

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA PATNA-14

BILL OF QUANTITY

Short Tender / Quotation Notice No. Engg. \52 (E)\ 2014-15

01	Name of the Work	Estimate for repair and maintenance of electrical power transformers installed at, IGIMS, Patna-14.
02	Estimated cost	Rs. 2,06,112.00 (Rs Two lacs, Six thousand, One hundred twelve) only
03	Cost of quotation documents	Rs.750.00/- (Rupees Seven hundred Fifty Only – Non- refundable)
04	Amount of earnest money to be deposited	Rs.4123.00 (Rupees Four Thousand, One hundred twenty three) only
05	Time of Completion of job	21 (Twenty one) days
06	Date of receipt of quotation	21-07-2014 up to 03.00 P.M
07	Date of opening of Tender	22-07-2014 at 03.30 P.M
08	Place of opening of tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Item

SI.No.	Items	Qty.	Unit	Rate
1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.			
a)	Up to 120 sq. mm	15.00	Mt.	235.00
2	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 up to 400 sq. mm	30.00	Mt.	215.00
3	Supplying and making indoor 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 300 sq. mm (70mm)	8.00	No.	940.00
b)	3½ X 400 sq. mm (70mm)	4.00	No.	1230.00
4	Filtration of transformer oil	785.00	Lt.	21.00

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 -

02. **Full Address**
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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 Scheduled Item

Sl.No.	Items	Qty.	Unit	Rate
01	Supplying of standard transformer oil IS-335-1993. having minimum VDB 30 KV/ per minute (As per rate analysis)	Lit.	Each	
02	Supplying and replacement of defective / damaged dial type oil filled temperature 0 to 100* C with electric alarm contacts for 500 KVA transformers.(as per rate analysis)	Lamp sump	Each	
03	Cleaning and painting of outside of the transformer with standard ,ISI mark enamel paint with two quote primer coating as per direction of the Engg.-in-charge of the transformers. (as per market rate)	Lamp sump	Each	
04	Supply and filling of silica gel as per BS-7554 -1992, in the silica gel container of 2 x 500 KVA transformer	Kg.	Each	

Note: - Tenderers are requested to quotes their rates against above item.

Signature of Contractor with Date

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

Special Terms and Conditions

- 1- Bidder has to quote their lowest rate in % rate for schedule item and quote item rate for non schedule item.
- 2- The new Transformer Oil should be supplied in the Grade-B new Barrels which shall carry marking viz “1S-335” supplier’s designation, classification, lot no with date of manufacturing, quantity of oil.
- 3- Contractor has to bring the Transformer filtration machine of sufficient capacity so that filtered oil in the transformer will have stable Breakdown B.D.V of minimum 60 KV/min rms. in 8 hours, duration after starting of filtration process.
- 4- The Oil Filtration Machine should be of low temperature and high vacuum of evaporation type so that the Transformer Oil temperature may not exceed overall temperature of 45 degree centigrade.
- 5- Contractor will have to bring, connect and filter the transformer oil at his cost and risk.

Any leakage or spoilage of transformer oil in the process of filtration, connection etc will be in the bidder’s account.
- 6- Contractor has to take sample of oil and get it checked for B.D.V. before and after the filtration work of transformer.

Contractor has to submit the Test Report of stable B.D.V. for 5 Readings after filtration work.
- 7- Contractor has to take approval for the Dial type thermometer from the Engineer-in-Charge before installation.
- 8- Contractor has to check the transformer explosion vent diaphragm of the transformer and replace the it if found damaged.
- 9- Payment of the work will be done through M.B. recording after satisfactory completion of work.
- 10- The Contractor will be entirely responsible for the safety of the manpower. He has to take all the necessary precaution of safety while working.

Executive Engineering (Elect.)
IGIMS, Patna.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA PATNA-14

BILL OF QUANTITY

Short Tender / Quotation Notice No. Engg. \52 (E)\ 2014-15

01	Name of the Work	Supplying and laying work of underground electrical cable for "A" and "B" type Residential Block of IGIMS, Patna-14.
02	Estimated cost	Rs. 13,99,603.00 (Rs Thirteen lacs, Ninety nine thousand, Six hundred Three) only
03	Cost of quotation documents	Rs.2500.00/- (Rupees Two thousand, five hundred Only – Non- refundable)
04	Amount of earnest money to be deposited	Rs.27,992.00 (Rupees Twenty seven thousand, Nine hundred ninety two) only
05	Time of Completion of job	75 (Seventy five) days
06	Date of receipt of quotation	21-07-2014 up to 03.00 P.M
07	Date of opening of Tender	22-07-2014 at 03.30 P.M
08	Place of opening of tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Item

Sl.No.	Items	Qty.	Unit	Rate
1	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 35 sq. mm and up to 95 sq. mm	730.00	Mt.	188.00
b)	Above 185 sq. mm and up to 400 sq. mm	210.00	Mt.	215.00
2	Earthing with G.I. pipe 4.5m long, 40mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	4.00	Each	2803.00
3	Supplying and making indoor 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)	30.00	Each	286.00
b)	3½ X 185 sq. mm (57mm)	4.00	Each	671.00
4	Providing and fixing 6 SWG. G.I. wire on surface or in recess for loop earthing as required	25.00	Mt.	34.00
5	Providing and fixing 25mm x5mm tick G.I. strip in 40 mm.dia. GI pipe from earth electrode as required	50.00	Mt.	295.00
6	Proving and fixing 25 m x5mm thick G.I. strip in surface or in recess or connection etc as required.	28.00	Mt.	75.00
7	Supply and fixing of 150 mm GI pipe of medium class as per the PHED schedule 1540 of adequate length to make secured with pole with pole clamp at the bottom of the pole to provide inside the cable from ground to junction box, as required.	10.00	Mt.	1317.00
8	Paving re-rolling of cable laying & installation of LT, XLPE (E) & PVC cable ground without excavation & disturbing the upper soil crest and boring in ground with the help of boring machine & boring & placing position GI pipe not less than 150 mm dia, two pipe boring length up to 25 meter & pulling cable of sizes mentioned through the GI pipe making the man hole as may be required for plumbing the boring machine , making the inspection chamber , casting of riser for cable including joint marker , route marks, providing and laying earthing material and earthing cable etc including testing & commissioning for the work complete as per technical specification.	20.00	Mt.	4879.00

9	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.			
a)	3½ X 50 sq. mm	12.00	Each	1598.00
10	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.			
(a)	150 mm dia.	20.00	Mt.	357.00

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 -

02. **Full Address**
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03. **E.M.D. Details**
D.D. No.....Date.....Amount.....

04. **Registration Number** -
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05. **Time of Completion**

Signature of Contractor with Date

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

Non Scheduled Item

SI.No.	Items	Qty.	Unit	Rate
1	Supply of 3-1/2 core 50.mm.sq. armoured aluminium underground XLPE power cable of 1.1 KV grade (As per rate analysis)	Mt.	Each	
2	Supply of 3-1/2 core 185.mm.sq. armoured aluminium underground XLPE power cable of 1.1 KV grade (As per rate analysis)	Mt.	Each	

Note: - Tenderers are requested to quotes their rates against above item.

Signature of Contractor with Date

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

Special Terms and Conditions

- 1- Bidder has to quote their lowest rate in % rate for schedule item and quote item rate for non schedule items.
- 2- The contractor has to supply the power cable of standard Aluminum conductor XPLE insulated, cores laid up, PVC tape inner sheathed Armored with galvanized Strip, extruded PVC Type ST 2 Sheathed 650/1100V Grade as per IS 7098 (Part-I)1988 of required size.
- 3- The payment for supply and work will be done through M.B. recording after satisfactory inspection and completion of the work.
- 4- The Contractor will be entirely responsible for the safety of the manpower. He has to take all the necessary precaution of safety while working.

Executive Engineering (Elect.)
IGIMS, Patna.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA PATNA-14

BILL OF QUANTITY Short Tender / Quotation Notice No. Engg. \52 (E)\ 2014-15

01	Name of the Work	Repairing of Two nos. High Mast Light units and fixture installed in IGIMS, Patna-14
02	Estimated cost	Rs. 1,27,823.00 (Rs One lacs, Twenty seven thousand, Eight hundred Twenty three) only
03	Cost of quotation documents	Rs.500.00/- (Rupees Five hundred Only – Non- refundable)
04	Amount of earnest money to be deposited	Rs.2556.00 (Rupees Two Thousand, Five hundred Fifty six) only
05	Time of Completion of job	21 (Twenty one) days
06	Date of receipt of quotation	21-07-2014 up to 03.00 P.M
07	Date of opening of Tender	22-07-2014 at 03.30 P.M
08	Place of opening of tender	Conference Hall, I.G.I.M.S., Patna-14

Non Scheduled Item

Sl.No.	Items	Qty.	Unit	Rate
1	Supplying & fixing of 400 watts copper chock-ballast	Each.	Each.	
2	Supplying & fixing of 400 watts SV lamp	Each.	Each.	
3	Supplying & fixing of 400 watts igniters for SLV lamp	Each.	Each.	
4	Supplying & fixing of 400 watts SVL bulb holder	Each.	Each.	
5	Supplying & fixing of 42 MFD, 415 volts AC condenser (capacitor)	Each.	Each.	
6	Supplying & fixing of 4 core,16 sq.mm.,flexible copper cable	Mt.	Mt.	
7	Supplying & fixing of 8 mm ss rope	Mt.	Mt.	
8	Supplying & fixing of 15 watts CFL bulb	No.	No.	
9	Supplying & fixing of TPN "C" series 63 Amps,415 v with TPN connecting base	No.	No.	
10	Crane charges	No.	No.	
11	repairing & complete wiring charges	No.	No.	
12	Complete dismantling , erection & fitting of flexible cable and s.s rope charges	No.	No.	

Note: - Tenderers are requested to quotes their rates against above item.

Signature of Contractor with Date

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

Special Terms and Conditions

- 1- The contractor has to replace the electrical lamps, choke, conductor and igniter etc of original make only.
- 2- As the hoist wire of one of the hoist has broken in between, it is to be replaced by the new steel wire rope of original strength and specification
- 3- The flexible cable of the hoist carrying the current to the lighting fixtures are to be replaced by original specification.
- 4- The Contractor will be entirely responsible for the safety of the manpower. He has to take all the necessary precaution of safety while working.
- 5- Payment of the work will be done through M.B. recording after satisfactory completion of work.

Executive Engineering (Elect.)
IGIMS, Patna.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA PATNA-14

**BILL OF QUANTITY
Short Tender / Quotation Notice No. Engg. \52 (E)\ 2014-15**

01	Name of the Work	Dismantling of L.T. Over head line in the residential complex. At IGIMS, Patna
02	Estimated cost	Rs. 1,29,439.00 (Rs One lacs, Twenty nine thousand, Four hundred Thirty nine) only
03	Cost of quotation documents	Rs.500.00/- (Rupees Five hundred Only – Non- refundable)
04	Amount of earnest money to be deposited	Rs.2,589.00 (Rupees Two Thousand, Five hundred, Eighty nine) only
05	Time of Completion of job	21 (Twenty one) days
06	Date of receipt of quotation	21-07-2014 up to 03.00 P.M
07	Date of opening of Tender	22-07-2014 at 03.30 P.M
08	Place of opening of tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Item

SI.No.	Items	Qty.	Unit	Rate
1	Dismantling of Pole/Street Light Standard/ Strut embedded in brick ballast foundation etc. as required.	30.00	Each	787.00
2	Dismantling of Pole/ Street Light Standard/ Strut embedded in cement concrete foundation etc. as required.	18.00	Each	1046.00
3	Dismantling of Overhead lines comprising of Aluminium overhead conductor, G.I. wire, cross arms, insulators etc as required.			
	2.0 km weasel conductor = 2.0x4 row x 128 kg/km = 1024 kg.			
	1.0 km rabbit conductor = 1.0 x 4 row x 214 kg/km = 856 kg.			
	MS Angle/Channel= 48x 4 kg = 192 kg.			
	MS Clamp = 48x2 kg = 96 kg.			
	Pin Porcelain Insulator = 48x4x1 kg = 192 kg.			
	2360 kg	2360.00	Each	35.00
4	Carriage of R.C.C. pipe, R.C.C. pole, A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforced cement pipes.			
a)	300 mm dia.	390.00	100 mt.	955.43
5	Cost of carriage including loading ,unloading & stacking of Steel	2.50	Ton	270.01

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**
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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**

Special Terms and Conditions

- 1- The contractor has to return all the wire, pole structure, its accessories, insulator etc to our stores after dismantling.
- 2- The Contractor will be entirely responsible for the safety of the manpower. He has to take all the necessary precaution of safety while working.
- 3- Payment of the work will be done through M.B. recording after satisfactory completion of work.

Executive Engineering (Elect.)
IGIMS, Patna.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA PATNA-14

**BILL OF QUANTITY
Short Tender / Quotation Notice No. Engg. \52 (E)\ 2014-15**

01	Name of the Work	Electrical Wiring and Accessories, for installation of Eye Bank Unit, ward block, second floor at IGIMS, Patna -14
02	Estimated cost	Rs. 2,81,131.00 (Rs Two lacs, Eighty one thousand, One hundred, Thirty one) only
03	Cost of quotation documents	Rs.750.00/- (Rupees Seven hundred, Fifty Only – Non- refundable)
04	Amount of earnest money to be deposited	Rs.5,650.00 (Rupees Five Thousand, Six hundred, Fifty) only
05	Time of Completion of job	15 (Fifteen) days
06	Date of receipt of quotation	21-07-2014 up to 03.00 P.M
07	Date of opening of Tender	22-07-2014 at 03.30 P.M
08	Place of opening of tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Item

SI.No.	Items	Qty.	Unit	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	22.00	Nos.	727.00
2	Wiring for light/power plug with 2 x 4 sq.mm F.R. P.V.C. insulated copper conductor single core cable in surface/ recessed P.V.C. conduit along with 01-No. 04 sq.mm F.R. P.V.C. insulated copper conductor single core cable for loop earthing as required.	156.00	MT	171.00
3	Wiring for circuit/sub-main wiring along with earth wire with the following size of F.R. P.V.C. insulated copper conductor, single core cable in surface/recessed steel conduit, as required.			
a)	2 x 1.5 sq.mm + 1 x 1.5 sq.mm earth wire	156.00	MT	97.00
b)	2 x 4 sq.mm + 1 x 4 sq.mm earth wire	68.00	MT	171.00
c)	2x 10 sq.mm +1x10 sq mm earth wire	28.00	MT	320.00
d)	4x 16 sq.mm +1x16 sq mm earth wire	04.00	MT	803.00
4	Supplying and fixing suitable size G.I./PVC box on surface or in recess with phenolic laminated sheet cover in front including providing and fixing 5pin 5/6Amps socket outlet and 5/6Amps piano type switch, connection, painting etc as required.	09.00	Nos.	320.00
5	Supplying and fixing suitable size G.I./PVC box on surface or in recess with phenolic laminated sheet cover in front including providing and fixing 6pin 15/16Amps socket outlet and 15/16Amps piano type switch, connection, painting etc as required.	08.00	Nos.	411.00

6	Supplying and fixing following rating, 240 volts "C"series. Miniature circuit breaker suitable for inductive load of following poles in the existing M.C.B. D.B. complete with connection, testing and commissioning etc as required.			
a)	Single Pole 06Amps/32Amps	18.00	Nos.	156.00
b)	4 pole 50 / 63 AMP MCB TPN	01.00	Nos.	1460.00
7	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)			
a)	6 way (4 + 18), Double door	01.00	Nos.	7887.00
8	Supplying and fixing batten/angle holder including connection etc. as required.	02.00	Nos.	28.00
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.	03.00	No.	796.00
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.	01.00	No.	412.00

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 -

02. **Full Address**
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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**

Schedule Item

Sl.No.	Items	Qty.	Unit	Rate
1	SIT&C of Window type Air- Conditioner 2.00 Tr. with voltage stabilizer (5 KVA,145-280 with time delay)	No.	Each	
2	Wall Fan 400 mm sweep	No.	Each	

Note: - Tenderers are requested to quotes their rates against above item.

Signature of Contractor with Date

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

Special Terms and Conditions

- 1- Bidder has to quote their lowest rate in % rate for schedule item and quote item rate for non schedule item.
- 2- The Contractor will be entirely responsible for the safety of the manpower. He has to take all the necessary precaution of safety while working.
- 3- Payment of the work will be done through M.B. recording after satisfactory completion of work.

Executive Engineering (Elect.)
IGIMS, Patna.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES: SHEIKHPURA PATNA-14

BILL OF QUANTITY

Short Tender / Quotation Notice No. Engg. \52 (E)\ 2014-15

01	Name of the Work	Electrical wiring for panel and Distribution board of Administrative building at, 1st floor at IGIMS campus, Patna - 14
02	Estimated cost	Rs. 91,880.00 (Rs Ninety one thousand, Eight hundred, Eighty) only
03	Cost of quotation documents	Rs.500.00/- (Rupees Five hundred, Only – Non- refundable)
04	Amount of earnest money to be deposited	Rs.1,838.00 (Rupees One Thousand, Eight hundred, Thirty eight) only
05	Time of Completion of job	07 (Seven) days
06	Date of receipt of quotation	21-07-2014 up to 03.00 P.M
07	Date of opening of Tender	22-07-2014 at 03.30 P.M
08	Place of opening of tender	Conference Hall, I.G.I.M.S., Patna-14

Schedule Item

SI.No.	Items	Qty.	Unit	Rate
1	Wiring for circuit/sub-main wiring along with earth wire with the following size of. P.V.C. insulated copper conductor, single core cable in surface/recessed PVC conduit, as required.			
a)	2 x 4 sq.mm + 1 x 4 sq.mm. earth wire	36	MT	169.00
b)	4 x 25 sq.mm + 1 x 16 sq.mm. earth wire	60	Mt.	1342.00
2	Supplying and fixing following rating 240 volts 'C' series Miniature .Circuit breaker suitable for inductive loads of following poles in the existing M.C.B., D.B. complete with connection, testing and commissioning etc as required			
a)	6 / 32 amps Single Pole -	24	Nos.	156.00
3	Supplying and fixing following rating four pole 415 volt isolator in the existing MCB DB complete with connection testing & commissioning as required --63 amps	01	Each	1460.00

Quoted Rate –

A. _____% above.

B.

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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05. **Time of Completion**

Signature of Contractor with Date

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

Special Terms and Conditions

- 1- Bidder has to quote their lowest rate in % rate for schedule item and quote item rate for non schedule item.
- 2- The Contractor will be entirely responsible for the safety of the manpower. He has to take all the necessary precaution of safety while working.
- 3- Payment of the work will be done through M.B. recording after satisfactory completion of work.

Executive Engineering (Elect.)
IGIMS, Patna.