

## **Amended Statement of Work:**

**Addendum:** Please see below the highlighted work.

### **SOW – Raising dampness & water leak arresting work at Adyar house (3 TBR): May-2018**

#### **A) EXTERNAL:**

##### **1 Soil Excavation:**

Break the existing floor and excavate the earth soil for 3' width and 3' depth, all around the building.

**Note:** All pipelines and other wires around the perimeter of building to be considered and taken care, construction of Manhole following same dimension before laying of paver block. Any damages in external pipes, electrical cables to be repaired or changed by contractor.

##### **2 Chipping:**

Framing a groove using electrical cutter at 1.5' level above the FFL & 3' level below External FFL - Soil level. Chip off the plaster thickness to reach out the brick substrate directly.

##### **3 Chemical Application:**

(A) The joints of the brick substrate to be ensured with 1:1 rich ratio of SBR mixed with 1:2 of cement sand ratio, (B) on observation of any honey comb at exposed starter beams, Column junction Pressure Grouting using 40 PSI - with Non shrink grout Admixture along with SBR in 1:3 ratio mixed with cement in 3 parts by volume in the 1/2 inch PVC/GI nozzle fixed against the RCC element. (C) The mixed slurry paste to be used to fill all the joints of the substrate. (D) Full prime coat of Fosroc Nitobond SBR to be applied in ratio of 1:3 with water mixed with 3 parts of cement. (E) Two Coats of Fosroc Brushbond pre-batched polymer 2 component to be applied after a day in interval of 6 hrs. under saturated condition,

##### **4 Integral Plastering:**

(A) Placing chicken mesh using appropriate nailing. (B) First Coat of integral Plastering in SBR 1:6 ratio in water during mortar mix to be done placing button mark. (C) After a day curing Second coat of integral plastering to be done. (D) Fine manual trowel to be made.

##### **5. APP Membrane layer:**

Priming the substrate of wall plaster and the floor concrete with bitumen base primer, allowing to dry for a day, ensuring nil damp and unrolling DR.Fixit APP membrane 4mm thickness, and torching with gas flames fully with fine bleeding, Four edges of membrane to be cut off in dove tail form to ensure full bond. Place chicken mesh with appropriate bonding to the membrane without damaging and cement plastering with finishing.

##### **6. Concreting:**

Proper compaction of soil to be done, PCC of M20 using 20mm blue metal to be done over the floor area for 100mm thick. Smooth slurry finish to be done over the concrete yielding slope outside of wall. Any plinth area offset disturbed for treatment to be matched with original existing level (North Side Ground level – Tiles covered area between Guest Bedroom & Pantry)

**7. Floor finishing work:**

Refill the earth in the excavated area and compact it properly. Pour PCC concrete for 100mm thick for the width of 3'. Spreading 75mm thick query dust and ramming same with compactor fix paver blocks of approved design and color. Final compacting and finish to be done with ramming machine. Around the building. Measurement to be taken by vendors during site inspection.

**8. External First Floor level wall – 200 Sqft**

Scaffolding to be considered for external wall treatment at **Master Bed Room Wardrobe** (Filled with several diagonal cracks at entrance Garden area) following same specification like internal.

**9. Coving Treatment – Sunshade Area**

Chipping shall be done to the parapet height of 1' to reach the brick substrate. Groove cutting shall be made for 1" depth and 2" width across the brick and the slab joint fillet area. The intermediate portion of the groove area where the concrete cover and the brick shall be racked off to form a channel. This gap shall be filled using the sika hydroplug with mix of sika latex in a patty formation. After two hours the treated substrate shall be allowed to get saturated. Applying 2 coats of sika Top seal 107 dual based pre batched two components across the coving area in interval of 6 hrs under saturated condition. First layer of rough Integral plastering using rich mortar mixed with fine granulars, sika latex in 1:6 ratio, to yield C coving formation. After a day one tacky coating of sika latex mixed with water in ratio of 1:4 shall be applied. Chicken mesh shall be used as an intermediate reinforcement support over the first layer. Second layer shall be made on the next day following same first layer integral mix yielding smooth finish. (Both Ground floor Roof and 1<sup>st</sup> floor Roof Sunshade to be considered)

**B. INTERNAL:**

**1 Chipping:**

Cover the entire floor with tarp sheet and POP on top for safety and ease of work.

Chip off the wall plaster thickness to reach out the brick substrate directly up to the ceiling height in entire wall areas including skirting tiles.

**Note:** Only manual tools to be used for chipping. In case of absolute necessity only light power tool for chipping can be used. Any cracks damages caused to the main mother slab and floor during chipping to be taken care by the vendor.

## 2. Chemical Application:

(A) The joints of the brick substrate to be ensured with 1:1 rich ratio of SBR mixed with 1:2 of cement sand ratio, (B) on observation of any honey comb at exposed starter beams, Column junctions Pressure Grouting using 40 PSI - with Non shrink grout Admixture along with SBR in 1:3 ratio mixed with cement in 3 parts by volume in the 1/2 inch PVC/GI nozzle fixed against the RCC element. (C) The mixed slurry paste to be used to fill all the joints of the substrate. (D) Full prime coat of Fosroc Nitobond SBR to be applied in ratio of 1:3 with water mixed with 3 parts of cement. (E) Two Coats of Fosroc Brushbond pre-batched polymer 2 component to be applied after a day in interval of 6 hrs. under saturated condition, Pressure Grouting using 40 PSI - with Non shrink grout Admixture along with SBR in 1:3 ratio mixed with cement in 3 parts by volume in the 1/2 inch PVC/GI nozzle fixed against the Skirting joint area.

## 3. Integral Plastering:

(A) Placing chicken mesh using appropriate nailing. (B) First Coat of integral Plastering in SBR 1:6 ratio in water during mortar mix to be done placing button mark. (C) After a day curing Second coat of integral plastering to be done. (D) Fine manual trowel to be made.

## 4. Skirting tiles work:

Supply and fixing of skirting tiles to match the existing quality and shade with proper cement plastering / Nito bond.

## 5. Painting:

1. Apply Birla putty as required to arrive at smooth finishing of the wall for painting work.
2. Interior walls and ceilings to be painted with two coats premium emulsion paint matching with existing shade. **Total Area: 12,500 sq.ft.**
3. All doors, grills and cupboards to be painted with two coat of enamel paint. **Total area: 7000 sq.ft**
4. Scrapping and varnishing of cupboards and wardrobes doors. **Total area: 1000 sq.ft**
5. Exterior walls and compound walls to be painted with two coats of antifungal weather coat paint.

Total Area: **13000 sq.ft**

**APPROVED MAKE OF PAINT: ASIAN**

## C. TERRACE COATING: Area: 3000 sq.ft

1. Entire substrate of the terrace and sunshades to be ensured with proper pointing of the Tile joints at

worn out points using proper cement UV based Grout for thick pointing. Any damaged tiles found shall be replaced.

2. Two layers of Elastomeric coating to be done over the tiles with interval of a day.

3. Two coats shall be perpendicular to each other.

**Procedure for painting:**

- Cover all the switch boards, light fittings, fan and AC using plastic sheet/ paper with masking tape.
- Cover all the floors using plastic sheet.
- Close the air cracks using crack sill material.
- Apply sikagard 67 to the dampness wall before painting.
- Apply putty as required.
- Apply first coat of paint. Apply putty as required.
- Apply second coat of paint – Finish with roller finish
- After the completion of painting clean all the windows using uPVC cleaning solution thoroughly.
- Check and Clean the floor, light fixtures, ceiling fans, air-conditioners, wardrobes and cabinets thoroughly for any spills or overlap of paint. Take the necessary corrective action.

**Note:** Vendors to take measurements during site inspection.