CHAPTER 17: LIME TERRACING, ROOF TOP WATER PROOFING FOR GARDEN & SWIMMIMG POOL

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
17.1.1	Supply and application of non-toxic two components **acrylic polymer modified cementitious coating of minimum 1.5 mm thickness** for water proofing of roof/ roof garden/ swimmimg pool which consists of powder and liquid acrylic emulsion; under a protective cover of plaster/ cement concrete/ tiles etc. as per standard specification and accepted by the Engineer-in-charge. (Rate is excluding the cost of protective cover)	sqm	Tk. 781.00	Tk. 776.00	Tk. 766.00	Tk. 766.00
17.1.2	Supply and application of **waterproofing treatment to roofs and terraces** using three coats of acrylic based fiber reinforced elastomeric liquid water proofing membrane conforming to relevant ASTM standards product available in market. Surface preparation shall include cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus , mending the surface defects using sandpaper, filling cracks using suitable Crack Seal as necessary. First coat shall be diluted by 30% water and used as self-priming coat for the following two coats, achieving force coverage of 10sft/ltr. Incase of greater surface area, fiber mesh can be used in between the priming coat and second coat, followed by two more coats for better durability. All shall be completed as per manufacturer's specifications & recommendations and accepted by the Engineer in charge.					
17.1.2.1	Rate for cover area less than or equal to 500 sqm(without glass fiber mesh)	sqm	Tk. 1,080.00	Tk. 1,076.00	Tk. 1,066.00	Tk. 1,066.00
17.1.2.2	Rate for cover area greter than 500 sqm(with glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between first two layers)	sqm	Tk. 1,204.00	Tk. 1,199.00	Tk. 1,188.00	Tk. 1,188.00
17.2	Preparation and making **gravel pack** for roof top gardening with supply of 25 mm down graded pea gravels including sieving, washing, compacting etc. complete as per standard specification and accepted by the Engineer-in-charge. Ground floor	cum	Tk. 5,053.00	Tk. 5,034.00	Tk. 4,597.00	Tk. 4,597.00
17.2.1	Added rate for gravel pack work in additional floor:					
17.2.1.1	Add for each additional floor above ground floor	cum	Tk. 60.00	Tk. 58.00	Tk. 54.00	Tk. 54.00
17.3	Supply and application of **19mm thick (9.5 mm X 2 layer) water proof, damp proof, dry and breathable plaster** on roof slab/ underground water reservoir/ overhead water reservoir/ basement/retaining wall with water proof, damp proof, dry and breathable Izonil cement (STN-EN -1015-11 , compressive strength 34 MPa ,max depth of water penetration into hardened plaster is < 1 mm) or equivalent compound in a proportion of 1:2.4 (Izonil cement or equivalent compound 1: sand 2.4) after cement grouting on existing concrete surface including finishing the corner and edges, washing sand, cleaning the surface scaffolding and curing at least 3 days etc. all completed in all respects as per direction of Engineering-in-charge. Above mentioned plaster includes glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between two layers.	sqm	Tk. 1,236.00	Tk. 1,233.00	Tk. 1,215.00	Tk. 1,215.00

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
17.4	Average **100 mm thick finished lime terracing** with 20 mm down graded first class brick chips (khoa), surki from 1st class bricks and minimum lime content 500 kg per 2.83 cubic meter (stone lime brought at site, not being powdered in open air and to be slaked in presence of engineer-in-charge and to be measured in volume three days after slaking for using in the mix) in the proportion 7:2:2 (brick chips : surki : lime) including preparation of the mix on the ground by making a suitable platform under proper polythene cover. Cutting the mix twice daily with limewater (1:10) at least for 7 days until the mix attain desirable consistency. Laying the mix in proper slope, beating the same with standard 'koppa' for minimum 7 days to gain maximum consolidation, making ghoondy and neat finishing with lime Surki mortar (1:2) and curing for 21 days providing polythene cover after each day work and cleaning etc. complete in all respect accepted by the Engineer-in-charge. Ist Floor	cum	Tk. 17,763.00	Tk. 17,639.00	Tk. 16,977.00	Tk. 16,882.00
17.4.1	Added rate for lime terracing work in additional floor:					
17.4.1.1	Add for each additional floor above ground floor	cum	Tk. 119.00	Tk. 117.00	Tk. 108.00	Tk. 108.00
17.5.1	25 mm thick **ferrocement treatment work for water proofing on roof** having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type–1, and best quality coarse sand (F.M. 2.2) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength fy = 450 MPa & having 2 mesh per 25 mm in both ways, clear cover 12 mm at the middle of the ferrocement lining, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	Tk. 1,485.00	Tk. 1,477.00	Tk. 1,438.00	Tk. 1,430.00
17.5.2	25 mm thick **ferrocement treatment work for heat and water proofing on roof** having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type–1, and best quality coarse sand (F.M. 2.2) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength fy = 450 Mpa & having 2 mesh per 25mm in both ways, clear cover 12mm at the middle of the ferrocement lining, applying 62 mm thick EPS sheet having density 15 kg per cum, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	Tk. 1,875.00	Tk. 1,865.00	Tk. 1,824.00	Tk. 1,816.00
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