



McCARTHY

• Builders • Designers

Date: 09.12.2019

To

The Principal,
Indra Ganesan College of Engineering,
Manikandam,
Trichy- 620 012

Dear Sir/Madam,

Subject: Enquiry Regarding consultancy work brochure - Field Density Test

We require Field Density Test. Kindly provide us with your budget for the consulting project work mentioned above. Please feel free to contact us at your convenience to discuss this matter further or to schedule a meeting.

For McCARTHY

D.AUGUSTUS MANIMARAN

Engineer

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



20.12.2019

Trichy

To

McCARTHY Builders & Designers
N0.6, III Floor, Near Vasan Medicals
15-A, Colony Main Road, Thillainagar
Trichy-18

Respected Sir,

Sub: Submission of consultancy work quotation- Reg.

Greetings from Indra Ganesan College of Engineering!!!


We thank you for considering our consultancy work brochure and we received your requirements about Field Density Test. In this connection, we would like to inform you that the consultancy charges for the following test is furnished here.

S.No	NAME OF THE TEST	CHARGES (IN Rs.)
1	Moisture Content	2500
2	Average Compaction	
	TOTAL	2500

We request you to kindly consider the above proposed consultancy charges and we are eagerly awaiting for your kind sanction of the consultancy work.


PROJECT INVESTIGATOR




Dr. S. BHARATHI RAJA
PRINCIPAL

Madurai Main Road,
NH-45B, Manikandam
Tiruchirapalli – 620 012
Tamil Nadu, South India


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
Trichy-12

Mobile : 85086 88845
Phone : 0431 2906565
Web : www.igceng.in
igceprincipal@gmail.com



McCARTHY

• Builders • Designers

Date: 06.01.2020

To

The Principal,
Indra Ganesan College of Engineering,
Manikandam,
Trichy-620 012

Dear Sir/ Madam,

Subject: Sanctioned Amount – Field Density Test

We wish to bring to your kind notice that our company hereby has sanctioned an amount of **Rs.2500/-**, out of the quoted budget for the Field Density Test for a concerned period.

Based on our terms and conditions, the work order and payment will be sanctioned. Please proceed your work further progress, as early as possible.

For McCARTHY

D.AUGUSTUS MANIMARAN

Engineer

Dr. G. Balakrishnan, M.E., Ph.D.

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CONSULTANCY PROJECT ENDOWMENT REPORT

FIELD DENSITY TEST

**SUBMITTED
TO**

**McCARTHY Builders & Designers
No.6, III Floor, Near Vasan Medicals
15-A, Colony Main Road, Thillainagar
Trichy-18**

Delivery Date: 09.01.2020

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

CONSULTANCY REPORT

Date of Casting: 06.01.2020

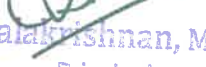
Date of Testing: 09.01.2020

Name of the Test: Field Density Test

Test Conducted: Mr. K.SARAVANAN

Sample No.		1	2	3	4	5	6	7	8	9
Wt. of core cutter (W1)	(g)	975	975	975	965	975	975	975	965	975
Wt. of core cutter+ wet soil (W2)	(g)	3097	3127	3120	3145	3130	3155	3144	3150	3130
Wt. of wet material (Ww=W2-W1)	(g)	2122	2152	2145	2180	2155	2180	2169	2185	2155
Volume of core cutter (V3) $(\frac{\pi}{4 \times d^2 \times h})$	(cc)	1022	1022	1022	1022	1022	1022	1022	1022	1022
Bulk density of material (Yb=(Ww/V3))	(g/cc)	2.076	2.106	2.099	2.133	2.109	2.133	2.122	2.138	2.109
MOISTURE CONTENT (By Rapid Moisture meter method)										
Rapid moisture meter reading	%	10.5	11	11	11	10	10.5	11.5	11	10
Moisture content Mc= (m)/100 x Ydmd	%	11.73	12.36	12.36	12.36	11.11	11.73	12.99	12.36	11.11
RESULTS										
Field max. dry density (Yd= $100 \times Yb / (100 + Mc)$)	(g/cc)	1.858	1.874	1.868	1.90	1.90	1.91	1.88	1.90	1.90
Compaction obtained (100 x Yd/Ymdd)	(%)	95.79	96.60	96.29	97.36	97.32	96.90	96.32	97.58	97.32
Average compaction	(%)	96.23			97.53			97.07		


TEST CONDUCTED


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


PRINCIPAL
Dr.S.BHARATHIRAJA



09.01.2020

Trichy

UTILIZATION CERTIFICATE

Certified that an amount of **Rs 2500/- (Two Thousand Five Hundred only)** sanctioned during the year **2019-20** in favor of civil engineering received from **McCARTHY Builders & Designers** has been utilized for the recommended project consultancy work titled **"Field Density Test"**. The purpose for which it was sanctioned has been duly fulfilled and delivered as per the conditions of the grant.

PROJECT INVESTIGATOR



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Madurai

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PRINCIPAL

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