

BEML LIMITED, BANGALORE

Tender 6300039707

ISSUED TO:	Period of contract:	08 Months
	EMD : (Rs)	2,60,000/-

Sub: Waterproofing of quarters 08 block total : A Type (A5,A7,A9, A10, A11) and Btype (B1, B2 & B4) at BEML TOWNSHIP, BANGALORE COMPLEX, BEML LTD, BANGALORE.

SCHEDULE 'A' - BILL OF QUANTITIES

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
1	Complete chipping and removal of existing old cement plaster of any thickness over RCC roof slab/ parapet /chajjas including removal of old water proofing APP Membrane wherever present including disposal of debris out side the site premises not exceeding 5.0KM which is not objected by any civic authorities etc., complete all as specified and as directed by Engineer in charge. Note: The rate is deemed to include for providing & removal of scaffolding/staging wherever necessary.	Sq.M	4400.00		
2	Complete removal the existing brick bat coba/ lime concrete/loose surkhi provided over RCC slab etc., including disposal of debris out side the site premises not exceeding 5.0KM which is not objected by any civic authorities etc., complete all as specified and as directed by Engineer in charge. Note:- i) The quoted rate included tools and tackles without damaging the existing structure etc., 2) The rate is deemed to include for providing & removal of scaffolding/staging wherever necessary.	Cum	250.00		
3	Cleaning the existing roof slab using wire brushes to remove all dust, etc., and Providing and laying Plain Cement Concrete of mix proportion 1:2:4 average 75mm thick using 20mm graded granite aggregates as a screed concrete over roof slab over a base coat of cement slurry with cement at 3kg/sqm. The PCC shall be laid to a proper slope & gradient, well compacted, with mechanical/manual mixing including curing etc., complete all as specified and directed by the Engineer in charge. Note: 1) The rate is deemed to include for providing & removal of centering/form work etc., 2) The rate is deemed to include for providing & removal of scaffolding/staging wherever necessary.	Cum	160.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
4	Providing plastering 20mm thick in cement mortar of mix proportion 1:4 over RCC roof slab, parapet walls, chajjas and admixed with M/s Fosroc make CONPLAST X420 IC/WL (200ML/Bag of cement) and the surface finished smooth and even etc,. Complete all as specified and directed by the Engineer-in charge. Note:- Admixture use for plastering will be measured in separate item.	Sq.M	4500.00		
5	Supplying and mixing M/s Fosroc make CONPLAST X420 IC/WL (200ML/Bag of cement) while rendering for the roof slab and parapet wall surfaces as per manufacturers instructions etc complete.	Ltrs.	200.00		
6	Supplying and applying of premium quality acrylic waterproofing primer @250grams per square meter after diluting as per the manufacturer's recommendations, allow 3 to 4 hours for the primer to dry completely. Apply 2nd coat of premium quality acrylic waterproofing coating @ 350grams per square meter using roller/ brush after diluting as per the manufacturer's recommendations and simultaneously over this install 60 GSM thermally stabilized polyester reinforcement with 100mm side laps and 150mm end laps and apply additional coat premium quality acrylic waterproofing coating @ 350grms per square meter using roller/ brush, ensure there are no wrinkles or folds on the reinforcement membrane and allow it to dry for 24 hours. After 24 hours apply the final coat of premium quality acrylic waterproofing system @350grams per square meter using roller/ brush after diluting as per the manufacturer's recommendations. All dilutions should be strictly as per the manufacturer's instructions as shown in the product catalogue. The same system has to be carried out over the vertical areas like parapet and up stands.	Sq.M	4700.00		
7	Dismantling the existing reinforced cement concrete in any description and in any position including disposal of debris outside the site premises exceeding 1.5KM not exceeding 5km which is not objected by any local civil authorities etc., complete EIC. Note: The contractor shall make arrangements for temporary water connection during the dismantling of the RCC tank upto the final connection provided to the new PVC water tanks.	Cum	160.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
8	Removing the existing old PVC/AC/Cast iron rain water pipes of any diameter and Supplying & fixing new 110 mm diameter PVC pipes (6kg/cm ²) for rain water down take of first quality, approved brand, manufactured by M/s.Supreme/Astral conforming to relevant IS including all standard fittings like elbows, bends, tees, PVC Y & fixtures such as pipe clips, clamps wooden plug, screws, washers etc secured firmly to the wall/floor surfaces etc.,complete all as specified and as directed by Engineer in charge.	Rmt	650.00		
9	Removing the existing old broken GI/CPVC water Pipes & Supplying and Laying 20mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad/equivalent approved make, laid in required length, gradient in walls, flooring & trenches including all standard CPVC fittings such as elbows, collars, Tees, MTA, FTA, PVC Clamps including cutting & making good the floor/walls with cement mortar wherever necessary etc. complete all as specified and directed by Engineer-in-charge. Note: The rate quoted for the item deemed to include for a) Providing & removal of scaffolding, staging wherever necessary etc.	Rmt	800.00		
10	Removing the existing old broken GI/CPVC water Pipes & Supplying and Laying 25mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad/equivalent approved make, laid in required length, gradient in walls, flooring & trenches including all standard CPVC fittings such as elbows, collars, Tees, MTA, FTA, PVC Clamps including cutting & making good the floor/walls with cement mortar wherever necessary etc. complete all as specified and directed by Engineer-in-charge. Note: The rate quoted for the item deemed to include for a) Providing & removal of scaffolding, staging wherever necessary etc.	Rmt	100.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
11	<p>Supplying, Fabricating, hoisting and erecting in position MS Structural steel works for ladder, tank platform using MS Structural steel like ISMC, for columns, plates angles & flats including cutting, welding, bending to required shape bolting, cleaning the rust and scales to the satisfaction of Engineer in charge, shims & packing pieces will be required for levelling of the work, for erection at all elevations, levels & heights etc., complete all as specified and as directed by Engineer in charge.</p> <p>Note: The quoted rate is deemed to include for labour, welding machines, gas, welding rods etc.,</p>	Kgs	8400.00		
12	<p>Preparing the new steel surfaces by scrapping, sand papering & applying two coats of synthetic enamel paint over a coat of redoxide Primer of first quality approved brand and colour manufactured by M/s. Asian Paints/Berger including lead, lift, materials, labour, tools & tackles, etc., complete all as specified and as directed by Engineer in charge.</p>	Sqm	350.00		
13	<p>Supplying, hoisting & fixing in positing triple layered rotational moulded polyethylene water storage tank (cylindrical vertical with closed top) of capacity 1000 litres of M/s Syntex make/Equivalent of first quality conforming to relevant IS including connecting of pipes, and making water connections with all necessary hardware items etc., complete all as specified and directed by Engineer in charge.</p>	Each	87.00		
14	<p>Providing and constructing Burnt brick masonry wall in Cement mortar 1:6 with first quality table molded bricks including curing etc., EIC.</p>	Cum	10.00		
15	<p>Providing and fixing in position 20mm diameter float valve set of M/s. Watertec/ Prayag etc., complete all as specified and directed by engineer in charge.</p>	Nos	100.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
16	Preparing the existing old painted internal surfaces of walls of staircase landing, roof slab bottom and steps etc by cleaning, scrapping, sand papering/wire brushing including providing necessary repairs to cracks by filling with suitable crack filling compound and applying two coats of premium plastic emulsion paint of first quality approved brand of reputed manufacturer like M/s. Asian Paints/Berger Paints conforming to relevant IS over a coat of primer and 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.	Sqm	2500.00		
17	Preparing the existing old painted internal surfaces of ceiling of staircase landing, roof slab bottom and steps etc by cleaning, scrapping, sand papering/wire brushing including providing necessary repairs to cracks by filling with suitable crack filling compound and applying one coat of premium plastic emulsion paint 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. 1) Contractor's quoted rate is deemed to include for providing and removal of scaffolding, staging/ suspending jhoola for painting etc wherever necessary etc.	Sqm	750.00		
18	Preparing the existing old Painted surfaces of steel like window grills and staircase handrails by cleaning, scrapping, sandpapering including necessary repairs to cracks, scratches and applying one coat of synthetic enamel paint manufactured by M/s.Asian Paints/Berger Paints in Matt finish etc., complete all as specified and as directed by engineer in charge. Note: The rate quoted is deemed to include for a) Providing and removing scaffolding wherever required.	Sqm	130.00		
	Total value of work excluding GST (Rs).				
	GST (Rs).				
	Total value of work inclusive of GST (Rs)				

(Total Amount in words Rupees.....
.....)

Signature of the Contractor
with seal