



Gokhale Education Society's
**R. H. SAPAT COLLEGE OF ENGINEERING
MANAGEMENT STUDIES & RESEARCH**



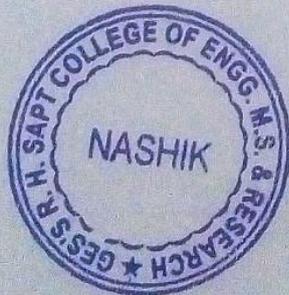
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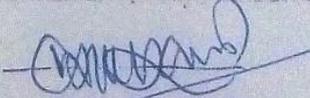
GES / RHSCOEMSR /

7.3 Institutional Distinctiveness

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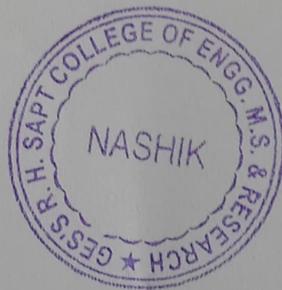



PRINCIPAL
Gokhale Education Society's
R.H. Sapat College of Engineering
Management Studies & Research
Nashik 422 005

1. Employability Enhancement

Year wise Placement

S. No.	Academic Year	No of Students Selected	No of Eligible Students	Percent Students % Selected
1	2013-2014	101	268	37.69
2	2014-2015	73	320	22.81
3	2015-2016	142	412	34.47
4	2016-2017	195	416	46.88
5	2017-2018	264	483	54.66
6	2018-19	288	510	56.47
7	2019-20	289	560	51.60
8	2020-21	340	540	62.96
9	2021-22	388	611	63.50

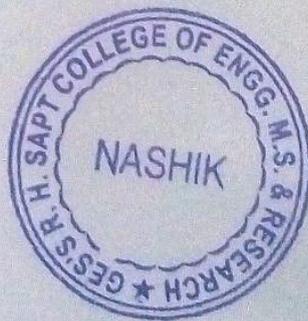


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2. Research orientation

Department wise publications

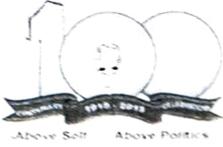
Academic Year	Department	No. of research papers published in Reputed National/ International Journals	No. of research papers published in Reputed International /National Conferences
2021-22	Mechanical Engg.	5	0
	Civil Engg.	1	1
	E & TC Engg.	0	5
	Electrical Engg.	11	25
	Computer Engg.	8	0
	MCA	0	2
Total		25	33



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3. Consultancy services:

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GES / RHSCOEMSR / 23-2021 - 22

Date: 14.06.2021

Civil Engineering Department Testing and consultancy cell SOIL TESTING REPORT

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp. Vanaraj Soc., Dwarka, Nashik, Maharashtra

Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 4.67$ $C_c = 1.0$	$C_u > 4$ Gravel type C_c 1-3 Well graded	Well Graded Gravel Type Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	39.54 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3	Plasticity index of soil	10.54	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Silt, Plastic limit = 29 % PI = 10.54, Medium plasticity	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.49 g/cc & 1.25 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is low	Sand Replacement Method
5.	OMC & MDD of Soil	13 % & 1.42 g/cc	1.1 g/cc to 1.6 g/cc	Optimum moisture content of soil is low which may results in low density of soil.	Standard Proctor Test IS 2720-8 (1983)

Note: 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work construction. Back filling material should be rubble soling and well compacted

Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

15.6.21
Mr. Pankaj Pagare
Consultancy
In-charge

15.06.21
Mr. Nilesh Masne
Lab In-charge

15-06-2021
Dr. N.D. Chaudhari
Prof & Head of Civil Dept.

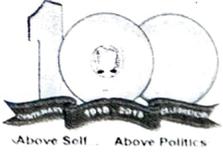
Dr. P.C Kulkarni
Principal

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Mgt. Studies & Research
Prin. T. A. Kulkarni Vidy Nagar, Nashik &



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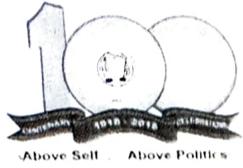
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GOKHALE EDUCATION SOCIETY'S
R.H.Sapat College of Engineering
GES's College of Engineering
 GES's College of Engineering 2020-2021

Name : Sadanand Buildcon & Consultant	Class : Other Receipts Receivable
A/C No. :	Roll No. :
Date : 15-Jun-2021	Division :
Receipt No. : 91	Fee Category :
Bank Details : Cheque No.: Bom Cheq.No. 137154	

Fee Details

Consultancy Fee	11,050.00		
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O/S: 11,060.00 Cr

Narration :

Fee In Words :INR Eleven Thousand Fifty Only **Paid Fee** 11,050.00

INSTRUCTIONS : (1) Please preserve this receipt for refund of deposits and fees (2) Fees once paid will not be refunded in account of cancellation of admission. (3) Receipt must be produced when demanded by the office. (4) Please check the amount paid in the receipt and amount actually paid before leaving the counter. No complaints will be entertained afterwards. (5) Transfer Certificate will not be issued unless all the arrears of fees are paid.

Sadanand
Principal

A/C Clerk

BYPP/150000/5/19

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GES's College of Engineering
 GES's College of Engineering 2020-2021

Student copy

Name : Sadanand Buildcon & Consultant A/C No. : Date : 15-Jun-2021 Receipt No. : 91 Bank Details : Cheque No.: Bom Cheq.No. 137154	Class : Other Receipts Receivable Roll No. : Division : Fee Category :
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Fee Details

Consultancy Fee	11,050.00			
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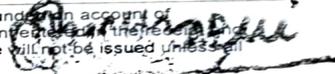
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A/C Clerk


 Principal

BY: P11500005/11



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Ref: GES/RHSCOEMSR/CIVIL/2020-21/

Date: 11-08-2021

GES / RHSCOEMSR / 108 / 2021-22

MATERIAL TESTING REPORT

Name of Work: - Mix Design of Concrete Grade M:20 & M:25

Location: - Khadak Malegaon (Gat No.87/3)

Name of the client: - Mr.M.R,Mahajan

[A] DATA SUPPLIED: (By Client)

- | | |
|---|---------------------------------------|
| (1) Grade of Concrete | : M:20 & M:25 |
| (2) Degree of workability (slump) | : Not mentioned |
| (3) Type of Cement | : OPC-53 Grade (Birla Shakti Cement). |
| (4) Minimum Cement Content per m ³ | : Not mentioned |
| (5) Type of sand | : Stone Crush |
| (6) Maximum Size of Coarse Aggregate | : 20 mm |

[B] PROPERTIES OF MATERIAL:

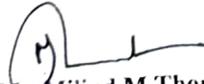
The properties of Cement, Fine aggregates and Coarse aggregates have been determined as per relevant IS codes.

Sr. No.	Test Name	Result	Range	Conclusion	Remarks
1.	Fineness of Cement	3.0 %	Should not more than 10%.	It satisfies the criterion as specified by IS code.	As per IS: 4031 (Part-1) - 1988 fineness of cement should not be more than 10%.
2.	Consistency of Cement	32.0 %	26-33%	It satisfies the criterion as specified by IS code.	As per IS: 4031 (Part-1) - 1988 consistency of cement should be in the range of 26-33%.
3	Moisture Content of Fine Aggregate	2.85%	0-5%	Found Satisfied	--

Sr. No.	Test Name	Result	Range	Conclusion	Remarks
4.	Fineness Modulus of Fine Aggregate (Sand)	4.05	i. Fine sand - 2.2-2.6 ii. Medium sand - 2.6-2.9 iii. Coarse sand - 2.9 - 3.2	Sand having a fineness modulus more than 3.2 will be unsuitable for making satisfactory concrete.	To make satisfactory concrete please use finer type crushed sand.
5.	Specific Gravity of Coarse Aggregate	2.58	2.5-3	It satisfies the criterion as specified by IS code.	IS 2386-part-III 1963 (2002)
6.	Water Absorption of Coarse Aggregate	1.57%	0.1-2%	The maritime code BS 6349 specifies that water absorption should not exceed 3%.	IS 2386-part-III 1963 (2002)
7.	Fineness Modulus of Coarse Aggregate	7.45	5.5 - 8	The value of Fineness Modulus is higher so it indicates the higher particle size is available in coarse aggregate.	From the sieve analysis of Coarse aggregate it was observed that the coarse aggregate is over sized so please take care for Concrete Cover. IS 383:1970 (2002)
<p>Note: 1. This report, in full or in part, shall not be published. This testing report is valid only for the sample provided by the client.</p>					

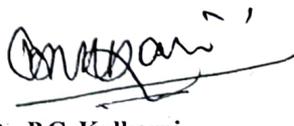
The report is based on particular samples of cement, sand and coarse aggregates submitted by the client for mix proportion.

This certificate or report may not be published for commercial purpose except in full or part unless permission for the publication of an approved report has been obtained from the Principal GES RHSMS&R Nashik.


Mr. Milind M. Thombre
Consultancy
In-charge

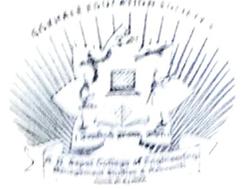

Mr. Nilesh Masne
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Date: 11-08-2021

GES / RASCOENGR
 Report for : Report for Mix Design of Concrete Grade M :20 & 25
 Client : Mr.M.R.Mahajan
 Project : Khadak Malegaon (Gat No.87/3)
 Ref : Your letter dated

**INTERIM REPORT FOR MIX DESIGN
 (Based on 7 days Strength)
 of
 Concrete Grade M: 20 & 25**

The tentative mix proportion for the mix design referred by you is given below based on 7 days strength of mix trails. Tentative proportion for M: 20 &25 grade of concrete.

**1. M: 20 CONCRETE GRADE MIX DESIGN (Birla Shakti OPC 53 Grade Cement)
 Recommended Concrete Mix Proportion for M - 20 (By Weight) :**

Cement	Water	Sand	Coarse Aggregate (all in size)
365kg	189.8 Ltr.	725kg	1125 kg

Slump observed = 25-50mm,

W/C = 0.52

Compressive Strength (N/mm²)

Sr. No.	7 Days
1.	18.91
2.	17.68
3.	18.53

**2. M: 25 CONCRETE GRADE MIX DESIGN (Birla Shakti OPC 53 Grade Cement)
 Recommended Concrete Mix Proportion for M - 25 (By Weight) :**

Cement	Water	Sand	Coarse Aggregate (all in size)
385kg	196.3 Ltr.	710kg	1110 kg

Slump observed = 25-50mm,

W/C = 0.51

Compressive Strength (N/mm²)

Sr. No.	7 Days
1.	19.30
2.	19.46
3.	19.60

NOTE: (1) The above proportion is based on 7 days compressive strength of concrete.
 (2) If required minor correction may be made after achieving 28 days strength.

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 In-charge

Mr. N.S. Masne
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11-08-2021
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Ref: GES/RHSCOEMSR/CIVIL/2020-21/ 103

Date: 11.08.2021

GES / RHSCOEMSR /

Civil Engineering Department

Testing and consultancy cell

TMT BAR TESTING REPORT

Name of Work : - Testing of Material
Location : - Gat No. 87/3 Khadak Malegaon, Nashik
Name of the client : - M.R Mahajan, Nashik

Sr. No.	d ₀ (mm)	L ₀ (mm)	L ₁ (mm)	Ultimate Load (kN)	Ultimate Tensile strength N/mm ²	Yield Strength N/mm ²	% Elongation	Specifications As per IS-1786:2008	Remark
1	08	40	51.5	41.78	830.26	580	28.75	1. Min. Elongation = 12 % 2. Ultimate Strength = 545 N/mm ² 3. Yield Strength = 500 N/mm ²	Test Conducted as per As per IS 1608 : 2005
2	10	50	65	65.3	831.42	582	30		
3	12	60	73	103.4	914.25	640	21.66		
4	16	80	107	166.4	827.60	580	33.75		
5	20	100	143.3	255.2	812.32	568	43.3		

Note: 1. The tested material is satisfying the specification as given by IS-1786:2008 and hence found to be adequate for the use of construction purpose.
Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by the client.

Abbreviations:

d₀ = Diameter of specimen
L₀ = Gauge length
L₁ = Gauge length after fracture


Mr. Pankaj Pagare

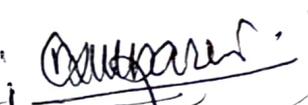
Consultancy In-charge


Mr. M.M Thombre

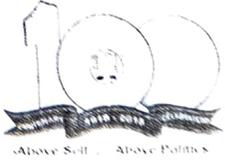
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GES / RHSCOEMSR / $\frac{23}{18}$

12024-22

Date: 24.06.2021

Civil Engineering Department
Testing and consultancy cell

CBR Soil Testing Report

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.

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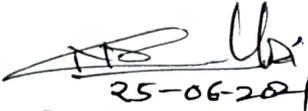
Sr. No.	Test Name	Result	Range	Conclusion	Remarks
1.	California Bearing Ratio	CBR=10.92 %	Clay- 2% Sand from - 7% (poorly graded) to 10% (well graded),well graded sandy gravel - 15% Claye sand 5-20, silty gravel 20-60%, gravel from 30-60%poorly graded to 40-80% if well graded.	Well graded sandy gravel	As per IS: 2720 part 16-1987

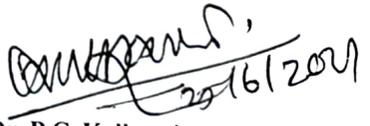
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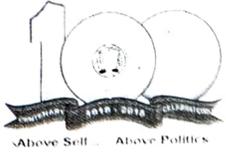

Mrs. Shilpa M.Kale
Test Conducted By


25-06-2021
Dr. N.D. Chaudhari
Prof & Head of Civil
Dept.


25/6/2021
Dr. P.C Kulkarni
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12021-22

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Note: 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work/construction. Back filling material should be rubble soling and well compacted

Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

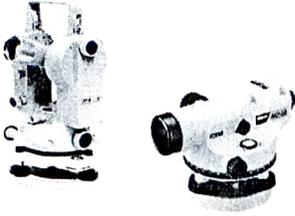

Mr. Pankaj Pagare
Consultancy Cell
In-charge


Mrs. Shilpa M. Kale
Test Conducted By


Dr. N.D. Chaudhari
Prof & Head of Civil
Dept.


Dr. P.C. Kulkarni
Principal





Mob. No. +91 9890815240
7588702642

BHOGE ENTERPRISES
Surveying, Scientific & Mathematical
Instrument Supply, Repairing & Calibration.
GST No 27ANHPB6251G1Z7

Ref No. BE/QT/21-06-129

Date : 16.06.2021

QUOTATION

To,
The principal,
R.H. Sapat College of Engineering Management studies & Research, Nashik.
Sub : Quotation for Calibration proving ring for CBR machine 10KN.

SR. NO.	Description	(Nos)	RATE (RS)	Amount
1.	Calibration of Proving ring 10KN for CBR machine.	1	2,970/-	2,970/-
			Total	2,970/-
			Add GST 18%	535/-
			Grand Total	3,505/-

Note :

1. Payment 100% advance against PI.
2. Work done within 2-3 days after confirmation of order
3. This quotation is valid for 30 days.

For BHOGE ENTERPRISES

Received Ring
+ calibrated
15-7-2021

AK
Photo the needful
ⓐ

Office : "Avantika", B/H Pokar Colony, Gayatri Nagar, Dindori Road, Nashik - 422004

E-mail – rakesh.bhoge@rediffmail.com , bhogeenterprises@gmail.com

Phone No. +91 253 2530820, Mob.: +91 9890815240



Bhoge Enterprises

Avantika, Behind Pokar Colony, Gayatri Nagar,
Dindori Road, Nashik - 422004

GSTIN: 27ANHPB6251G1Z7

Mobile: 9890815240

TAX INVOICE

ORIGINAL FOR RECIPIENT

Invoice Number

BE-TI- 20/ 87

Invoice Date

21/06/2021

BILL TO

R.H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES &
RESEARCH, NASHIK

College Road, Nashik

SHIP TO

R.H. SAPAT COLLEGE OF ENGINEERING
MANAGEMENT STUDIES & RESEARCH, NASHIK

College Road, Nashik

S.No.	ITEMS	QTY.	RATE	TAX	AMOUNT
1	Proving ring Calibration CBR machine 10KN proving claibration	1.0 PCS	2970	534.6 (18.0%)	3504.6

TOTAL 1 ₹534.6 ₹3504.6

BANK DETAILS

Name: Bhoge Enterprises
IFSC Code: HDFC0009255
Account No: 50200053104834
Bank & Branch Name: HDFC Bank, MHASRUL

TAXABLE AMOUNT	₹2970
SGST@9	₹267.3
CGST@9	₹267.3
Round Off	₹0.4
TOTAL	₹3505
Received Amount	₹3505
Balance	₹0

Invoice Amount (in words)

Three Thousand Five Hundred Five Rupees

BHOGE ENTERPRISES
"Avantika", Gayatri Nagar
B/H. Pokar Colony
Dindori Road Nashik

Authorized Signature for Bhoge Enterprises

TOTAL

1

₹534.6

₹3504.6

BANK DETAILS

Name: Bhoge Enterprises
IFSC Code: HDFC0009255
Account No: 50200053104834
Bank & Branch Name: HDFC Bank ,MHASRUL

TAXABLE AMOUNT

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SGST@9

₹267.3

CGST@9

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Round Off

₹0.4

TOTAL

₹3505

Received Amount

₹3505

Balance

₹0

Invoice Amount (in words)

Three Thousand Five Hundred Five Rupees

BHOGE ENTERPRISES

"Avantika", Gayatri Naga
B/H. Pokar Colony
Mandori Road Nashik



Authorised Signature for Bhoge Enterprises

Gokhale Education Society's



Affiliated to Savitribai Phule Pune University, Pune
Recognized by Govt. of Maharashtra
Approved by AICTE, New Delhi & DIT (M.S.), Mumbai
NAAC Accredited B++ • ISO 9001 : 2015 Certified College



GES / RHSCOEMSR / 545/2021-22

Date: 22.02.2022

Ref: GES/RHSCOEMSR/CIVIL/2021-22/

CEMENT CONCRETE PAVER BLOCKS TEST

To,
The Director
Aditya Associates Engineers
and contractors, Nashik

Ref: As per your P.O Letter, Dated: 21.02.22

Subject: - Cement concrete paver block test report

Dear Sir,
Please find the test results for the concrete paver block samples provided by you. The test was conducted on 22/02/2022. We have received the testing charges of Rs 1800/-, Eighteen hundred only, (Cheque No: 12095580), dated 21-02-2022. We have well equipped labs in material testing and surveying. We look forward to provide testing and consultation to your firm in future.

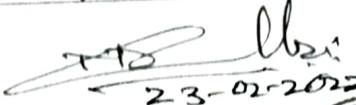
Testing of Compressive Strength of Paver Block.

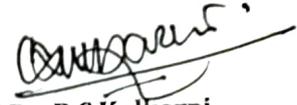
Sr. No	Designation	Color	Crushing Load (kN)	Compressive Strength (N/mm ²)	% Water Absorption
1.	R-1	Red	965	48.25	-
2.	R-2	Red	1081	54.05	-
3.	R-3	Red	996	49.80	-
4.	G-1	Grey	971.7	48.58	-
5.	G-2	Grey	1000	50.00	-
6.	G-3	Grey	1000	50.00	-

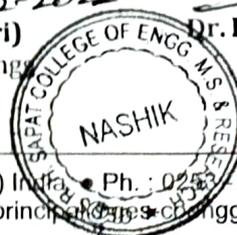
Ref- IS.15658.2006

Note: This report, in full or in part, shall not be published, advertised, used for any purpose without prior permission from Principal of this institute. This report is valid only for the sample tested.


22.2.22
(Mr. P.N. Pagare)
Consultancy In-charge


23-02-2022
(Dr. N.D. Chaudhari)
Prof. & Head, Civil Engg.


Dr. P.C. Kulkarni
Principal





ADITYA ASSOCIATES

Engineers and Contractors

building trust!

Girish V. Kangane

Contact : 9422750077

girishkangane@yahoo.com

Off. : 1, Morya, Sanskriti Hsg. Soc., Ganesh Nagar, Tapovan Link Road, Katta Galli, Dwarka, Nashik - 422011

Date: 21.02.2022

To
The Principal,
Gokhale Education Society's
R. H. Sapat College of Engineering
Nashik - 422005.

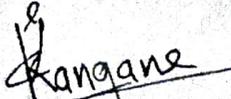
Subject: Purchase Order for Paver Block Testing

Dear Sir,

We have been working on site for Construction of Petrol Pump at Mahiravani, Dist. Nashik, for Hindustan Petroleum Corporation Limited. We need the Paver blocks to be tested for Compression. Samples for the same are given with this letter. We kindly request you to test the samples and provide us the compression test report.

Regards,

ADITYA ASSOCIATES


PARTNER



डीपली नगर, नासिक - 422 009
 Deepali Nagar, Nasik - 422 009
 IFS Code : UBIN0550434

VALID FOR 3 MONTHS FROM THE DATE OF ISSUE
 दिनांक DATE 2-1-02 2022
 5 D M Y

1JH93
 या धारक को OR BEARER

PAY
 ₹ 1800/-
 अदा करें।
 ₹ 1800/-

रुपये RUPEES One Thousand Eight Hundred

खाता नं. A/c No. 504301010032547
 चेक नं. Cheque No. 12095580

For ADITYA ASSOCIATES

Aditya Associates
 Partner

PLEASE SIGN ABOVE THIS LINE

भारत की सभी शाखाओं में समस्त पाठ्य
 PAYABLE AT PAR AT ALL OUR BRANCHES IN INDIA

⑈095580⑈ 422026006⑈ 504312⑈ 29

Add : 'Jai Malhar' Bungalow, Opp. Vanaraj Soc.

Ravindra Marg, Dwarka, Nashik-11.

Mobile : +91-9561177456.

Email : sadanandbuildcon@yahoo.com.



Sadanand
Building Planner & Interior Designer

**Buildcon &
Consultant**

Date :- 12-05-2022

To,

The Head of Department

Civil Engineering Department

R.H. Sapat Collage of Engineering

Nashik

Subject :- Soil Testing Report of Extension of Pump House and Security Cabin For HP LPG Plant @Manegaon MIDC Sinnar, Nashik

Dear Sir,

As per Above Subject Mentioned Subject, Kindly Provide Your Services For Soil Testing Report of Extension of Pump House and Security Cabin For HP LPG Plant @Manegaon MIDC Sinnar, Nashik

*Forwarded to Resp Principal Sir,
RHS
12-5-2022*

Your Truly,

Er. Rohan B. Ghughe
Sadanand Buildcon and Consultant



Rohan B. Ghughe

Ref. No. GES/Civil/Testing/21-22/

Date: - 13.05.2022

To,

Sadanand Buildcon & Consultant

Ravindra Marg, Dwarka,

Nashik - 422011

Maharashtra

Subject: - Soil testing Charges**Reference: - Your Letter ... Dated 12/05/2022**

Dear Sir,

With reference to your letter cited above, please find below the charges of soil test conducted:

Sr. No	Name of Test	Rate (Rs.)	Remark
1.	Sieve Analysis	690.00	1 test
2.	Liquid limit & plastic Limit	1170.00	1 test
3.	Compaction Test (Proctor Density)	1860.00	1 test
4.	Field Density by Sand replacement method	1115.00	1 test
5.	C.B.R. Test (Lab) With compaction test	6905.00	1 test
Total =		11740.00	

Receipt No		
Advance Amount	11740.00	In word: Rs. Four thousand five hundred fifty only.
Amount	11740.00	In word: Rs. Four thousand five hundred fifty only.
Total (Excluding TADA)	11740.00	In word: Rs. Four thousand five hundred fifty only.

Mr. Pankaj Pagare
Consultancy
In-charge

Mr. Nilesh Masne
Lab In-charge

Dr. N.D. Chaudhari
Prof & Head of Civil
Dept.

Dr. P.C Kulkarni
Principal



Gokhale Education Society's
R. H. Sapat College of Engineering
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NAAC Accredited B++ • ISO 9001 : 2015 Certified College



GES / RHSCOEMSR /

Ref. No. GES/Civil/Testing/21-22/ 3 A

Date: - 13.05.2022

To,

Sadanand Buildcon & Consultant
Ravindra Marg, Dwarka,
Nashik - 422011
Maharashtra

Subject: - Soil testing Charges

Reference: - Your Letter ... Dated 12/05/2022

Dear Sir,

With reference to your letter cited above, please find below the charges of soil testing

Sr. No	Name of Test	Rate (Rs.)	Remark
1.	Sieve Analysis	690.00	1 test
2.	Liquid limit & plastic Limit	1170.00	1 test
3.	Compaction Test (Proctor Density)	1860.00	1 test
4.	Field Density by Sand replacement method	1115.00	1 test
5.	C.B.R. Test (Lab) With compaction test	6905.00	1 test
Total =		11740.00	

Receipt No	
Advance Amount	11740.00 (Rs. Eleven thousand seven hundred forty only.)
TA DA will be additional	


19-5-22
Mr. Pankaj Pagare
Consultancy
In-charge


Mr. Nilesh Masne
Lab In-charge


13-5-2022
Dr. N.D. Chaudhari
Prof & Head of Civil
Dept.


Dr. P.C. Kulkarni
Principal



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GES / RHSCOEMSR /

Date: - June 17, 2022

To,

The Director
Rajhans Construction Company,
Nashik

Subject: - Concrete Cube testing Charges

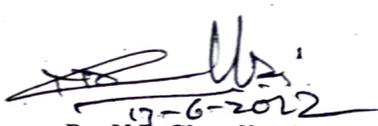
Dear Sir,

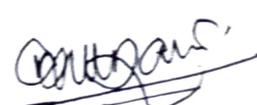
Please find below the charges of concrete cube testing

Sl. No	Name of Test	Specimen Id	Charges in Rupees	Unit	Amount
1	28 Days Compressive Strength	Raft Pour 3	₹ 620.00	Per Set	₹ 620.00
2	7 Days Compressive Strength	Retaining wall C111 to C80	₹ 620.00	Per Set	₹ 620.00
3	28 Days Compressive Strength	Retaining wall C111 to C80	₹ 620.00	Per Set	₹ 620.00
				Total	₹ 1860.00
Rs. Eighteen hundred sixty only					


Mr. Pankaj Pagare
Consultancy In charge


Mr. A.A Burkule
Tested by


Dr. N.D Chaudhari
Head of Department


Dr. P.C Kulkarni
Principal


Rajhans Construction



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GES / RHSCOEMSR /
Ref: GES/RHSCOEMSR/CIVIL/2021-22/

Date: 17th June 2022

Civil Engineering Department
Testing and consultancy cell
SOIL TESTING REPORT

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bungalow, Opp. Vanaraj Soc., Dwarka, Nashik, Maharashtra (422011)

Sample 1- Near Security Cabin

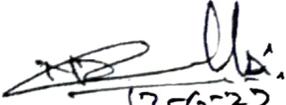
Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 6$ $C_c = 0.8$	$C_u > 6$ Sand type $C_c 1-3$ Well graded	Gap Graded Sandy Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	35.00 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3	Plasticity index of soil	9.62	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Non- Plastic Sand,	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.1 g/cc & 1.46 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is Good	Sand Replacement Method
5.	OMC & MDD of Soil	18.5 % & 1.54 g/cc	1.1 g/cc to 1.6 g/cc	As sand is mixed with gravel, MDD value may be higher than the stated value	Standard Proctor Test IS 2720-8 (1983)
6.	CBR Test	5.89	Clay- 2% Poorly graded sand - 7% Well graded sand -10% Well graded sandy gravel- 15%	Gap graded soil with gravel	IRC-37 Spec

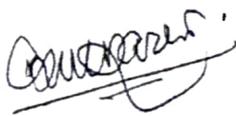
Note 1: The tested soil sample is showing gap graded sandy type soil, so it is recommended to replace the soil, if possible, and the foundation should place on hard strata.

Note 2: This report, in full or in part, shall not be published. This report is based on the sample provided by the client.


Mr. Pankaj Pagare
Consultancy
In-charge


Mr. Nilesh Masne
Lab In-charge


Dr. N.D. Chaudhari
Prof & Head of Civil Dept.


Dr. P.C Kulkarni
Principal



GES / RHSCOEMSR / EMSR / CIVIL / 2021-22/

Date: 17th June 2022

Civil Engineering Department
Testing and consultancy cell
SOIL TESTING REPORT

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp. Vanaraj Soc., Dwarka, Nashik, Maharashtra (422011)

Sample 2- Near filling Plant

Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 4.00$ $C_c = 1.0$	$C_u > 4$ Gravel type C_c 1-3 Well graded	Well Graded Gravel Type Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	44.00 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3	Plasticity index of soil	4.21	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Non- Plastic Sand,	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.29 g/cc & 1.52 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is low	Sand Replacement Method
5.	OMC & MDD of Soil	22.5 % & 1.6 g/cc	1.1 g/cc to 1.6 g/cc	As sand is mixed with gravel, MDD value is 1.6g/cc	Standard Proctor Test IS 2720-8 (1983)
6.	CBR Test	5.46%	Clay- 2% Poorly graded sand - 7% Well graded sand -10% Well graded sandy gravel- 15%	Gap graded soil with gravel	IRC-37 Spec.

Note 1: The tested soil sample showing mix properties, so it is recommended to replace the soil, if possible and the foundation should place on hard strata.

Note 2: This report, in full or in part, shall not be published. This report is based on the sample provided by client.

Mr. Pankaj Pagare

Consultancy
In-charge

Mr. Nilesh Masne

Lab In-charge

Dr. N.D. Chaudhari

Prof & Head of Civil Dept.

Dr. P.C Kulkarni

Principal