



# G Construction

98427 82531  
90958 94152

Er. G.Sundar  
Managing Director

04.08.2020

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. Kindly reply this letter and to collaborate further process for consultancy work in future.

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.E., Ph.D.**  
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



13.08.2020

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.

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.)
1	Sieve Analysis Test	2000
	<b>TOTAL</b>	<b>2000</b>


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

  
PROJECT INVESTIGATOR



  
Dr. S. BHARATHI RAJA  
PRINCIPAL

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

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

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Web : www.igceng.in  
igceprincipal@gmail.com



# G Construction

98427 82531  
90958 94152

Er. G.Sundar  
Managing Director

27.08.2020

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**

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

**G.SUNDAR**

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

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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: 03.09.2020**

  
**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: 27.08.2019

Date of Testing: 03.09.2020

Test conducted: Sieve Analysis Test

Weight of the sample taken= 5.00 kg

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	1.519	1.519	30.380	69.620
10mm	3.444	4.963	99.260	0.740
4.75mm	0.037	5.000	100.000	0.000
2.36mm	0.000	5.000	100.000	0.000
1.18mm	0.000	5.000	100.000	0.000
600 micron	0.000	5.000	100.000	0.000
300 micron	0.000	5.000	100.000	0.000
150 micron	0.000	5.000	100.000	0.000
<b>TOTAL</b>	<b>5.000</b>		<b>729.64</b>	

Fineness Modulus=  $729.64/100 = 7.30$

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	13.1	13	81	95-100
2.36	167.5	16.8	30	70	80-100
1.18	103.5	10.4	40	60	50-85
0.6	217	21.8	62	38	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	-
$\Sigma =$	<b>996.5</b>	<b>100.00</b>	-	-	-

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

Indra Ganesan College of Engineering  
IG Valley, Madurai Main Road  
Manikandam, Tirunelveli-625 002

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

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

The **Fineness Modulus** is:

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

Therefore from (F.M), the **Average size** of our sample is (0.6mm)

**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	28	72.5	35-70
13.2	1603.5	53.5	81	19	-
9.5	466.5	15.6	97	3.5	10-30
4.75	98.5	3.3	100	0	0-5
Pan	4.5	0.2	100	0	-
$\Sigma =$	<b>2998.5</b>	<b>100.00</b>	-	-	-

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

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

And the maximum size which sieve is coarse than sieve that retain 15% is (13.3mm)

*V. Sivasamy*  
**TEST CONDUCTED**

*S. Bharathiraja*  
**Dr. S.BHARATHIRAJA**  
**PRINCIPAL**

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



03.09.2020

Trichy

**UTILIZATION CERTIFICATE**

Certified that an amount of **Rs 2000/- (Two Thousand Only)** sanctioned during the year **2020--2021** 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.

PROJECT INVESTIGATOR



Dr.S.BHARATHIRAJA  
PRINCIPAL

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

Principal

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