

TENDER REF: 6300038004				Date: 26.09.2022	
ISSUED TO:			Period of contract:	05 Months	
			EMD :	Rs. 22,700/-	
Sub: Renovation of existing Ladies Toilets at different locations at Bangalore Complex, BEML Ltd., Bangalore-560075.					
<u>SCHEDULE 'A' - BILL OF QUANTITIES</u>					
Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
1	Demolition/dismantling the existing cement concrete flooring in any description and in any thickness and stacking of serviceable materials and disposal of unserviceable materials from the premises etc., complete all as specified and as directed by Engineer in charge. Note: The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities and the quoted rate includes all lead & lift etc.	Cum	5		
2	Removing the existing corrugated/semi-corrugated AC/GI/ FRP roof sheet including 'J' bolts, washers carefully, stacking the usable sheets at a place shown & handing over to civil maintenance department and shifting the unusable roof sheets to salvage stores upto min. 1.00Km distance etc., complete all as specified & directed by the Engineer-in-charge. Note:-a) Clear area of roof sheet excluding lap length shall be measured for payment. b) The rate quoted for the item is deemed to include for Providing & removal of scaffolding, staging wherever necessary.	Sqm	15		
3	Dismantling the existing timber scantling rafters, purlins etc., of any description carefully and stacking at a place all as shown & handing over to civil maintenance department and stacking at a place etc., complete all as specified & directed by the Engineer-in-charge. Note:- Rate quoted for the item shall be deemed to include for Providing & removal of scaffolding, staging wherever necessary.	Rmt	50		
4	Earthwork excavation by mechanical/ manual means not exceeding 1.50m in width and not exceeding 1.50m in depth in all kinds of soil but excluding hard rock for foundation/ pits including getting out the excavated earth, with a lead upto 50 mts, disposal of surplus excavated soil as directed including dressing of sides, dewatering ground water/ rain water, compaction etc., complete all as specified and directed by Engineer in charge.	Cum	10		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
5	Dismantling the existing brick masonry of any thickness wall built in Cement mortar & disposal of unserviceable materials from the premises with a lead up to 50Mtrs etc., complete all as specified and directed by the Engineer-in-charge. Note: The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities and the quoted rate shall include for all lead & lift etc.	Cum	1		
6	Providing and laying in Position Plain Cement Concrete of mix proportion 1:4:8 using 40mm down graded granite aggregate, laid in layers not exceeding 15cms well compacted for foundation bed, under floors and other similar works including curing etc.,complete all as specified and as directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of centering/shuttering wherever necessary.	Cum	1		
7	Providing, mixing and laying in position Reinforced Cement Concrete of mix proportion 1:1.5:3, 150 mm average thickness of M20 grade using 20mm down graded granite aggregate for roof slab, roof beams, etc complete including curing, Vibrating, compacting, finishing,dewatering wherever necessary and including cost of all materials,labour, lead, lift, tools, plant & machinery, hire & fuel charges and all other incidental charges etc., complete all as specified and directed by Engineer in charge. Note: a) Reinforcement shall be measured and paid separately under relevant item. b) The rate quoted for the item shall deemed to include for providing and removal of Leakproof centering/Shuttering wherever necessary.	Cum	2		
8	Dismantling of Wooden door shutters with frames carefully without damaging the adjacent surfaces and handing over to Civil Maintenance Department in good condition etc., and stacking at a place as shown etc., complete all as specified and as directed by Engineer in charge. Note: The rate quoted is deemed to include for making good the adjacent portion of wall/plastering if damaged during dismantling.	Each	2		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
9	Removing the Wooden door shutter of size approximately 1.20m x 2.10m carefully by manual means carefully without breaking, stacking at a place all as shown & refixing back the shutter in the same location with necessary modifications including altering the height of shutter if required including providing & fixing all necessary hardware items such as new brass butt hinges 125mm long, heavy duty door stopper, aluminum aldrop, stays etc., complete all as specified and as directed by Engineer in charge. Note: The rate quoted is deemed to include for making good the adjacent portion of wall/plastering if damaged during dismantling.	Each	3		
10	Providing and laying in Position Plain Cement Concrete of mix proportion 1:2:4, 100 mm average thickness using 20mm down graded granite aggregate, laid in layers well compacted including formwork, curing, compacting, finishing fair without using extra cement etc., complete all as specified and as directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of leakproof centering/shuttering wherever necessary.	Cum	2		
11	Providing TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameters for RCC works, cut to length and bent to shape required, binding spirally with MS wire (annealed) of size not less than 0.9 mm dia and placing in position including all lead, lift, labour, tools & tackles, plant & machinery etc., complete all as specified and directed by Engineer in charge. NOTE: a) The rate quoted for the item shall deem to include for cement mortar cover blocks as per the requirement at site and providing and removal of scaffolding/staging wherever necessary b) Reinforcement will be measured based on actual qty placed in position on standard weight basis, no allowance will be made for rolling margin. c) Only authorized laps, chairs and spacers shall be measured and paid.	kgs	100		
12	Providing & constructing 230mm thick Burnt brick masonry in Cement Mortar 1:4 using first class table moulded bricks including necessary curing etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Cum	14		
13	Rendering/Plastering 15mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surfaces even & smooth, curing, tools & tackles etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sqm	120		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
14	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 is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	50		
15	Supplying and fixing 15 mm diameter brass chromium plated angle/ Stop cock of first quality manufactured by M/s.ESS ESS /Parryware/Johnson/ Hindware or equivalent make including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	No	6		
16	Supplying and fixing 15mm diameter brass chromium plated short body bibcock of first quality approved brand manufactured by M/s.ESS ESS /Parryware/Hindware/Johnson or equivalent make including all accessories conforming to relevant IS etc., complete as specified and directed by Engineer in charge.	No	3		
17	Supplying & fixing 15mm diameter brass chromium 2 in 1 bib cock of first quality approved brand manufactured by M/s.ESS ESS /Parryware/Hindware/Johnson or equivalent make including all accessories conforming to relevant IS etc., complete all as specified & directed by the Engineer in charge.	Nos	4		
18	Providing & fixing 150mm diameter 6kg/cm <sup>2</sup> PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for sanitary, waste water, laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tee, PVC Shoe & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	55		
19	Providing & fixing 110mm diameter 6kg/cm <sup>2</sup> PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for waste water, laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees, PVC Shoe & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	30		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
20	Removing the existing dado tiles with a backing coat & stacking at a place as shown and providing a dubbing coat of 10mm cement paste in Cement Mortar 1:4 and Supplying and fixing coloured ceramic tiles for dado minimum 300mm x 450mmx7mm thick or bigger size,colour,pattern laid over a backing coat in Cement Mortar 1:4,15mm thick manufactured by M/s Naveen/ Kajaria/ Somany or equivalent approved make and joints neatly finished and pointed with jointing powder of matching colour pigment etc., complete all as specified and directed by Engineer-in-Charge. Note: The rate quoted is deemed to include for 1) Wastages. 2) Removal of debris out of the premises to a distance up to 5 KM as shown.	Sqm	160		
21	Preparing the existing surface by cleaning, hacking / removing old tiles wherever directed, etc., & Supplying and fixing Anti skid ceramic coloured floor tiles of minimum 300 mmX300 mmx8mm thick or bigger size,colour, pattern laid over a bedding layer in Cement Mortar 1:4,15mm thick manufactured by M/s Naveen/ Kajaria/ Somany or equivalent approved make to proper slope and joints neatly finished and pointed with jointing powder of matching colour pigment etc., complete all as specified and directed by Engineer-in-Charge. Note: The rate quoted is deemed to include for all wastages.	Sqm	50		
22	Providing and fixing new vitreous china ware Orrisa type pan water closet squatting pan of approximate size 580 mm (Indian type W.C. pan) manufactured by M/s. Parryware /M/s. Hindware make with 110 mm bore P or S trap, 10/12 litre capacity P.V.C. low level flushing tank with manually controlled device conforming to relevant IS, manufactured by M/s. Parry Ware / M/s.Hindware including foot rests, 32mm diameter PVC flush pipe, 450mm length PVC connection pipe, cutting and making good the walls and floors wherever required including all lead, lift, tools, labour etc., complete all as specified and directed by the Engineer-in-charge.	No	3		
23	Supplying and fixing new white vitreous chinaware floor mounted European type water closet with low level PVC flushing cistern of 10/12 litres capacity of first quality, conforming to relevant IS, Manufactured by M/s Parryware/Hindware/cera/ equivalent approved make including white PVC seat cover, brass chromium plated angle cock, 450 mm long PVC Connection pipe,' P'/S' Trap with concealed brackets, 32mm diameter PVC Flush Pipe, drain outlet fittings and necessary fittings, fixtures and hardware cutting and making good the walls and floors wherever required including all lead, lift, tools, labour etc., complete all as specified and directed by the Engineer in charge.	No	6		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
24	Supplying and fixing 600mm x 450mm or approved size bevelled edge mirror of M/s. Saint Gobain/ Modiguard conforming to relevant IS, mounted on 6mm thick BWP Plywood and fixed to wooden plugs with chromium plated brass screws and cup washers, necessary hardware etc.,complete all as specified and directed by Engineer-in-charge.	Each	6		
25	Supplying and fixing PVC heavy duty door shutters with frames manufactured by M/s.Sintex make or equivalent approved make with wall thickness not less than 2mm thick and shutter thickness not less than 24 mm (multi chamber hollow section) of approved shade/design & size conforming to relevant IS as per manufacturer's specification etc including necessary hardware viz., Stainless steel hinges, tower bolts, handles, hardware items etc.,complete all as specified and directed by Engineer in charge.	Sqm	18		
26	Supplying and fixing white vitreous chinaware countertop hand wash basin of 600mm diameter approximately or approved size manufactured by M/s. Parryware/ Hindware /M/s.Cera/ equivalent approved make conforming to relevant IS, fixed in 20mm thick Granite slab & jointed neatly finished with cement mortar and pointed in cement slurry/jointing powder with matching pigment including all accessories such as 32mm diameter brass chromium plated waste coupling of M/s Parryware/Hindware, PVC connection pipe of length 450mm, angle cock / stop cock etc., all lead, lift, tools, labour etc., complete all as specified and directed by the engineer-in-charge. Note: The rate quoted for this item shall be excluding 20mm thick granite slab which will be measured and paid under relevant item.	No	4		
27	Supplying and fixing 20mm thick polished black Granite slab on brick support walls for wash basin and jointed neatly with cement mortar and pointed with black oxide or coloured cement compound to match the colour of granite including cutting to template and grinding the edges nosing half round to the slab to fix wash basin etc complete all as specified and directed by Engineer in charge. Note: The quoted rate is inclusive of a) cutting the granite to template to fix the wash basin. b) wastages. c) Brick wall supports will be measured & paid seperately under relevant item.	Sqm	5		
28	Supplying & fixing solid body aluminium coat hook of minimum length 175mm of first quality reputed manufacturer conforming to relevant IS including all fittings & fixtures etc., complete all as specified and directed by Engineer-in-charge.	No.	9		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
29	Supplying and fixing 15mm diameter brass chromium plated pillar cock of first quality conforming to relevant IS manufactured by M/s.ESS /Parryware/ Hindware/ equivalent approved make including necessary accessories etc., complete all as specified and directed by Engineer in charge.	Each	5		
30	Supplying & fixing 40mm diameter Bottle trap of first quality, approved brand conforming to relevant IS manufactured by M/s.ESS /Parryware/Johnson/ Hindware/equivalent approved make including necessary accessories etc., complete all as specified and directed by Engineer-in-charge.	Each	4		
31	Supplying & fixing PVC SWR Gully trap 125/110mm of M/s.Supreme / Astral make including jointing with solvent cement etc., complete all as specified and directed by Engineer in charge.	Each	7		
32	Supplying & fixing PVC Nahani trap 75/100mm of M/s.Supreme / Astral make including jointing with solvent cement etc., complete all as specified and directed by Engineer in charge.	Each	13		
33	Supplying & fixing 100mm diameter brass chromium plated grating of reputed manufacturer conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	Each	15		
34	Supplying & fixing 110 mm diameter PVC Air vent cowl Manufactured by M/s Supreme conforming to relevant IS etc including all fittings & fixtures etc., complete all as specified and as directed by Engineer in charge.	Each	3		
35	Supplying and fixing in position Pre-cast/cast in situ RCC manholes cover with frame of approx size 600x 600x 100mm thickness heavy duty including formwork for cast-in-situ work etc., complete all as specified and directed by Engineer in charge.	Each	3		
36	Returning & filling under floors layer in layers including consolidation, well ramming etc., complete all as specified and as directed by Engineer in charge.	Cum	6		
37	Carting away unwanted and unusable excavated soil, debris outside the site premises to a distance not exceeding 5.00KM, dumping at a place not objected by any civil authorities, including all lead and lift etc., complete all as specified and directed by Engineer in charge in charge.	Cum	8		
38	Supplying & fixing PVC soap dish/tray of first quality reputed manufacturer including all fittings & fixtures etc., complete all as specified and directed by Engineer-in-charge.	No	6		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
39	Supplying and fixing brass chromium plated towel rail 600mm long of first quality Manufactured by M/s Parryware/Hindware/equivalent with all fittings, accessories etc., complete all as specified and directed by the Engineer in charge.	No	6		
40	Providing & laying 15mm thick bedding layer in cement mortar 1:6 for floor surface including consolidation, well ramming etc., complete all as specified and directed by the Engineer in charge.	Sqm	12		
41	Supplying and fixing health faucet with flexible connection pipe, hook, of first quality conforming to relevant IS manufactured by M/s.ESS /Parryware/Hindware/ equivalent approved make including necessary accessories etc., complete all as specified and directed by the Engineer in charge.	No	7		
42	Preparing the existing old Painted surface of internal ceiling by scrapping, sand papering, including necessary repairs to cracks, scratches and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying two coats of Oil bound washable distemper of first quality and approved colour manufactured by M/s.Asian Paints/Berger paints 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 for painting. 2) Cleaning the floor surfaces, fittings etc after painting.	Sqm	85		
43	Preparing the existing old Painted surface of internal walls by scrapping, sand papering, including necessary repairs to cracks, scratches and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying two coats of Oil bound washable distemper of first quality, approved colour manufactured by M/s.Asian Paints/Berger paints 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 for painting. 2) Cleaning the floor	Sqm	200		
44	Preparing the existing old Painted wooden surfaces like doors by scrapping, including necessary providing necessary repairs to cracks, scratches and cleaning the surface free of dust, dirt and applying two coats of synthetic enamel paint manufactured by M/s.Asian Paints/Berger Paints first quality, approved colour 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 for painting. 2) Cleaning the floor surfaces, fittings etc after painting.	Sqm	20		



Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
45	Preparing the existing old Painted surface of external walls by 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) over a coat of primer 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 for painting. 2) Cleaning the floor surfaces, fittings etc after painting.	Sqm	65		
46	Removing the existing old MS Windows with out damaging the adjacent walls, providing patch plastering in CM 1:6 Wherever required to make good the surface for fixing new windows and supplying and fixing new UPVC Glazed ventilator of standard UPVC Profile sections of approved brand manufactured by M/s LG/ Prominence /Veka or equivalent of approved shade/colour and fixed with 5.5mm thick glazing in louvers including weather sealed beading gaskets etc., to make them weather protected and free from rattling including all necessary standard hardware like handles, screws etc complete to suite the overall size of openings all as directed and specified by the Engineer in charge.	Sqm	3		
47	Supplying and fixing 300mm diameter heavy duty, steel body exhaust fan manufactured by M/s.Bajaj/USHA/Equivalent brand conforming to relevant IS etc.,complete all as specified and directed by Engineer-in- charge.	Each	2		
48	Providing and laying in Position Plain cement concrete 150mm thick of mix proportion 1:2:4 using 20mm down graded granite aggregate, for hard standing concrete including finishing the top surface laid in layers well compacted including curing, compacting 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.	Sqm	20		
49	Rendering/Plastering 20mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surface smooth and even including curing,tools & tackles at all levels and height etc., complete all as specified and directed by Engineer in charge. Note:- The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging whever necessary.	Sqm	55		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
50	Rendering/Plastering 12mm thick in Cement Mortar 1:4 on ceiling surfaces including finishing the surface smooth and even using extra lime/cement including curing, tools & tackles at all levels and height etc., complete all as specified and directed by Engineer in charge. Note:- The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sqm	12		
51	Supplying & fixing M/s. JSW/TATA make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue) sheeting for roof 1060mm supply width, 975mm-1000mm covered width 29mm-30mm crest height, 24mm crest width with min. 195mm-200mm pitch in 0.60mm thick TCT Galvalume(55% aluminum-43%Zinc Coating) 150 GSM with 550 Mpa minimum tensile strength conforming to IS277, Alloy Coated conforming to As 1397 inclusive of all taxes & duties, transportation etc including all hardware/fixtures like colour matched nylon head self tapping corrosion protected mechanically galvanised fasteners with integral washer etc, complete all as specified and as directed by Engineer in charge.	Sq.M	2		
52	Supplying, Fabricating, erecting & fixing in position MS Structural steel work for canopy by using MS Angles/ MS Flats/ MS Sq tubes, etc, erection at all elevations, levels & heights including applying two coats of synthetic enamel paint over a coat of red oxide zinc chromate primer etc., complete complete all as specified and directed by Engineer in charge. Note: a) The rate quoted for the item deemed to include labour, welding machine, welding rods, Gas, consumables. b) The rate quoted for the item deemed to include for providing & removal of scaffolding, staging wherever necessary etc.	kgs	75		
53	Supplying and fixing white vitreous chinaware wash hand basin of 600mm diameter approximately or approved size manufactured by M/s. Parryware/ Hindware/Cera/equivalent approved make conforming to relevant IS, jointed neatly finished with cement mortar and pointed in cement slurry/jointing powder with colour pigment including all accessories such as 3mm diameter brass chromium plated waste coupling, PVC connection pipe of length 450mm, angle cock / stop cock, rack bolts for fixing etc., all lead, lift, tools, labour etc., complete all as specified and directed by the Engineer-in-charge.	No	1		
	NOTE: (1) The bidders shall visit the site and acquaint themselves with the site conditions before submission of tender.				

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
	(2)The rate quoted for all the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary as per site conditions.				
	Total Value of work excluding GST (Rs)			Rs.	
	GST			Rs.	
	Total Value of work inclusive of GST			Rs.	

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

Signature of the Contractor  
with seal