			85 to 87		N.A.	N.A.	N.A.	24.5						
			85 to 87		N.A.	N.A.	N.A.	24.4						
30	18-12-2022	16-01-2023	88 to 90	M-20	N.A.	N.A.	N.A.	24.01	24.08	24.08	Casing			
			88 to 90		N.A.	N.A.	N.A.	24.04						
			88 to 90		N.A.	N.A.	N.A.	24.18						
31	18-12-2022	16-01-2023	91 to 93	M-20	N.A.	N.A.	N.A.	24.03	24.39	24.39	Casing			
			91 to 93		N.A.	N.A.	N.A.	24.44						
			91 to 93		N.A.	N.A.	N.A.	24.7						
32	20-12-2022	18-01-2023	94 to 96	M-20	N.A.	N.A.	N.A.	25.14	24.62	24.62	Casing			
			94 to 96		N.A.	N.A.	N.A.	24.4						
			94 to 96		N.A.	N.A.	N.A.	24.32						
33	20-12-2022	18-01-2023	97 to 99	M-20	N.A.	N.A.	N.A.	26.43	25.04	25.04	Casing			
			97 to 99		N.A.	N.A.	N.A.	24.3						
			97 to 99		N.A.	N.A.	N.A.	24.4						
34	29-12-2022	27-01-2023	100 to 102	M-30	N.A.	N.A.	N.A.	36.4	36.05	36.05	Road			
			100 to 102		N.A.	N.A.	N.A.	35.7						
			100 to 102		N.A.	N.A.	N.A.	36.04						
35	29-12-2022	27-01-2023	103 to 105	M-30	N.A.	N.A.	N.A.	36.77	36.36	36.36	Road			
			103 to 105		N.A.	N.A.	N.A.	36.9						
			103 to 105		N.A.	N.A.	N.A.	35.4						
36	29-12-2022	27-01-2023	106 to 108	M-30	N.A.	N.A.	N.A.	36.98	36.35	36.35	Road			
			106 to 108		N.A.	N.A.	N.A.	35.37						
			106 to 108		N.A.	N.A.	N.A.	36.71						

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 its ORIGINAL FORM only. (Any correction shall invalidate this report)







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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-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 Block construction 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. -Sangola Dist.-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	Bricks 35 Grade	225X100X75	1/12/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38	
3					37	
4					36	
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

**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

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/2022/3185(B) Date : 01/12/2022

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

**Subject:** Test Report on Toilet Block and Urinary construction 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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1	Bricks 35 Grade	225X100X75	1/12/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
4					38	
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


**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

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

Note:-The test report and results related to the particular specimen /sample of the delivered/received and tested in the laboratory



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

Date : 01 / 12 / 2022

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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1	Bricks 35 Grade	225X100X75	1/12/2022	22500	38	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					39	
3					37	
4					38	
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

**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	5.2%	Less than 10% That is Slight

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

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/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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1	Bricks 35 Grade	225X100X75	1/12/2022	22500	37	Bricks 35 GradeMin. 35 N/mm <sup>2</sup>
2					38	
3					37	
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

  
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Ref.No.:- *FTC-COER/TEST Report/2022/3185*

Date *01/12/2022*

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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1	Bricks 35 Grade	225X100X75	1/12/2022	22500	38	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					39	
3					37	
<b>Average</b>					<b>38</b>	

## 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

## 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	5.2%	Less than 10% That is Slight

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

  
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Ref.No.: - *FTC-COER/TEST REPORT/2022/3185(B)*

Date : *01/12/2022*

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

**Subject:** Test Report on Toilet Block and Urinary construction 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. - Medshingi Tal. - Sangola Dist. - 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	Bricks 35 Grade	225X100X75	1/12/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
Average					37.16	

## 2. Bricks (Water Absorption)

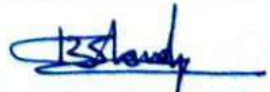
Sr.No.	Engineering Properties/Name of Test	Brick Sample Result	Requirement as per IS:1077- 1992
1	Water Absorption	3.5%	Less than 20% by weight

## 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

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

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





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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 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	M-30	24/09/2022	30/09/2022	7	Construction sump water Tank Itaki	8910	22500	430	19.11	18.81
						8780	22500	420	18.67	
						8650	22500	420	18.67	
1	M-30	20/09/2022	17/10/2022	28	Construction sump water Tank Itaki	8910	22500	730	32.44	32.96
						8780	22500	750	33.33	
						8650	22500	745	33.11	

As per IS:456-2000 Compressive Strength achieved by concrete at 7days & 28 days is about 65%&100%(18 N/mm<sup>2</sup>&30 N/mm<sup>2</sup>)

**2. 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	Bricks 35 Grade	225X100X75	17/10/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
Average					37.16	





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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 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	M-30	24/09/2022	30/09/2022	7	Construction sump water Tank Itaki	8910	22500	430	19.11	18.81
						8780	22500	420	18.67	
						8650	22500	420	18.67	
1	M-30	20/09/2022	17/10/2022	28	Construction sump water Tank Itaki	8910	22500	730	32.44	32.96
						8780	22500	750	33.33	
						8650	22500	745	33.11	

As per IS:456-2000 Compressive Strength achieved by concrete at 7days & 28 days is about 65%&100%(18 N/mm<sup>2</sup>&30 N/mm<sup>2</sup>)

**2. 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	Bricks 35 Grade	225X100X75	17/10/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
Average					37.16	



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Contact No. 8408888657 Website : [www.ftccoe.ac.in](http://www.ftccoe.ac.in) E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.ac.in)

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)

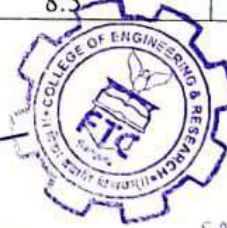
Sr.No.	Engineering Properties/Name of Test	Steel Sample Result	Requirement as per IS:432-1- 1982
1	Tensile Strength(Ultimate)	585N/mm <sup>2</sup>	540N/mm <sup>2</sup>
2	Elongation	8.7	Up to 20%


### 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

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



  
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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)

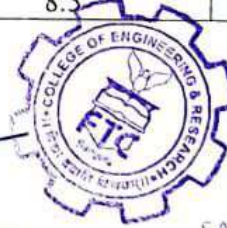
Sr.No.	Engineering Properties/Name of Test	Steel Sample Result	Requirement as per IS:432-1- 1982
1	Tensile Strength(Ultimate)	585N/mm <sup>2</sup>	540N/mm <sup>2</sup>
2	Elongation	8.7	Up to 20%

### 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

  
Head  
Department of Civil Engineering  
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Sangola Dist. Solapur



  
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E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1	Bricks 35 Grade	225X100X75	10/02/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
Average					37.16	

**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

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

  
Head  
Department of Civil Engineering  
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College of Engineering & Research

  
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E-mail : [fabtech@ftccoe.ac.in](mailto:fabtech@ftccoe.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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:1077- 1992
1	Bricks 35 Grade	225X100X75	10/02/2022	22500	37	Bricks 35 Grade Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
Average					37.16	

**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

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

  
Head  
Department of Civil Engineering  
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Note:-The test report and result related to the specimens/sample of the delivered/received and tested in the laboratory.





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

Date : 30/10/2022

To,  
Executive Engineer  
Div.No.1  
Zilla Parishad 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 (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	M-15	03/10/2022	30/10/2022	28	Construction cements Concrete Gutter At. - Lotewadi	8910	22500	360	16.00	16.67
						8780	22500	375	16.67	
						8650	22500	390	17.33	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(15N/mm<sup>2</sup>)

## 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

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%

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

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

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sample of the delivered/received and tested

Note:-The test report and result related to the particular specimen







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

Date : 30/10/2022

To,  
Executive Engineer  
Div.No.1  
Zilla Parishad 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 (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	M-15	03/10/2022	30/10/2022	28	Construction cements Concrete Gutter At. - Lotewadi	8910	22500	360	16.00	16.67
						8780	22500	375	16.67	
						8650	22500	390	17.33	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(15N/mm<sup>2</sup>)

## 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

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%

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

Head  
Department of Civil Engineering  
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College of Engineering & Research  
Sangola Dist Solapur

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sample of the delivered/received and tested

Note:-The test report and result related to the particular specimen





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

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

Date : 09/10/2022

To,  
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> )
1	M-10	12/09/2022	09/10/2022	28	Kamshidh Mandir Concrete work at Jawala	8810	22500	250	11.11	11.62
						8670	22500	275	12.22	
						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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:15658-2006
1	Paving Block Set of 8 Block (60mm Thickness)	60	09/10/2022	225.00	37	Grade-I Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
4					39	
5					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 IS Specification
1	Water Absorption		Maximum 6%

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

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



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

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

Date : 09/10/2022

To,  
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> )
1	M-10	12/09/2022	09/10/2022	28	Kamshidh Mandir Concrete work at Jawala	8810	22500	250	11.11	11.62
						8670	22500	275	12.22	
						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 (mm <sup>2</sup> )	Compressive Strength (N/mm <sup>2</sup> )	Requirement as per IS:15658-2006
1	Paving Block Set of 8 Block (60mm Thickness)	60	09/10/2022	225.00	37	Grade-I Min. 35 N/mm <sup>2</sup>
2					38.5	
3					36	
4					39	
5					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 IS Specification
1	Water Absorption		Maximum 6%

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

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



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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	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 (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	M-15	06/09/2022	03/10/2022	28	Concrete work at Jawala	8910	22500	360	16.00	16.67
						8780	22500	375	16.67	
						8650	22500	390	17.33	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(15 N/mm<sup>2</sup>)

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

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



  
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Sangola

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/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	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 (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	M-15	06/09/2022	03/10/2022	28	Concrete work at Jawala	8910	22500	360	16.00	16.67
						8780	22500	375	16.67	
						8650	22500	390	17.33	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(15 N/mm<sup>2</sup>)

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

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



  
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Sangola

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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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.ftceos.ac.in E-mail : fabtech@ftceos.ac.in

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 Babu 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
1	Fineness Modulus	2.75	2.6 to 3.6
2	Silt/Clay Content	2.5%	Maximum 4%

### 2. Crushing Metal Aggregate

Sr.No.	Engineering Properties/Name of Test	Crushing Aggregate Sample Result	Standard Reference as per IS Specification
1	Water Absorption	1%	Less than 2% to 3%
2	Specific Gravity	2.78	2.5 to 3.0
3	Crushing Value	7.5%	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 (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	M-15	02/09/2023	29/09/2023	28	Construction on Concrete Road At. - Lotewadi	8910	22500	390	17.33	17.26
						8780	22500	385	17.11	
						8650	22500	390	17.33	

As per IS:456-2000 Compressive Strength achieved by concrete at 28 days is about 100%(15 N/mm<sup>2</sup>)

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

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

Head

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

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& RESEARCH SANGOLA





**2020-21**

**COLLEGE OF ENGINEERING & RESERCH SANGOLA (20-21)**

Pandharpur Road, Gat No 565/1 Tal. Sangola

Dist Solapur.

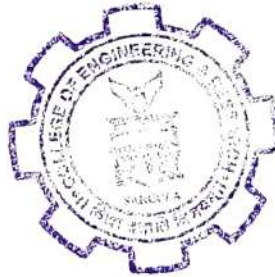
**Consultancy / Testing Charges**

Ledger Account

1-Apr-20 to 31-Mar-21

Page 1

Date	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 Grampanchayat Devale	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	<b>Closing Balance</b>			33,441.58	
				<b>33,441.58</b>	<b>33,441.58</b>



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

**Description of Cube:** F-1 1<sup>st</sup> Lift Column/08-03-2021.

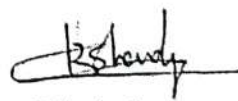
The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

### 1. Concrete Cubes:

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	C.C.M-25	08/03/2021	24/03/2021	16 Days	Construction of FOB Work	22500	490	21.78	21.26
						22500	485	21.56	
						22500	460	20.44	

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



  
Principal  
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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.



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

**Description of Cube:** F-2, F-4 Footing Raft Concrete /11-03-2021.

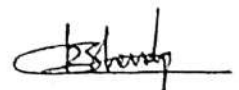
The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

### 1. Concrete Cubes:

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	C.C.M-25	11/03/2021	24/03/2021	13 Days	Construction of FOB Work	22500	470	20.90	20.07
						22500	455	20.22	
						22500	430	19.11	

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



  
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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.





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Tel.: (02187) 223000, Fax: 223003 Website : www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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

DATE:- 25/03/2021

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

**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





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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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

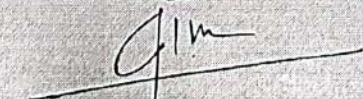
## 1. Stone/Rubble:


(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%



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

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

  
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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.





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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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

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:-

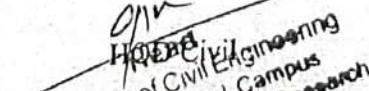
### 1. Concrete Cubes:

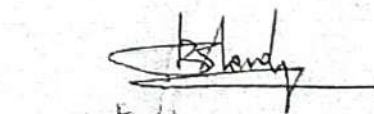
Sr. No.	Grade of Concrete Mortar	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
1	C.C.M-15	22/12/2020	05/02/2021	28 Days	Construction of HPC of Branch Canal Work	22500	370	16.44	16.67
						22500	380	16.90	
						22500	375	16.67	



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

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

  
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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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

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:-

### 1. Concrete Cubes:

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	C.C.M-15	25/12/2020	05/02/2021	28 Days	Construction of HPC of Branch Canal Work	22500	385	17.11	16.60
						22500	360	16.00	
						22500	375	16.67	



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

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

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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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.

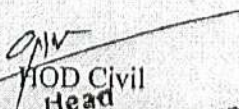
The Engineering Properties of the Concrete Cube Sample Determined from Laboratory Tests were Presented in the Following Table:-

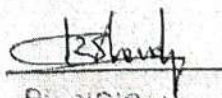
### 1. Concrete Cubes:

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	C.C.M-15	19/12/2020	05/02/2021	28 Days	Construction of HPC of Branch Canal Work	22500	365	16.22	16.44
						22500	375	16.67	
						22500	370	16.44	



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

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

  
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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

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

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:-

### 1. Concrete Cubes:

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	C.C.M-15	20/12/2020	05/02/2021	28 Days	Construction of HPC of Branch Canal Work	22500	360	16.00	16.22
						22500	365	16.22	
						22500	370	16.44	



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

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

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Contact No. : 8408808657 Website: www.fabtecheducation.com E-mail: ttc.coer@gmail.com

Ref.No.:- FTC/COER/Testing Reports/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:**

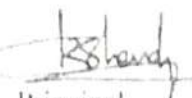
Sr. No.	Grade of Concrete	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
1	M-15	22/02/2020	22/03/2020	28 Days	Concrete Road Work	22500	360	16.00	16.22
						22500	365	16.22	
						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	2.65	---
2	Water Absorption	1.50	Maximum 5%
3	Impact Value/Crushing Value (%)	18.70	Maximum 45%

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

  
HOD Civil

  
Principal

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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FABTECH TECHNICAL CAMPUS  
COLLEGE OF ENGINEERING  
& RESEARCH, SANGOLA



# 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 'B' Grade ISO 9001 : 2015 Certified Institute  
Pandharpur Road, Gat No. 565/1, Sangola, Taluqa- Sangola, District- Solapur. - 413 307. P.O. Box No. 04  
Contact No. : 8408886657 Website: www.fabtecheducation.com E mail : ftc.coer@gmail.com

Ref.No.: FTC/COER/testing reports/2020/1136(D) DATE: 24/03/2020

To,  
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:-

### 1. Sand:


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:

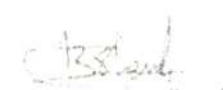
Sr. No.	Grade of Concrete	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
1	M-15	22/03/2020	21/03/2020	28 Days	Paving Block Work	22500	368	16.35	16.48
						22500	371	16.49	
						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-I Min. 4.0 N/mm <sup>2</sup>

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

  
MOD Civil

  
Principal  
PRINCIPAL  
COLLEGE OF ENGINEERING  
& RESEARCH

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







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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

Ref.No.:- FTC/COER/Testing Reports/2020/1136 (B)

DATE:- 24/03/2020

To,  
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:

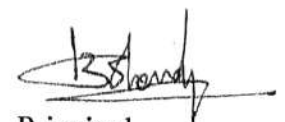
Sr. No.	Grade of Concrete	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compress Strength (N/mm <sup>2</sup> )
1	M-15	22/03/2020	21/03/2020	28 Days	Paving Block Work	22500	355	15.77	16.14
						22500	360	16.00	
						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

  
HOD Civil

  
Principal

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



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Contact No. : 8408888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

Ref.No.:- FTC/COER/Testing Reports) 2020/1136 (A) 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:** 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
2	Silt/Clay Content	2.20%	Maximum 4%

### 2. Concrete Cubes:

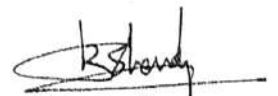
Sr. No.	Grade of Concrete	Date of Casting	Date of Testing	Age of Cube in Days	Component of Work	C/S Area (mm <sup>2</sup> )	Load Taken by Cube in KN	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )
1	M-15	22/02/2020	22/03/2020	28 Days	Concrete Road Work	22500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

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

  
HOD Civil

  
Principal  
PRINCIPAL  
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& RESEARCH, SANGOLA

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**2019-20**

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

Pandharpur Road,Gat No 565/1 Tal. Sangola

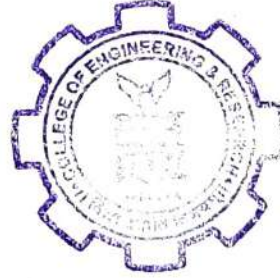
Dist Solapur.**Consultancy / Testing Charges**

Ledger Account

1-Apr-19 to 1-Apr-20

Page 1

Date	Particulars	Vch Type	Vch No.	Debit	Credit
15-May-19	Dr M/s. Siddhanath Construction	Journal	73		3,000.00
	Dr P R PATIL	Journal	74		30,000.00
7-Jun-19	Dr Gulmire Dilip Vasant	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	
				<b>94,749.00</b>	<b>94,749.00</b>



  
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**2018-19**

# COLLEGE OF ENGINEERING & RESERCH SANGOLA (18-19)

Pandharpur Road, Gat No 565/1 Tal. Sangola  
Dist Solapur.

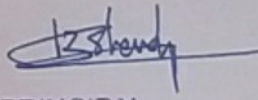
## Consultancy / Testing Charges Ledger Account

1-Apr-18 to 31-Mar-19

Page 1

Date	Particulars	Vch Type	Vch No.	Debit	Credit
19-Apr-18	Cr SBI SANGOLA A/C NO 32162953097	Bank Payment	52	40,161.00	
1-Jun-18	Dr SARPANCH GRAMPANCHAYAT JAWALA	Journal	96		4,237.00
13-Aug-18	Cr SBI SANGOLA A/C NO 32162953097	Bank Payment	215	4,108.00	
28-Aug-18	Dr Vidnyan Mahavidyalaya Sangola	Journal	382		21,186.50
12-Nov-18	Dr G R INFRAPROJECTS LTD	Journal	654		10,010.00
19-Jan-19	Dr Chairman Dhuldev M.S.S Ltd	Journal	830		1,500.00
	Dr Krushna Construction & Earthmovers	Journal	831		900.00
	Dr Dipak Deshmukh	Journal	835		250.00
21-Jan-19	Dr M/s. Siddhanath Construction	Journal	837		4,000.00
	Dr SARPANCH GRAMPANCHAYAT YELAGI	Journal	845		4,237.00
23-Jan-19	Dr NATHBABA CONSTRUCTION	Journal	857		2,550.00
28-Jan-19	Dr Suryakant Vishnu Khatakale	Journal	899		2,000.00
8-Feb-19	Dr Tanaji Mane	Journal	907		3,400.00
13-Feb-19	Dr Jagdish Patil	Journal	946		4,000.00
9-Mar-19	Dr Dattatray Bandgar	Journal	947		2,000.00
	Dr Misal Subhash Ramchandra	Journal	959		12,712.00
16-Mar-19	Dr Chairman Navbharat Majur Sahakari Santha	Journal	975		1,950.00
29-Mar-19	Dr BOI A/C NO 074920110000560	Bank Payment	621	24,743.00	
31-Mar-19	Cr				
				69,012.00	74,932.50
				5,920.50	
				<b>74,932.50</b>	<b>74,932.50</b>
Cr	Closing Balance				



  
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