

**WORK OF PERMANENT REPAIR OF LEAKAGE  
INCLUDING DISMANTLING EXISTING AND NEW WORK  
OF BRICKBAT COBA WATERPROOFINGAND SEALANT  
WORK AT HLL BHAVAN KHARGHAR MUMBAI.**

**Volume - III**

**SPECIFIC CONDITION OF CONTRACT  
And  
TECHNICAL SPECIFICATION**

**Tender No: HLL/IDD/CHN/19-20/034  
Dated: 20<sup>th</sup> MARCH 2020**



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## **SPECIFIC CONDITION OF CONTRACT** **AND 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 completing the work.
8. All precautions to avoid damages to existing infrastructure shall be taken care of by the contractor.

**All concrete work will be strictly done by automatic computerized batching plant of suitable capacity installed at site or RMC as per approval of Engineer-in-Charge / HITES. No concrete work will be**

**permitted without automatic batching plant unless specifically approved in writing by Engineer-in-Charge / HITES. Transportation of the mix concrete shall be done through transit mixers and concrete pumped through suitable concrete pumps and pipes arrangement and vibrated by machines, materials lifts shall also be provided at site as and required.**

**(ii) All operation required for continuing concreting work at the construction joints for better bond are deemed to be included in the rates of the relevant items and nothing extra shall be payable on this account.**

**(iii) Mix Design of Concrete:-** The contractor shall carry out the mix design for the relevant item of concrete from reputed institution / laboratories as approved by Engineer-in-charge at his own expenses within 15 days from notification of award. Samples of materials (i.e. Cement, Coarse, fine aggregates & admixtures) shall be jointly sealed by Engineer in-charge and contractor before sending the same for Mix design. The design mix may be with or without admixtures as per specifications / requirements at site.

#### **(iv) Ready Mixed Concrete**

a. The rate for the item of Ready Mixed Concrete shall be inclusive of all the ingredients including admixtures if required, labour, machine T&P etc. (except shuttering which will be measured & paid for separately) required for design mix concrete of required strength and workability.

b. The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like cement and aggregates and admixtures etc. in the approved mix design.

**(v)** Marine plywood only or steel plates of minimum thickness as approved by Engineer-in-charge shall be used for formwork. All shuttering material to be used at site will be new / just like new as approved by Engineer-in-charge. The shuttering plates shall be cleaned and oiled after every repetition and shall be used only after obtaining approval of Engineer-in-charge's representative at site. The number of repetitions allowed for plywood and steel shuttering shall be at the discretion of Engineer-in-charge depending upon the condition of shuttering surface after each use and the decision of Engineer-in-charge in this regard shall be final and binding on the contractor. No claim whatsoever on this account shall be admissible.

**(v) Anti-termite treatment & waterproofing treatment:-**

- a) The treatment for water-proofing of basement, roofs, water retaining areas and termite infestation shall be of type and specifications as given in the schedule of quantities and remain fully effective for a period of not less than 10 (Ten) years to be reckoned from the date of expiry of the Defect Liability period, prescribed in the contract. At any time during the said guarantee period if the HITES/ Engineer-in-charge or his representative finds any defects in the said treatment or any evidence of re-infestation, dampness, leakage in any part of buildings or structure and notifies the contractor of the same, the contractor shall be liable to rectify the defect or give re-treatment and shall commence the work or such rectification or re-treatment within seven days from the date of issue of such letter to him. If the contractor fails to commence such work within the stipulated period, the HITES/ Engineer-in-charge or his representative may get the same done by another agency at the Contractor's cost and risk and the decision of the HITES/ Engineer-in-charge for the cost payable by the contractor shall be final and binding upon him. Retreatment if required shall be attended to and carried out by the Contractor within seven days of the notice from the HITES or his representative.
- b) Water proofing and anti-termite treatment shall be got done through approved specialized agencies only with prior approval of the Engineer-in-charge or his representative. During the execution of due to rain or any other circumstances, the same shall be rectified and made good to the entire satisfaction of the HITES or his representative by the contractor at his costs and risks.
- c) The contractor shall submit a guarantee bond for the water proofing and anti-termite work executed under the contract in a format specified in the GCC.

**ANNEXURE I**

**LIST OF APPROVED MAKES**

| S. N | Materials  | Manufacturers / Agencies                       |
|------|--|--|
| 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<br>BASF  |
| 9  | Super plasticizer   | CICO, Roffes Construction Chemicals, Pidilite Industries, Sunanda   |
| 10 | False Ceiling (a) Fibre<br>(b) Galvanized Steel<br><br>(c) Calcium Silicate | Armstrong, Gyproc<br><br>Armstrong, Gyproc, Hunter Douglass<br><br>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**