

SOW – OB BASEMENT WATER PROOFING AND RELATED WORKS – 2016.

A. Basement warehouse, plant room areas waterproofing.

1. Cutting and framing grooves along the joint lines using appropriate tools to width of 50mm and appropriate depth. Stuffing Renderoc RG mixed with SBR. Length – 650 rft. Approx. Area – basement warehouse and near UPS and PCC generator room.
2. Identifying the water oozing points and fixing GI / PVC nozzles with drilling of 75mm depth to reach direct RCC and pumping non shrink grout mixed with SBR to yield slurry form. – LS Area – basement warehouse and near UPS and PCC generator room.
3. PU grouting to be done using two components. PU grouting using BASF MEYCO 3551K two component PU chemical shall be used and done on the leakage area with the required nozzle drilled for 60mm average in direct RCC through a brass pegger rod with controller to have pressure variation. – 400 nos. approx. Area – basement warehouse and near UPS and PCC generator room

B. Rerouting / channelizing of water.

1. Marking of the high ingress points among the grooves area and framing grooves for average of 75mm width to interconnect all major oozing points to direct collection pits. Here the collection pit is to be selected in the lower level from the ground level. Length – 500 rft. approx. Area – basement warehouse and near UPS and PCC generator room

C. Recharging pits.

1. Drilling over RCC from the ground level in the form of circular pit upto a depth of 6 ft (dia of the pit 300mm). Scarifying / rough porous plastering at the internal round substrate for easy oozing of water. – 12 nos. of pits. Area – emergency water collection pits along church compound wall

D. Retaining wall sleeve packing: Area – basement warehouse, chiller transformer room and 400 kva generator room

1. All the loose points on the sleeve packed area to be chiseled, flakes and porous concrete to be chiseled off. First level of cementious non shrink grouting to be done to densify the first level.
2. Second level of PU grouting to be done to increase the intensity and to densify.
LS

E. Rectification of raising dampness: Area – basement floor office area external retaining walls.

1. The wall plaster of putty on the RCC walls to be removed to expose the direct concrete. Saturating the substrate. Apply a direct crystallization material for three coats in interval of 4 hours each. Continuous spray curing to be done. Area – 500 sft approx.
2. Integral grouting to be done at regular interval as required. Apply a cement based dual pre batched chemical coating for one coat. 150 nos. approx.
3. Integral rich plastering to be done in a ratio of 1:3 using SBR. – Area 500 sft approx.

F. Coving of ends:

1. Chipping off entire slurry coving end to reach out direct RCC for 300mm height. Starter joint to be groove framed and filled with Renderoc RG stuffing.
2. Chicken mesh to be placed and two coats of Fosroc BB to be applied.
3. Two layers of integral plastering with an interval of two days to be done.
4. Final finish C shaped slurry finish to be done with necessary curing.
Length – 180 rft. Approx.

G. Small retaining wall: Area – two numbers of emergency rain water collection pits.

1. Construct two numbers of PCC retaining walls at the emergency rain water collection pit to prevent the excess water entering into the office area.
2. The size of the wall may be L 14feet x W 6” x H 2feet
3. The new wall may be constructed inside the pit to its full length from end to end.
4. Cement mortar finishing to be done to all possible sides after casting the concrete.

Note: Vendor to take necessary measurement during site inspection.