

BEML LIMITED, BANGALORE

Tender Ref: 6300038545			Date: 09.09.2023		
ISSUED TO:			Period of contract:	Six Months (06 Months)	
			EMD :	Rs. 60,000/-	

Sub: Renovation of existing Gents Toilets at Different Locations 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	Complete removal of the existing top loose surkhi, brick bat coba / lime concrete carefully over the roof slab without damaging the existing RCC slab and disposal of unusable materials/ debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in Charge. Note: 1) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . 2) The rate quoted for the item shall be deemed to include for providing and removal of scaffolding/staging wherever necessary.	Cu.M	10.00		
2	Hacking out the existing plastering from existing brick/concrete surfaces to receive new plaster and disposal of unusable materials /debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in Charge. Note: 1) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . 2) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sqm	215.00		
3	Demolition/ dismantling the existing cement concrete flooring/hardstanding concrete of any description and in any position not otherwise specifically provided etc and stacking of serviceable materials if any and disposal of unusable materials/debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in Charge. Note: The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities .	Cu.M	4.00		
4	Supplying and mixing M/s. Fosroc make CONPLAST X42 IC/WL while rendering for the roof slab and parapet wall surfaces as per Manufacturers instructions (200ml/bag of cement) etc., complete all as specified and directed by the Engineer in charge.	Litres	3.00		
5	Providing and laying in position Plain Cement Concrete of mix proportion 1:2:4 average 100mm thick using 20mm graded granite aggregates over roof slab/chajja/ flooring works, laid to a proper slope & gradient, well compacted,mechanical/manual mixing including finishing the top surface neat & even by using extra cement by plastering, & necessary curing etc., complete all as specified and directed by the Engineer in charge. Note: The rate quoted for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Cum	30.00		
6	Dismantling the existing Brick masonry wall in any thickness and disposal of unusable materials/ debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in charge. Note: 1) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . 2) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.	Cum	18.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
7	Removing the Wooden door shutter of size approximately 1.35m x 2.35m 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 viz 125mm size MS door hinges, 150mm size aluminum aldrop, 150mm size aluminum powder coated tower bolts, 150mm size aluminum powder coated handles 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	4.00		
8	Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in depth in all kinds of soil including getting out the excavated earth, dressing of sides, dewatering ground water/ rain water if any, compaction including disposal of debris/unserviceable surplus earth outside the site premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead, lift etc.,complete all as specified and directed by Engineer in Charge.	Cum	36.00		
9	Providing and laying in Position Plain Cement Concrete M7.5 grade 1:4:8 using 40mm graded down size granite aggregate, machine mixed, 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 for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Cum	9.00		
10	Providing & constructing Burnt brick masonry of required thickness in Cement Mortar 1:6 using first class table moulded bricks including necessary curing etc., complete all as specified and directed by Engineer in Charge. Note: 1) The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary. 2) wastages.	Cum	28.00		
11	Providing & laying in position Fe 500 grade TMT bars in reinforcement conforming to relevant IS in various diameters, locations & levels, cut to length and bent to shape required, binding spirally with MS wire (annealed) of size not less than 0.9 mm dia including all lead, lift, etc., complete all as specified and directed by Engineer in charge. NOTE: a) The rate quoted for the item is deemed 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 quantity 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	75.00		
12	Providing, mixing and laying in position Reinforced Cement Concrete M20 grade of mix proportion 1:1.5:3, using 20mm graded down size granite aggregate for Plinth Beams,etc complete including curing, Vibrating, compacting, finishing,dewatering wherever necessary including lead, lift 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 by the Contractor for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Cum	1.20		
13	Rendering/Plastering 15mm 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:- 1) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sqm	570.00		

Sl. No.	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
14	Preparing the existing surface by cleaning, hacking etc., & Supplying and fixing Anti skid ceramic coloured floor tiles of minimum 300 mmX300 mmx8mm thick or bigger size of approved colour/pattern laid over a bedding layer of Cement Mortar 1:4,15mm thick manufactured by M/s Naveen/Kajaria/Johnson/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: 1)The rate quoted is deemed to include for all wastages. 2) The rate is deemed to include for dismantling the existing old mosaic floor tiles in any thickness, hacking out old plastering & disposal of unserviceable materials from the premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead, lift etc.,complete all as specified and directed by Engineer in charge. 3) The basic cost of tiles shall not be less than Rs 60/sft.	Sqm	128.00		
15	Supplying and fixing coloured ceramic tiles for dado minimum size 450mm x 350mmx7mm thick or bigger size of approved colour/pattern laid over a backing coat of Cement Mortar 1:4,15mm thick manufactured by M/s Naveen/Kajaria/Johnson/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: 1) The rate is deemed to include for providing a dubbing coat of 15mm thick in Cement Mortar 1:6 on irregular face of walls. 2) Wastages. 3) The rate is deemed to include for dismantling the existing old mosaic wall tiles in any thickness, including existing old washbasin, hacking out old plastering & disposal of unserviceable materials from the premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead, lift etc.,complete all as specified and directed by Engineer in charge. 3) The basic cost of tiles shall not be less than Rs 60/sft.	Sqm	345.00		
16	Supplying and Laying the 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	150.00		
17	Supplying and fixing 15 mm diameter brass chromium plated quarter turn Angle cock/ Stop cock of first quality approved brand 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.	Nos	15.00		
18	Supplying and fixing 15mm diameter brass chromium plated quarter turn short body Bibcock of first quality approved brand 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.	Nos	15.00		
19	Supplying & fixing 15mm diameter brass chromium plated quarter turn 2 in 1 Bib cock of first quality approved brand 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.	Nos	6.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
20	Providing & fixing 160mm diameter 6kg/cm ² 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, Tees, & 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	70.00		
21	Providing & fixing 110mm diameter 6kg/cm ² PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for sanitary, waste water, rain water laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees & 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	100.00		
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/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/M/s Cera 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.	Nos	12.00		
23	Supplying and fixing new coloured vitreous chinaware floor mounted European type water closet of approximate size 600 mm with low level PVC flushing cistren of 12 litres capacity of first quality, conforming to relevant IS, Manufactured by M/s Parryware/M/s Hindware/M/s Cera including white PVC seat cover, brass Chromium plated angle cock, 450 mm long PVC Connecting pipe, 'P' or 'S' Trap with concealed brackets, flush pipe, health faucet with gun & flexible connection pipe, drain outlet fittings and necessary fittings, fixtures and hardware including making good the walls/floor wherever required etc., complete all as specified and directed by the Engineer in Charge.	Nos	6.00		
24	Supplying and fixing 600mm x 450mm or bigger size mirror of thickness 3mm manufactured by M/s. Saint Gobain/ Modiguard with decorative wood PVC edge frame, including hooks, necessary hardware etc.,complete all as specified and directed by Engineer-in-Charge.	Each	7.00		
25	Removing the existing MS Doors/Wooden Doors with frame of any description carefully without damaging the adjacent area of any description & handing over to M/s BEML Ltd and Supplying and fixing new Supplying and fixing PVC heavy duty door shutters with frames manufactured by M/s.Sintex or equivalent approved make with wall thickness not less than 2mm thick and shutter thickness not less than 30 mm (multi chamber hollow section) of approved shade & size conforming to relevant IS as per manufacturer's specification etc including necessary hardware viz., Stainless steel hinges, 150mm size PVC tower bolts, 150mm size PVC handles, hardware items etc.,complete all as specified and directed by Engineer in Charge.	Sqm	40.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
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.	Nos	7.00		
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	10.00		
28	Supplying and fixing 15mm diameter brass chromium plated quarter turn Pillar cock of first quality approved brand 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.	Each	7.00		
29	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	7.00		
30	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	10.00		
31	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	12.00		
32	Supplying & fixing 100mm diameter brass chromium plated grating of first quality & reputed manufacturer conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	Each	13.00		
33	Supplying & fixing 110 mm diameter PVC Air vent cowl Manufactured by M/s Supreme/Astral conforming to relevant IS etc including all fittings & fixtures etc., complete all as specified and as directed by Engineer in charge.	Each	8.00		
34	Supplying and fixing Brass chromium plated Urinal Spreader of first quality approved brand conforming to relevant IS etc., manufactured by M/s Parryware/Hindware/Cera with all fittings & fixtures etc.,complete all as specified and directed by Engineer-in-charge.	Nos	20.00		
35	Removing the existing urinal basin and stacking at a place all as shown & Supplying and fixing vitreous chinaware white wall hung ceramic urinal basin of size minimum 345mmx320mmx560mm or bigger the size manufactured by M/s. Parryware/ Hindware/Cera/equivalent approved make including push cock, flush pipe, waste coupling, waste pipe etc., of reputed manufacturer conforming to relevant IS etc complete set and fixing / bedding urinal against wall in cement mortar 1:2, securing urinal with bolts including brass screws, pointing around urinal back in cement mortar and with all drain outlet fittings.etc., complete all as specified and directed by the Engineer-in-charge.	Nos	20.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
36	Supplying and fixing brass chromium plated Push cock of first quality approved brand conforming to relevant IS etc., manufactured by M/s Parryware/Hindware/Cera/Equivalent make etc., complete all as specified and directed by Engineer-in-charge.	Nos	20.00		
37	Removing the existing urinal partitions and stacking at a place all as shown & Supplying and fixing white ceramic urinal partitions of size minimum 320mmx90mmx720mm or bigger size of first quality, approved brand manufactured by M/s. Parryware / Hindware/Cera/ M/s Johnson conforming to relevant IS etc., complete set & fixing against wall/floor in cement mortar 1:2, pointing around urinal partition back in cement mortar with all fittings using necessary hardware etc., complete all as specified and directed by Engineer-in-Charge.	Nos	19.00		
38	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	6.00		
39	Supplying & fixing stainless steel soap dish/tray manufactured by M/s Parryware/ Hindware/CERA /Johnson including all fittings & fixtures etc., complete all as specified and directed by Engineer-in-charge.	Nos	5.00		
40	Returning & Filling the available earth in plinth, trenches & foundations, the earth of non swelling type, free from organic materials, consolidating in layers of not more than 200mm including watering compaction, etc., complete all as specified and as directed by Engineer in Charge. Note:- Net consolidated volume shall be measured for payment purpose.	Cum	8.00		
41	Removing the existing old MS Windows with out damaging the adjacent walls, providing patch plastering in Cement Mortar 1:6 wherever required to make good the surface for fixing new windows and supplying and fixing new UPVC Glazed ventilator/Windows 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 etc., complete all as specified and directed by the Engineer in charge.	Sqm	30.00		
42	Preparing the existing old painted surface of internal Ceilings by scrapping, sand papering/wire brushing including providing necessary repairs to cracks and filling the cracks with suitable crack filling compound and applying two or more coats of Oil bound washable Distemper of first quality approved brand & colour manufactured by 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) The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder, wherever required and protective measures etc. 2) Cleaning the existing floor surfaces after painting. 3) wastages.	Sqm	152.00		
43	Preparing the existing old painted surface of internal walls by scrapping, sand papering/wire brushing including providing necessary repairs to cracks and filling the cracks with suitable crack filling compound and applying two or more coats of oil bound washable Distemper of first quality approved brand & colour manufactured by 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) The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder, wherever required and protective measures etc. 2) Cleaning the existing floor surfaces after painting. 3) wastages.	Sqm	300.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
44	Preparing the new/old Painted surface of external walls including stucco area by water washing, sand papering/wire brushing including providing necessary repairs to cracks, and cleaning the surface from dust, dirt and filling/closing the cracks with suitable 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) after successively drying each coat over a coat of primer and touch up putty wherever necessary etc., complete all as specified and directed by Engineer in Charge. Note: 1) The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder, suspending jhoola wherever required and protective measures etc. 2) Cleaning the floor surface after painting. 3) wastages.	Sqm	165.00		
45	Providing and applying 2 coats of brush bond - RFX & Nitobond BBX a two component water proofing chemical of M/s FOSROC make to the roof slab and toilet flooring as per Manufacturers instructions etc., complete all as specified and directed by Engineer in Charge.	Sq.M	120.00		
	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