

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

FINANCIAL BID SHEET

Sl. No.- 14 Tender Notice No.92 (C&E)/E-Tender/2015-16

Sl. No.	Name of the Work				Electrical & Air conditioner Work of Neuro OT, recovery, surgical ICU, changing room in diagnostic blok, first floor and Emergency OT near trauma centre, ground floor at IGIMS, PATNA
1	Estimated Cost (In Rs.)				323,73,919.00
2	Name and Address of the contractor/ firm				
2	Earnest Money (In Rs.)				6,47,500.00
3	Cost of B.O.Q. (In Rs.)				10,000.00
4	E-tendering fee (Non Refundable) (In Rs.)				5,725.00
5	Time of completion				90Days
6	Date/ time for obtaining BOQ (Only on www.eproc.bihar.gov.in)				11/04/2016 to 02/05/2016 till 3.00 PM
7	Last date/ time for submission of completed tender :-				02/05/2016 up to 3.30 PM (only on www.eproc.bihar.gov.in)
8	Last date/ time for submission of hard copy of completed tender in Director IGIMS office (by courier /regd post) :-				02/05/2016 up to 4 PM
8	5. Date/ place of opening of tender :-				04/05/2016 at 3.30 PM in Conference Hall of IGIMS, Patna
9	6. Date/ place of opening of tender (Financial bid only on www.eproc.bihar.gov.in)				Date of opening of price bid of technically viable tender shall be intimated only through www.eproc.bihar.gov.in

(A) Schedule items

Sl. No.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE ₹	AMOUNT ₹
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	Point	280.00	718.00	2,01,040.00
2	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	235.00	303.00	71,205.00
3	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	195.00	395.00	77,025.00
4	Wiring for circuit/ submain wiring alongwith 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 1.5 sq.mm + 1 x 1.5 sq.mm earth wire	Meter	2050.00	106.00	2,17,300.00
b	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire	Meter	1560.00	131.00	2,04,360.00
c	2 x 4 sq.mm. + 1x4 sq.mm. earth wire	Meter	1575.00	162.00	2,55,150.00
d	2 x 6 sq.mm + 1 x 6 sq.mm earth wire	Meter	510.00	221.00	1,12,710.00
e	4 x 10 sq.mm + 2 x 10 sq.mm earth wire	Meter	280.00	597.00	1,67,160.00
f	4 x 16 sq.mm + 2 x 16 sq.mm earth wire	Meter	570.00	883.00	5,03,310.00
5	supply and fixing following rating 240 volts, 'C' series, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections,testing and commissioning etc. As required.				
a	50/63 amps, TPN	Each	5.00	887.00	4,435.00
b	6/32 amps, Single Pole	Each	128.00	169.00	21,632.00
6	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	8.00	3926.00	31,408.00
7	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	meter	205.00	109.00	22,345.00
8	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	meter	245.00	27.00	6,615.00
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 185 sq. mm and upto 400 sq. mm	Metre	310.00	233.00	72,230.00
10	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	3/4 X 400 sq. mm (82mm)	Each	4.00	1369.00	5,476.00
Total schedule items					19,73,401.00

Sl. No.	NAME OF AGENCY	UNIT	QUANTITY	QUOTED RATE ₹	AMOUNT ₹
	ADDRESS OF AGENCY				
	/we offer in Figures..... in words..... % (Percentage) High / Less/Estimated rate are mentioned in the Bill of quantity.) Note:- Percentage (%) rate applicable for only on Schedule Items			RATE PERCENTAGE IN FIGURE	
				RATE PERCENTAGE IN WORDS	
				HIGH/LESS/AS PER BOQ RATE	
	/we offer in Figures..... in words..... % (Percentage) High / Less/Estimated rate are mentioned in the Bill of quantity.) Note:- Percentage (%) rate applicable for only on Schedule Items			Please insert the calculated value of scheduled items.	
	B) Non Schedule Items				
11	Supply & Fixing of 12 watt Ceiling Mounted LED Light with complete accessories (Make- Havells, Philips, Bajaj)	Each	80.00		
12	Supplying & Fixing remote Bell for surface Mounting all inclusive as per specification and directed by E/I (Make- Ancher, colors, cany, Bajaj)	Each	11.00		
13	Supply & fixing of LED Slim Panel Light, 36 watt,90-300 volt AC 50 HZ Power Factor 0.9, size 2x2, suitable for recess mounting / Armstrong ceiling with Extruded aluminium /CRCA powder coated body and high transmittance PMMA Diffuser , Minimum lumens 3000, Operating temperature 20 degree census	Each	230.00		
14	Supply & Installation of Exhaust Fan 380 mm sweep ,160 watt, 1400 rpm 3600 CMH inclusive of all other related cost (Make- Havells, Philips, Bajaj)	Each	6.00		
15	Turbo force air circulator fan 450 mm. (Make- Havells, Crompton, Bajaj)	Each	30.00		
16	Providing & Fixing ceiling/Wall bracket Fan 1200/400 mm dia as per specification, all complete as per required.(Make- Havells, crompton, Bajaj)	Each	22.00		
17	Supplying & fixing wall mounted iron sheet cubical panel board, fabricated with 16 SWG iron sheet, suitable for panel mounted switchgear including 600 Amps, Copper bus-bar chamber, insulator,Volt meter, Amp. meter, selector switch, indicator lamp (RYB) MCCB Ics = 100 % Icu, conforms to IS / IEC 60947-2 containing following incomer and out going subcables: 1. Incomer: 1 no. 4 pole MCCB with Microprocessor release MTX2.0, release range 250-630 Amp, Breaking capacity -50 KA suitable for Isolation , inbuilt instantaneous protection manual rotary version (L&T DN3-630D cat no. CM93008000AG or equivalent) 2. Out going a) 4 nos. 4 pole MCCB with Microprocessor release MTX2.0, Release range 100-250 Amp, Breaking capacity -36 KA suitable for Isolation , inbuilt instantaneous protection manual rotary version (L & DN2-250D cat no. CM921560000AG or equivalent) b) 8 no. 4 pole MCCB with Microprocessor release MTX2.0, release range 63-160 Amp, Breaking capacity -36 KA suitable for Isolation , inbuilt instantaneous protection manual rotary version (L&T DN3-630D cat no. CM921520000AG or equivalent) Panel painting by 7 tank process only.	Each	1.00		

18	Supplying of 3.5 x 400 Sq mm PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	Metre	325.00		
Air-conditioning					
19	Supply of VRV IV Outdoor				
a)	Supply of VRV IV Outdoor unit,3 phase 4 wire , 380-415 v 50 Hz, cooling/heating capacity-77000/86900 kcal/hr with 3 nos hermetically sealed Scroll type inverter driven compressor (DAIKIN RXYQ32TRV6(E) OR Equivalent,(make O General/York/Trend)	Each	4		
b)	Supply of VRV IV Outdoor unit,3 phase 4 wire ,380-415 v,50 Hz cooling/heating capacity-19300/21500 kcal/hr with 1 no hermetically sealed Scroll type inverter driven compressor,(DAIKIN RXYQ8TRV6(E) OR Equivalent),(make O General/York/Trend)	Each	1		
20	Supply Installation and fixing of ceiling mounted duct type VRV Indoor units 1 phase 220-240V 50 HZ	Each			
a	Cooling/ heating capacity 24100/27100 Kcal/h, Air Flow 72/62 cubic meter/min, (DAIKIN FXMQ250MVE or Equivalent),(make O General/York/Trend)	Each	8		
b	Cooling/ heating capacity 13800/15500 Kcal/h, Air Flow 46/39/32 cubic meter/min, (DAIKIN FXMQ140PVE or Equivalent), (make O General/York/Trend)	Each	2		
21 a)	Supply of wall mounted type VRV Indoor unit1 phase220-240 V 50 Hz, Cooling/ heating capacity 4800/5400 Kcal/h, Air Flow rate 15/12 cubic meter/min, (DAIKIN FXAQ50PVE or Equivalent),	Each	6		
22	Copper Refrigerant piping with proper supports/hangers from ceiling/wall as required at site & approved by consultant & duly insulated with closed cell elastomeric nitrile insulation of 13mm thickness upto 22.4 mm OD & above19mm OD for various sizes are as follows:				
a	41.3 mm dia (insulation 19mm thick)	meter	380.00		
b	34.9 mm dia (insulation 19mm thick)	meter	400.00		
c	28.6 mm dia (insulation 19mm thick)	meter	460.00		
d	22.2 mm dia (insulation 13mm thick)	meter	455.00		
e	19.1 mm dia (insulation 13mm thick)	meter	580.00		
f	15.9 mm dia (insulation 13mm thick)	meter	530.00		
g	12.7 mm dia (insulation 13mm thick)	meter	510.00		
h	9.5 mm dia (insulation 13mm thick)	meter	530.00		
i	6.4 mm dia (insulation 13mm thick)	meter	490.00		
23	GI Ducting Sheet				
a	22 Gauge Galvanized Iron sheet metal	Sq.meter	2100.00		
b	24 Gauge Galvanized Iron sheet metal	Sq.meter	2260.00		
24	Thermal Insulation of 9 mm on ducts with Nitrile Rubber	Sq.meter	5752.00		
25	M.S Structure for installing VRV outdoor units duly painted.	Each	7.00		
26	Acoustic Insulation of Ducts with open cell nitril K Rubber and aluminium zali	Sq.meter	150.00		
27	Supply, installation, testing & commissioning of control cum transmission wiring of 2C x 1.5 Sqmm copper in suitable PVC conduits for interconnection between IDUs & ODUs.	meter	375.00		
28	Supply and installation of Centralised remote controller Which can control 64 groups (128 indoor units) of indoor units with malfunction code display, should be able to set 4 On/off pairs per day by connecting a schedule timer, and should be able to control ventilation volume and mode for heat reclaim ventilator, maximum wiring length 2000 m (with DAIKIN DCS302CA 61 or equivalent), (make O General/York/Trend)	Each	1.00		
29	Rigid PVC Drain Pipe with fittings ,proper supports at 5 feet interval and duly insulated with 6 mm thick closed cell nitrile rubber insulation.				
a	32 mm dia	meter	80.00		
b	25 mm dia	meter	72.33		
30	Supply of aluminium powder coated grill 6"	Sq.meter	85.00		
31	Supply of aluminium powder coated diffuser with VCD dumper 18"x18"	Sq.meter	110.00		
32	Supply of Drain pump 300 watts, 220 volts	Each	7.00		
33	Topping up of additional Refrigerant (R-410A)	Kg.	245.00		
34	Testing and commissioning of complete VRV system including all indoor units,outdoor units,electricals,remotes etc including pressure testing with nitrogen & vaccumasonation.	LOT	5.00		
35	Supply installation and commissioning of automatic 3 phase sequence corrector unit with ABB CM-MPN monitoring Relay connected to reversing contactor of normal 440 volt, 250 Amp 50 Hz with protection for phase reversal, phase loss,independently adjustable under and over voltage thresholds and LED indication for under voltage/over voltage Phase sequence normal, phase sequence reverse etc	Each	4.00		
36	Supply and fixing of Heat reclaim ventilator with DX coil and Humidifier Air flow rate at ultra high 500 cubic meter / hour and temp exchange efficiency 2.7 ultra high (DAIKIN-VKM50GAMV1 or Equivalent),(make O General/York/Trend)	Each	3.00		
37	TIMER (2 AMPS,CONTACTOR 63 A)	Each	5.00		
38	3 phase 100 KVA, 415 volt 3 phase servo voltage stabilizer make Schneider or reputed make.3 PHASE SERVO CONTROL STABILIZER GENERAL SPECIFICATION Input Voltage Range 300v-460v Ac 3phase 50hz/60hz Phase To Phase Other Input Ranges 340v-480v Ac/ 360v-460v Ac Output Voltage 3 Phase 415v Ac System Unbalanced 4 Wire R Y B N Connection Star Operating Frequency 47hz To 53hz Out Put Voltage Adjustable 380v To 415v In 3 Phase Out Put Voltage Regulation +/-1 %(No Load) Out Put Voltage Regulation +/-1%(Full Load) Over Load Capacity 120% Correction Rate 60v/Second-3 Phase Waveform Distortion Nil Out Put Waveform True Reproduction Of Input Insulation Class 'F' Short Ckt Period & Percentage 300% For 45 C Normal Operation Temperature 0 To 45c Type Of Cooling Natural Air Cooled Up To 150 Kva Mode Of System Fully Automatics / Manual Protection • LOW VOLTAGE PROTECTION • HIGH VOLTAGE PROTECTION • OVERLOAD PROTECTION WITH MCB/MCCB • SHORT CIRCUIT PROTECTION • SINGLE PHASING NTERPANEL CONTROL • INPUT/OUTPUT SELECT SWITCH • AUTO/MANUAL SELECT SWITCH • INCREASE/DECREASE SWITCH TO CONTROL THE OUTPUT VOLTAGE IN MANUAL MODE • VOLT ADJUST TO SET REQUIRED OUTPUT VOLTAGE IN AUTO MODE PANEL INDICATOR • INPUT-ON • OUTPUT-ON • INPUT-LOW • INPUT-HIGH • OUTPUT-CUT OFF	Each	5.00		
				TOTAL non schedule	
Total Amount of Schedule Items and Non Schedule Items for Electrical & Air-conditioning WORK ₹					
Labour cess 1%					
Total quoted Amount of WORK				Rs. :-	