

BEML LIMITED, BANGALORE COMPLEX

Tender Ref: 6300029145

DATE:-30.08.2019

ISSUED TO:	Period of contract:	THREE (03) MONTHS
	EMD :	Rs. 2,06,000/-

Sub: Providing covered roof towards western side for track no.3 & 4 of delivery hangar (115Mtrs length from existing roof) at BEML Ltd. Bangalore Complex, 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.	Cum	18		
2	Earthwork excavation by mechanical means/ manual means in all kinds of soil not exceeding/ exceeding 1.50Mtrs width but excluding hard rock for depths as mentioned below including dressing of sides, dewatering ground water/rain water, compaction etc complete all as specified and directed by Engineer in charge				
	a) Depth up to 1.50 M	Cum	140		
	b) Depth from 1.50M to 3.0M	Cum	28		
3	Returning & filling the available earth in plinth, trenches, foundations or around plinth with approved good quality 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 directed by Engineer-in-charge. Note: Net consolidated volume shall be measured for payment purposes	Cum	66		
4	Providing and laying soling of 150mm compacted thickness below floor/foundation with approved quality broken boulders or quarried stone 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.	Sqm	120		
5	Carting away unwanted and unusable excavated soil, debris outside the site premises to a distance exceeding 5.00Km including transportation, all lead and lift etc complete all as specified and directed by Engineer-in-charge. Note:- measurement shall be made after deducting the filling quantities from excavated quantities.	Cum	100		

Sl. no	Description	Unit	Qty	Rate/ unit in fig. & in words Rs.	Amount. Rs.
6	Felling of tree, grubbing up the tree trunk, girth exceeding 450cm upto 600cm including cutting of trunk portion protruding over ground, cutting of branches, digging out roots, filling holes and levelling off ground, stacking of serviceable material and removing of unserviceable material to a distance not exceeding 50m and clearing site etc., complete all as specified and directed by Engineer-in-charge	Nos.	4		
7	Providing and laying in position plain cement concrete of mix proportion 1:4:8 using 40 mm down graded granite aggregate, laid in layers not exceeding 15cms thick well compacted for foundation bed and other similar works including curing etc complete all as specified and directed by Engineer in charge	Cum	9		
8	Providing mixing and laying in position 150mm thick Plain cement concrete of mix proportion 1:2:4 for hardstanding/ flooring using 20mm down graded granite aggregate, machine mixed and laid in layers of required thickness, well compacted and finishing the surface even and smooth etc., complete all as specified and directed by Engineer in charge.	Sqm	82		
9	Providing, mixing and laying in position RCC M25 grade (Ready Mix) concrete using 20mm down graded granite aggregate for footings, pedestals, columns and for similar works laid with proper compaction using vibrator 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 be deemed to include for tools & tackles, plant & machinery charges etc complete. (c) The rate quoted is deemed to include for providing, erecting and removal of leak proof formwork for the work (Centring and shuttering including strutting, propping etc) using wooden formwork supports, metal propping, MS pipe ties, bracings, staging, applying of chemical / releasing agent to wood/steel surfaces to avoid sticking of cement so as to have a smooth finish at all levels while casting the concrete member	Cum	62		
10	Providing TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameter for various location & at all levels, cut to length & bent to required shape, binding spirally with MS wire (annealed) of size not less than 0.9mm 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) Reinforcement shall be measured based on actual quantity placed in position on standard weight basis and no allowance shall be made for rolling margin. b) Only authorised laps, chairs & spacers shall be measured & paid.	MT	7.0		
11	Supplying, fabricating, hoisting and erecting in position Mild steel structural steel work fabricated from rolled steel section with MS plates, angles, channels etc., for trusses, purlins, columns, canopies, lattice girders including cleaning the rust/scales to the satisfaction of the Engineer-in-charge and providing painting with 2 coats of synthetic enamel paint manufactured by M/s. Asian/Berger of approved colour over a coat of red oxide primer etc., complete all as specified and directed by the Engineer-in-charge	MT	50		

Sl. no	Description	Unit	Qty	Rate/ unit in fig. & in words Rs.	Amount. Rs.
12	Supplying & fixing in position MS foundation bolts 16mm / required dia inclusive of threading of required length, cutting, welding, machining including nuts & washers of required size and dia for holding the rails, welding the bolts to the reinforcement to the correct line and level etc complete all as specified and directed by the Engineer-in-charge. Note:- The quoted rate is deemed to be inclusive of bolts,nuts,washers etc.	Kgs.	450		
13	Supplying & fixing roof sheet manufactured M/s. JSW/TATA/ BHUSHAN 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%Zinic Coating) 150 GSM with 550 Mpa minimum tensile strength conforming to IS277, Alloy Coated conforming to As 1397 inclusive of transportation, 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: Clear area of roof sheet (excluding lap length) shall be measured for payment	Sqm	1975		
14	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 suite the existing galvalume roof sheet profile such that no leakage occurs etc., complete all as specified & directed by Engineer in charge. Note: Clear area of roof sheet (excluding lap length) shall be measured for payment	Sqm	150		
15	Supplying & fixing cladding sheet manufactured M/s. JSW/TATA/BHUSHAN make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue) sheeting 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%Zinic Coating) 150 GSM with 550 Mpa minimum tensile strength conforming to IS277, Alloy Coated conforming to As 1397 inclusive of transportation, 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: Clear area of cladding sheet (excluding lap length) shall be measured for payment	Sqm	380		
16	Providing and constructing concrete solid block masonry wall of size 400 x 150 x 200mm / required size set in cement mortar 1:6 including necessary curing, tools & tackles etc complete all as specified and directed by Engineer in charge	Cum	20		
17	Providing 15mm thick plastering in Cement Mortar 1:6 for masonry/ concrete surfaces, finishing the surface smooth and even using a thin coat of cement paste, racking joints including hacking the concrete surfaces wherever required and curing etc complete all as specified and directed by Engineer in charge.	Sqm	250		

Sl. no	Description	Unit	Qty	Rate/ unit in fig. & in words Rs.	Amount. Rs.
	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 the L-1 contractor on whom the contract would be awarded is required to submit the civil & structural excution 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			Rs.	
	GST			Rs.	
	Total value of work inclusive of GST			Rs.	

Total Amount in words Rupees_____

Signature of the Contractor
with seal