

**Name of Work: Roof Treatment of Guest, D, C & B Type Quarters & misc. R&M works of Field Hostel at 400/220kV Gangtok Sub-Station.**

1. **GENERAL INFORMATION:** Power Grid Corporation of India Ltd. (A Govt. of India Enterprise) incorporated under the companies Act, 1956, having its registered office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016 (hereinafter referred to as POWERGRID).
2. **SCOPE OF WORK:** The scope of work under this contract shall be Roof Treatment of Guest, D, C & B Type Quarters & misc. R&M works of Field Hostel at 400/220kV Gangtok Sub-Station. as per items mentioned in BOQ and as per Direction of Engineer In- Charge or his representative.
  - (i) Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power-driven percussion of Chajja/Sunshade, Beam & Roof slab etc. of Guest house, Field Hostel, D, C & B Type quarters.
  - (ii) Dismantling of old plaster and repair: Dismantling of old plaster to be done for ceiling of Rooms, Bathrooms, Kitchen, Corridors, Verandha & Staircase etc (as per site condition & requirement) and subsequently repair work must be carried out as per Direction of Engineer In- Charge or his representative iro of Guest house, Field Hostel, D, C & B Type quarters.
  - (iii) Dismantling of wall tiles and repair: Dismantling of floor tiles to be done for all rooms, bathroom, kitchen, Corridors, Verandha & Staircase etc (as per site condition & requirement) and subsequently repair work must be carried out as per Direction of Engineer In- Charge or his representative.
  - (iv) Repair of Slab, Beam, Wall etc where the condition is very much deteriorated or as directed by Engineer-in-charge Charge or his representative of Guest house, Field Hostel, D, C & B Type quarters.
  - (v) Drilling suitable holes in concrete to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout. Providing, mixing, and applying bonding coat of approved adhesive on chipped portion of RCC.
  - (vi) Providing, mixing, and applying SRB polymer modified plain/reinforced cement concrete. As well as providing and injecting approved grout in proportion recommended by the manufacture into cracks/honey-comb area of concrete/masonry wherever required.
  - (vii) Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5sqm with white cement-based polymer modified self-curing mortar (25% area of the proposed total repairing area).
  - (viii) Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust-free steel surface by using alkaline chemical rust remover of approved make with paint brush etc. complete as per directions of Engineer-in-charge.
  - (ix) Fixing of new reinforcement in place of damaged/ bulged RF Steel by drilling suitable holes in structure/as per site condition in a position using epoxy resin anchor grout of approved make.

(x) *Chemical application for Roof Slab & Parapet walls:* Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment, prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fibre brush.

(xi) *Chemical application for RCC Roof Slabs:*

(a) Providing and applying anti-fungal chemical over clean surface for protecting the wall surface from further efflorescence.

(b) Providing and applying two component chemicals manufactured by Fosroc/Sika / STP or equivalent company chemical over the prepared surface and rest for next 24 hrs. to dry.

(c) Providing and applying final coat of two component chemical over the first coated surface.

(d) Before application of plastering work providing and applying final coat of MYK Aquarm Bond or equivalent as bonding coat over the treated surface.

(xii) All reinforcement as well as structural steel works with TATA or SAIL make.

(xiii) Any other miscellaneous work to complete renovation work of Guest house, Field Hostel, D, C & B Type quarters., as per condition of the same of as per direction of In-charge.



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