

Schedule of work

Name of Work: Supply, Installation, testing & Commissioning of Stadium mast pole along with luminaries for IACS, Jadavpur, Kolkata					
SI No.	Item description	Unit	Quantity	Rate	Amount
1	Supply, Installation, Testing & Commissioning of 12 meter high polygonal Stadium Mast with accessories viz. Maintenance platform, caged ladder, foundation bolt, nut, washers, lightning arrestor, cross-arm, U-bolts, anchor plate and template etc. as per the drawing, technical specification and standards provided with the NIT. (This job includes loading, unloading and maneuvering of the pole installation process using Hydraulic crane, which has to be arranged by the bidder) NOTE: OEM authorization mandatory	No.	2		
	Make: Utkarsh/ Transrail/Skipper/Valmont/Bajaj				
	Electrical Works				
2	Supply & fixing of outdoor type energy efficient die cast aluminium housing, toughened glass cover LED two module flood Light array with heat sink, Electronic Driver per module, IP66/65, IK 08/07, rated sytem power 500 watt per array with narrow and wide beam angle options. Minium system efficacy of >140 lm/w. The luminaire should have Secondary polycarbonate Lens with a color temperature of 5700K and CRI>70. The luminaire shall meet with THD<10% and the luminaire should have the features of Input voltage: 220V AC, 50Hz. HPF Surge Protection of 10KV. At least 50,000 burning hours at L-70. Power factor> 0.95. Luminous Flux : 55,000 lumen. NOTE: OEM authorization mandatory				
a)	500W Narrow Beam angle (30°)	Nos.	4		
b)	500W Wide Beam angle (60°)	Nos.	12		
	Make: (Phillips/Crompton/Havells)				
3	Supplying and fixing following way,single pole and neutral,sheet steel,MCB distribution board, 240V,on surface/recess,complete with tinned copper busbar,earth bar din bar, interconnections,powder painted including earthing etc.as required.(But without MCB/RCCB/Isolator				
a)	8-way, Double door	No.	2		
	Make: Legrand/L&T/ABB/C&S/Havells				
4	Supplying & fixing of following rating 240V, 10KA, 'C' curve MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	32 A Triple pole & neutral	Nos.	2		
b)	16A single pole	Nos.	6		
	Make: Legrand/L&T/ABB/C&S/Havells				
5	Supplying of following PVC sheathed/XLPE insulated armoured multistrand aluminium power cable of 1.1 KV grade as per IS : 7098 (part-1) 1988 etc. as required.				
a)	4 core X 10 sq.mm	Meter	50		

SI No.	Item description	Unit	Quantity	Rate	Amount
6	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.				
a)	4 core X 10 sq.mm	Meter	50		
7	Supplying & making end termination with brass compression gland and Aluminium lugs for following size of PVC insulated & PVC sheathed /XLPE insulated 'Al' conductor power cable of 1.1 KV grade as required.				
a)	4 core X 10 sq.mm	Nos.	2		
8	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend couplers etc. conforming to IS 14930, part II complete with fitting and cutting, jointing etc in the existing trench, complete as required. (This job includes cutting the road and making good the same with M25 concrete).				
a)	63 mm dia (OD - 63 mm & ID - 51 mm.)	Meter	50		
9	Earthing with GI earth pipe 4.5 meter long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with supplying of salt, charcoal etc., as required.	Nos.	2		
10	Supplying and laying of 25X5 mm GI strip at 0.50 meter below ground as strip earth electrode including connection/termination with GI nut bolt and spring washer etc., as required	Meter	10		
11	Supplying & drawing following sizes of FRLS PVC insulated copper conductor 3 core cord in the existing surface / recess steel/PVC conduit as required.				
a)	2 X 6 Sq.mm + 1X 6 Sq.mm earth wire	Meter	90		
	Make: Finolex, polycab, KEI, Havells				
12	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following sizes of PVC insulated and PVC sheathed/ XLPE insulated aluminium conductor cable of 1.1 KV grade, as required.				
a)	4 core 10 Sq.mm	Nos.	2		
	Make: M3/ Raychem				

Foundation					
SI No.	Item description	Unit	Quantity	Rate	Amount
13	Earth work in excavation of foundation trenches or pit, in all sorts of soil including removing, spreading or stacking the spoils within a lead of 75 m as directed by Engineer. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.	%Cu.M	44		
14	Earth work in filling in foundation trenches with good earth, in layers not exceeding 150 mm including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)	%Cu.M	36.00		
15	Ordinary Cement Concrete (Mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement.	Cu.M	1.10		
16	Controlled Cement Concrete with well graded stone chips (20 mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS:456 of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer, consumption of cement will not be less than 320 kg of cement with super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula. [Using M 30 Grade of Concrete]	Cu.M	8.00		
17	Hire and labour charges for shuttering with centering and necessary approved thick hard wood planks of approved thickness (25 mm to 30 mm thick wooden shuttering) for side shuttering of foundation concrete and P.C.C.	Sq.M	22.00		
18	Reinforcement for reinced concrete work in foundation including initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction of engineer.	M.T	0.440		
19	Plaster to wall, ceiling etc. with coarse sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface including throating, nosing and drip coarse where necessary. Thickness of Plaster is 20mm with 1:6 ratio. The rate in inclusive required scaffolding and staging at any level.	Sq.M	15.00		
20	Supplying, fitting and fixing of 40 mm dia PVC pipes of approved make of Schedule 80 (medium duty) inside the foundation for entry of cable.	Metre	3.00		
			Total		
Rupees.....Only					
NOTE:The quoted rate shall be inclusive of all taxes & duties, levies, cess etc i/c GST also. Nothing extra will be paid to the Contractor except the accepted rate.					
GST No:					
HSN/SAC code:					
CGST@ 9% considered in the above BOQ					
SGST@ 9%Considered in the above BOQ					