

No: 1817/2/2022/NK/TVPM

Office of the Nirmithi Kendra,
B Block, 4th Floor, Civil Station,
Kudappanakunnu, Thiruvananthapuram 43.
pmnirmithi01@gmail.com, 0471-2732929
12/08/2022

INVITATION OF TENDER

District Nirmithi Kendra invites Competitive tender from authorized Firms/Experienced Individual in the form attached herewith for **Electrical Works at Amboori Smart Village Office, Thiruvananthapuram.**

S.NO	PARTICULARS	QTY	UNIT
1	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall,making good the damages, colour washing etc. as required 4 way (8+12) - three phase double cover (IP42/43)	3	Nos.
2	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V,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 16way, Double door	1	Nos.
3	Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in ground including excavation of trench of size 35 x 75 cm, refilling the trench etc. as required but excluding sand cushioning and protective covering (in ordinary soil). 3.5 core 25 sq. mm	20	M
4	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 2.65 mm copper conductor (12 SWG)	20	M
5	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, andproviding masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2	Nos.



6	Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	20	M
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. Single pole	28	Nos.
8	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. Double pole	1	Nos.
9	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. Triple pole and neutral	2	Nos.
10	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	1	Nos.
11	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	1	Nos.
12	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	2	Nos.
13	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	1	Nos.
14	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant) 25A 2M switch with indicator	1	Nos.
15	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant) 25A 3pin Shuttered socket	1	Nos.
16	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	10	Nos.



17	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch	2	Nos.
18	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 3 pin 5/6 amp socket outlet	15	Nos.
19	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 3 pin 5/6 amp socket outlet	2	Nos.
20	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	7	Nos.
21	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	10	Nos.
22	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlets and 2 Nos. 5/6 A modular switches, connection etc. as required. (For light plugs to be used in non-residential buildings).	10	Nos.
23	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 1 or 2 Module (75mmX75mm)	2	Nos.
24	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. 3 Module (100mmX75mm)	2	Nos.
25	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. 8 Module (125mmX125mm)	2	Nos.
26	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 8 module moulded plastic box on surface	5	Nos.
27	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required. 8 Module	5	Nos.
28	Wiring for circuit/sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required 4 X 6 sq. mm + 2 X 6 sq. mm earth wire	20	M
29	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper	20	M

	conductor, single core cable in surface/recessed medium class PVC conduit as required 2 X 4 sq. mm + 1 X 4 sq. mm earth wire		
30	Wiring for circuit/sub main 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 2 X 6 Sq.mm + 1 x 6 sq.mm earth wire	20	M
31	Wiring for circuit/sub main 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 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	80	M
32	Wiring for circuit/sub main 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 2 x 1.5 sq.mm + 1 x1.5 sq.mm earth wire	10	M
33	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. FRLSPVC insulated copper conductor single core cable etc as required. Group C	35	Nos.
34	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	4	Nos.
35	Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.1200mm sweep -5star rated ceiling fan complete with 300mm down rod , canopies, shackles and blades working on 230V/240V single phase A/C	7	Nos.
36	Supply & installation of light fittings suspended on ball & socket arrangement with 19 mm down rod, Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm length including painting and wiring the down rod	6	Nos.



	with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. as required complete with LED Tube Light Fittings (Integral Type), T5, Length:4F/1200mm, Power: 18-20 W, Efficacy: 90-100 Lum/W		
37	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.	1	Nos.
38	Supplying and fixing 20 amps 415volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top along with 20 amps "C" curve, TPMCB, in sheet 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.	1	Nos.
39	Supply Conveyance, installation, testing and commissioning of 40W LED Flood light output greater than 105lumen/W 4000-6000 K with IP 66 protection LED Chip make Cree/Lumiled/Nichea with power factor greater than 0.95 at full load, internal surge protection up to 8 KV, and Aluminium pressure die-cast Powder coated housing, acrylic cover complete with THD less than 10%, power factor greater than 0.98, RoHS compliant, duly wired up for use on 230 V AC supply. Driver compartment should be separately accessible for maintenance (LM 79&80 certificates from NABL accredited Third party lab to be produced mentioning chip manufacturer)	1	Nos.
40	Supply, conveyance, installation, testing and commissioning of 225mm sweep, 1400 rpm working on 230 V A/C PVC body with self opening shuttered type light duty exhaust fan in the existing opening using suitable size anchor bolt/screws etc and giving connection as required (Crompton or its equivalent)	4	Nos.
41	Supply, installation, testing and commissioning of wall mounted three phase 4 wire energy meter with poly carbonate body having range of 10-63 A with enclosure made out of powder coated 16 SWG CRCA sheet suitable for fixing in surface/recess with 3 nos. of 63 A HRC fuses, 63 A TPN isolator, neutral link, its inter connections etc. The enclosure shall have lockable door with glass window and all mounting accessories etc. complete as required. Including installation and commissioning fee for KSEB (supply of energy meter is under KSEB scope)	1	Nos.
42	Supplying and fixing angle batten with 9 Watt LED Bulb and other accessories	8	Nos.
43	Supply and fixing LED Tube Light Fittings (Integral Type),	12	Nos.



	T5, Length:4F/1200mm, Power: 18-20 W, Efficacy: 90-100 Lum/W		
44	Supply and fixing LED Down light fittings, 9W round	3	Nos.
45	Supplying and drawn of UTP 4 pair CAT 6 LAN cable in the existing surface/recessed steel/PVC conduit as required 1 run of Cable	300	M
46	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20mm	200	M
47	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/recess including making good the damages, colour washing etc as required (RoHS compliant) 2 module moulded plastic box on surface	6	Nos.
48	Supplying and fixing following modular switch /socket on the existing modular plate and switch box including connection but excluding modular plate as required. CAT 6RJ 45 socket outlet	12	Nos.
49	Supply and installation of Shutter Type 2-ports dual network Face Plate suitable for CAT 6RJ 45 and RJ11 information outlet	6	Nos.
50	Engage computer engineer for programming all network and commissioning etc. complete	1	Nos.
51	Supply and termination of Cat6 UTP 16 Port Loaded Patch Panel	1	Nos.
52	Supply and termination of 16-Port Gigabit Ethernet Switch, 1000 Mbps	1	Nos.
53	Supply and installation of RJ 45 CAT 6E Mounting cord- 1 Mtr, gray	12	Nos.
54	Supply and fixing 4U wall mount network equipment rack with complete accessories	1	Nos.
55	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/recessed steel/PVC conduit as required. 2 Pair	300	M
56	Supply and termination of RJ11 type information outlet	10	Nos.
57	Supply, fixing and termination of Telephone Distribution Box, IP44 with 20 pair krone connector	1	Nos.

LIST OF APPROVED MAKE OF MATERIALS		
S.No.	Materials	Make
1	MCCB/MCB/ELCB/RCCB/Isolators	Legrand, Schneider, Siemens, L&T, ABB or equivalent
2	Pvc Insulated Wires/ Armoured Cable	Traco/Lapp/Finolex/V-Guard/Havells/Helukable/RR/Gloster/Nicco/ Universal/CCI/Ravin/Torrent or equivalent
3	Distribution Board	Legrand, Schneider Siemens, L&T, ABB or equivalent
4	Switch, Socket Outlet and Receptacle	Legrand, Schneider Siemens, L&T, ABB or equivalent



5	Cable gland and cable lug	Hex/Jainson/Commet or equivalent
6	PVC Conduit Pipes	Precision / Balco or Equivalent
7	Light Fixtures	CG/Bajaj/Philips/Wipro/Havells/Osram or equivalent
8	Fan	CG/Bajaj/Usha/Havells/Almonard or equivalent
9	Networking Equipments and Accessories	TP-Link/CISCO or equivalent

2) Bid Price:

- a) Tender shall be for the full quantity as described above. Corrections if any shall be made by crossing out re-writing with initial and date.
- b) **The rate should be all inclusive of taxes, levies, transports etc. Usual deduction of taxes will be made from the gross amount of bill.**
- c) The rate quoted by the bidder shall be fixed for the duration of the tender and shall not be subject to adjustment on any account.
- d) The price should be quoted in Indian rupees only.

3) Each bidder shall submit only one tender.

4) Validity of tender:

Tender shall remain valid for a period not less than 45 days after the dead line date specified for submission

5) Evaluation of tender:

The tenderer will evaluate and compare the tender determined to be substantially responsive ie which

- a) Are properly signed
- b) Confirm to the terms and conditions and specification.

6) Award of Tender:

- a) The work will award to the tenderer whose tender has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- b) The tenderer whose bid is accepted will be notified of the award of the contract by the purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 7) The amount will be released after verification of the material in physical, quality and receipt of invoice in this office according to the availability of funds. Individual or authorized dealers/agents are only eligible.
- 8) Tenderer are requested to provide your offer latest by 12 hours on **19.08.2022** and the quotation will be opened at **19.08.2022**.
- 9) Cost of Tender form: Nil
- 10) Earnest Money Deposit: Nil

We look forward to receiving your tender and thank for your interest in this work.



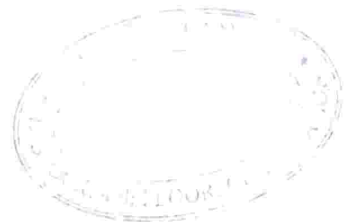
Project Manager

Copy to : Website & notice board



Tender Format

S.No.	PARTICULARS	QTY	UNIT	UNIT RATE	AMOUNT
1	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required 4 way (8+12) - three phase double cover (IP42/43)	3	Nos.		
2	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240V, 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 16way, Double door	1	Nos.		
3	Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in ground including excavation of trench of size 35 x 75 cm, refilling the trench etc. as required but excluding sand cushioning and protective covering (in ordinary soil). 3.5 core 25 sq. mm	20	M		
4	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 2.65 mm copper conductor (12 SWG)	20	M		
5	Earthing with G.I. earth plate 600 mm X 600 mm X 6 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.	2	Nos.		
6	Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	20	M		



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. Single pole	28	Nos.		
8	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. Double pole	1	Nos.		
9	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. Triple pole and neutral	2	Nos.		
10	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	1	Nos.		
11	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	1	Nos.		
12	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	2	Nos.		
13	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	1	Nos.		
14	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant) 25A 2M switch with indicator	1	Nos.		



15	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	1	Nos.		
16	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	10	Nos.		
17	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch	2	Nos.		
18	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 3 pin 5/6 amp socket outlet	15	Nos.		
19	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 3 pin 5/6 amp socket outlet	2	Nos.		
20	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	7	Nos.		
21	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	10	Nos.		
22	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlets and 2 Nos. 5/6 A modular switches, connection etc. as required. (For light plugs to be used in non-residential buildings).	10	Nos.		
23	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 1 or 2 Module (75mmX75mm)	2	Nos.		



24	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 Module (100mmX75mm)	2	Nos.		
25	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 8 Module (125mmX125mm)	2	Nos.		
26	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 8 module moulded plastic box on surface	5	Nos.		
27	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required. 8 Module	5	Nos.		
28	Wiring for circuit/sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required 4 X 6 sq. mm + 2 X 6 sq. mm earth wire	20	M		
29	Wiring for circuit/sub main 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 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	20	M		
30	Wiring for circuit/sub main 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 2 X 6 Sq.mm + 1 x 6 sq.mm earth wire	20	M		
31	Wiring for circuit/sub main 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 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	80	M		
32	Wiring for circuit/sub main 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 2 x 1.5 sq.mm + 1 x1.5 sq.mm earth wire	10	M		



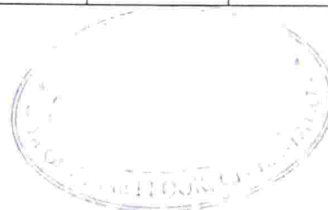
33	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required. Group C	35	Nos.		
34	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	4	Nos.		
35	Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.1200mm sweep -5star rated ceiling fan complete with 300mm down rod , canopies, shackles and blades working on 230V/240V single phase A/C	7	Nos.		
36	Supply & installation of light fittings suspended on ball & socket arrangement with 19 mm down rod, Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. as required complete with LED Tube Light Fittings (Integral Type), T5, Length:4F/1200mm, Power: 18-20 W, Efficacy: 90-100 Lum/W	6	Nos.		



37	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.	1	Nos.		
38	Supplying and fixing 20 amps 415volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top along with 20 amps "C" curve, TPMCB, in sheet 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.	1	Nos.		
39	Supply Conveyance, installation, testing and commissioning of 40W LED Flood light output greater than 105lumen/W 4000-6000 K with IP 66 protection LED Chip make Cree/Lumilled/Nichea with power factor greater than 0.95 at full load, internal surge protection up to 8 KV, and Aluminium pressure die-cast Powder coated housing, acrylic cover complete with THD less than 10%, power factor greater than 0.98, RoHS compliant, duly wired up for use on 230 V AC supply. Driver compartment should be separately accessible for maintenance (LM 79&80 certificates from NABL accredited Third party lab to be produced mentioning chip manufacturer)	1	Nos.		
40	Supply, conveyance, installation, testing and commissioning of 225mm sweep, 1400 rpm working on 230 V A/C PVC body with self opening shuttered type light duty exhaust fan in the existing opening using suitable size anchor bolt/screws etc and giving connection as required (Crompton or its equivalent)	4	Nos.		



41	Supply, installation, testing and commissioning of wall mounted three phase 4 wire energy meter with poly carbonate body having range of 10-63 A with enclosure made out of powder coated 16 SWG CRCA sheet suitable for fixing in surface/recess with 3 nos. of 63 A HRC fuses, 63 A TPN isolator, neutral link, its inter connections etc. The enclosure shall have lockable door with glass window and all mounting accessories etc. complete as required. Including installation and commissioning fee for KSEB (supply of energy meter is under KSEB scope)	1	Nos.		
42	Supplying and fixing angle batten with 9 Watt LED Bulb and other accessories	8	Nos.		
43	Supply and fixing LED Tube Light Fittings (Integral Type), T5, Length: 4F/1200mm, Power: 18-20 W, Efficacy: 90-100 Lum/W	12	Nos.		
44	Supply and fixing LED Down light fittings, 9W round	3	Nos.		
45	Supplying and drawn of UTP 4 pair CAT 6 LAN cable in the existing surface/recessed steel/PVC conduit as required 1 run of Cable	300	M		
46	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20mm	200	M		
47	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/recess including making good the damages, colour washing etc as required (RoHS compliant) 2 module moulded plastic box on surface	6	Nos.		
48	Supplying and fixing following modular switch /socket on the existing modular plate and switch box including connection but excluding modular plate as required. CAT 6RJ 45 socket outlet	12	Nos.		
49	Supply and installation of Shutter Type 2-ports dual network Face Plate suitable for CAT 6RJ 45 and RJ11 information outlet	6	Nos.		
50	Engage computer engineer for programming all network and commissioning etc. complete	1	Nos.		



51	Supply and termination of Cat6 UTP 16 Port Loaded Patch Panel	1	Nos.		
52	Supply and termination of 16-Port Gigabit Ethernet Switch, 1000 Mbps	1	Nos.		
53	Supply and installation of RJ 45 CAT 6E Mounting cord- 1 Mtr, gray	12	Nos.		
54	Supply and fixing 4U wall mount network equipment rack with complete accessories	1	Nos.		
55	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/recessed steel/PVC conduit as required. 2 Pair	300	M		
56	Supply and termination of RJ11 type information outlet	10	Nos.		
57	Supply, fixing and termination of Telephone Distribution Box, IP44 with 20 pair krone connector	1	Nos.		
				Total	

Gross Total Cost: - Rs.....

(In words) We agree to supply the above goods in accordance with the technical Specification for a total price of Rs.....(amount in figure).....(amount in words) with in the period specified in the invitation for quotation.

Signature of Tenderer

