

BEML LIMITED, BANGALORE COMPLEX

TENDER REF: 6300039201

Date: 15.11.2024

ISSUED TO:	Period of contract:	03 Months(Project to be handed over by end of February)
	EMD :	Rs. 13,840/-

Sub: Construction of toilet blocks under 'Swachh Bharat Vidyalaya campaign at Government Higher primary school,Old Byppanahalli,Bangalore.

SCHEDULE 'A' - BILL OF QUANTITIES

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
1	Dismantling the existing Brick masonry wall in any thickness including disposal of debris outside the site premises which is not objected by any civic authorities and the quoted rate shall include for all lead & lift etc., complete all as specified and directed by Engineer in charge.	Cum	1.00		
2	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 or 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 activities .	Cu.M	3.00		
3	Earthwork excavation by mechanical/manual means not exceeding 1.50m in width and not exceeding 1.50m in depth and not exceeding area 10 sqm on plan in all kinds of soil but excluding hard rock for foundation/ pits including getting out the excavated earth, with a lead upto 50 mts, including dressing of sides, dewatering ground water/rain water, compaction including disposal of debris outside the site premises which is not objected by any civic authorities etc., complete all as specified and directed by Engineer in charge.	Cu.M	15.00		
4	Providing and laying in Position Plain cement concrete of mix proportion 1:4:8 using stone aggregate of 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 for the item shall be deemed to include for providing and removal of centering/shuttering wherever necessary.	Cu.M	4.00		
5	Providing and laying Plain Cement Concrete of mix proportion 1:2:4 average 75mm thick using 20mm/12.5mm graded granite aggregates for flooring, laid to a proper slope & gradient, well compacted,mechanical/manual mixing including curing etc., complete all as specified and directed by the Engineer in charge.	Cu.M	2.00		
6	Providing and constructing size stone masonry in cement mortar 1:6 for foundations with courses not less than 20cms height and providing bond stones at every 1.5mtrs apart in each course including chisel dressing and curing etc, complete all as specified and directed by engineer in charge.	Cum	4.00		

7	<p>Providing & laying in position TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameters for various locations & levels as shown in drawing, 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.</p> <p>NOTE: a) The rate quoted by the Contractor 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.</p> <p>b) Reinforcement will be measured based on actual qty placed in position on standard weight basis, no allowance will be made for rolling margin.</p> <p>c) Only authorized laps, chairs and spacers shall be measured and paid.</p>	Kgs	450.00		
8	<p>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.</p>	Cum	8.00		
9	<p>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: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.</p>	Cum	12.00		
10	<p>Rendering 15mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surface even & smooth, curing, tools & tackles etc., complete all as specified and directed by Engineer-in-charge.</p>	Sqm	110.00		
11	<p>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 CM 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: 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. 3) The basic cost of tiles shall not be less than Rs 70/sft.</p>	Sqm	15.00		

12	<p>Supplying and fixing coloured ceramic dado 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/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.</p> <p>2) 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.</p> <p>3) The basic cost of tiles shall not be less than Rs 70/sft.</p>	Sqm	60.00		
13	<p>Preparing of internal walls by scrapping, sandpapering, removing dust & applying 2 or more coats of Plastic emulsion paint of approved colour/shade manufactured by M/s. Asian Paints / Berger Paints- over a coat of primer and Putty etc., complete all as specified and as directed by Engineer in Charge.</p> <p>Note: The rate is deemed to include for Providing & removal of scaffolding wherever necessary b) Wastages. 3) Removing all splashes, dirt, etc. and leaving premises in a clean state.</p>	Sqm	35.00		
14	<p>Applying two coats of exterior emulsion paint (ACE) of first quality approved brand for external walls and colour manufactured by M/s.Asian Paints/Berger Paints over a coat of primer and putty 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/ suspending jhoola for painting, crack filling compound. etc</p>	Sqm	50.00		
15	<p>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 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.</p>	Sqm	7.00		
16	<p>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 and 200mm plastic exhaust fan fixed in ventilators ventilus of M/s. crompton/havells make etc complete to suite the overall size of openings all as directed and specified by the Engineer in charge.</p>	Sqm	2.00		

17	Supplying and fixing new coloured vitreous chinaware floor mounted European type water closet with low level PVC flushing cistren of 12 litres capacity of first quality, conforming to relavent IS, Manufactured by M/s Parryware/Hindware/equivalent make 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	2.00		
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18	Supplying and fixing white vitreous chinaware hand wash basin of approximate length 560 mm or approved size manufactured by M/s. Parryware (C8886/C8872/C8874)/ Hindware/Cera approved make conforming to relevant IS, with long pedestal of M/s. Parryware (C8887/C8873/C8875)/ Hindware/Cera jointed neatly finished with cement mortar and pointed in cement slurry/jointing powder with color pigment including all accessories such as 32 mm 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, labor etc., complete all as specified and directed by the Engineer-in-charge.	no	2.00		
19	Supplying and fixing vitreous chinaware white urinal basin manufactured by M/s. Parryware/ Hindware/Cera/equivalent approved make including flush pipe, waste coupling, waste pipe etc., of reputed manufacturer conforming to relevant IS 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	1.00		
20	Supplying and fixing Urinal Spreader of first quality approved brand conforming to relevant IS etc., manufactured by M/s Viking/Equivalent make etc.,complete all as specified and directed by Engineer-in-charge.	Nos	1.00		
21	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	6.00		
22	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	2.00		
23	Supplying & fixing 100mm diameter chromium plated grating of reputed manufacturer conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	Each	6.00		
24	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	2.00		
25	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	2.00		
26	Returning & filling under floors layer by layer including consolidation, well ramming etc., complete all as specified and as directed by engineer in charge.	Cum	2.00		

27	Providing & fixing 110mm diameter 6kg/cm2 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, tail pieces & 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	65.00		
28	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	35.00		
29	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 Sintex make including connecting up pipes, with all necessary hardware items etc., complete all as specified and directed by Engineer in charge.	NO	1		
30	Supplying and fixing 20mm thick polished black Granite slab for platform and jointed neatly with cement mortar and pointed with black oxide or coloured cement compound to match the colour of granite including bull nosing to the exposed edges half round etc and . Note: The rate quoted for the item deemed to include for wastages.	Sq.M	1		
31	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.	no	2.00		
32	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	2.00		

33	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.	no	2.00		
34	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	3.00		
35	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.	NO	2.00		
36	Supplying and fixing 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.	SQM	1.00		
	Total Value of work excluding GST in (Rs)				
	GST % & in Rs.				
	Total Value of work inclusive of GST in Rs.				

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

Signature of the Contractor with seal