

Item Rate BoQ

Tender Inviting Authority: Indian Institute of Packaging, Mumbai

Name of Work: HT INSTALLATION WORK FOR M.S. INDIAN INSTITUTE OF PACKAGING AT ANDHERI, MUMBAI.(SUBSTATION EQUIPMENT & HT PANELS)

Imp Note :- 1. For laying down of any kind of cables all the necessary work such as excavation in all type of soils, compaction, soling, PCC, protection for cables and finally finishing the earth surfaces properly, etc will be under contractor scope of respective items only. No additional or extra payment will be given for the same by client.

2. All the surplus excavated material shall be taken out from the site/ IIP campus by contractor. No additional payment will be given for the same by client.

Contract No:

Name of the Bidder/ Bidding Firm / Company :	INDIAN INSTITUTE OF PACKAGING
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PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be updated after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)
 Also enter the GST rate without percent (%) sign for all the items

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST % (CGST+SGST) Only put number without percent (%) sign	GST Amount (CGST+SGST) in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	3	4	5	13	14	16	53	54	55
	Substation:									
1.01	Supply, Installation, testing and commissioning of 800 kVA, 11KV/433V, copper wound, oil cooled transformer Off Circuit Tap Changer as per IS 1180: Energy Level 2 (BIS Standard)Transformer to be tested as per standard norms. The transformer to be of outdoor mounted type(IP 65).	Item1	2.000	Nos			0.00	0.00	0.00	INR Zero Only
1.02	Supply, installation, testing & commissioning of incoming 11KV HT RMU with Vacuum Circuit breaker of 630A. Capacity with 1 no. incomer & 2 nos. outgoing in IP 65 enclosure outdoor type(floor mounted type).	Item2	1.000	Nos			0.00	0.00	0.00	INR Zero Only
1.03	Supplying and erecting approved make thyrte type lightning arrester suitable for 11 KV supply with necessary ancillary materials complete erected on provided cross arm and connected to the underground line (similar to Cat.No.22A-18 of IGE/equivalent make) distribution class.	Item3	2.000	Nos			0.00	0.00	0.00	INR Zero Only
1.04	Supply, installation, testing & commissioning of UL certified/CPRI tested maintenance free earthing comprising of electrode of 17.2mm diameter low carbon steel with 250 micron molecular copper bonded earthing rod of length 3m. along with 25kg carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity as per specification no. EA-MQB1.	Item4	20.000	Nos			0.00	0.00	0.00	INR Zero Only
1.05	Supplying, erecting & terminating 3C 300 sq.mm. 11kv. XLPE(E) armoured cable on wall/ceiling or laid in provided trench/pipe in an approved manner as per specification No. CB-HT.(Aluminium cable)	Item5	200.000	mtrs			0.00	0.00	0.00	INR Zero Only
1.06	Providing & erecting heat shrinkable outdoor termination kit for 11KV(E) XLPE HT cable 3x240 to 400 sq.mm. With necessary material as per specification No. CB-JT/HT.	Item6	6.000	Nos			0.00	0.00	0.00	INR Zero Only
1.07	Supplying & erecting GI strip of required size used for earthing on wall &/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required as per specification No. EA-EP.	Item7	2500.000	Kg			0.00	0.00	0.00	INR Zero Only
1.08	Supplying & erecting copper strip of required size used for earthing on wall &/or any other purpose with necessary copper clamps fixed on wall painted with bituminous paint in an approved manner with joints required as per specification No. EA-EP.	Item8	500.000	Kg			0.00	0.00	0.00	INR Zero Only
1.09	Supplying & erecting intelligent flush mounted panel meter three phase four wire(IPM) 240V(L - N) 5A class 1 flush mounted meter with voltage, current, frequency, power, energy & THD metering with LCD display(excluding CTs)complete with wiring connections & mounting hardware on provided panels complete with calibration certificate from manufacturer.	Item9	1.000	Nos			0.00	0.00	0.00	INR Zero Only
1.1	Supply, installation, testing & commissioning of 11 KV 25KA for 1 sec floor mounting type, front access Metering Kiosk equipped with all accessories, CT's, PT's, Meters, relays etc. as required. Rate shall be for the complete board including foundation bolts ,connected civil works etc. as follows & including: 11 kV Metering Kiosk (Outdoor type in IP65 enclosure) 3 Nos. 11 KV /RT3 110 /RT3 V .50 VA air insulated draw out type cast resin transformer with primary and secondary protection fuses. 3 Nos. of 40/5A rating , CL-0.2S, epoxy resin cast 15VA CT for Metering. 1 Nos. of voltmeter range from 0 - 15KV, with selector switch. 1 Nos. of Ammeter range from 0 - 40A, with selector switch. 1 No. Indicating lamps with series resistor (red, green suitable for 110V A.C.). 11KV Load break switch with HT isolators. 2 Nos. Bottom entry and Exit cable box suitable to receive 11KV 3c x 300 sqmm (E) cable (XLPE) Al. Armoured with shrink type cable termination kit and straight through joint kit. 2 Nos. lightning Arrester with Class B type.	Item10	1.000	Nos			0.00	0.00	0.00	INR Zero Only
1.11	Supplying & laying(including excavation) 25cm. Dia. RCC hume pipe of standard thickness at required depth up to 90cms. Below road/ground surface, for covering provided cable & necessary back filling with light ramming to make the road/ground surface as it was(except bitumen carpet).	Item11	100.000	mtrs			0.00	0.00	0.00	INR Zero Only
1.12	Providing & fixing of 0.9mtr. Long x 1.2mtr. Deep manholes(openable chamber) constructed with 3" thick brick wall plastered on both the sides with angle iron frame & cast iron cover having 3 holes of 250mm dia at 1.25mtr below the ground level, complete with excavation in soil.	Item12	6.000	Nos			0.00	0.00	0.00	INR Zero Only
1.13	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	Item13	1300.000	Kg			0.00	0.00	0.00	INR Zero Only
1.14	Providing and fixing G.I. Pre coated trapezoidal 0.8 mm (22 B.W.G.) thick roof (of approved colour shade) for roofing without wind tiles including fastening with galvanised iron screws & bolts, lead & bitumen washers as per drawing etc. complete.	Item14	160.000	Smt			0.00	0.00	0.00	INR Zero Only
1.15	Providing and fixing plain coated sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.	Item15	18.000	Smt			0.00	0.00	0.00	INR Zero Only
1.16	Providing , laying & fixing ,jointing Supreme Ecodrain 160 mm SN 4 NuDrain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees , coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated materialetc. complete.	Item16	30.000	Rmt			0.00	0.00	0.00	INR Zero Only

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1	2	3	4	5	13	14	16	53	54	55
3.01	Providing, fixing, testing & commissioning of the indoor type L.T. control panel(cubical) in IP 65 enclosure suitable for outdoor mounting of the panel. The main panel is for the electrical power distribution of the entire premises. a) 4 nos of 2500 Amps. Aluminium busbar b) 3 Nos. of Neon indicating bulbs to indicate three different phases with potential fuses. Digital voltmeter & ammeter to be installed with CTs & PTs of equivalent size & rating. Panel to be mounted with 3"x3"x 1 1/2" MS 'C' channel with hold fastner etc. c) Load Manager with CTs & PTs of equivalent size & rating with RS 485 port equivalent to Conzerve make.....1 No. Note:- Panel size will depend upon the size of the switchgear and site requirement. Incoming:- 1250 Amps., 36kA. 4P ACB(air circuit breaker)manual draw out type.....2 No. 2500 Amps., 36kA. 4P ACB(air circuit breaker) manual draw out type(busscoupler).....1 No. Outgoing:- a) 630A, 36kA. TPN MCCB.....4 Nos. b) 400A 36kA. TPN MCCB.....4 Nos. c) 63A, 36kA. TPN MCCB.....3 Nos. d) 1000A, 36kA. TPN ACB.....2 Nos. All MCCBs to be variable thermomagnetic type. All ACBs to be of manual draw out type.	Item39	1.000	Nos			0.00	0.00	0.00	INR Zero Only
3.02	Supply, installation, testing & commissioning of fixed type capacitor double dielectric type of 75KVAR rating with incomer MCCB of 160A, 36kA. TP MCCB in MS enclosure(for no load losses of transformer).	Item40	3.000	Nos			0.00	0.00	0.00	INR Zero Only
4	BUS BAR TRUNKING SYSTEM, LT CABLES & CABLE TERMINATION:									
4.011	Supplying & erecting Siemens type brass cable glands for 3.5 core 240 sq.mm. for PVC armoured cable as per specifications no. CB - GL.	Item41	6.000	Nos			0.00	0.00	0.00	INR Zero Only
4.012	Supplying & erecting Siemens type brass cable glands for 3.5 core 300 sq.mm. for PVC armoured cable as per specifications no. CB - GL.	Item42	28.000	Nos			0.00	0.00	0.00	INR Zero Only
4.013	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq.mm./3 to 4 core 25 sq.mm./3 core 35 sq.mm. for PVC armoured cable as per specifications no. CB - GL.	Item43	4.000	Nos			0.00	0.00	0.00	INR Zero Only
4.021	Supplying & erecting crimping type aluminium lugs for cable 300sq.mm. complete as per specification no. CB-CL/AL.	Item44	90.000	Nos			0.00	0.00	0.00	INR Zero Only
4.022	Supplying & erecting crimping type aluminium lugs for cable 240sq.mm. complete as per specification no. CB-CL/AL.	Item45	18.000	Nos			0.00	0.00	0.00	INR Zero Only
4.023	Supplying & erecting crimping type aluminium lugs for cable 25sq.mm. complete as per specification no. CB-CL/AL.	Item46	6.000	Nos			0.00	0.00	0.00	INR Zero Only
4.024	Brick work in C.M 1:5 mix using 2nd class ground moulded chamber burnt bricks with including cost	Item47	3.000	Nos			0.00	0.00	0.00	INR Zero Only
4.025	Supplying & erecting crimping type aluminium lugs for cable 150sq.mm. complete as per specification no. CB-CL/AL.	Item48	30.000	Nos			0.00	0.00	0.00	INR Zero Only
4.026	Supplying & erecting crimping type aluminium lugs for cable 120sq.mm. complete as per specification no. CB-CL/AL.	Item49	18.000	Nos			0.00	0.00	0.00	INR Zero Only
4.03	Supplying & erecting PVC armoured cable 3.5 core 300 sq.mm. aluminium conductor continuous 12.97sq.mm. (8SWG) GI earth wire complete erected with glands & lugs, on walls/trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/AL.	Item50	80.000	mtrs			0.00	0.00	0.00	INR Zero Only
4.04	Supplying, installation, including suspension, testing and commissioning of following capacity bus trunking with aluminium bus bars in IP65/IP66 enclosure in convenient sections for use on, 3 phase, 4 wire, 415 volts, 50 Hz, A.C. supply including jointing of sections, flexible joints, expansion joints, bends and earthing with 2 runs of galvanised iron strips, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required for 1600A, rating.	Item51	10.000	mtrs			0.00	0.00	0.00	INR Zero Only
Total in Figures								0.00	0.00	INR Zero Only
Quoted Rate in Words									INR Zero Only	