



G Construction

98427 82531
90958 94152

Er. G.Sundar
Managing Director

15.07.2021

Trichy

To


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

Dear Sir/Madam,


Subject: Enquiry regarding consultancy work brochure – Sieve Analysis Test

We received your college consultancy work brochure. We need your faculty member assistance in Sieve Analysis Test. We would like to receive the proposal for this work.

For G CONSTRUCTION


Er. G. SUNDAR
G-6, JB TOWERS
KARUR BYE PASS ROAD
CHATHIRAM BUS STAND
TRICHY-2. Mob: 9842782531

G.SUNDAR


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

● Plan ● Estimate ● Elevation ● Valuation

41 / A, A Block, G Floor, Room No.G6, J.B. Tower, West Chinthamani,
Karur Bye Pass Road, Near Chathiram Bus Stand, Trichy - 620 002, Tamilnadu. Email: trichygconstruction@gmail.com



23.07.2021

To

G Constructions
G-6, JB Towers, Karur Bye Pass Road
Chathiram Bus Stand
Trichy-02

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 Sieve Analysis 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	Sieve Analysis Test	2000	1
	TOTAL	2000	

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

Thanking you

S. Vinatha

PROJECT INVESTIGATOR



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

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

S.B.R.

Dr. S.BHARATHIRAJA
PRINCIPAL

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

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igceprincipal@gmail.com



G Construction

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Er. G.Sundar
Managing Director

30.07.2021

Trichy

To

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

Dear Sir/Madam,

Subject: Sanctioned Amount - Sieve Analysis Test.

We are satisfied with your quotation for the estimation of Sieve Analysis Test and on negotiation **we grant Rs.2000 towards** the consultancy work on submission of the proposed work.

For G CONSTRUCTION

Er. Sundar
Er. G. SUNDAR
G-6, JB TOWERS
KARUR BYE PASS ROAD
CHATHIRAM BUS STAND
TRICHY-2. Mob: 9842782531

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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

SIEVE ANALYSIS TEST

SUBMITTED

TO

G Constructions

G-6, JB Towers

Karur Bye Pass Road

Chathiram Bus Stand

Trichy-02

Delivery Date: 06.08.2021


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: 30.07.2021

Date of Testing: 06.08.2021

Test conducted : Sieve Analysis Test

Mass of soil = 3.00kg

Sieve size	Weight Retained (In kg)	Cumulative weight retained (In kg)	Cumulative % retained	Cumulative % passing
80mm	0	0	0	100.00
40mm	0	0	0	100.00
20mm	1.640	1.519	29.380	68.610
10mm	1.285	4.963	99.250	0.710
4.75mm	0.075	3.000	100.000	0.000
2.36mm	0.000	3.000	100.000	0.000
1.18mm	0.000	3.000	100.000	0.000
600 micron	0.000	3.000	100.000	0.000
300 micron	0.000	3.000	100.000	0.000
150 micron	0.000	3.000	100.000	0.000
TOTAL	3.000		717.64	

Fineness Modulus= 717.64/100 =7.17

Calculations:

1kg of Fine aggregate and 3kg of Coarse aggregate

For Fine Aggregate:

Sieve size	Weight Retained (gm)	Weight Retained (%)	Cumulative Retain (%)	Cumulative passing %	Specification Limit (%)
4.75	130.5	28.1	13	81	95-100
2.00	163.5	16.4	40	70	80-100
1.00	107.5	10.8	30	60	50-85
0.6	217	13.8	62	35	25-60
0.3	226.5	22.7	85	15	10-30
0.15	107.5	10.8	96	4	2-10
Pan	44	4.4	100	0	
Σ =	996.5	100.00	-	-	-

Error between Total retained weight and original sample weight is:

Handwritten signature

$$\text{Error} = 1000 - 996.5 / 1000 \times 100 = 0.35 \%$$

The **Fineness Modulus** is:

$$\text{F.M} = 13 + 20 + 40 + 62 + 85 + 96 + 100 / 100 = 3$$

Therefore from (F.M), the **Average size** of our sample is (0.5mm)

For Coarse Aggregate:

Sieve size	Weight Retained (gm)	Weight Retained (%)	Cumulative Retain (%)	Cumulative passing %	Specification Limit (%)
37.5	0	0.0	0	100	95-100
19	825.5	27.5	29	72.5	35-70
13.2	1603.5	53.5	80	19	-
9.5	461.5	15.6	97	3.5	10-30
4.75	93.5	3.3	100	0	0-5
Pan	4.5	0.2	100	0	-
$\Sigma =$	2988.5	100.00	-	-	-

The **Error** between Total retained weight and original sample weight is :

$$\text{Error} = 1000 - 996.5 / 1000 \times 100 = 0.35 \%$$

And the maximum size which sieve is coarse than sieve that retain 15% is (14.3mm)

E. Vinodh
TEST CONDUCTED

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

[Signature]
Dr.S.BHARATHIRAJA
PRINCIPAL



06.08.2021

Trichy

UTILIZATION CERTIFICATE

Certified that an amount of **Rs 2000/- (Two Thousand Only)** sanctioned during the year **2021--2022** in favor of civil engineering received from **G Constructions** has been utilized for the recommended project consultancy work titled **"Sieve Analysis Test"**. The purpose for which it was sanctioned has been duly fulfilled and delivered as per the conditions of the grant.

E. Vinodh

PROJECT INVESTIGATOR



Dr. G. Balakrishnan
Principal

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

Dr. S. Bharathiraja

Dr.S.BHARATHIRAJA
PRINCIPAL