

Name of work :- Construction of workshop sheds (Three Sheds) for permanent Campus of IIT Hyderabad at Kandi, Sangareddy.
(Three Nos - Shed 1A Size 30 M X 30.48 M X 7 M (9839Sqft) , Shed- 2A of Size 30 m X 7 M (4919 Sqft) and Shed- 2B of Size 30 m X 7 M (4919 Sqft)

SCHEDULE OF QUANTITIES						
Sl.No.	Description of Item	Unit	Qty	Rate (Rs.)		Amount (Rs.)
				In Figures	In Words	
1.0)	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	7315.00			
2.0)	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.					
2.1)	All kinds of soil	Cum	5074.00			
3.0)	Extra for every additional lift of 1.5 m or part there of in excavation / banking excavated or stacked materials.					
3.1)	All kinds of soil	Cum	376.00			
4.0)	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming consolidating and dressing complete.	Cum	268.00			
5.0)	Filling available excavated earth (excluding rock) in trenches, plinth,sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	4588.00			
6.0)	CARRIAGE OF MATERIALS By Mechanical Transport including loading, unloading and stacking					
6.1)	Carriage of earth up to 2 Km lead	Cum	2411.00			
7.0)	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
7.1)	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	Cum	301.00			
8.0)	Centering and shuttering including strutting, propping etc. and removal of form for all heights:					
8.1)	Foundations, footings, bases for columns ect for mass Concrete	Sqm	426.00			

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8.2)	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	419.00			
8.3)	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	Sqm	1214.00			
8.4)	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	421.00			
9.0)	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
9.1)	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	176.00			
10.0)	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately)					
10.1)	All works upto plinth level	Cum	489.00			
10.2)	All works above plinth level upto floor V level	Cum	41.00			
11.0)	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kgs	468.00			
12.0)	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :					
12.1)	1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	242.00			
13.0)	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :					
13.1)	1:4 (1 cement: 4 fine sand)	Sqm	1133.00			

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14.0)	20 mm cement plaster of mix :					
14.1)	1:4 (1 cement: 4 coarse sand)	Sqm	181.00			
15.0)	12 mm cement plaster finished with a floating coat of neat cement of mix :					
15.1)	1:4 (1 cement: 4 fine sand)	Sqm	1581.00			
16.0)	Neat cement punning.	Sqm	181.00			
17.1)	Finishing walls with water proofing cement paint of required shade :					
17.1)	New work (Two or more coats applied @ 3.84 kg/10 sqm	Sqm	912.00			
18.0)	Colour washing such as green, blue or buff to give an even shade :					
18.1)	New work (two or more coats) with a base coat of white washing with lime	Sqm	800.00			
19.0)	Reinforcement of R.C.C. work including sraighttening, cutting, bending, placing in position and binding all complete.					
19.1)	Thermo-Mechanically Treated bars.	Kgs	32306.00			
20.0)	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	1716.00			

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21.0)	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm pressed, mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:					
	Profile B					
21.1)	Fixing with adjustable lugs with split end tail to each jamb					
	Door frames	Rmts	37.00			
22.0)	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					
22.1)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws					
	Door Shutter	Sqm	25.00			
23.0)	Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.					

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23.1)	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	Sqm	97.00			
24.0)	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.					
24.1)	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	122.00			
25.0)	Providing and fixing ball bearing for rolling shutters.	No's	24.00			
26.0)	Extra for providing mechanical device chain and crank operation for operating rolling shutters.					
26.1)	Exceeding 16.80 sqm in area	Sqm	122.00			
27.0)	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	185.00			
28.0)	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	2172.00			
PEB Structure						
29.0)	Design, Fabrication, Supply & Erection of Structural items, Sheeting, and Other Accessories					
29.1)	Shed 1A : Size 30 M (L) X 30.48 M (B) X 7 M (H) (9839 Sqft) with Provision for EOT Crane . (Only crane rail clips to be included)	Unit	1			
29.2)	Shed 2A : Size 30 M (L) X 15.24 M (B) X 7 M (H) (4919 Sqft)	Unit	1			

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29.3)	Shed 2B : Size 30 M (L) X 15.24 M (B) X 7 M (H) (4919 Sqft) with Provision for only Clips to erect 5MT EOT Crane -1 No.(Crane Cost not included)	Unit	1			
TOTAL AMOUNT IN RUPEES						

ASSISTANT ENGINEER(CIVIL)

SUPERINTENDING ENGINEER(CIVIL)

CONTRACTOR