



McCARTHY

• Builders • Designers

Date: 18.07.2022

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. To satisfy our needs, kindly give us your budget for consulting project work, i.e., to determine the optimal combination of Rapid moisture content, bulk density, average compaction. 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

Dr. V.S. Thangarasu M.E., M.B.A., Ph.D.
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH 55B), Manikandam, Trichyappalli - 620012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NARC Accredited, 2(F) Status: Institution by UGC



29.07.2022

To

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

Respect Sir/Madam,

Sub: Submission of consultancy work quotation- Reg.

Greetings from Indra Ganesan College of Engineering!!!

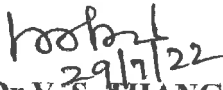
We thank you for considering our consultancy work brochure and we received your requirements about Field density test. In this connection, we would like to inform you that the consultancy charges for the following test is furnished here.

S.NO	TYPE OF TEST	CHARGES (IN Rs.)	UNIT
1	Field density test	2500	1
	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. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


29/7/22
Dr. V. S. THANGARASU
PRINCIPAL



McCARTHY
• Builders • Designers

Date: 05.08.2022

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 testing of 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 Vasanth Medicals
15-A, Colony Main Road, Thillainagar
Trichy-18**

Delivery Date: 22.08.2022


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: 05.08.2022

Date of Testing: 22.08.2022

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)	3125	3133	3152	3147	3128	3155	3129	3150	3155
Wt. of wet material (Ww=W2-W1)	(g)	2150	2158	2177	2182	2153	2140	2154	2185	2180
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)	2.104	2.112	2.130	2.135	2.107	2.094	2.108	2.138	2.133
MOISTURE CONTENT (By Rapid Moisture meter method)										
Rapid moisture meter reading	%	10.5	10	11.5	11	10	10.5	11	11.5	11
Moisture content Mc= (m)/100 x Ydmd	%	11.73	11.11	12.99	12.36	11.11	11.73	12.36	12.99	12.36
RESULTS										
Field max. dry density (Yd= $100 \times Yb / (100 + Mc)$)	(g/cc)	1.88	1.90	1.89	1.90	1.90	1.87	1.88	1.89	1.90
Compaction obtained (100 x Yd/Ymdd)	(%)	95.56	97.46	96.68	97.44	97.23	96.11	96.19	97.03	97.36
Average compaction	(%)	96.90			96.93			96.86		

Kaleraja
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. V.S. THANGARASU

Dr. V.S. Thangarasu M.E., M.B.A., Ph.D.
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH 45R), Manikandam, Trichirappalli - 620017
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



22.08.2022

UTILIZATION CERTIFICATE

Certified that an amount of **Rs 2500/- (Two Thousand Five Hundred Only)** sanctioned during the year **2022-23** 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
Manikandam, Trichy-620 012.


22/8/22
Dr. V. S. THANGARASU
PRINCIPAL