

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA: PATNA-14
BILL OF QUANTITIES

1	Name of the work	Refurbishing the power supply and its switch gear at existing medical college and Indira Gandhi memorial park at I.G.I.M.S. Patna.
2	Estimated cost	Rs. 8,13,420/- Rs. Eight Lacs Thirteen Thousand Four Hundred Twenty .
3	Cost of BOQ	Rs.1250/- (Rs. Five thousand only)
4	Earnest Money Deposited	Rs. 16,500 (Rs. Sixteen thousand five hundred only.)
5	Time of Completion	45 days
6	Last date and time of receipt of tender	02 /02/2017 up to 3.00 Pm in the Office of the S.E. , IGIMS, Patna.
7	Date and time of opening of Tender	03/02/2017 at 3.30 Pm in the Office of Superintending Engineer, IGIMS, Patna.
08	Date & Time for opening of Price Bid of Technically Suitable bidders.	06 /02/2017 at 03.30 PM

Sr.N o.	Item	Unit	Qty.	Rate	Total
1	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
a)	160 Amps. 4 pole MCCB,35 KA	Each	2.00	11275.00	22550.00
b)	400 Amps. 4 pole MCCB,35 KA	Each	1.00	26029.00	26029.00
2	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	3.00	4655.00	13,965.00
3	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)	4x16 sq mm +1 x16 sq mm earth wire	meter	30.00	1060.00	31800.00
b)	4x25 sq mm +1 x16 sq mm earth wire	meter	70.00	1552.00	108640.00
4	3.5 core 120 sq mm XLPE/PVC insulated PVC sheathhead (heavy duty) armoured electrical cable with aluminium conductor.	meter	110.00	822.00	90420.00
5	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 covering and refilling the trench etc as required.				
a)	Above 95 sq. mm and upto 185 sq. mm	Meter	110.00	159.00	17490.00
b)	Above 185 sq. mm and upto 400 sq. mm	Meter	50.00	174.00	8700.00

6	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				
a)	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	meter	200.00	88.00	17600.00
7	Supplying and making end termination with brass 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.				
a)	3½ X 120 sq. mm (45mm)	Each	2.00	500.00	1000.00
b)	3½ X 400 sq. Mm(82mm)	Each	2.00	1389.00	2778.00
8	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				0.00
a)	3½ X 400 sq. mm	Each	5	4788.00	23940.00
9	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	2	4191.00	8382.00
10	Providing and fixing 25 mm x 5mm GI Strip on surface or in recess for connection etc. as required	meter	90.00	141.00	12690.00
11	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required				
a)	100 mm dia	Meter	40.00	948.00	37920.00
Total schedule Rs.					423904.00
Quoted Rates:					
a	í í í í í í % above				
b	í í í í í í % below				
c	í í í í at estimated cost.				
<p>NOTE:- Contractors are requested to quote their rates % above / % below / at e In above format tenders quoting item wise rate will be rejected.</p>					
Non schedule item					

1	Supply instalation testing & commissioning of iron sheet steel powder distribution panel board , fabricated with 16 SWG ironsheet suitable for drawable mounted switch gear including 600 Amps alluminium bus bar chamber ,insulator, volt meter, Ampire meter Selector switch ,indicator lamp(RYB) MCCB lcs=100% icu,confirfs toS/IEC 60947-2 containing following Incomer and Outgoing MCCB cubicles a) Incomer 1 no. 4 pole MCCB 400 Amps with thermal magnetic release breaking capacity 50 KA suitable for Isolation ,manual rotary version,(Schneider Cat no.LV 540319 or equivalent) and b) Outgoing as per following (1) 4 Nos outgoing each having 4 pole 200 amp MCCB breaking capacity-36 KA suitable for isolation manual rotary version (Schneider cat no. LV 525342 or equivalent) (2) 8 Nos outgoing each having 4 pole 125 amp MCCB breaking capacity-36 KA suitable for isolation manual rotary version (Schneider cat no. LV 516342 or equivalent) Panel painting by 7 tank process only.	Each	1.00	õ õ õ ..	õ õ õ õ ..
Total (SI+NSI) Rs.					
3%Additional VAT					
Total Rs.					
Labour Cess @1%					
Total Rs.					
Say					

- 1- Issued to :.....
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

Superintending Engineer
I.G.I.M.S., Patna

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA: PATNA-14
BILL OF QUANTITIES

1	name of the work	Estimate of power supply for 20 hp motor pump opposite RCC Cobalt area at I.G.I.M.S. Patna.			
2	Estimated cost	Rs. 2,96,814/- Rs. Two Lacs Ninty six Thousand Eight Hundred Fourteen .			
3	Cost of BOQ	Rs.750/- (Rs. Seven Hundred Fifty only)			
4	Earnest Money Deposited	Rs. 6,000 (Rs. Sixteen thousand only.)			
5	Time of Completion	15 days			
6	Last date and time of receipt of tender	02/ 02/2017 up to 3.00 Pm in the Office of the S.E. , IGIMS, Patna.			
7	Date and time of opening of Tender	03/02/2017 at 3.30 Pm in the Office of Superintending Engineer, IGIMS, Patna.			
08	Date & Time for opening of Price Bid of Technically Suitable bidders.	06 /02/2017 at 03.30 PM			
Sr.No.	Item	Unit	Qty.	Rate	Total
1	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	3.00	675.00	2,025.00
2	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	15.00	150.00	2,250.00
b)	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	20.00	193.00	3,860.00
3	Supplying and fixing suitable size of metal/ PVC box of 180 mmX 100mm X 60 mm deep (nominal size) on surface or in recess with phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 amps. & 15/16 amps. Socket outlet and 15/16 amps piano type switch connection, painting etc. as required.				626.00
		each	2.00	313.00	
4	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
a)	160 Amps. 4 pole MCCB,35 KA	Each	1.00	11275.00	11,275.00

5	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	1.00	4655.00	4,655.00
6	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240volts, 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)	2+4 way single door	Each	1.00	744.00	744.00
7	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	2.00	208.00	416.00
b)	40 Amps Single pole and neutral	Each	1.00	819.00	819.00
8	3.5 core 120 sq mm XLPE/PVC insulated PVC sheath (heavy duty) armoured electrical cable with aluminium conductor.	meter	255.00	822.00	2,09,610.00
9	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 covering and refilling the trench etc as required.				
a)	Above 95 sq. mm and upto 185 sq. mm	Meter	85.00	159.00	13,515.00
10	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				
a)	Above 95 sq. mm and upto 185sq. mm (clamped with 25/40x3mm MS flat clamp)	meter	170.00	64.00	10,880.00

11	Supplying and making end termination with brass 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.				
a)	3½ X120 sq. mm (45mm)	Each	4.00	500.00	2,000.00
12	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	1	4191.00	4,191.00
13	Providing and fixing 25 mm x 5mm GI Strip on surface or in recess for connection etc. as required	meter	30	141.00	4,230.00
14	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
a)	100 mm dia	Meter	15.00	948.00	14,220.00
Total schedule Rs.					285316.00
3%Additional VAT					8,559.48
Total Rs.					2,93,875.48
Labour Cess @1%					2,938.75
Total Rs.					2,96,814.23
Say					296814.00

Quoted Rates:

a- í í í í í í % above

b- í í í í í í % below

c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate
In above format tenders quoting item wise rate will be rejected.

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5- Time of completion :-

Signature of Contractor

Superintending Engineer
I.G.I.M.S., Patna