



# भारतीय लोक प्रशासन संस्थान

इन्द्रप्रस्थ एस्टेट, रिंग रोड, नई दिल्ली-110002

**INDIAN INSTITUTE OF PUBLIC ADMINISTRATION**  
INDRAPRASTHA ESTATE, RING ROAD, NEW DELHI-110002 (INDIA)

## Notice Inviting Quotation

26/07/2021

M/s \_\_\_\_\_

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Subject: - Construction of 11 KV/433-250V, Sub-Station and other allied works at IIPA.

Sir,

Sealed quotations are invited from reputed firms on behalf of the Director General IIPA for the above work in IIPA. Interested Company/Firm/Contractor may drop the quotation in the Tender Box in the Room of Executive Engineer along with an E.M.D. of Rs. 35,000/- only in the shape of cash receipt (of cash deposited in IIPA, Account Section)/DD in favour of INDIAN INSTITUTE OF PUBLIC ADMINISTRATION, payable at New Delhi by 16/08/2021 up to 3.00 PM. and shall be opened by the Committee constituted for the purpose. The rates quoted should be clearly mentioned with taxes if any. The details of the work are following:-

	S.NO.	ITEMS DESCRIPTION	UNIT	QTY	RATE	Amount
"A"	1	Installation, Testing & Commissioning of 400 KVA Transformer 11kv/433 v.	1 Job	1		
	2	Dehydration of oil of 400 KVA transformer ( if required)	1 Job	1		
	3	Supply and making of 400 KVA Transformer Foundation 1500LX1500WX900MM Hight.	1 Job	1		
	4	Supply and Making of fencing of 400 KVA Transformer surrounding. with one openable door having locking arrangement (complete in all respects as per site condition including allied material & works required for fixing/as required) with Sections:- 1 no. , 4 meters x 1.5 meters, 2 nos. 3 meters x 1.5 meters of Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position with weight	1 Job	1		

		up to 95 Kg. and applying a priming coat of approved steel primer all complete with two or more coats of enamel paint of approved shade over a coat of primer and Welded steel wire fabric of required width having rectangular mesh weight up to 80 Kg., painted with two or more coats of enamel paint of approved shade over a coat of primer.				
5		Installation, Testing & Commissioning of 11kv Ring Main Unit for 400 KVA transformer	1 Job	1		
6		Supply and Making of fencing of 750 KVA DG Set surrounding. with one openable door having locking arrangement (complete in all respects as per site condition including allied material & works required for fixing/as required) with Sections:- 1 no. , 5.8 meters x 2 meters, 2 nos. 10.8 meters x 2 meters of Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position with weight up to 250Kg. and applying a priming coat of approved steel primer all complete with two or more coats of enamel paint of approved shade over a coat of primer and Welded steel wire fabric of required width having rectangular mesh weight up to 330 Kg., painted with two or more coats of enamel paint of approved shade over a coat of primer.	1 Job	1		
7		Supplying, Laying Testing and commissioning of following 11000 volt grade XLPE insulated PVC sheathed Aluminium conductor armoured cables as per specification in existing trenches, pipes, cable trays, ducts, over bed of sand, clamped to wall with suitable clamps including, saddles fixing bolts, connecting testing and commissioning complete in all respect as required as per site conditions.				
		3C X 120 sq. mm 11KV HT Al arm.	meter	30		
8		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
8A		Up to 120 sq.mm	meter	1		

8B	Above 120 sq. mm and upto 400 sq. mm	meter	1		
9	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
	120 sq. mm	each	3		
10	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
	120 sq. mm	each	1		
11	Supply and fixing in position the approved "Shock Treatment Charts" written in English and Local Language. These charts shall be framed in teak wood frame and covered with glass. (1 No. each in LT room).	Nos.	1		
12	Supply and fixing in position the best quality Danger Boards of approved shape and size as specified by Local Electricity Authorities written in English & Local Languages. (1 No. each in LT room, HT room, Transformer).	Nos.	3		
13	Supplying, Laying Testing and commissioning of following 1100 volt grade XLPE insulated PVC sheathed Aluminium conductor armoured cables as per specification in existing trenches, pipes, cable trays, ducts, over bed of sand, clamped to wall with suitable clamps including, saddles fixing bolts, connecting testing and commissioning complete in all respect as required as per site conditions.				
	3.5C X 240 sq. mm Al arm.(Transformer to 800 Amp. Isolator Panel & Isolator Panel to AMF Panel)	meter	150		

	14	Supplying and making Cable end termination of the following XLPE insulated PVC sheathed Aluminium conductor armoured cables of 1100 volt grade including supplying and fixing of bimetallic crimping lugs, Single compression glands with earthing testing and commissioning complete in all respect as required as per site conditions.				
		3½ Core X 240 sq. mm Al arm.	Nos	9		
	15	Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
		3½ C ore X 240 sq. mm	Each	3		
	16	Providing and laying of advance maintenance free earthing consisting of 40 mm dia and 3 meter length copper earth rod in 100 mm dia. in an augured hole in ground , surrounded by ground enhancement material as per specification. Inspection chamber shall be of 300 x 300mm with concrete base CI manhole cover with frame painted with Bitumen Paint. The minimum 25 Kg of ground enhancement material shall provided for each electrode. The complete earthing system shall be in accordance with IS 3043 and be provided with required material complete in all respect as per site requirement. (FOR TRANSFORMER NEUTRAL EARTHING)	SET	4		

17	Providing and laying of advance maintenance free earthing consisting of 40 mm dia and 3 meter length GI bonded earth rod in 100 mm dia. in an augured hole in ground , surrounded by ground enhancement material as per specification. Inspection chamber shall be of 300 x 300mm with concrete base CI manhole cover with frame painted with Bitumen Paint. The minimum 25Kg of ground enhancement material shall provided for each electrode. The complete earthing system shall be in accordance with IS 3043 and be provided with required material complete in all respect as per site requirement. (FOR TRANSFORMER, RMU, Metering Cubical LT & AMF Panel EARTHING)	SET	10		
18	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required	meter	14		
19	Providing and fixing 25 mm X 3 mm copper strip on surface or in recess for connections etc. as required	meter	1		
20	Providing and fixing 25 mm X 5 mm GI on surface or in recess for connections etc. as required	meter	30		
21	Providing and fixing 50 mm X 6 mm copper on surface or in recess for connections etc. as required	meter	30		
22	Providing and fixing 50 mm X 6 mm GI on surface or in recess for connections etc. as required	meter	30		
23	Dismantling & Remaking of same existing PCC floor complete in all respect as per site condition.	RFT	100		
24	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. direct in ground (75 cm/as required, below ground level)including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required				
	200 mm dia (OD-200 mm & ID-175 mm nominal)	Meter	75		

	25	Dismantling of existing cables and connecting the same to new DG AMF panel with Supplying and making Cable end termination of the following XLPE insulated PVC sheathed Aluminium conductor armoured cables of 1100 volt grade including supplying and fixing of bimetallic crimping lugs, Single compression glands with earthing testing and commissioning complete in all respect as required as per site conditions.	1Job	1		
	26	Supply and fixing of CO2 fire extinguisher 4.5 Kg.	each	5		
	27	Supply and fixing of ABC fire extinguisher 6Kg.	each	5		
	Total of "A" (excluding GST)					
"B"	S.NO.	ITEMS DESCRIPTION	UNIT	QTY	RATE	Amount
	1	Servicing of 1000 KVA Dry type transformer	1 Job	1		
	2	Protection Box replacement (Winding temperature & door close) as required for 1000 KVA Dry type Kirloskar make transformer.	each	1		
	3	Supplying, Laying Testing and commissioning of following 11000 volt grade XLPE insulated PVC sheathed Aluminium conductor armoured cables as per specification in existing trenches, pipes, cable trays, ducts, over bed of sand, clamped to wall with suitable clamps including, saddles fixing bolts, connecting testing and commissioning complete in all respect as required as per site conditions.				
		3C X 185 sq. mm 11KV HT Al arm.	meter	25		
	4	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
		185/150 sq.mm	each	2		
	5	Supplying and making Outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
		185/150 sq.mm	each	1		



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6	Supply and filling Jamuna sand in trenches, sides of foundations etc.	CUM	18		
7	Repairing of existing trenches/floor	1 Job	1		
8	SITC Trench cover 1.5' x 2'	each	20		
9	SITC of HT11 KV, 800 Amp, 25 KA, indoor panel with one incoming and one outgoing with VCB circuit breaker, with sheet steel cladding, dust and vermin proof, free floor standing for existing 1000 KVA transformer including foundation and dismantling of old VCB Panel .	1 Job	1		
9A	Vacuum Circuit Breaker				
1	11KV, 800Amp., 25 KA /Sec. Horizontal draw out Horizontal isolation panel (Crompton Greaves-make)	each	1		
2	230V AC Motorized Mechanism	each	1		
3	3-Ph, PVC Sleeved Alu. Bus Bar, 800Amp.	each	1		
4	Color Coded Wiring with 2.5 Sq, mm for CT & PT circuit and 2.5Sq.mm for other circuit	each	1		
5	Degree of Protection - IP4X	each	1		
6	Paint Shade - RAL 7035	each	1		
7	Power pack -220/110VAC/24V DC	each	1		
8	Shunt Trip/closing Coil Voltage - 24V DC	each	1		
9	Warning plates	each	1		
9B	EPOXY RESIN CAST P.T. Make - Savio, Electro/Power Ware of ratio				
1	3 Phase, Cast resin Draw out type PT's of ratio	each	1		
2	11KV $\sqrt{3}$ / 110V $\sqrt{3}$ , Acc.cl -1.0 Burden: 100VA				
9C	EPOXY RESIN CAST,1-Ph CT (25kA/1sec)				
	Make - Savio, Electro/Power Ware				
1	Ratio 150:75/5-5A, 5 VA burden, cl-1.0 & 5P10	each	1		
9D	METERS				
	Make - SECURE /AE / Equivalent				
1	Voltmeter with S/S.	each	1		
2	Ammeter with S/S.	each	1		
9E	INDICATING LAMPS (LED TYPE				
1	R, Y, B Phase Indication	each	1		
2	BREAKER ON - Red	each	1		
3	BREAKER OFF - GREEN	each	1		
4	AUTO TRIP INDICATION - Amber	each	1		
5	TRIP CIRCUIT Healthy - White	each	1		

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	6	Spring Charged - Blue	each	1		
	9F	ACCESSORIES				
	1	Push Button for trip circuit healthy check	each	1		
	2	Auto/Manual Selector Switch	each	1		
	3	Emergency Trip Button	each	1		
	4	Trip Neutral Close Switch	each	1		
	5	Panel Space heater with thermostat & Switch	each	1		
	6	Panel Illumination Lamp with Switch	each	1		
	7	3 Pin Plug with switch	each	1		
	8	MCB, DP 16Amp., 230 V AC for AC supply	each	1		
	9	MCB, DP 16Amp., 24V DC for DC supply	each	1		
	10	Auxiliary Contactor 2NO+2NC	each	1		
	11	Antidumping Device	each	1		
	9H	RELAYS				
	1	Make - CG/AVANA/ASHIDA				
	2	Numerical type 3 Over current + 1 Earth fault Relay. Type:CGI14N	each	1		
	3	Master Trip Relay (24V DC)	each	1		
	4	Aux. Relay for Transformer (OTI, WTI & Buchholz - Alarm & Trip) - 24V DC	each	1		
	10	Dehumidifier for VCB PANEL & Transformer room as required.	each	2		
	Total of "B"(excluding GST)					

	S.NO.	ITEMS DESCRIPTION	UNIT	QTY	RATE	Amount
"C"	1	PCC 1:4:8	C.M.	2.88		
	2	Brick work	C.M.	12.9		
	3	Plaster 1:6	Sq.ft	28.8		
	4	RCC, M-20	C.M.	3.19		
	5	Steel 8mm	Kg.	122		
	6	MS angle 35x35x5mm	Kg	83.2		
	Total of "C" (excluding GST)					



Total of "A", "B" & "C" = Rs. \_\_\_\_\_

GST @ \_\_\_\_% = Rs. \_\_\_\_\_

Grand Total "D" = Rs. \_\_\_\_\_

Buy Back of old VCB Panel, Wire & Cable Scrap "E" = Rs. \_\_\_\_\_


Net Amount ("D" - "E") = Rs. \_\_\_\_\_

Amount in Words:-

Terms and Conditions :-

1. The Institute has right to reject any or all the quotations without assigning reasons.
2. The rates should be clearly mentioned inclusive of all the taxes.
3. The firm must have a valid Electrical contractor licence/Registered with/working experience with any power utility/CPWD/any Govt./Semi Govt. Organization and must enclose proof of the same.
4. The firm shall inspect the site before quoting.
5. The bidder has to submit an interest free EMD of Rs.35,000/- by way of cash or on DD of any Nationalized Bank in favour of Indian Institute of Public Administration, Payable at New Delhi. The EMD of unsuccessful bidders will be refunded within 15 days of award of the work and the EMD of the successful bidder will be retained & will be paid after completion of the work.
6. Completion time for work is 2 months from the issue of work order.
7. Penalty 0.01% of the awarded amount per day, subjected to maximum 10% shall be charged, in case the work is not completed on time.
8. Payment will be made after completion of the work satisfactorily.
9. Payment shall be made on actual measurement basis.
10. 5 % security will be withheld for 1 year after satisfactory completion of the job as defect liabilities.
11. If any clarifications about the work, Contractor may contact "Electrical Supervisor, 2<sup>nd</sup> floor of IIPA Office Building, tel. 23468399.

Yours Sincerely,

  
(Ashok Sharma) 26/07/21  
Electrical Supervisor