



INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES SHEIKHPURA, PATNA – 14 (BIHAR)
(Autonomous Institute of Govt. of Bihar)

Tel.: 0612 – 2297631, 2297099; FAX: 0612 – 2297225; Website: www.igims.org; E-Mail:director@igims.org

BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SINo-01

01	Name of the Work	Refilling of Fire Suppression cylinders installed in the electrical panels of hospital area at IGIMS, Patna-14.
02	Estimated cost	Rs.9,60,024.00 (Rs .Nine lacks Sixty thousand twenty four only) `
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

01. **Issued to – Name of Contractor** -
02. **Full Address**
03. **E.M.D. Detail** D.D. No.....Date.....Amount.....
04. **Registration Number** -
05. **Time of Completion**

Signature of Contractor with Date

Electrical Executive Engineer

I.G.I.M.S., Patna-14

Non-Schedule Items

SI No.	ITEM DESCRIPTIONS	UNIT	QTY	RATE
1	Refilling of NOVEC 1230, Hydrostatic Pressure testing of cylinder, DLP Valve Checking, Transportation, Testing & Commissioning the system. Capacity: 5 lbs.	Each	16.00	
2	Replacement of Linear Pneumatic heat detection tube with all fitting & Supports, if Found damaged.	Meter	80.00	

Signature of Contractor with Date

Electrical Executive Engineer

IGIMS, Patna



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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-02

01	Name of the Work	Electrical wiring work and AC work in Room No. 7 & 12 , cash counter room no. 34 in old administrative building and radiology department at IGIMS, Patna-14
02	Estimated cost	Rs.11,76,360.00 (Rs. Eleven lakhs Seventy six thousand three hundred sixty only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

Scheduled Items

SI.No.	Items	Unit	Qty.	Rate
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	66.00	724.00
2	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FR 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	485.00	161.00
b)	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	1337.00	200.00
c)	4 x 16 sq.mm + 1 x16 sq.mm earth wire	Meter	68.00	593.00
3	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	3702.00
4	Supplying and fixing following 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)	6/32 Amps Single Pole	Each	24.00	192.00
b)	50 /63 Amps Triple pole and neutral	Each	1.00	1635.00
5	Supplying and fixing 2 pin,6 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	36.00	42.00
6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required			
a)	5/6 Amps switch	Each	35.00	81.00

b)	15/16 Amps switch	Each	70.00	134.00
c)	3 pin 5/6 Amps socket outlet	Each	35.00	122.00
d)	6 pin 15/16 Amps socket	Each	70.00	185.00
7	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.			
a)	3 Module (75mmX75mm)	Each	15.00	180.00
b)	6 Module (200mmX75mm)	Each	52.00	275.00
8	Supplying and fixing following piano type switch/ socket on the existing switch box including connections etc. as required			
a)	5/6 Amps switch	Each	16.00	39.00
b)	15/16 Amps switch	Each	105.00	90.00
c)	3 pin 5/6 Amps socket outlet	Each	16.00	52.00
d)	6 pin 15/16 Amps socket	Each	105.00	91.00
9	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	10.00	996.00
10	Supplying and Fixing indoor recess mounting 36 watt LED flat panel light luminaire suitable for Armstrong / grid ceiling and complete with electronic driven etc. Directly on false ceiling including connection with 1.5 sq mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	34.00	4023.00
11	Supply and installation of regulator /standard model A.C ceiling fan of 1200 mm sweep including wiring the down rod of standard length (up to 30 cm)with 1.5 sq mm FR PVC insulated copper conductor etc. as required	Each	5.00	1618.00
12	Supplying and fixing single wall mounted 18/22 watt LED type batten fitting complete with electronic driver and LED tube etc directly on wall/ ceiling including connections with 1.5 sq.mm FR PVC insulated copper conductor and earthing the body etc. as required.	Each	15.00	684.00

Quoted Rate –

A. _____ % above.

B. _____ % below.

C. At estimated Cost.

Note: - Contractors are required to quote their rate % above % below or at estimated cost, in prescribed Format. Tenderer quoting item-wise rate will be rejected.

01. **Issued to – Name of Contractor** -

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03. **E.M.D. Details** D.D. No.....Date.....Amount.....

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05. **Time of Completion**

Signature of Contractor with Date

Electrical Executive Engineer

I.G.I.M.S., Patna-14

Non-Schedule-Items

SI No	items	unit	Qty	Rate
13	Supply and installation of 450 mm , 230 volt V3 A.C Wall/cabin fan with aluminium body ,including fixing the bracket ,making connection testing, commissioning etc. as required	Each	12.00	
14	Supply of Split type 1.5TR, 240Volts Air Conditioner(Make- Voltas/Hitachi/LLOYD/O-General/Daikin or equivalent make)	Each	2.00	
15	Supply of Split A.C 2 Ton cooling capacity 6800w refrigerant R 32 230 v copper condenser coil star rating 3 connection pipe 15.87mm and 6.3 mm each having length of 3.5 meter, connecting cable 3.5 meter (Make- Voltas/Hitachi/LLOYD/O-General/Daikin or equivalent make)	Each	2.00	
16	Supply and installation of window AC 1.5TR including of all other related cost i.e stabiliser installation all complete.	Each	2.00	
17	Supply and Installation of 4 KVA Voltage Stabiliser input voltage 160-270Volts, Output 220 volts with time delay	Each	2.00	
18	Supply and Installation of 5 KVA Voltage Stabiliser input voltage 160-270Volts, Output 220 volts with time delay	Each	2.00	
19	Installation charge for Split Air Condition	Each	4.00	
20	Supply and fixing of copper refrigerant piping along with Nitrile insulation			
(a)	12.7 mm dia (insulation 13m thick)	Meter	30.00	
(b)	6.4 mm dia (insulation 13m thick)	Meter	30.00	
21	Supplying and fixing of 3 core 2.5sqmm copper cable	Meter	35.00	
22	Supplying and fixing of 25 mm Dia PVC Flexible drain pipe	Meter	64.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

Electrical Executive Engineer

IGIMS, Patna



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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-03

01	Name of the Work	Additional Power wiring, Split air-conditioning & earthing work dedicatively in research & pharmacokinetics Laboratory Pharmacology Department, 5th floor, New Medical College Building at IGIMS, Patna-14
02	Estimated cost	Rs.12,03,000.00 (Rupees Twelve lacks Three Thousand only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule-Items

SI.No.	Items	Unit	Qty.	Rate
1	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR 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	150.00	161.00
b)	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	1560.00	200.00
c)	4 x 10 sq.mm + 1 x10 sq.mm earth wire	Meter	45.00	593.00
d)	4 X 16 sq. mm + 1 X 16 sq. mm earth wire	Meter	35.00	879.00
2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required			
b)	15/16 Amps switch	Each	20.00	134.00
d)	6 pin 15/16 Amps socket	Each	20.00	185.00
3	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.			
a)	1or 2 Module (75mmX75mm)	Each	6.00	180.00
b)	6 Module (200mmX75mm)	Each	10.00	275.00

4	Supplying and fixing metal/pvc box of 180mm X 100mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connections, painting etc. as required.	Each	20.00	286.00
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	2.00	3702.00
6	Supplying and fixing following 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)	6/32 amps, Single pole	Each	56.00	192.00
b)	50 /63 Amps Triple pole and neutral	Each	2.00	1487.00
7	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Each	6.00	594.00
8	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 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2.00	12831.00
9	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ termination with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping with 2 sets of brass nut bolt and & spring washer spaced at 50 mm)	Each	210.00	898.00

Quoted Rate –

A. _____% above.

B. _____% below.

C. **At estimated Cost.**

Note: - Contractors are required to quote their rate % above % below or at estimated cost, in prescribed Format. Tenderer quoting item-wise rate will be rejected.

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- 05. **Time of Completion**

Signature of Contractor with Date

Electrical Executive Engineer

I.G.I.M.S., Patna-14

Non Schedule items

Sl.No.	Items	Unit	Qty.	Rate
10	Supply of Split A.C 2 Ton cooling capacity 6800w refrigerant R 32 230 v copper condenser coil star rating 3 connection pipe 15.87mm and 6.3 mm each having length of 3.5 meter, connecting cable 3.5 meter (Make-Voltas/Hitachi/LLOYD/O-General/Daikin or equivalent make)	Each	6.00	
11	Supply and Installation of 4/5 KVA Voltage Stabiliser input voltage 160-270Volts, Output 220 volts with time delay	Each	6.00	
12	Installation charge for Split Air Condition	Each	6.00	
13	Supply and fixing of copper refrigerant piping along with Nitrile insulation			
(a)	15.9 mm dia (insulation 13m thick)	Meter	60.00	
(b)	6.4 mm dia (insulation 13m thick)	Meter	60.00	
14	Supplying and fixing of 3 core 2.5sqmm copper cable	Meter	60.00	
15	Supplying and fixing of 25 mm Dia PVC Flexible drain pipe	Meter	65.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-04

01	Name of the Work	Replacement of non-functional light and Fan in Library area and ATLS Lab at new Medical College Building at IGIMS, Patna
02	Estimated cost	Rs.4,10,126.00 (Rs .Four lacks ten Thousand one hundred twenty six only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Items

Sl.No.	Item	Unit	Qty.	Rate
1	Supplying and Fixing indoor recess mounting 36 watt LED flat panel light luminaire suitable for Armstrong / grid ceiling and complete with electronic driven etc. Directly on false ceiling including connection with 1.5 sq mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	42.00	4023.00
2	Supplying and fixing recess mounted 18 watt LED vertical down lighter complete with all accessories and replaceable electronic driver, directly on false ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	67.00	1066.00

Quoted Rate –

A. _____% above.

B. _____% below.

C. **At estimated Cost.**

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05. **Time of Completion**

Signature of Contractor with Date

Electrical Executive Engineer

I.G.I.M.S., Patna-14

Non Schedule item

Sl.No.	Item	Unit	Qty.	Rate
3	Supply and installation of 450 mm , 230 volt V3 A.C Wall/cabin fan with aluminium body ,including fixing the bracket ,making connection testing, commissioning etc. as required	Each	26.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-05

01	Name of the Work	Electrical wiring work and AC work in Microbiology and Hematology Department situated in New Medical college of IGIMS, Patna-14
02	Estimated cost	Rs.7,72,300.00 (Rs. Seven lacks seventy two thousand three hundred only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule-Items

Sl.No.	Items	Unit	Qty.	Rate
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	18.00	724.00
2	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR 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	188.00	161.00
b)	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	677.00	200.00
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.			
a)	5/6 Amps switch	Each	66.00	81.00
b)	15/16 Amps switch	Each	80.00	134.00
c)	3 pin 5/6 Amps socket outlet	Each	66.00	122.00
d)	6 pin 15/16 Amps socket	Each	80.00	185.00
4	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.			
a)	3 Module (100mmX75mm)	Each	66.00	210.00
b)	4 Module (125mmX75mm)	Each	45.00	225.00
c)	6 Module (200mmX75mm)	Each	9.00	275.00

5	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	4.00	594.00
6	Supplying and Fixing indoor recess mounting 36 watt LED flat panel light luminaire suitable for Armstrong / grid ceiling and complete with electronic driven etc. Directly on false ceiling including connection with 1.5 sq mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	27.00	4023.00

Quoted Rate –

A. _____ % above.

B. _____ % below.

C. **At estimated Cost.**

Note: - Contractors are required to quote their rate % above % below or at estimated cost, in prescribed Format. Tenderer quoting item-wise rate will be rejected.

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03. **E.M.D. Details**

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04. **Registration Number** -

05. **Time of Completion**

Signature of Contractor with Date

**Electrical Executive Engineer
I.G.I.M.S., Patna-14**

Non Schedule item

Sl. No.	Item	Unit	Qty.	Rate
7	Supply of Split A.C 2 Ton cooling capacity 6800w refrigerant R 32 230 v copper condenser coil star rating 3 connection pipe 15.87mm and 6.3 mm each having length of 3.5 meter, connecting cable 3.5 meter (Make-Voltas/Hitachi/LLOYD/O-General/Daikin or equivalent make)	Each	4.00	
8	Supply and Installation of 4 KVA Voltage Stabiliser input voltage 160-270Volts, Output 220 volts with time delay	Each	4.00	
9	Installation charge for Split Air Condition	Each	4.00	
10	Supply and fixing of copper refrigerant piping along with Nitrile insulation			
a)	15.9 mm dia (insulation 13m thick)	Meter	60.00	
b)	6.4 mm dia (insulation 13m thick)	Meter	60.00	
11	Supplying and fixing of 3 core 2.5sqmm copper cable	Meter	60.00	
12	Supplying and fixing of 25 mm Dia PVC Flexible drain pipe	Meter	65.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

Electrical Executive Engineer

IGIMS, Patna



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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-06

01	Name of the Work	Comprehensive Annual Maintenance Contract (CAMC) & Rectification of 3-phase online UPS installed at IGIMS Patna -14.
02	Estimated cost	Rs.14,57,000.00 (Rs. Fourteen lacks fifty seven thousand only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	AS per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

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D.D. No.....Date.....Amount.....

04. **Registration Number** -

05. **Time of Completion**

Signature of Contractor with Date

**Electrical Executive Engineer
I.G.I.M.S., Patna-14**

Non Schedule items

SI.No.	Items	Unit	Qty.	Rate
1	Comprehensive Annual Maintenance Contract (including battery, inverter, rectifier, transformer etc) all complete of 3 phase online UPS installed at IGIMS Patna-14	Per KVA	480.00	
2	Rectification (including battery, inverter ,rectifier ,transformer ,PCB ,etc.)all complete of 3- phase 120 KVA online UPS installed at C.T.V.S Panel room at IGIMS Patna -14	Each	1.00	
3	Rectification (including battery ,inverter ,rectifier ,transformer ,PCB ,etc)all complete of 3- phase 60 KVA online UPS installed at Main O.T Panel room at IGIMS Patna -14	Each	1.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

Sl. No-07

01	Name of the Work	Replacement of inefficient split air-conditioners with VRV/VRF Air Conditioners in the Gynecology OT Ground floor Polyclinic building at IGIMS Patna-14
02	Estimated cost	Rs.13,19,900.00 (Rs. Thirteen lacks nineteen thousand nine hundred only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Items

Sl. No.	Items	Unit	Qty.	Rate
1	Wiring for circuit/sub main wiring along with earth wire with the following sizes of FR 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	170.00	161.00
c)	4 x 10 sq.mm. + 1 x 10 sq.mm. earth wire	Meter	50.00	593.00
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			
a)	4 way (4 + 12), double door, horizontal type	each	1.00	2,388.00
3	Supplying and fixing following rating, 240/415 volts, "C" curve, 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)	6/32 Amps Single Pole	each	8.00	192.00
b)	50/63 Amps TPN	each	1.00	1635.00
4	Supplying and fixing TPN sheet steel enclosure on surface/recess along with 63amps 415 volts, "C" curve TPN MCB complete with connections, testing and commissioning etc. as required.	each	1.00	1919.00
5	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 50 sq. mm (35mm)	each	2.00	329.00
6	Fixing for laying 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 35 sq. mm and up to 95 sq. mm (Clamped with 25 x 3 mm MS flat clamp)	Meter	40.00	68.00
7	Supply of 3.5 core 50 sq mm XLPE/PVC insulated PVC sheathed (heavy duty) armoured electrical cable with aluminium	Meter	40.00	286.82

Quoted Rate –

A. _____% above.

B. _____% below.

C. **At estimated Cost.**

Note: - Contractors are required to quote their rate % above % below or at estimated cost, in prescribed Format. Tenderer quoting item-wise rate will be rejected.

01. Issued to – Name of Contractor -

02. **Full Address**

03. **E.M.D. Details**

D.D. No.....Date.....Amount.....

04. **Registration Number** -

05. **Time of Completion**

Signature of Contractor with Date

**Electrical Executive Engineer
I.G.I.M.S., Patna-14**

Non-Schedule Items

Sl.No.	Items	Unit	Qty.	Rate
8	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R410A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRIC Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V+/-10% , 3Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5.	HP	20.00	
9	Supply, installation, testing and commissioning of following minimum capacity VRV/VRF High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cordless remote control, drain pan, necessary accessories etc. suitable for operation on 230V±10%,50Hz,single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27Degree C DB and 19 Degree C WB temperature.			
	2.0 TR	each	8.00	
10	Supply, Installation, testing and commissioning including vacuumization and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :			
a)	28.58mm dia (OD) (Harddrawn) with tube thickness 1.2 mm with 19 mm thick insulation	Meter	15.00	
b)	22.2 mm dia (OD) (Harddrawn) with tube thickness 1.2 mm with 19 mm thick insulation	Meter	18.00	
c)	19mmdia (OD) (Harddrawn) with tube thickness 1.2 mm with 19 mm thick insulation	Meter	35.00	
d)	15.86 mm dia(OD)(Soft drawn)with tubethickness1.2mmwith19mm thick insulation	Meter	55.00	
f)	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Meter	93.00	
11	Supply, installation, testing & commissioning of control cum transmission wiring of 2 core x 1.5 Sq mm copper in suitable PVC conduits for interconnection between IDUs & ODUs.	Meter	200.00	
12	Rigid PVC drain pipe with fitting proper support at 5 feet interval and insulated with 6 mm thick closed cell			

	nitrile rubber insulation			
a)	25 mm dia	Meter	40.00	
13	Topping up of additional Refrigerant (R-410A)	Kg	27.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

Electrical Executive Engineer

IGIMS, Patna



INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES SHEIKHPURA, PATNA – 14 (BIHAR)
(Autonomous Institute of Govt. of Bihar)

Tel.: 0612 – 2297631, 2297099; FAX: 0612 – 2297225; Website: www.igims.org; E-Mail:director@igims.org

BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-08

01	Name of the Work	Replacement of inefficient split air-conditioning with VRV/VRF Air Conditioning work of Gynecology department labour room & OPD at ground floor polyclinic building at IGIMS, Patna-14
02	Estimated cost	Rs.14,54,300.00 (Rupees Fourteen lacks fifty four thousand three hundred only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	As per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Items

Sl. No.	Items	Unit	Qty.	Rate
1	Wiring for circuit/sub main wiring along with earth wire with the following sizes of FR 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	150.00	161.00
c)	4 x 10 sq.mm. + 1 x 10 sq.mm. earth wire	Meter	38.00	593.00
2	Supplying and fixing following way, horizontal type three pole & 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)	4 way (4 + 12), Single door, horizontal type	each	1.00	1680.00
3	Supplying and fixing following rating, 240/415 volts, "C" curve, 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)	6/32 Amps Single Pole	each	12.00	192.00
b)	50/63 amps, Tripole pole and neutral	each	1.00	1635.00
4	Supplying and fixing TPN sheet steel enclosure on surface/recess along with 63amps 415volts,"C"curve TPN MCB complete with connections, testing and commissioning etc. as required.	each	1.00	1919.00
5	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 50 sq. mm (35mm)	each	2.00	329.00

6	Fixing for laying 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 35 sq. mm and upto 95 sq. mm (Clamped with 25 x 3 mm MS flat clamp)	Meter	35.00	68.00
9	Supply of 3.5 core 50 sq mm XLPE/PVC insulated PVC sheathed (heavy duty) armoured electrical cable with aluminium	Meter	35.00	277.22

Quoted Rate –

A. _____ % above.

B. _____ % below.

C. **At estimated Cost.**

Note: - Contractors are required to quote their rate % above % below or at estimated cost, in prescribed Format. Tenderer quoting item-wise rate will be rejected.

01. **Issued to – Name of Contractor** -

02. **Full Address**

03. **E.M.D. Details**

D.D. No.....Date.....Amount.....

04. **Registration Number** -

05. **Time of Completion**

Signature of Contractor with Date

Electrical Executive Engineer

I.G.I.M.S., Patna-14

Non Schedule item

Sl. No.	Items	Unit	Qty.	Rate
6	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating ,having all hermetically sealed inverter type Scroll Compressor(s),minimum two compressors for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s),with R410A Refrigerant, vibration isolators, with suitable foundation etc .complete as required. The unit shall deliver the rated capacity at AHRIC Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V+/-10% ,3Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5 .	HP	20.00	
7	Supply, installation, testing and commissioning of following minimum capacity VRV/VRF High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cordless remote control, drain pan, necessary accessories etc. ,suitable for operation on 230V±10%,50Hz,single phase AC supply ,complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27Degree C DB and 19 Degree C WB temperature.			
a)	2TR	each	7.00	
b)	1.65TR	each	2.00	
8	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :			
a)	6.4mmdia(OD) (Softdrawn)with tube thickness 1.2mm with 19 mm thick insulation	Meter	30.00	
b)	9.5mm dia (OD)(Softdrawn) with tube thickness 1.2mm with 19mm thick insulation	Meter	120.00	
c)	15.86mm dia(OD)(Softdrawn) with tube thickness 1.2mm with 19mm thick insulation	Meter	80.00	
e)	19mm dia(OD)(Harddrawn) with tube thickness 1.2mm with 19mm thick insulation	Meter	45.00	
f)	22.2mm dia(OD)(Harddrawn)with tube thickness1 .2mm with 19mm thick insulation	Meter	30.00	
g)	28.58mm dia(OD)(Harddrawn)with tube thickness1.2mm with 19mm thick insulation	Meter	20.00	

10	Supply, installation ,testing & commissioning of control cum transmission wiring of 2 core x 1.5 Sqmm copper in suitable PVC conduits for interconnection between IDUs & ODUs.	Meter	214.00	
11	Rigid PVC drain pipe with fitting proper support at 5 feet interval and insulated with 6 mm thick closed cell nitrile rubber insulation			
a)	25 mm dia	Meter	45.00	
12	Topping up of additional Refrigerant (R-410A)	Kg	32.50	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

Electrical Executive Engineer

IGIMS, Patna



INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES SHEIKHPURA, PATNA – 14 (BIHAR)
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BILL OF QUANTITY

SHORT URGENT TENDER NOTICE NO. Engg. 07 / EW /2021-22

SI No-09

01	Name of the Work	Comprehensive Annual Maintenance Contract (CAMC) & Rectification of 3-phase Servo voltage Stabilizer installed at IGIMS Patna -14
02	Estimated cost	Rs.11,40,000.00 (Rs. Eleven lacks forty thousand only)
03	Cost of BOQ	As per NIT
04	Amount of earnest money to be deposited	As per NIT
05	Time of Completion of job	As per NIT
06	Date of receipt of Tender documents (In hard copy)	As per NIT
07	Date of opening of Tender	AS per NIT
08	Place of opening of Tender	Conference Hall, I.G.I.M.S., Patna-14

01. **Issued to – Name of Contractor** -
02. **Full Address**
03. **E.M.D. Details** D.D. No.....Date.....Amount.....
04. **Registration Number** -
05. **Time of Completion**

Signature of Contractor with Date

Electrical Executive Engineer
I.G.I.M.S., Patna-14

Non Schedule item

Sl.No.	Items	Unit	Qty.	Rate
1	Comprehensive Annual Maintenance contract of (including transformer, internal ckt, etc all complete of 3 phase Servo Voltage Stabilizer installed at IGIMS Patna-14	Per KVA	1200.00	
2	Rectification of (including transformer, internal ckt, timer etc.) all complete of 100 KVA ,3 phase Servo Voltage Stabilizer installed at IGIMS Patna-14	Each	5.00	

NOTE-Tenderer are requested to quote their rates against above (NSI) item.

Signature of Contractor with Date

Electrical Executive Engineer

IGIMS, Patna