

BEML LIMITED,
(Govt Of India, Ministry of Defence)

Spare Parts depot, Plot No : B14&B23, TSIC-IDA, Moula-Ali, Hyderabad - 500 040

BOQ FOR CONCRETE HARD STANDING WITH SHELTER (Rfx No : 6300032242 Dt : 15.03.2020)

SlNo	Description of Item	Nos	L(Mtr)	B(Mtr)	H/D(Mtr)	Qty(In Cu.m)	Details of Work
1	Earth work Excavation						a) Earth work in excavation in all types of ordinary and hard soil by mechanical means (Hydraulic Excavator)/Manual means including stacking excavated soil , dressing of sides, and ramping of bottom, dewatering of accumulated water from any source and keeping the surface dry for subsequent works b) Excavation of soil for 16 No's columns upto 2 MTs/Until hard soil, back filling of available excavated earth in trenches of columns
	For CRS	1.00	42.68	0.76	0.90	29.19	
	For Coulmns	16.00	1.20	1.20	2.00	46.08	
	Total					75.27	
2	CC BED						Laying of cc Bed with 1:4:8 proportion using river sand, 40 MM metal & 53 Grade cement for laying of cc bed hardning/rolling by mechinal/manual means, watering all related works as directed by officer in charge
	For CRS	1	42.68	0.76	0.15	4.87	
	For Coulmns	16	1.20	1.20	0.15	3.46	
	For Flooring	1	30.04	5.66	0.15	25.50	
	Total					33.83	
3	RCC WORK						Construction of RCC for foundation work of columns base & plinth beams using 1:2:4 proportion using river sand, 20 MM metal and 53 Grade Cement with 12 MM Tor Steel Jindal/JSW for column base and plinth beams, anchoring of J bolts in beams and mounting plates for errection of Columns for shed and all related works as directed by officer incharge (minimum 100kg steel per cubic metere to be used for RCC bed)
	Footings	16	1.05	1.05	0.22	3.88	
	Footings	16	0.58	1.0	0.22	2.04	
	Footings	16	0.3	0.3	2	2.88	
	Plinth Beams	1	73.16	0.22	0.3	4.83	
	Total					13.63	
4	C.R.S Masonary	1.00	42.68	0.45	0.75	14.40	CRS masonry in cement motor 1:6 proportion using 53 Grade cement and river sand with all leveling, curing and all related works as directed by officer in charge.
	(Coursed Rubble Stone Masonry)	1.00	42.68	0.30	1.20	15.36	
	Total					29.77	

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5	FLOORING	1.00	30.04	5.66	170.03	Back filling of excavated earth with gravel, Watering, hardening by mechanical/manual means, ramping and drying the earth for laying of CC Bed - 131 Cum / a) Laying of 1st layer of CC Bed with 1:4:8 proportion of 53 Grade Cement, River Sand and Mix metal (40 MM & 20 MM) of 6 inch thickness - 25.5 cum b) Laying of 2nd layer of CC bed with 1:2:4 proportion of 53 Grade Cement, River Sand and 20 MM Metal of 3 inch thickness for VDI flooring using 8 MM TATA steel Jindal/JSW, with 3 X 3 Ft mesh, "Hardener" for the flooring and vibrator if required as directed by officer in charge - 12.75 cum
6	Steel Columns	16 Nos			16 Nos	12"x9" inches x 8-10mm thickness 'I' Section Columns of height 8 Nos x20ft and 8 Nos x18ft to be provided with suitable size bolt nuts and base plates, Fixtures and welding / grinding wherever required, two coats of primer and two coats enamel paint as directed by officer incharge and should be strong enough to withstand wind load, wind force, seismic load of the area since the height of shed is 20fts (minimum 3T steel to be used for coulms)
7	Trusses & Purlins for Shed Area	1.00	30.04	5.66	170.03	L Type angular with minimum 50mm x 50mm x 6mm Thick to be used for purlins along with required bolts, base Plates fixtures along with 2 coats of primer and L Type angular with 100mmx100mm x 6MM thick for Trusses along with required collar plates, Bolts, nuts and weldings for ties with 2 coats of primer. The trusses structure should be strong enough to withstand wind load, wind force, seismic load of the area since the height of shed is 20fts. Approx 3T steel to be used for trusses
8	Colour coated JSW/tata Sheet Roofing	1.00	30.48	6.10	185.93	Covering and fixing the structure with MS color coated roofing sheet of make JSW/TATA not less than 2mm thick Including bolts, nuts, washers, welding, grinding, erecting, finishing

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		and all related works as directed by officer in charge					
9	Colour coated JSW/tata Sheet side walls	3.00	6.10		6.10	111.63	Covering of 3 Sides of shed with MS color coated roofing sheet not less than 2mm thick of make JSW/TATA. Including 4 inch purlin, bolting, washers, welding, grinding, erecting, finishing etc, as directed by officer in charge
	Total					111.63	
10	Filling of soil (gravel) for CC Road	1.00	65.00	6.70	0.60	261.30	Excavting and Filling of Gravel of 2 Ft Height, 22 Ft With and 210 Ft length for laying of CC road and rolling, Watering, hardening and all related works as directed by officer in charge
11	CC BED M-10 for Road	1.00	65.00	4.88	0.15	47.58	Laying of 1st layer of CC road with M-10 Grade using 40 MM and 20 MM mixed metal with 53 Grade Cement and river sand (or) Ready-mix of Ultratech/ACC of M-10 grade for the base layer (16FT x 210ft x 0.5ft) as directed by officer incharge
12	CC BED M-20 for Road	1.00	65.00	4.88	0.15	47.58	Laying of top layer (16FT x 210ft x 0.5ft) of CC road with M-20 Grade using 20 MM Metal, 53 Grade cement and river sand (or) Ready-mix of Ultratech/ACC of M-20 grade , leveling, compacting Manually/Vibrator, curing and finishing CC road as directed by officer in charge
13	Painting shed / one side wall	1.00	30.48	6.10		185.93	Painting of one side of the wall at the constructed area with Asian paint Tractor emulsion by scrubbing the old surface with wire brush and cleaning the surface area and applying 2 coats of Putty and applying the 2 coats of paint and cleaning the surface, windows and complete area after painting as directed by office in charge

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14	Electrical LED lights with wiring	20 Nos					Providing and fixing of 150 to 200 Wts LED Crompton/Phillips/Wipro with individual switches of legrand make and electrical wire of approved qualitypreferbly finolex or havells make 3core/2.5sqmm (All control switces to be inside the shed) as directed by officer incharge. One 3phase MCB to be provied for total control of lights (No of Out-door fillod lights and indoor lights will be as directed by officer incharge)
15	Gear operated Rolling Shutter (13ftx15ft)	1 No					13ft width x15ft height Rolling Shutter of Gear operated from both the sides of shed of approved quality / brand / confirming to ISI standards to be fixed / painted with 2 coats of primers and 2 coats of asian enamel paint as directed by officer incharge (The Rolling shutter to be fixed by removing two windows and portion of wall to be removed and re-worked with cement mortar / brick work etc.. after fixing of the shutter and any electrical connections affecting while removing windows and wall to be re-routed properly with out affecting our regular business activities by the contractor / succesfull bidder) The shutter shall consist of minimum 80 mm wide MS laths 1.25 mm thick
16	Providing spikes to avoid peigon menance						Sufficient no of spikes to be provided on plinth beams and trusses inside the shed so that peigons should not sit on beams and trusses and spoil the constructed area of shed
17	Fabricating / Providing one ladder inside the store for climbing up and storing parts	1 No					One ladder to be fabricated width 4ft length 20ft height (approx) wih footing width and height 1.5 ft of each , fixed type for climbing up for storing filters as directed by officer incharge
18	Curved couloured sheet for rain water	1 No	30.48				Curved metal sheet to be provided for flow of rain water at both end points of shed in roof landing Area with all required bolts nuts, welding, plates, channels etc..

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