



# PARENT TEACHER ASSOCIATION

GOVERNMENT ENGINEERING COLLEGE, TRICHUR

No. PTA/GEC/ TEN 3 / 2024

01-10-2024

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## Tender

Tender is invited from experienced and eligible personal to rehabilitate the sunshade of the auditorium and drop as per the specifications attached herewith.

Approximate Length : 70m

Height of parapet : 50cm

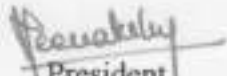
Height of drop : 40cm

The interested persons are encouraged to visit the building before providing the quotation. Final settlement will be as per the actual measurement. 5 % of the amount will be kept as security for 6 months. Standard service taxes will be applicable on this amount and will be deductible at source.

last date of receiving Quotation - 11-11-2024 - 3pm

Quotation opening time - 11-11-2024 - 3.30pm

  
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## INSPECTION REPORT

Sub: Repairing and rehabilitating the parapet wall of the college auditorium

### Observations

The wall has two parts. Parapet wall with bricks and drop made up of ferro cement. Parapet wall is severely affected with corrosion and spalling of concrete for 20m length, the drop was most severely affected

### Recommendations

#### **a. For parapet and drop which is not most severely affected**

- The deteriorated reinforced parapet wall is thoroughly cleaned by mechanical means.
- Removing all the loose particles and badly corroded reinforcement, placed new.
- Apply corrosion inhibitor entire area
- Apply anti corrosion protection coating
- Apply solvent free epoxy bonding coat, in a tacky condition apply trowelable dual shrinkage-compensating, thixotropic high strength mortar.

#### **b. For most severely affected drop**

- Demolition of the existing drop with out causing damage to the existing parapet and slabs
- Existing vertical bars may be used after anticorrosion treatment. If required additional vertical reinforcement of 8mm Drilled and fixed using anchoring compounds of make Hilti/fosroc/sika as per site conditions. New 6mm additional horizontal reinforcement has to be provided. Spacings as per the existing.
- Necessary formwork for reconstruction
- Ferrocement work using cement mortar of ratio (1:3) size as per existing site condition.
- Plastering and levelling the surface after curing.

### Description

#### **for rehabilitation**

- Chipping of existing plaster and delaminated concrete. Apply alkaline rust converting primer on corroded rebars. Supply and application of corrosion inhibitors on the entire area . Apply one or more coats of anti corrosion coating on the rebar. Apply epoxy bonding coat on the entire area. Application of shrinkage-compensating, thixotropic high strength mortar.

#### **for re working**

- the damaged portion has to be demolished with out causing any damages to the parapet and slab. the vertical reinforcement has to be retained if possible. And damaged rebars to be replaced using re bar anchoring technique. The horizontal bars has to be replaced. Apply alkaline rust converting primer on corroded rebars. Do Necessary form work for ferrocement work Plastering and levelling after curing.

### **PAYMENT**

Stage 1 : 50% of the payment is released after the material purchase.

Stage 2: After 75% of the work, 30% of the payment will be released.

Stage 3: Balance 20% will be released after the completion of the work.

### **JOB COMPLETION**

The job should be completed within 2 weeks from the date of receipt of confirmation of the work order.

Materials preferred : Sika, Fosroc, Hilti, Mapei