

BEML LIMITED, BANGALORE					
TENDER REF: 6300038837			Date: 23.05.2024		
ISSUED TO:		Period of contract:	06 Months		
		EMD : (Rs)	1,01,140/-		
Sub: Renovation of Existing Gents Toilets (16 Nos) at Various Locations of BEML Factory, Bangalore complex, BEML Ltd., Bangalore-560075.					
SCHEDULE 'A' - BILL OF QUANTITIES					
Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
1	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	580.00		
2	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	22.00		
3	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	8.00		
4	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 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	11.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
5	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	58.00		
6	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	11.00		
7	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 .	Cum	11.00		
8	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	20.00		
9	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 whenever necessary.	Sqm	800.00		
10	Preparing the existing surface by cleaning, hacking etc., & Supplying and fixing Anti skid ceramic coloured floor tiles of minimum 300mmX300mmx8mm thick or bigger size of approved colour/pattern laid over a bedding layer of Cement Mortar 1:4,15mm thick manufactured by M/s RAK/Kajaria/Johnson/Somany 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	185.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
11	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 RAK/Kajaria/Johnson/Somany 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	655.00		
12	Supplying and Laying the 20mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad, 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	270.00		
13	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 including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in Charge.	Nos	57.00		
14	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 including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in Charge.	Nos	12.00		
15	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 including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in Charge.	Nos	15.00		
16	Providing & fixing 160mm diameter 6kg/cm2 PVC pipes manufactured by M/s.Supreme/ Astral 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	125.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
17	Providing & fixing 110mm diameter 6kg/cm ² PVC pipes manufactured by M/s.Supreme/ Astral 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	190.00		
18	Providing & fixing 75mm diameter 6kg/cm ² PVC pipes manufactured by M/s.Supreme/ Astral 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	70.00		
19	Providing and fixing new vitreous china ware Orrisa type pan water closet squatting pan of Model No: C894F of approximate size (580mmx440mmx300mm)/ bigger size (Indian type ACE 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.	No	11.00		
20	Supplying and fixing new coloured vitreous chinaware floor mounted European type water closet of Model No: Elite EWC C0297/C0278 of approximate size (530mmx380mmx400mm)/ bigger size 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.	No	15.00		
21	Supplying and fixing 600mmx600mm approved size bevelled edge mirror of M/s. Saint Gobain/ Modiguard conforming to relevant IS, mounted suitably on the wall surface and fixed with brass chromium plated / Stainless steel flat head studs screws all necessary hardware etc.,complete all as specified and directed by Engineer-in-charge.	Each	18.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
22	Removing the existing MS/wooden Doors with frame carefully without damaging the adjacent area of any description & handing over to Civil Maintenance dept and Supplying and fixing new PVC heavy duty door shutters with frames manufactured by M/s.Sintex make 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, tower bolts, handles, hardware items etc.,complete all as specified and directed by Engineer in charge.	Sqm	60.00		
23	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/ 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	20.00		
24	Supplying and fixing 20mm thick polished black Granite slab on brick support walls for wash basin and for urinal partitions. Granite to be polished on one side for laying on brick support walls & granite to be polished both sides for urinal partitions 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 & urinal partitions 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 & urinal partitions. b) wastages. c) Brick wall supports will be measured & paid seperately under relevant item.	Sqm	55.00		
25	Supplying and fixing 15mm diameter brass chromium plated pillar cock of first quality conforming to relevant IS manufactured by M/s.ESS /Parryware (G5103A1/G3403A1)/ Hindware/ including necessary accessories etc., complete all as specified and directed by Engineer in charge.	Each	18.00		
26	Supplying & fixing 40mm diameter Bottle trap of first quality, approved brand conforming to relevant IS manufactured by M/s.ESS /Parryware (G3403A1/G5103A1/Johnson/ Hindware including necessary accessories etc., complete all as specified and directed by Engineer-in-charge.	Each	18.00		
27	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	17.00		
28	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	53.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
29	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	60.00		
30	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	16.00		
31	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	37.00		
32	Removing the existing urinal basin and stacking at a place all as shown & Supplying and fixing vitreous chinaware white wall hung ceramic urinal basin Model: C0583/C0575 (Combo set) of size minimum 380mmx405mmx590mm or bigger the size manufactured by M/s. Parryware/ Hindware/Cera/equivalent approved make including, flush pipe, waste coupling, waste pipe, accessories 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	37.00		
33	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/ etc.,complete all as specified and directed by Engineer-in-charge.	Nos	37.00		
34	Supplying and fixing 300mm diameter heavy duty, steel body exhaust fan manufactured by M/s.Bajaj/USHA/ brand conforming to relevant IS etc.,complete all as specified and directed by Engineer-in- charge.	Each	15.00		
35	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.	No	18.00		
36	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	10.00		
37	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/ Prominance /Veka 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	32.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
38	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	130.00		
39	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	350.00		
40	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		
41	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	8.00		
42	Providing and fixing new heavy duty Cast Iron chamber cover with frame and handles of approximate size 600x600mm etc., complete all as specified and directed by Engineer in Charge.	Kgs	130.00		
43	Dismantling/Removing the existing corrugated/semi-corrugated AC/GI/ FRP roof sheets including 'J' bolts, washers carefully at heights from the existing MS roof members, stacking the usable sheets at a place shown and shifting the unusable roof sheets to salvage stores inside the factory premises 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 is deemed to include for Providing & removal of scaffolding, staging/safety nets wherever necessary.	Sqm	45.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
44	Supplying & fixing 0.6mm thick galvalume single skin HI-Rib trapezoidal/approved profile PPGL colour coated sheet for roof of approved color & shade, 1060mm supply width, 975mm-1000mm covered width 29mm-30mm crest height, 24mm crest width with min. 195mm-200mm pitch minimum 0.50mm thick TCT, Galvalume(55% aluminum-43%Zinc Coating), 150 GSM with minimum yield strength of 550 Mpa. The sheet shall have wide pans with stiffening ribs manufactured by M/s JSW/TATA. The sheet shall be fixed by means of anticorrosive self drilling self tapping mechanically galvanised fasteners with integral EPDM washers. The scope shall include all sealing of joints, curves, edges or other accessories with silicon sealant. The sheet shall be laid with a minimum lap of 150mm at the ends and special male & female lapping at each side. The minimum lap of sheets with ridges, hips & valleys shall be 200mm. The sheets shall be secured to purlins by means of self driven screws or GI J or L hook bolts and nuts with bitumen and GI limpet washer as per the requirement of site and as directed, etc , complete all as specified and as directed by Engineer in charge. Note:- 1) The finished/Covered area of roof sheet excluding lap length shall be measured for payment. 2) The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder wherever necessary and protective measures etc.	Sqm	55.00		
45	Supplying, Fabricating, hoisting and erecting in position MS Structural steel for roof truss, purlins & cladding work using MS Structural steel sections viz., channels, plates, angles, cleats, flats, fixing to correct line & level including cutting, welding, bending to required shape, cleaning the rust and scales, shims & packing pieces required for erection at all elevation heights & levels etc.,complete all as specified and as directed by Engineer in charge. Note: a) The rate quoted is deemed to include for labour, welding machine, welding rods, gas etc. b) The rate quoted is deemed to include for scaffolding, staging/ladder & providing safety nets wherever necessary and protective measures etc.	Kgs	150.00		
46	Supplying and fixing brass chromium plated towel rail 600mm long of M/s. parryware /ESS/Hindware with all fittings, accessories etc., complete all as specified and directed by the Engineer in charge.	Nos	5.00		
	Total value of work excluding GST (Rs).				
	GST (Rs).				
	Total value of work inclusive of GST (Rs)				

Note:-1. The rate quoted for the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary. 2) The contractors/ prospective bidders shall visit the site and acquaint themselves with the site conditions before submission of bid/ quote.

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

Signature of the Contractor with seal