

Price Bid Of Sr. No.1 Of NIT -IGIMS/EW/E-Tender /108/2016-17

Name of work- Supply, Installation Testing and Commissioning of additional panel for accommodating 2 sets of 600 KVA D.G. sets, wiring, Cable trenching and related civil and electrical renovation work of main substation at IGIMS.

Estimated Cost (In Rs.)	3851776/-
Earnest Money (in Rs)	77040/-
Cost of B.O.Q. (In RS)	5000/-
E-tendering fee (Non Refundable) (In Rs)	1150/-
Time of completion (In Days)	90 days
Date/ time for obtaining BOQ (Only on www.eproc.bihar.gov.in)	19/01/2017 to 07/02/2017 till 15.00 hrs
Last date/ time of submission of completed tender (e tender portal):-	08 /02/2017 up to 16:30 hrs
Last day/time for submission of completed tender(Hard copy only) in Director's Office	09/02/2017 up to 15.30 hrs
Date/ place of opening of tender (Technical Bid Only on www.eproc.bihar.gov.in) :-	10/02/17 at 15.30 hrs in Conference Hall of IGIMS, Patna (Technical bid only on www.eproc.bihar.gov.in)
Date/ place of opening of tender (Financial bid only on www.eproc.bihar.gov.in)	As per NIT

Bidders are requested to quote their minimum rate for following Non Schedule items

Sr. No.	Item	Unit	Quantity	Rate ₹	Amount ₹
1	Supply of additional panel for 2x600 KVA D.G sets , totally enclosed dust & vermin proof 2mm/1.6 mm thick CRCA sheet compartmentalised Inddor/out door floor mounted at least 7 tank process painted panel containing-				-
a)	i) 1000 Amp 4 pole Microprocessor based, EDO, ACB with S/c and O/L (L& T /Schnieder/ABB)- 1 No , ii) 300 Amp T P Neutral Contactor (L& T /Schnieder/ABB)- 2 nos) iii) Reverse Power relay 1A- 2 nos iv) Current transformer 1000/ 1 A Cl. 1, 15 VA- 8 nos , v) M/P Synchronisation module EASYGEN 3200 Gen set controller (Woodward) - 2 nos, vi) Multifunction meter (V,F,A,KW,PF,KWH,) and any other items not mentioned but required	Set	1.00		
b)	Installation Testing and commissioning of additional panel with the existing 2 nos AMF panel and 1000 KVA existing power panel including all the required modification/ alteration etc.	Job	1.00		-
Total Non schedule					-

Bidders are requested to quote their minimum % rate above or below or at estimated rate for following Scedule items

Schedule items	Unit	Quantity	Rate	Amount ₹
2 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required	Each	1.00	11703	11,703.00
3 Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	Meter	20.00	868	17,360.00
4 Supplying, installing by suspension on ceiling/along the wall, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos. aluminium bus bars having current density of 130 A/ sq. cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every meter, adopter box and copper flexible for joints, continuous earthing with 2 Nos. aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required. 1000Amp 50 KA for 1 sec				
a) 2000Amp 50 KA for 1 sec	Meter	3.00	20219	60,657.00

5	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.				
a)	Group -C	Each	46.00	675	31,050.00
6	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				
a)	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire	Meter	200.00	150	30,000.00
b)	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	475.00	193	91,675.00
c)	4 x 10 sq.mm + 1 x10 sq.mm earth wire	Meter	50.00	684	34,200.00
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	Each	16.00	372	5,952.00
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	30.00	446.00	13,380.00
9	Supplying and fixing following way horizontal type three pole and neutral, sheet steel MCB distribution board 415 volts on surface / recess complete with tinned copper bus bar neutral bus bar , earth bar , din bar interconnections , powder painted including earthing etc as required. (but without MCB/RCCB/Isolator)				
a)	8 way (4 + 24), Double door , horizontal type	Each	2.00	4655.00	9,310.00
10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single Pole	Each	48.00	208.00	9,984.00
b)	Triple pole and neutral	Each	2.00	1804.00	3,608.00
11	Supplying and fixing 2 pin, 6 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	10.00	35.00	350.00
12	Supplying and fixing batten/angle holder including connection etc. as required.	Each	6.00	48.00	288.00
13	Supplying fixing 90 watt LED type flood light with die cast aluminium housing for ingress protection of IP65 and complete with all accessories etc on pole / building including connection with FR PVC insulated copper conductot cable and earthing the body etc. as required.	Each	8.00	19115.00	1,52,920.00
14	Supply and instalation of 375 mm , 230 volt AC Exhaust fan in exhisting opening including making good the damage, connection, testing and commissioning etc as required.	Each	3.00	3491.00	10,473.00
15	Supply and instalation of 300 mm , 230 volt AC Exhaust fan in exhisting opening including making good the damage, connection, testing and commissioning etc as required.	Each	1.00	2287.00	2,287.00
16	Supplying fixing 90 watt LED type street light with die cast aluminium housing for ingress protection of IP65 and complete with all accessories etc on pole / building including connection with FR PVC insulated copper conductot cable and earthing the body etc. as required.	Each	6.00	17930.00	1,07,580.00
Total electrical schedule					5,92,777.00
Civil work					
17	Clearing jungle including uprooting of rank vegetation , grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	450.00	4.14	1,864.80
18	Dismantling tile work floor and roofs laid in cement mortar including stacking materiel within 50 metres lead.	Sqm	15.00	18.40	276.00

19	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	cum	80.00	204.40	16,352.00
20	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	Sqm	498.00	253.80	1,26,392.40
21	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.				-
a)	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	153.00	3,740.20	5,72,250.60
22	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete				-
a)	All work upto plinth level	cum	7.50	4,533.30	33,999.75
23	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				-
a)	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	495.00	54.70	27,076.50
24	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats. Square or round etc. all complete				-
a)	Fixed to steel windows by welding	kg	450.00	86.00	38,700.00
25	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge.				-
a)	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	20.00	478.00	9,560.00
26	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.				-
a)	With cement mortar 1:4	Sqm	500.00	171.00	85,500.00
27	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	2,200.00	5.90	12,980.00
28	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	2,200.00	28.10	61,820.00
29	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	1,600.00	22.00	35,200.00
30	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	500.00	77.40	38,700.00
31	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade	sqm	220.00	54.10	11,902.00
32	Finishing walls with Acrylic Smooth exterior paint of required shade :				-
a)	New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	550.00	71.10	39,105.00
33	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-charge in skirting, risers of steps and dados over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	25.00	766.30	19,157.50

34	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming IS : 15622 of approved make in colours, such shades except white, Ivory, Grey, Fume, Red, Brown, Laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and pigment etc. complete.	sqm	10.00	812.20	8,122.00
35	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	metre	10	438.75	4,387.50
36	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.	sqm	3.5	2,154.75	7,541.63
PHED WORK					
36	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap. 10 liters low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete including cutting and making good they walls and floors wherever required.				-
a)	White Vitreous china orissa pattern W.C. pan of size 580x440mm with integral typepe foot rests.	Each	1.00	3,049.30	3,049.30
37	Providing and fixing wash basin with C.I. brakets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.				-
a)	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	1.00	1,818.50	1,818.50
38	Providing and fixing brass bib cock of approved quality 15 mm nominal bore	each	2.00	273.00	546.00
39	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	each	2.00	650.10	1,300.20
40	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting with one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)				-
a)	20 mm nominal bore	metre	20.00	147.30	2,946.00
41	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				-
a)	20 mm dia nominal bore.	each	5.00	158.40	792.00
42	Providing and fixing ball valve (brass)of approved quality High or Low Pressur, with plastic floats complee				-
a)	20 mm nominal bore	Each	1.00	427.90	427.90
43	Providing and fixing on wall face unplastidsed-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.				-
a)	110 mm diameter	rmt	50.00	212.40	10,620.00
b)	75 mm diameter	rmt	20.00	127.30	2,546.00

44	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.					-
a)	Coupler					-
i	75mm	each	2.00	105.02		210.04
ii	110mm	each	4.00	140.20		560.80
b)	Single pushfit coupler					-
i	75mm dia PVC	each	2.00	125.10		250.20
ii	110 mm dia PVC	each	4.00	175.60		702.40
c)	Single tee with door					-
i	75x75x75 mm dia PVC	each	2.00	221.20		442.40
ii	110 x110 x110 mm dia PVC	each	4.00	306.10		1,224.40
d)	Single tee without door					-
i	75x75x75 mm dia PVC	each	2.00	196.80		393.60
ii	110 x110 x110 mm dia PVC	each	4.00	257.30		1,029.20
e)	Band 87.5					-
i	75 mm dia PVC	each	2.00	112.90		225.80
ii	110 mm dia PVC	each	4.00	168.30		673.20
f)	Shoe plain					-
i	75mm shoe	each	2.00	175.10		350.20
ii	110m Shoe	each	4.00	305.02		1,220.08
45	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete					-
a)	110 mm	Each	10.00	144.49		1,444.90
b)	75 mm	Each	5.00	126.20		631.00
46	Making connection of drain or sewer line with existion manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix cement platered on both sides and making necessary channels for the drain etc. complete.					-
a)	for pipes 100 to 250 mm diameter	each	5.00	254.60		1,273.00
47	Providing and fixing PTMT liquid soap container 109mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same ..	Each	1.00	191.00		191.00
48	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long,200mm wide with minimum distances of 37 mm,weighing not less than 88 gms.	Each	1.00	183.50		183.50
49	Providing and fixing PTMT soap dish holder having length of 138mm, breadth 102 mm height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.					-
a)	soap dish holder	each	1.00	160.40		160.40
50	Providing and fixing PTMT grating of approved quality and colour.					-
a)	125mm nominal dia with 25 mm waste hole.	Each	1.00	59.90		59.90
	Extra cost for carriage of Material					-
51	Local Sand	Cum	80.00	181.48		14,518.40
52	Sone Sand (45 km from Koelwar)	Cum	80.00	607.62		48,609.60
53	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	144.00	1,773.56		2,55,392.64
54	Bricks (7P+ 1K)	%o	17.43	531.02		9,255.68
55	Difference of Cost of Bricks	%o	17.43	1,643.99		28,654.75
56	Difference of Cost of Cement	tonn	65.00	767.25		49,871.25

	(A)	Total Amount Schedule civil Rs.			15,92,461.91
	Additional VAT @ 3% ON (A)				47,773.86
	TOTAL Schedule (civil)				16,40,235.77
	TOTAL Schedule (electrical + civil)				22,33,012.77
	I/we offer in Figures..... in words..... % (Percentage) High / Less/Estimated rate are mentioned in the Bill of quantity for schedule items (In Figure)				
	In word				
	High/low /at estimated cost				
	Calculated quoted Amount for schedule items ₹				
	Total Quoted (Schedule+Nonschedule items) Amount ₹				
	Labour Cess @ 1% on (B)				
	Total Amount ₹				
	Name of the Bidder				
	Address of the Bidder				