

BEML LIMITED, BANGALORE COMPLEX.

TENDER Ref:- 6300036661

Date:- 27.10.2021

ISSUED TO:	PERIOD OF CONTRACT	Four (04) MONTHS
	EMD: -	Rs. 2,50,000/-

Sub: Proposed Construction of covered Accommodation for storing METRO materials at newly laid hardstanding area near coconut grove, 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	Demolition/ dismantling the existing cement concrete flooring/ hard standing concrete in any description and in any position etc; complete all as specified and directed by Engineer in charge. Note:- The dismantled materials should be removed immediately from the premises without disturbing the regular production activities and the quoted rate is deemed to include for all lead & lift etc.	Cu.M	28		
2	Earthwork excavation by mechanical means/ manual means for foundation trenches, pits, drains not exceeding 1.50M in width and not exceeding 1.50Mts depth and not exceeding area 10 Sq.m on plan in all kinds of soil, but excluding hard rock for foundations/ pits including getting out the excavated earth, with a lead up to 50Mts, including dressing of sides, ramming of bottom, compaction, dewatering ground water/rain water, lift up to 1.5mtr etc., complete all as specified and directed by Engineer in charge.	Cu.M	176		
3	Earthwork excavation by mechanical means/ manual means for foundation trenches, pits, drains not exceeding 1.50M in width and exceeding 1.50 Mts depth & not exceeding 3.00Mts depth and not exceeding area 10 Sq.m on plan in all kinds of soil, but excluding hard rock for foundations/ pits including getting out the excavated earth, with a lead up to 50Mts, including dressing of sides, ramming of bottom, compaction, dewatering ground water/rain water, lift up to 1.5mtr etc., complete all as specified and directed by Engineer in charge.	Cu.M	53		
4	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.	Cu.M	86		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
5	Supplying and laying soling of 150mm compacted thickness below floor/foundation with good broken boulders/ soling or quarried stones of 100 to 150mm size laid in layers,well packed to the correct line & level, interstices filled with stone chips, sand or moorum and consolidated including transportation, etc., complete all as specified and as directed by Engineer in charge. Note: For payment consolidated thickness shall be considered.	Sq.M	135		
6	Carting away unwanted and unusable excavated soil, debris outside the site premises to a distance not exceeding 5.0KM including all lead and lift etc., complete all as specified and directed by Engineer in charge. Note :- The measurements shall be made after deducting the filling quantities from excavated quantities.	Cu.M	172		
7	Providing and laying in position plain cement concrete of mix proportion 1:3:6 using 40 mm down graded granite aggregate, machine mixed concrete 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 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	24		
8	Providing and laying in Position Plain cement concrete of mix proportion 1:2:4 using 20mm down graded granite aggregate, for hard standing concrete (150mm thick) for paving finished top surface with wooden float laid in layers well compacted 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.	Sq.M	135		
9	Providing, mixing and laying in position Reinforced Cement Concrete work of M30 grade using 20mm down graded granite aggregate of M30 (Minimum 7.60bags of cement should be used for one cubic meter of concrete) for foundation, footings, raft, plinth beams, RCC drains, retaining wall to protect the earth & pedestals,etc complete including compacting and necessary curing 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 centering/Shuttering.	Cu.M	90		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
10	Providing 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 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.	MT	8		
11	Supplying, fabricating, hoisting and erecting in position Mild Steel structural steel works fabricated from rolled steel section with plates, trusses, purlins, columns, canopies, lattice girders supports for the utility pipings and electrical supports of works all as per the drawings together with providing and fixing bolts, nuts, washers, angles channels joists of various sizes and other structural elements including cutting, welding, bending to shape bolting, cleaning the rust and scales to the satisfaction of Engineer in charge, sims and packing pieces which will be required for levelling of the work, applying two coats of synthetic enamel paint of first quality, approved brand and colour, Manufactured by M/s Asian paints/Berger over a coat of primer, all lead, lift, materials, labour, tools and tackles, crane devices for erection at all elevations, levels and heights etc complete all as specified and directed by Engineer-incharge. Note: The rate quoted for the item shall deem to include for providing and removal of scaffolding/staging wherever necessary.	MT	50		
12	Supplying, fabricating and embedding MS anchor bolts, pipe sleeves, pipe fittings channels, angles, plates foundation bolts and all other type of inserts fixing of foundation bolts with welding in pedestal/columns of any size, shape and thickness at any locations as specified with necessary supports as per design, drawing & specifications. Foundation bolts shall be welded to pedestal/column reinforcement bars for proper alignment & center line, to maintain desired level, including cost of labor, materials, scaffolding, welding, transportation, tools & plants, loading and unloading charges with lead & lifts at all levels etc complete all as specified and directed by Engineer-in charge.	Kgs.	600		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
13	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 with a minimum lap of 200mm with wide pans with stiffening ribs for efficient water shedding & special male/female ends with full return leg on one lap for purlin, conforming to relevant IS 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. Note:- The finished/Covered area of roof sheet excluding lap length shall be measured for payment.	Sq.M	1750		
14	Supplying & fixing M/s. JSW/TATA make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue) sheeting for cladding 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 with a minimum lap of 200mm with wide pans with stiffening ribs for efficient water shedding & special male/female ends with full return leg on one lap for purlin, conforming to relevant IS 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. Note:- The finished/Covered area of roof sheet excluding lap length shall be measured for payment.	Sq.M	2000		
15	Supplying and fixing M/s. Bayers/JSW/Everest make corrugated 2mm thick uniform thickness polycarbonate sheet for roof conforming to relevant IS with necessary hardware screws/washers and sealant, sheets fixed to suit the existing galvalume roof sheet profile such that no leakage occurs etc,. complete all as specified and directed by Engineer in charge.	Sq.M	36		
16	Providing and constructing concrete solid block masonry of size 400 x 150 x 200mm / required size in cement mortar 1:6, raking of joints including necessary curing, tools & tackles etc complete all as specified and directed by Engineer in charge.	Cu.M	30		
17	Providing plastering 15mm thick in Cement Mortar 1:6 over brick /cement concrete surfaces, finishing the surface smooth and even including raking joints, hacking the concrete surfaces as required at site including curing, tools & tackles, etc complete all as specified and directed by Engineer in charge.	Sq.M	415		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
18	Supplying and fixing 0.50mm thick Gal valume ridge sheet , fixed to the MS structural steel members etc including all hardware/ fixtures like colour matched nylon head self tapping corrosion protected mechanically galvanised fasteners with integral washer including all accessories etc , complete all as specified and as directed by Engineer in charge. Note:- a) The finished/Covered area of roof sheet excluding lap length shall be measured for payment.	RM	71		
19	Supplying and fixing rolling shutters made of 80x1.25mm MS laths, interlocked together through their entire length and jointed at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454-part-1 including 1.25mm thick MS top cover for rolling shutters and all surface painted with 2 two coats of synthetic enamel paint of approved colour over a coat of primer, all fitted and fixed including all accessories etc.,complete all as specified and directed by Engineer in charge. Note:- clear area of shutter shall be measured for payment.	Sq.M	30		
20	Preparing the newly plastered surface of walls and applying with 2 coats of approved & first quality cement based paint over a coat of wall primer manufactured by M/s Asian paints/Berger Paints of approved colour etc, complete all as specified and directed by Engineer in charge.	Sq.m	415		
	Note:- (1) The rate quoted for all the above items is deemed to include for providing and removal of scaffolding/staging as required for execution of the work under the relevant item.				
	(2) Interested bidders/ contractors are requested to visit the site and acquaint themselves with the site conditions before submission of their quote/ offer for the work.				
	(3) The bidders may please note that L-1 contractor on whom the contract would be awarded is required to submit the Civil & Structural execution drawings for the approval of the Construction Dept./ Engineer in charge before commencement of work and no extra cost/rate would be allowed for the same.				
	Total value of work excluding GST				
	GST				
	Total value of work including GST				

Total Amount in words Rupees -----.

Signature of the contractor with seal