

**CIVIL REPAIR WORK ACP CLADDING, TERRACE LOBBY,  
PAINTING AND PLUMBING WORKS AT HLL BHAVAN  
KHARGHAR, MUMBAI.**

**Volume - III  
TECHNICAL SPECIFICATION**

**Tender No: HLL/IDD/CHN/19-20/035  
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## **Technical specification:**

### **Common Points:**

Contractor should submit the work programme schedule as per the BOQ specifications for all the works within 10 days of receipt of work order / LOA to Engineer – in - charge and should get prior approvals of same before executing any type of works. The contractor should not deviate from the approved specification and time lines. In case of deviation while executing proper authorization should be obtained before proceeding further. Decision of HLL stands final.

The contractor should follow the following procedures:

- 1. MAR** – Material Approval Request (Before procurement of any materials the contractor should submit MAR request along with necessary supporting documents to HLL Engineers and the makes should be as per list of approved makes specified in the tender document. Any materials procured without approval will be rejected at any point of time)
- 2. Sample Tag** – After obtaining MAR, the contractor should submit sample tag along with samples (detailed specification can be submitted instead of samples for materials with high procurement values)
- 3. MIR** – Material Inspection Request – After supplying of materials at site, the contractor should submit MIR request for verification of materials (the materials should be as per approved MAR and sample tag). Items deviating against authorized MIR will be rejected at any point of time.
- 4. IR** – Inspection Request – The contractor should submit Inspection request on day to day basis for inspecting the works carried out.
- 5. Billing** – Billing should be as based on the actuals executed at site and the contractor should submit the bills based on HLL billing format along with supporting documents (Dc copy, bill invoice, MAR, Sample tag, MIR, test reports, etc) for the items claimed in the respective bill. 3 sets of original bill and 2 sets of copy should be submitted.
- 6.** All document formats pertaining to the work should be of HLL formats and the same can be issued on request.
- 7.** 3<sup>rd</sup> party testes through NABL aggregated labs should be carried out for the necessary items executed at site by the contractor as per the direction of HLL without any additional costs.
- 8.** 5 sets of following documents should be submitted during completion/ handing over of the project
  1. Inventory list,
  2. Warranty certificates
  3. Statutory approvals, if any
  4. Manuals
  5. 10 years guarantee in Rs. 100 stamp paper for waterproofing system
- 9.** Spares, keys or any other components related to the equipment/ materials installed should be handed over with a list along with separate tags.
- 10.** Hindrance register should be maintained at site.
- 11.** All the debris, remaining should be cleared from the site. And the completion certificate including final bill certification will be issued only after clearing the site and making it good.
- 12.** Installation, Testing & Commissioning report for all the works should be provided as per HLL formats.

### **Work permit:**

1. Hot work permit must be obtained prior to the starting of work from EIC, HLL .
2. Demolition and dismantling of structures and ceiling including erection of scaffolding shall be commenced with prior approval of EIC, HLL.

**Supervision:**

Contractor shall depute staffs experienced in the execution & handing over of repair & waterproofing projects.

**Security & Storage:**

The contractor is responsible for storage & security of all the materials, equipments, piping, wiring and all related accessories till the time of handing over to the customer.

**Power & Water:**

HLL shall arrange for power supply and water supply at one point. Arrangement for tapping and extension at the place of work shall be the responsibility of the contractor. The contractor shall ensure that there shall be no wastage of power or water provided to them. If the contractor is found to be wasting power or water, the connection shall be terminated immediately and the contractor shall make his own arrangement for water and power to complete the project.

**Working Hours & Damages of existing property:**

As the work is being executed in running office building, at most care should be taken during execution of works. Damages caused to the existing property should be rectified at own risk and cost with war foot basis. Time Schedule for the works to be carried should be submitted prior to the work. The job specified and scheduled shall be completed and reported on daily basis, waste materials relating to the job should be cleared on daily basis.

**Labour camp:**

Labour camp will not allow inside the campus and the contractor should take sole responsibility for workers stay outside the campus. Workers should not use any type of alcohol/smoking/tobacco related items inside the campus.

**Structural Alterations to Buildings**

- (i) No structural member in the building shall be damaged/altered, without prior approval from the competent authority through the Engineer-in-charge.
- (ii) Structural provisions like openings, cutouts, if any, provided by the department for the work, shall be used. Where these require modifications, or where fresh provisions are required to be made, such contingent works shall be carried out by the contractor at his cost.
- (iii) All such openings in floors provided by the Department shall be closed by the contractor after installing the cables/ conduits/ rising mains etc. as the case may be, by any suitable means as approved by the Engineer-in-charge without any extra payment.
- (iv) All chases required in connection with the electrical works shall be provided and filled by the contractor at his own cost to the original architectural finish of the buildings.

## **CIVIL WORKS**

### **General points**

1. The works shall be carried out as per the BOQ specifications. No deviations shall be allowed in the specifications and methodology without prior written instructions from EIC, HLL.
2. All demolished materials like broken tiles, concrete, gypsum, bricks etc shall be disposed off from the site in the municipal dumping grounds by the contractor at his risk and cost.
3. The water proofing system methodology as described in BOQ shall only be adopted and the materials shall be got approved by HLL prior to placement of purchase order or use at site.
4. All materials purchased by the contractor shall be inspected before usage at site.
5. The Site safety code shall be followed while doing work at height including use of fall arrestors, PPEs and full body harness system.
6. All necessary permissions from local bodies including labour department and licences if any required shall be obtained prior to commencement of work at site.
7. Execution of work inside the office areas shall be allowed with prior intimation to HLL in writing including the time frame for competing the work.
8. All precautions to avoid damages to existing infrastructure shall be taken care of by the contractor.

### **ANNEXURE I**

#### **LIST OF APPROVED MAKES**

<b>S. N</b>	<b>Materials</b>	<b>Manufacturers / Agencies</b>
1	Ready mixed Concrete	ACC/Godrej/ Ultratech/RELCON
2	Ordinary Portland Cement (Minimum 43 Grade)	A.C.C./ UltraTech/AMBUJA
3	White Cement	JK Cement, Birla White
4	Bricks, Stones slabs, Lime, Neeru Stone aggregate & fine aggregate	Sample to be got approved by E-in-C before use
5	Aluminium Extruded Sections	Jindal, Hindalco, Indalco,Bhoruka
6	Aluminium Composite Panels	Aludecor, Eurobond
7	Paints, Distempers	Jenson & Nicholson, Asian, ICI, Nerolac, Berger
8	Water proofing Works	FOSROC/ SIKA / Pidilite /SUNANDA BASF
9	Super plasticizer	CICO, Roffes Construction Chemicals, Pidilite Industries, Sunanda

10	False Ceiling (a) Fibre (b) Galvanized Steel  (c) Calcium Silicate	Armstrong, Gyproc  Armstrong, Gyproc, Hunter Douglass  Aerolite, Gyproc, Armstrong, Ramco Hilux, Promat
11	UPVC Pipes & fittings	Finolex / Supreme / Astral
12	Silicon Sealant	Dow corning, GE Bayer Silicone
13	EPOXY	FOSROC. SIKA Qualcrete, Aradlite MBT, Sunanda
14	Water proofing System	CICO, FOSROC, SIKA, Pidilite, sunanda
15	UPVC Pipes/Fittings	Supreme/Prince/ Finolex
16	Soil, Waste & Rain water Pipes & Fittings	Supreme / Prince / Finolex
17	Autoclave Aerated Cement Blocks	Godrej Tuff, Birla Aerocon
18	FRP doors	To be approved by EIC, HLL

**END OF VOLUME - III**