

ISSUED TO:	PERIOD OF	Three (03) MONTHS
	EMD: -	Rs. 23,280/-

Sub: Arresting RCC Roof leakages at POL Store Building at Bangalore Complex, BEML Limited Bangalore.

SCHEDULE 'A' BILL OF QUANTITIES

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
1	Preparing the existing roof surface by cleaning of all foreign matter by wire brushing & complete removal of existing old water proofing membrane over RCC roof slab etc., complete all as specified and as directed by engineer in charge.	Sq.M	425		
2	Complete removal of existing old cement plaster of any thickness over RCC roof slab/ parapet wall surface etc., complete all as specified and as directed by engineer in charge.	Sq.M	460		
3	Cleaning the existing roof slab using wire brushes and applying a coat of cement slurry with cement 3Kg/Sqm area over the thoroughly cleaned roof slab as a preparatory course before rendering etc., complete all as specified and as directed by engineer in charge.	Sq.M	460		
4	Rendering/ plastering over RCC roof slab/parapet wall surface in cement mortar of mix proportion 1:4, 20mm thick with proper slope & gradient, admixed with M/s fosroc make CONPLAST X421C/WL (200ML/Bag of cement) etc., complete all as specified and as directed by engineer in charge. Note: Conplast X421C/WL water proofing chemical shall be measured & paid separately under relevant item.	Sq.M	460		
5	<p>Providing and laying 5 course water proof treatment by using 3mm thick heavy duty Atatic Polypropylene (APP) Membrane of M/s STP/Sika/Pidilite by preparing the surface by removing all foreign matter by wire brushing etc, all as detailed below.</p> <p>i) Applying a coat of oil based Bituminous primer confirming to relevant IS at 0.70 Liters/Sqm.</p> <p>ii) Providing Hot applied bitumen of grade 90/15 confirming to relevant IS at 1.20Kg/Sqm over primer surface.</p> <p>iii) Providing 4mm thick APP membrane sheet reinforced with polyester non woven fabric (wt. not less than 150grams per Sqm and the weight of the membrane shall not be less than 3.5Kg/Sqm) fixed neatly on the hot applied bitumen surface for proper bonding including torching etc; wherever necessary. Extra care to be taken at lap joints for proper bonding.</p> <p>iv) Providing Hot applied bitumen of grade 90/15 conforming to IS at the rate 1.20Kgs/Sqm of surface on the APP surface as a sealing coat.</p>	Sq.M	460		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
	v) Providing and applying 2 coats of heat resistant aluminium paint at the rate of 0.10 liter/Sqm. for each coat on the bitumen surface. Note:- i) Lap shall be of 75mm width for horizontal and 100mm width for vertical surface and joints should be sealed by torching. ii) Clear & Finished surface area excluding lap area shall be measured for payment and the quoted rate shall be deemed to include for the same iii) Work has to be carried out after removal of vegetation if any thoroughly all as per the directions of Engineer in charge.				
6	Supplying and mixing M/s Fosroc make CONPLASTX421C/WL Water proofing chemical in cement mortar for rendering the roof slab and parapet wall surfaces as per manufacturers instructions (200ml/bag of cement) etc, complete all as specified and directed by Engineer in Charge.	Ltrs	20		
7	Removing the debris from the site premises and disposing at a place shown in township area at a distance not exceeding 5.00KM etc., complete all as specified and directed by Engineer in Charge.	Cum	12		
8	supplying and fixing 110mm diameter PVC class 2 pipes (6kg/cm ²) for rain water down take of first quality, approved brand confirming to relevant IS manufactured by M/s. Supreme/ Astral, including all standard fittings like elbows, bends tees, tail pieces & fixtures such as pipe clips, clamps wooden plug, screws, washers etc secured firmly to the wall surfaces etc, complete all as specified and as directed by Engineer in charge.	RM	40		
9	Providing and constructing 230mm thick burnt brick masonry for plinth drains in Cement mortar 1:6 using first class table moulded bricks including curing etc., complete all as specified and directed by the Engineer in charge.	Cum	8		
10	Providing Rendering/plastering 15mm thick in cement mortar of mix proportion 1:6 over existing brick/ concrete surface of plinth drain walls, and surface finished smooth and even including necessary curing etc., complete all as specified and directed by the Engineer in charge.	Sq.M	150		
11	Dismantling the existing brick masonry wall built in Cement mortar in any thickness including all quoins, arches, pillars etc., complete all as specified and directed by the Engineer-in-charge.	Cu.M	8		
12	Cutting of tree branches at heights up to 3.0M to 5.0Mts & stacking of serviceable materials & disposal of unserviceable materials to a distance not exceeding 50Mtrs apart & clearing the site etc, complete as as specified and as directed by Engineer-in-charge. Note : (Girth of tree exceeding 30cm to 100cm)	Nos.	10		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
13	Preparing the existing old Painted surface of external walls by water washing, scrapping the existing surface by sand papering/wire brushing including providing necessary repairs to cracks, and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying two coats of exterior emulsion paint of first quality approved brand and colour manufactured by M/s.Asian Paints (ACE)/Berger Paints (Wall Masta) and touch up putty wherever necessary etc., complete all as specified and directed by engineer in charge. Note.1) Contractor's quoted rate is deemed to include for providing and removal of scaffolding, staging/ suspending jhoola for painting wherever necessary etc.	Sq.M	800		
14	Preparing the existing old painted internal surfaces of walls by cleaning, scrapping, sand papering including providing necessary repairs to cracks by filling with suitable crack filling compound and applying two or more coats of oil bound washable Distemper of first quality approved brand of reputed manufacturer like M/s. Asian Paints/Berger Paints conforming to relevant IS over a coat of primer & touch up putty wherever necessary etc., complete all as specified and as directed by engineer in charge. Note.1) Contractor's quoted rate is deemed to include for providing and removal of scaffolding, staging/ suspending jhoola for painting etc wherever necessary etc.	Sq.M	900		
15	Preparing the existing old painted ceiling surfaces by cleaning, scrapping, sand papering including providing necessary repairs to cracks by filling with suitable crack filling compound and applying two or more coats of oil bound washable Distemper of first quality approved brand of reputed manufacturer like M/s. Asian Paints/Berger Paints conforming to relevant IS with touch up putty wherever necessary etc., complete all as specified and as directed by engineer in charge. Note Contractor's quoted rate is deemed to include for providing and removal of scaffolding, staging/ suspending jhoola for painting etc wherever necessary etc.	Sq.M	650		
16	Preparing the existing old Painted steel surfaces viz., window grills by cleaning, scrapping, sandpapering including necessary repairs to cracks, scratches and applying two coats of synthetic enamel paint manufactured by M/s.Asian Paints/Berger Paints etc., complete all as specified and as directed by engineer in charge. Note Contractor's quoted rate is deemed to include for providing and removal of scaffolding, staging/ suspending jhoola for painting etc wherever necessary etc.	Sq.M	100		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
17	Providing and laying in Position 150mm thick Plain cement concrete of mix proportion 1:2:4 concrete using 20mm down graded granite aggregate, for hard standing concrete, finished neatly with wooden float laid in layers well compacted including curing etc.,complete all as specified and as directed by engineer in charge.Note: The rate quoted for the item shall be deemed to include for providing and removal of centering/shuttering wherever necessary.	Sq.M	75		
18	Demolition/ dismantling the existing cement concrete flooring of any description and in any position not otherwise specifically provided etc and stacking of serviceable materials and disposal of unserviceable materials from the permises, etc., complete all as specified and directed by Engineer in charge. Note: The dismantled materials shall be removed immediately without disturbing the regular production activities.	Cu.M	12		
	Note:- (1) The rate quoted for all the above items is deemed to include for providing and removal of scaffolding/staging as required for execution of the work under the relevant item.				
	(2) Interested bidders/ contractors are requested to visit the site and acquaint themselves with the site conditions before submission of their quote/ offer for the work.				
	Total value of work excluding GST				
	GST				
	Total value of work including GST				

Total Amount in words Rupees -----.

Signature of the contractor with seal