

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE & Affiliated to Anna University, Chennai)

Accredited with 'A' Grade by NAAC, Accredited by TCS

Accredited by NBA with BME, ECE & EEE

PERAMBALUR - 621 212, Tamil Nadu.

website : www.dsengg.ac.in



Department of Civil Engineering

Rate for Material and Testing Services

Rates include GST (unless otherwise specified) Effective from Jan 2023

(Department of Civil Engineering reserves the right to change at any time without any prior notice)

Contact Person Dr.S.Gopinathan, HOD Civil Engineering

Mobile No:9442441168

Office Time: Mon to Fri (9.00 am-5.00 Pm)

Sand Samples

| S. No. | Test | Sample Qty. | Rate, Rs./- |
|--------|------------------------------|-------------|-------------|
| 1 | Sieve Analysis | 15 Kg. | 1000 |
| 2 | Fineness Modulus | 15 Kg. | 1000 |
| 3 | Silt Content | 15 Kg. | 1000 |
| 4 | Moisture Content | 15 Kg. | 1000 |
| 5 | Liquid Limit & Plastic Limit | 15 Kg. | 1000 |
| 6 | Specific Gravity | 15 Kg. | 1000 |
| 7 | Bulk Density | 15 Kg. | 1000 |
| 8 | Silt and Clay content | 15 Kg. | 1000 |
| 9 | Deleterious Material | 15 Kg. | 2000 |
| 10 | Specific Gravity | 15 Kg. | 1000 |
| 11 | Bulking of Sand | 15 Kg. | 1000 |
| 12 | Bulk Density | 15 Kg. | 1000 |

Coarse Aggregates

| S. No. | Test | Sample Qty. | Rate, Rs |
|--------|-----------------------------|-------------|----------|
| 1 | Gradation | 15 Kg. | 1000 |
| 2 | Water Absorption | 15 Kg. | 1000 |
| 3 | Aggregate Impact Value(AIV) | 15 Kg. | 1000 |
| 4 | Specific Gravity | 15 Kg. | 1000 |
| 5 | Bulk Density | 15 Kg. | 1000 |
| 6 | Elongation | 15 Kg. | 1000 |
| 7 | Flakiness | 15 Kg. | 1000 |
| 8 | Abrasion | 15 Kg. | 1000 |
| 9 | Crushing value | 15 Kg. | 1000 |
| 10 | Impact Value | 15 Kg. | 1000 |

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|----|----------------------|--------|------|
| 11 | Deleterious Material | 15 Kg. | 2000 |
| 12 | 10 % Fineness | 15 Kg. | 2000 |

Soil Sample

| S. No. | Test | Sample Qty. needed | Rate, Rs |
|--------|------------------------------|--------------------|----------|
| 1 | Sieve Analysis | 15 Kg. | 1000 |
| 2 | Fineness Modulus | 15 Kg. | 1000 |
| 3 | Silt Content | 15 Kg. | 1000 |
| 4 | Moisture Content | 15 Kg. | 1000 |
| 5 | Liquid Limit & Plastic Limit | 15 Kg. | 1000 |
| 6 | Specific Gravity | 15 Kg. | 1000 |
| 7 | Bulk Density | 15 Kg. | 1000 |
| 8 | Silt and Clay content | 15 Kg. | 1000 |
| 9 | Deleterious Material | 15 Kg. | 2000 |
| 10 | CBR Test (Soaked) | 15 Kg. | 4000 |
| 11 | CBR Test (Un-soaked) | 15 Kg. | 3500 |
| 12 | Free Swell Soil Test | 15 Kg. | 1000 |
| 13 | Direct Shear Test | 15 Kg. | 3500 |
| 14 | MDD & OMC | 15 Kg. | 2000 |
| 15 | Compaction Test Lab. Tests | 15 Kg. | 2000/- |

| S. No. | Depth (m) | Rate, Rs |
|--------|---|--|
| 1. | Field CBR Test | 10,000 |
| 2 | Field Compaction Tests up to 5 No. Points | 12,000 (for up to 5 Testing Points) Rs. 2000/- Per Testing Point thereafter |

| S. No. | Test | Sample Qty. | Rate, Rs |
|--------|--|--|----------|
| 1 | Job Mix Formula | Aggregates One Bag Cement/Lime 3 Kg. Bitumen 3 Kg. | 10000 |
| 2 | Design of Man Hole | Depth Size up to 4.0 mm | 6000/- |
| | | Depth size above 4.0 mm | 9000/- |
| 3 | RCC Pipe Testing (Length 6.5') | Up to 300 mm dia | 15000/- |
| | | More than 300 mm and up to 400 mm | 25,000/- |
| | | More than 400 mm and up to 600 mm | 30,000/- |
| 4 | RCC beam and slab full scaletesting in the lab | Please consult the lab for the sizes and charges | |

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Water & Sewage Samples

(Composite samples, should be kept at 0-4°C during composting and should be brought to the lab within 5-6 hours of composting, (at the same temp i.e. 0-4°C))

| Sr. No. | Parameter to be tests | Sample Qty. | Rate, Rs. |
|--------------|--|-------------|-----------|
| 1. | 1. pH | 5-10 Litres | 300.00 |
| | 2. Color | | 300.00 |
| | 3. COD (Total) | | 800.00 |
| | 4. COD (Filtered) | | 700.00 |
| | 5. BOD5 (Total) | | 800.00 |
| | 6. BOD5 (filtered) | | 800.00 |
| | 7. Sulphide (as S ²⁻) | | 500.00 |
| | 8. Sulphate (as SO ₄ ⁻) | | 500.00 |
| | 9. Alkalinity (as mg Ca CO ₃ /l) | | 300.00 |
| | 10. Total Suspended solids (mg/l) | | 600.00 |
| 2 | 11. Volatile Suspended solids (mg/l) | | 700.00 |
| | 12. Chlorides (as Cl ⁻) | | 300.00 |
| | Nickel | | 500.00 |
| | Iron | | 500.00 |
| | Magnesium | | 500.00 |
| | Copper | | 500.00 |
| | Hardness | | 500.00 |
| | Nitrates | | 500.00 |
| | Nitrites | | 500.00 |
| | Turbidity | | 300.00 |
| | Faecal coliform (E.Coli/MPN) - Biological | | 1500 |
| | TDS | | 500 |
| | Taste & Odor | | 100 |
| | Calcium, Ca(Mg/l) | | 500 |
| | Residual Free Chlorine (Mg/l) | | 500 |
| | Fluorides | | 300 |
| | Ammonia Nitrogen in mg/l | | 500 |
| | Total Phosphorus in mg/l (PO ₄ -P) | | 500 |
| | TKN (Nitrogen) | | 800 |
| | Silica | | 500 |
| | Oil & Grease | | 500 |
| | Conductivity Test | | 300 |
| | MLSS | | 800 |
| MLVSS | | 1000 | |
| Zinc | | 500 | |
| Lead | | 500 | |
| Conductivity | | 300 | |
| 3. | Comprehensive physico-chemical and Biological analysis of drinking water | 2 Ltrs. | 5500.00 |

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Building Material

| Sample | Test | Sample Qty. | Rate, Rs |
|--|--|---|---|
| Cement | a) Initial & Final Setting time b) Comp. Strength (at 7 day's curing) at 28 day's curing Soundness Fineness Consistency | 1 bag | 2500/- |
| Cubes | Comp. Strength | One Set of 3 cubes | 600/- per Set |
| Reinforcing Steel, Barbed Wire, Structural Angle, Flats & Tees Channel, Plates | <i>Physical tests:</i> Ultimate Tensile Strength Percentage Elongation Bend test d) 0.2 Proof Stress <i>Chemical tests:</i> a) Carbon, Sulphur, and Phosphorus b) Carbon, Sulphur Phosphorus, Silicon, Manganese, Nickel, Chromium | 1 m long sample of 3 pieces 50mm x 50 mm | 2500/- per sample 2000/- per sample 3000/- per sample |
| Bricks | Comp. Strength Water Absorption Efflorescence | 10 Bricks | 1500/- per sample |
| Wood | Moisture Content, Class Test, Grade and Density | | 1500/- |
| Concrete pavers, blocks | Comp. Strength Flexural Strength Water Absorption Abrasion Value | One piece | 300/- per piece 1000/- per piece 300/- per piece 2000/- per piece |
| Karb stone, precast concrete panels, Hollow and solid blocks | Comp. Strength Ready for testing Sample (Cylinder or Cube 100x100 x100 mm) Comp. Strength Testing Sample to be prepared in the lab | One piece | 600/- per piece 6000/- per piece |
| Concrete Mix Design | | Bag Cement Bags Sand 2 Bags Aggregates And admixture | Up to mix M40, Rs. 10000 above mix M40, Rs. 15000 Rs 5000/- extra for mix using admixtures |

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