



INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
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TENDER ENQUIRY NO- : IITG/IPM/NIT/C/2022-23/15	Dated	15.11.2022
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NAME OF WORK: Design, Supply, Installation & Commissioning of 30.50mtr (100 feet) High National Flag Mast at IITG campus

ESTIMATED COST- Rs 25,00,000.00	EMD	50,000.00
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FINANCIAL BID						
Name of the Contractor/Bidder:						

SI. No.	Item Description	Quantity	Units	Rate in figure (₹)	Rate in words	Amount (₹)
1	2	3	4	5	6	7
1	Supply of 30.50mtr flag mast with technical specifications of Make: Bajaj/Philips/ Valmont/ SSKA or equivalent IITG approved make with Design standard: Technical Report no.7 High Masts for lighting of ILE, Basic wind speed 62.5m/sec as per IS: 875 (Part-3), design life of 25 years with terrain category-2 and topography: flat, No of sections:3, material (Shaft or Gussets etc) of High Tensile Steel Sheets conforming BS EN 10025 S355 grade, finishing with hot dip galvanization conforming BS EN ISO 1461, Base and top dia (A/F) @ 610mm and 150mm respectively(Tolerance -0 / +3 mm), with plate thickness (Top-3mm, middle-4mm, Bottom-5mm), High mast natural frequency calculation conforming SABS 0225 with flange / door stiffner as per IS-2062. The crosssection of mast standard shall be 20 sided polygonal shaft along with opening and door at base as per BS EN ISO 1461 (1500 x 400 mm). The diameter of base plate shall be 840mm and thickness shall be 30mm having 16 nos 36mm hole to suitable for M30 x 850Lg anchor bolt etc complete with 14nos stiffner plates and 2nos lifting log as per direction of Engineer-in-Charge. The shaft shall be PU painted (white in colour) with a base coat of Etch primer. It shall also include FRP decorative dome on top of the Flag Mast as per direction of EIC.	1	no			0.00
2	Design & preparation of structural and architectural drawing of RCC foundation in accordance with the drawing specifications of the 30.50mtr high flag mast and Sub soil data provided by IITG. The structural design and drawings should be vetted through the Civil Engineering Department of IIT Guwahati before start of the work. In case the design and drawings are not found acceptable by the vetting authority, the contractor has to execute the work as per the modified design and drawing without any additional cost. Necessary vetting charges payable to the CE Department of IITG shall be borne by the contractor. The rate should be inclusive of construction of RCC foundation as per the vetted drawings, soil improvement with stone boulder soling of minimum of 300mm thick at the founding level as per SSI report, supply of materials, labour etc. complete as per the approved drawings & as per the technical specification and as directed by EIC. The vetted structural design & drawings shall be submitted to EIC prior to the start of the work.	1	job			0.00
3	Supply, installation, testing & commissioning of system for raising lowering of flag which shall have double drum winch, SWL 70kg (SGDD 30/6 PB: Integral motor with motor with capacity 2HP, no of speed 6/4 pole single speed with mechanical tripping facility.It shall have the wire rope SS galvanised @ 6mm dia for flag and for balance weights.	1	set			0.00
4	Supply and fixing of foundation bolts conforming TS 600N/sqmm, M30x850mm length, YS- 405N/sqmm, manufactured from special steel along with nuts, washers, anchor plates and templates etc complete as per design standard or direction of EIC.	1	set			0.00
5	Supply, installation, testing & commissioning of system for LED Aviation light of Bajaj/philips/Valmont make or equivalent etc including required copper cable of 3C x 2.5sqmm for the wiring etc complete.	2	no			0.00
6	Supply, installation, testing & commissioning of system of LED Floodlight type @350 Watt LED of Bajaj or Philips or Valmont make etc complete suitable for illumination of flag mast.	2	no			0.00
7	Supply, installation, testing & commissioning of 5mtr high hot dip galvanised octagonal pole suitable to mount one no. nonintegral flood light fittings at top and control gearbox mounting arrangement at bottom along with the foundation bolts manufactured from special steel along with nuts, washer etc complete with required accessories and copper cable of 3C x 2.5sqmm for the wiring of luminaries etc complete.	2	no.			0.00

8	Supply, installation, testing & commissioning of system of GI pipe earthing for high mast with 2.5mtr long 40mm dia GI pipe including connection to high mast earth terminal with 25x3mm GI flats with all the materials including labour (2 nos per mast required) etc complete as per design or direction of EIC.	2	no.			0.00
9	Supply, installation, testing & commissioning of system of Indian National Flag of size: 20' x30' made with 100% shiny knitted polyester 160GSM with reinforced super strong nylon webbing on all three sides and rope/toggle sleeve etc complete as per relevant IS code.	3	no.			0.00
10	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, sand cushioning, protective brick covering and refilling the trench etc. as required. 4c X 16 sqmm	150	mtr			0.00
11	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. 4c X 16 sqmm	50	mtr			0.00
12	Supplying and making end termination with brass double compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4CX 16 sq. mm (28mm)	2	each			0.00
13	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required. GI wire should come from the base of foundation of 30.5 mtr hig mast and 5 meter GI pole and connect to different parts of panel and pole.	50	mtr			0.00
14	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, includi connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm and welding and corrosion.	40	mtr			0.00
15	Supply of 4C x 16 sqmm PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade aluminium cable confirming to IS7098 (part1) 1988	200	mtr			0.00
		Total amount ₹ =				0.00
		Rebate if Any =				
		Total amount after rebate ₹ =				0.00
		Rounded off ₹ =				0.00