

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2022-23/-6134-42

Dated: 7/10/2022

To


The Executive Engineer (IT Cell),
Nigam Vihar, Shimla-2.

Subject: Publishing of Tender Notice.

Enclosed please find herewith the Tender Notice of works as given in the Notice Inviting Tenders along with Schedule of Quantities for uploading on departmental website as per Notification Pr. SEC(PW) to the Govt. of HP letter No. PBW(B)A9(3)1/2020 dated Shimla-26th July 2021.


It is certified that the works mentioned in the Notice Inviting Tenders are urgent in nature and in public Interest.

DA/NIT,SQs


Executive Engineer
Electrical Division
HP PWD Palampur

Copy forwarded to the following for information and necessary action please:

1. The Superintending Engineer, 2nd Electrical Circle, HP PWD Dharamshala.
2. The Drawing Branch in this office.
3. All the Assistant Engineers working under this Division.


Executive Engineer
Electrical Division
HP PWD Palampur

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

"Notice Inviting Tenders"

Sealed item rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP PWD, (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act, 1968 so as to reach in his office on or before **18-10-2022** up to 11.00 AM, and the same shall be opened on the same day at 11.30 A.M. in the presence of intending contractors or their authorized representatives. The tender documents can be had from hppwd.gov.in

The earnest money in the shape of FDR/saving account of the Post office/Bank in H.P. duly pledged in favour of the XEN and the cost of tender in shape of Bank Draft must accompany with each tender. Conditional/ incomplete tenders & tender without earnest money will be summarily rejected. The XEN reserves the right to accept or reject any or all tenders or drop the proposal of tenders without assigning any reasons.

Conditions:

1. The contractor should have the EPF No. from the competent authority, failing which no tender form will be issued.
2. The contractor should be registered as a dealer under GST and should produce GST registration certificate.
3. The contractor should produce a copy of latest enlistment/renewal.
4. The bidders enlisted in a particular class shall be eligible to tender for his own class or one step below.
5. The bidder should attach authorization and work done certificate with application for Specialized Jobs.

| Sr. No | Name of Work | Estimated Cost | Earnest Money | Time Limit | Form No. | Cost of Form |
|--------|--|----------------|---------------|------------|----------|--------------|
| 1 | Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers with machine room elevator to Combined office Building Kangra in Tehsil & Distt. Kangra w.e.f. 2022-23 to 2024-2025. | 410711/- | 7200/- | Three Year | 8 | 350/- |
| 2 | Replacement of old accessory to modular accessory. Shifting & reinstallation of AC in the HPPWD rest house set no 3 at Fatehpur, in Tehsil Fatehpur Distt. Kangra (H.P). | 116407/- | 2400/- | Six Months | 8 | 350/- |
| 3 | C/o Ayurvedic Health Centre Building at Bagga Tehsil Jawali Distt. Kangra (HP)(SH:- Providing E.I. therein). | 179923/- | 3600/- | Two Year | 8 | 350/- |
| 4 | C/o Ayurvedic Health Centre Building at Beanie Tehsil Jawali Distt. Kangra (HP)(SH:- Providing E.I. therein). | 179923/- | 3600/- | Two Year | 8 | 350/- |
| 5 | C/o Additional accommodation in Govt. Sen. Sec. School Harchakiyan in Distt. Kangra (H.P)(SH:- Providing 2 Nos. classroom Therein). | 136252/- | 2800/- | One Year | 8 | 350/- |
| 6 | C/o Health Sub-Center at Kairi in Tehsil Shahpur Distt. Kangra (H.P)(SH:- Providing E.I. therein). | 128365/- | 2600/- | Six Months | 8 | 350/- |
| 7 | C/o Health Sub Center Building with delivery room at Mohli in Tehsil Fatehpur, Distt. Kangra (H.P)(SH:- Providing E.I. therein). | 308477/- | 6200/- | One Year | 8 | 350/- |
| 8 | C/o Cow Sanctuary at Kudan Dehal (Jia) in Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. therein.) | 104913/- | 2100/- | One Month | 8 | 350/- |
| 9 | Providing & Laying Armoured cable in Govt. Polytechnic college Talwar Tehsil Jaisinghpur Distt. Kangra (H.P). | 134640/- | 2700/- | Two Months | 8 | 350/- |
| 10 | C/o Ayurvedic Health Sub- Center at Sarsava in Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. therein). | 301057/- | 6100/- | Six Months | 8 | 350/- |

| | | | | | | |
|----|--|----------|--------|------------|---|-------|
| 11 | Providing and installation of Energy Recovery Ventilation System (ERVS) in Anesthesia ICU, 1st floor and Medicine ICU 4 th floor of 500 Bedded Hospital Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P)(SH:-Providing additional aluminum spiral duct pipe and duct taping / rods etc. therein). | 253000/- | 5100/- | Two Months | 8 | 350/- |
| 12 | Annual Repair and Maintenances of 01 No. 100 KVA D.G. Set installed in OPD Block of Civil Hospital at Palampur for the Three years 2022-25.(2022-23,2023-24,2024-25). | 267066/- | 5400/- | Three Year | 8 | 350/- |
| 13 | C/o Ayurvedic Health Sub- Center at Sansai Ground Floor)in Tehsil Baijnath Distt. Kangra (H.P)(SH:- Providing E.I. therein). | 165695/- | 3400/- | Six Months | 8 | 350/- |
| 14 | Replacement and Repair of Motor starter panel of Condenser , Chiller, Hot water pump and cooling tower fan motor of HVAC system installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda. | 391800/- | 7900/- | One Month | 8 | 350/- |

HIM SUCHNA AVAM JAN SAMPARK VIBHAG

SCHEDULE OF QUANTITY

| NAME OF WORK :- : Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers with machine room elevator to Combined Office Building Kangra in Tehsil & Distt. Kangra w.e.f. 2022-23 to 2024-25 | | | Job No 1 | | ESTIMATED COST: Rs. 4,10,711/-only. EARNEST MONEY: Rs. 8300/-only TIME ALLOWED: Three Months | |
|---|---|------|----------|-------|--|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 1 | Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers with machine room elevator "ThyssenKrupp" make i.e. routine services at the regular interval of one month, regular systematic examination adjustment, lubrication of machines, motors controller parts including replacement of worn-out parts gears etc., bearing break shoe, rotating element, contact coils, resistance for operating motors, magnetic frames etc. and other mechanical as well as electrical parts etc. as required to maintain the elevator and safe operating conditions including emergency break down all attending services and sudden damages of mechanical parts etc. and best satisfaction of the Engineer-in-charge. | | | | | |
| 2 | 1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2022-23. | 1 | | | Per Year | |
| 3 | 1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2023-24. | 1 | | | Per Year | |
| 4 | 1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2024-25. | 1 | | | Per Year | |
| | Make : ThyssenKrupp | | | | | |
| | Total | | | | | |

Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :- Replacement of old accessory to modular accessory, Shifting & reinstallation of AC in the HPPWD rest house set no 3 at Fatehpur, in Tehsil Fatehpur Distt. Kangra (H.P.). | | Job No 2 | | ESTIMATED COST: Rs. 1,16,407/-only. EARNEST MONEY: Rs. 2400/-only TIME ALLOWED: Six Months | | |
|---|--|----------|---------|--|-----------|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 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 steel 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. Make: KEI/Plaza/SCI/Anchor/ Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius) /L&T(Entice). | | | | | |
| i) Group C. | | 10 | | | Per Point | |
| 2 | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way 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. Make: KEI/SCI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius) /L&T(Entice). | | | | | |
| i) Group C. | | 2 | | | Per Point | |
| 3 | 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. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice). | 5 | | | each | |
| 4 | Supplying and fixing suitable size GI box with modular plate and cover in FRLS 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. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice). | 3 | | | each | |

| | | | | | | |
|-----|--|----|--|--|-----------|--|
| 5 | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice). | 1 | | | each | |
| 6 | Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor. | 25 | | | Per Meter | |
| 7 | Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor. | 15 | | | Per Meter | |
| 8 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/SCI/Plaza/Anchor. | | | | | |
| i) | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire | 35 | | | Per Meter | |
| ii) | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire | 20 | | | Per Meter | |
| 9 | Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/SCI/Plaza/Anchor. | | | | | |
| i) | 3 x 1.5 sq. mm | 20 | | | Per Meter | |
| 10 | Supplying and fixing PVC batten/angle holder including connection etc. as required. | 1 | | | each | |
| 11 | Providing, installation, testing and commissioning of ceiling fan with modular step type electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. Make: Orient Wendy/Topaz White / Usha, Bajaj or any other as approved by Engineer-in-charge. | | | | | |
| i) | Ceiling Fan 1200 mm sweep (Make: Orient, Model: Wendy/Topaz White | 1 | | | Each | |
| ii) | | | | | | |

| | | | | | | |
|----|--|---|--|--|------|--|
| 12 | Supplying and fixing of LED Bed side Bracket having luminous flux 150 lumens, colour temp. 3000K, should be compatible with specification i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating>80. suitable for Input voltage AC 220-240V, 50/60 HZ complete with all accessories, including connections,testing and commissioning etc.as required complete in all respect. Make- Philips, Jaquar, Wipro. | | | | | |
| | LED Bed side bracket 3 watt (Metal & Synthetic, Colour: White) | 4 | | | Each | |
| | Makes:-Philips, Jaquar, Wipro {at par with Philips cat no. 48042/30/31} | | | | | |
| 13 | Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy $\geq 100 \text{lm/W}$ with Aluminium housing P.F.>0.95 with THD<10%, CCT 6500 K,CRI 80, Surge Protection 2 Kv.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. | | | | | |
| i) | LED Batten 20W, 4 feet long (Make: Wipro, cat no. LL20-281-XXX-ALNE3 | 1 | | | Each | |
| | y) Philips/Trilux. | | | | | |
| 14 | Providing and installation of Back Light (Non slim model)15 W +/- 1 W LED Square Surface Mounted Downlighter with minimum system lumen efficacy of $\geq 100 \text{lm/W}$ with and P.F.>0.95 with THD<10%, CCT 6000 K,CRI 80.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V , 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. | | | | | |
| i) | LED Down Light 15 watt, (Make: Wipro, Cat no LD06-171XXX 57SM)/ | 2 | | | Each | |
| | Philips/Trilux. | | | | | |

| | | | | | | |
|----|---|----|--|--|-----------|--|
| 15 | Supplying and fixing of LED wall Bracket having luminous flux 150 lumens, colour temp. 3000K, should be compatible with specification i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating > 80, suitable for Input voltage AC 220-240v, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respect. Make- Philips, Jaquar & wipro. | | | | | |
| | LED Wall Bracket 9W (Make: Philips, cat no. 40937)/ Jaquar/Wipro. | 1 | | | Each | |
| 16 | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (Make: Sidharth/BEC) | | | | | |
| | 25 mm. dia | 10 | | | Per Meter | |
| 17 | Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast/Anchor) | | | | | |
| | 25 mm. dia | 10 | | | Per Meter | |
| 18 | Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. Make: Anchor (Roma Plus)/Schneider (Livio)/ Legrand (Myrius)/L&T(Entice). | | | | | |
| | 1 or 2 Module(75mmX75mm) | 2 | | | each | |
| 19 | Supplying and fixing following rating Modular switch/socket in the existing switch box/cover plate including connections etc as required. | | | | | |
| | Telephone socket outlet modular type | 1 | | | each | |
| | TV socket outlet modular type | 1 | | | each | |
| 20 | Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required. | 20 | | | Per Meter | |

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|----|---|----|--|--|--|-----------|--|
| 21 | 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. | | | | | | |
| | 1 Pair | 20 | | | | Per Meter | |
| 22 | Providing and fixing LED Bulb 9 watts in the existing fixture as required complete in all respect. | 1 | | | | each | |
| 23 | Supplying and fixing of Copper tube with insulation for AC 1.5 TR capacity complete in all respects as required. | 3 | | | | Per Meter | |
| 24 | Refilling of Gas in split type AC unit | 1 | | | | each | |
| 25 | Supplying and fixing of PVC Drain pipe of size 1" dia. (25mm) complete with elbows, tees, socket etc. of superior quality as per satisfaction of Engineer-in-charge. | 6 | | | | Per Meter | |
| 26 | Dismantled & Reinstallation of split AC unit | 1 | | | | each | |
| | Total | | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur
 Xcs

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Ayurvedic Health Centre Building at Bagga Tehsil
Jawali Distt. Kangra (HP)(SH:- Providing EI there in).

Job No 3

ESTIMATED COST: Rs. 1,79,923/-only.
EARNEST MONEY: Rs. 3600/-only
TIME ALLOWED: Two Year

| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
|---------|---|------|---------|-------|-------|--------|
| | | | FIGURES | WORDS | | |
| 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 steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/SCI/Plaza/Anchor & Anchor/SSK | | | | | |
| i) | Group C. | 43 | | | Pt | |
| 2 | Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor. | 20 | | | Meter | |
| 3 | Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor. | 28 | | | Meter | |
| 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 steel conduit as required. Make: KEI/SCI/Plaza/Anchor. | | | | | |
| i) | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire | 37 | | | Mtr. | |
| ii) | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire | 2 | | | Mtr. | |

| | | | | | | | |
|----|--|----|--|--|--|------|--|
| i) | 3 x 1.5 sq. mm | 24 | | | | Mtr. | |
| 6 | 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. (Make: BEC Plast/Anchor/Finox) | | | | | | |
| i) | 50 mm. dia | 3 | | | | Mtr. | |
| 7 | Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK | 5 | | | | each | |
| 8 | Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK | 4 | | | | each | |
| 9 | Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥100 Lumens per watt, CRI rating >70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. | | | | | | |
| i) | LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro | 20 | | | | Each | |
| 10 | Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | | |
| i) | Ceiling Fan 1200 mm sweep, Cat-A (Make: Crompton Model: WWHE ISI)/Usha/Bajaj | 7 | | | | each | |
| 11 | Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- | | | | | | |

| | | | | | | |
|----|--|----|--|--|------|--|
| i) | Exhaust Fan, Light duty, (Domestic) 225 mm sweep (Make: Crompton, Model : Flux Air metal)/Usha/ Bajaj | 5 | | | each | |
| 12 | Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 KA, "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. | | | | | |
| i) | Single pole (Make:- Anchor/ Schneider/ Legrand/L&T) | 10 | | | each | |
| 13 | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| i) | 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 14 | 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. | | | | | |
| i) | 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 15 | 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) | | | | | |
| i) | Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 16 | 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. | 1 | | | Set. | |
| 17 | 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. | 20 | | | Mtr. | |
| 18 | Supplying and fixing bakelite batten/angle holder including connections etc. as required:- | 9 | | | each | |

| | | | | | | |
|----|--|---|--|--|------|--|
| 19 | Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No. fording code LSTS-20-CDL-M , powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, including connection, testing and commissioning etc. as required. | | | | | |
| i) | Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M)/Bajaj/Wipro | 2 | | | each | |
| 20 | Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:- | | | | | |
| i) | 40 mm dia. G.I. pipe, heavy class | 2 | | | each | |
| 21 | Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect. | 9 | | | each | |
| | Total | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :- C/O Ayurvedic Health Centre Building at Bhanai Tehsil Jawail Distt. Kangra (HP) (SH:- Providing EI there in) | | | Job No 4 | | ESTIMATED COST: Rs. 1,79,923/-only. EARNEST MONEY: Rs. 3600/-only TIME ALLOWED: Two Year | |
|---|--|------|----------|-------|--|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 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 steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/SCI/Plaza/Anchor & Anchor/SSK | | | | | |
| i) | Group C. | 43 | | | Pl | |
| 2 | Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor. | 20 | | | Meter | |
| 3 | Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor. | 28 | | | Meter | |
| 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 steel conduit as required. Make: KEI/SCI/Plaza/Anchor. | | | | | |
| i) | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire | 37 | | | Mtr. | |
| ii) | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire | 2 | | | Mtr. | |
| 5 | Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/SCI/Plaza/Anchor. | | | | | |

| | | | | | | | |
|----|--|----|--|--|--|------|--|
| i) | 3 x 1.5 sq. mm | 24 | | | | Mtr. | |
| 6 | 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. (Make: BEC Plast/Anchor/Finolex) | | | | | | |
| i) | 50 mm. dia | 3 | | | | Mtr. | |
| 7 | Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. | 5 | | | | each | |
| 8 | Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. | 4 | | | | each | |
| 9 | Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥100 Lumens per watt, CRI rating >70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. | | | | | | |
| i) | LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro | 20 | | | | Each | |
| 10 | Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | | |
| i) | Ceiling Fan 1200 mm sweep, Cat-A (Make: Crompton Model: WWHE ISI)/Usha/Bajaj | 7 | | | | each | |
| 11 | Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- | | | | | | |

| | | | | | | |
|----|--|----|--|--|------|--|
| i) | Exhaust Fan, Light duty, (Domestic) 225 mm sweep (Make: Crompton, Model : Flux Air metal)/Usha/Bajaj | 5 | | | each | |
| 12 | Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "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. | | | | | |
| i) | Single pole (Make:- Anchor/ Schneider/ Legrand/L&T) | 10 | | | each | |
| 13 | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| i) | 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 14 | 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. | | | | | |
| i) | 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 15 | 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) | | | | | |
| i) | Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 16 | 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. | 1 | | | Set | |
| 17 | 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. | 20 | | | Mtr. | |
| 18 | Supplying and fixing bakelite batten/angle holder including connections etc. as required:- | 9 | | | each | |

| | | | | | | |
|----|--|---|--|--|------|--|
| 19 | Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No. /ordering code LSTS-20-CDL-M , powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion < 10% and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz.including connection, testing and commissioning etc. as required. | | | | | |
| i) | Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M)/Bajaj/Wipro | 2 | | | each | |
| 20 | Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:- | | | | | |
| i) | 40 mm dia. G.I. pipe, heavy class | 2 | | | each | |
| 21 | Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as requaired complete in all respect. | 9 | | | each | |
| | Total | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :- : C/O Additional accomodation in Govt. Sen. Sec. School Harchakiya in Distt. Kangra (H.P.)(SH: Providing 2 Nos. classroom Therein.) | | Job No 5 | | ESTIMATED COST: Rs. 1,36,252/-only. EARNEST MONEY: Rs.2800/-only TIME ALLOWED: One Year | | |
|--|---|----------|---------|---|-----------|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 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 steel 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. | | | | | |
| | Group C. | 27 | | | Per Point | |
| | Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI | | | | | |
| 2 | Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRF/L/PVC insulated single core copper conductor cable of same size for earthing as required. | | | | | |
| 2.1 | 2x1.5 Sq. mm. | 35 | | | Per Meter | |
| 2.2 | 2x10 Sq. mm. | 1 | | | Per Meter | |
| | Makes:- KEI / Anchor / Finolex/SCI | | | | | |
| 3 | Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. | | | | | |
| | 3x1.5 Sq. mm. | 10 | | | Per Meter | |
| | Makes:- KEI / Anchor / Finolex/SCI | | | | | |

| | | | | | | |
|---|---|---|--|--|------|--|
| 4 | Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. | 8 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 5 | Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:- Single Pole. Cat-A. | 6 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 6 | Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Double pole. Cat-A. | 1 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 7 | Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| | 40 Amps. Cat-A. | 1 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 8 | Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- | | | | | |

| | | | | | | |
|----|--|----|--|--|-----------|--|
| | Double door-12 way | 1 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 9 | 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. | 1 | | | Per Set | |
| 10 | 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. | 20 | | | Per Meter | |
| 11 | Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens, CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc. | | | | | |
| | LED Bulkhead, 10 Watt | | | | | |
| | Makes:- Panasonic /Havells/Philips/Usha tishva | 2 | | | Each | |
| 12 | Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- | | | | | |
| | Ceiling Fan 1200 mm sweep, Cat.-A | 8 | | | Each | |

| | | | | | | |
|----|--|----|--|--|------|--|
| 13 | Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. | | | | | |
| | 18 Watt LED Tube Fixture | | | | | |
| | Makes:- Bajaj Havells/Philips/Usha tishva | 16 | | | Each | |
| 14 | Supplying and fixing 45W LED street light made up of pressure die cast housing with TOUGHENED GLASS and IP66 protection including connections, testing etc. as required complete in all respects. | | | | | |
| | 45W LED Street Light | | | | | |
| | {Makes: Panasonic /Bajaj/Havells | 1 | | | Each | |
| | Total | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :- : C/o Health Sub-Centre at Kairi in Tehsil Shahpur Distt. Kangra (H.P.) (SH: Providing E.I. therein) | | Job No 6 | | ESTIMATED COST: Rs. 1,28,365/-only. EARNEST MONEY: Rs.2600/-only TIME ALLOWED: Six Months | | |
|---|---|----------|---------|---|-----------|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 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 steel 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. | | | | | |
| | Group C. | 20 | | | Per Point | |
| | Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI | | | | | |
| 2 | Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFLS/PVC insulated single core copper conductor cable of same size for earthing as required. | | | | | |
| 2.1 | 2x1.5 Sq. mm. | 25 | | | Per Meter | |
| 2.2 | 2x4.0 Sq. mm. | 16 | | | Per Meter | |
| 2.3 | 2x10 Sq. mm. | 1 | | | Per Meter | |
| | Makes:- KEI / Anchor / Finolex/SCI | | | | | |
| 3 | Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRRFLS/PVC insulated single core copper conductor cable for earthing as required. | 10 | | | Per Meter | |
| | Makes:- KEI / Anchor / Finolex/SCI | | | | | |

| | | | | | | |
|----|---|----|--|--|-----------|--|
| 4 | Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. | 15 | | | Per Meter | |
| | 3x1.5 Sq. mm. | | | | | |
| | Makes:- KEI / Anchor / Finolex/SCI | | | | | |
| 5 | Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. | 6 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 6 | Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. | 3 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 7 | Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- | 1 | | | Each | |
| | Makes:- Anchor / Havells / Goldmedal | | | | | |
| 8 | Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:- | 7 | | | Each | |
| | Single Pole. Cat-A. | | | | | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 9 | Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| | Double pole. Cat-A. | 1 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 10 | Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |

| | | | | | | |
|----|--|----|--|--|-----------|--|
| | 40 Amps. Cat-A. | 1 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 11 | Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- | | | | | |
| | Double door-12 way | 1 | | | Each | |
| | Makes:- L&T / Legrand / Schneider | | | | | |
| 12 | 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. | 1 | | | Per Set | |
| 13 | Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required. | 20 | | | Per Meter | |
| 14 | Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- | 2 | | | Each | |
| | Exhaust Fan, Light duty, (Domestic) 300 mm sweep | | | | | |
| | Makes: Usha / Bajaj / Crompton Greaves | | | | | |
| 15 | Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens,CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc. | | | | | |
| | LED Bulkhead, 10 Watt | | | | | |
| | Makes:- Panasonic /Havells/Philips/Usha tishva | 3 | | | Each | |

| | | | | | | | |
|----|--|---|--|--|--|------|--|
| 16 | Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- Make:- Usha/Havells/Bajaj/Techniplus 3 star. | | | | | | |
| | Ceiling Fan 1200 mm sweep, Cat.-A | 4 | | | | Each | |
| 17 | Supplying and fixing surface mounted circular LED 18 Watt (1800 lumen), 6000K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. | | | | | | |
| | 18 Watt LED, Round downlighter surface mounted | | | | | | |
| | Makes:- Panasonic/Wipro/Havells | 6 | | | | Each | |
| 18 | Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. | | | | | | |
| | 18 Watt LED Tube Fixture | | | | | | |
| | Makes:- Bajaj /Havells/Philips/Usha tishva. | 3 | | | | Each | |

| | | | | | | |
|----|--|---|--|--|------|--|
| 19 | Providing and fixing high efficiency 2 Feet LED Extruded aluminium housing (enhances safety) with high quality polycarbonate diffuser for optimum light output with in built LED driver, designed suitable for 10 Watt (1150 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 140-270V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required. | | | | | |
| | LED 10 Watt, 2 feet long (Smartbrite Batten) | | | | | |
| | Makes:- Philips /Panasonic/bajaj | 1 | | | Each | |
| 20 | Supplying and fixing 45W LED street light made up of pressure die cast housing with TOUGHENED GLASS and IP66 protection including connections, testing etc. as required complete in all respects. | | | | | |
| | 45W LED Street Light | | | | | |
| | Makes: Panasonic /Bajaj/Havells | 1 | | | Each | |
| | Total | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :- C/O Health Sub Center Building with delivery room at Mohli in Tehsil Fatehpur, Distt. Kangra (H.P.) (Sh:- PdG. EI in there in). | | | Job No 7 | | ESTIMATED COST: Rs. 3,08,477/-only. EARNEST MONEY: Rs.6200/-only TIME ALLOWED:One Year | |
|--|---|------|----------|-------|--|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 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 steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK / SCI | | | | | |
| i) | Group A. | 16 | | | Per Point | |
| ii) | Group C. | 27 | | | Per Point | |
| 2 | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK /SCI. | | | | | |
| i) | Twin Control | 1 | | | Per Point | |
| 3 | Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK /SCI | 8 | | | each | |

| | | | | | | |
|------|--|----|--|--|-----------|--|
| 4 | Supplying and fixing metal box of 180mm X 100mm X 60mm 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 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK | 9 | | | each | |
| 5 | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice). | 1 | | | each | |
| 6 | Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor/SCI | 84 | | | Per Meter | |
| 7 | Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor/SCI | 33 | | | Per Meter | |
| 8 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Plaza/Anchor/SCI | | | | | |
| i) | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire | 86 | | | Per Meter | |
| ii) | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire | 6 | | | Per Meter | |
| iii) | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire | 6 | | | Per Meter | |
| 9 | Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor/SCI | | | | | |
| i) | 3 x 1.5 sq. mm | 20 | | | Per Meter | |

| | | | | | | | |
|----|---|---|--|--|--|------|--|
| 10 | Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase. 230 volts complete as required:- | 2 | | | | each | |
| 11 | Supplying and fixing PVC batten/angle holder including connection etc. as required. | 9 | | | | each | |
| 12 | Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required. | | | | | | |
| i) | Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD)/Bajaj (Model: Freshee)/Anchor (Model: Anmol)/Crompton(Model: Drift air Plus . | 5 | | | | Each | |
| 13 | Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | | |
| i) | Ceiling Fan 1200 mm sweep (Make: Usha, /Bajaj/Crompton. | 5 | | | | Each | |
| 14 | Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | | |
| i) | Ceiling Fan 1400 mm sweep (Make: Bajaj Model:Speedster/ Crompton Model:WWHE) /Anchor (Model: XL). | 1 | | | | Each | |
| 15 | Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy $\geq 100lm/W$ with Aluminium housing P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70 with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.. | | | | | | |
| i) | LED Batten 20W, 4 feet long (Make: Bajaj / Philips/Panasonic. | 7 | | | | Each | |

| | | | | | | |
|----|---|---|--|--|------|--|
| 16 | Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy $\geq 100\text{lm/W}$ with CRCA Housing and PMMA Diffuser with P.F.>0.95,THD<10%,CCT 5700 K ,CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70, with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.. | | | | | |
| i) | LED Panel Light 36 watt 1'x4' , (Make: Bajaj, / Wipro/Philips). | 4 | | | Each | |
| 17 | Providing and fixing of IP65 LED Bulk head 10 W+/- 1W with with system efficacy $\geq 100\text{lm/W}$ with Aluminium housing P.F.>0.95 with THD<10% ,CCT 5700 K,CRI 70,Surge Protection 4 Kv.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. | | | | | |
| i) | Bulk Head Light LED 10 W (Make:- Bajaj /Wipro/Panasonic. | 4 | | | Each | |
| 18 | Supplying and fixing of LED wall Bracket having luminous flux 150 lumens, colour temp. 3000K, should be compatible with specification i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating>80. suitable for Input voltage AC 220-240V, 50/60 HZ complete with all accessories, including connections,testing and commissioning etc.as required complete in all respect. Make- Philips, Jaquar & Wipro. | | | | | |
| | LED Wall Bracket 9W (Make: Jaquar / Philips / Wipro. | 3 | | | Each | |
| 19 | Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing. diffuser to avoid glare,it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating> 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. Make:-Wipro, Bajaj. | | | | | |
| | Mirror light 10 Watt, 2 Feet Long Surface Mounted (at par with Wipro Cat no.LL20-111-XXX-65NE3**) | 1 | | | each | |

| | | | | | | |
|-----|--|----|--|--|------|--|
| | Providing and fixing of LED 20 watt street light luminaries of Bajaj having cat No. PSTM27208, powder coated pressure die-cast aluminium heat sink and toughened glass SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz with all accessories, connections, testing and commissioning etc. as required. Make:- Bajaj, Wipro Panasonic. | | | | | |
| i) | LED Street Light 20 W (Make:- Bajaj Cat no. PSTM27208)Wipro/Panasonic. | 3 | | | Each | |
| 21 | Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:- | 3 | | | Each | |
| 22 | Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "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. | | | | | |
| i) | Single pole (Make:- Anchor/ Schneider/ Legrand/L&T) | 17 | | | Each | |
| 23 | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| i) | 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| ii) | 63 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | Each | |
| 24 | 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. | | | | | |
| i) | 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| ii) | 63 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | Each | |

| | | | | | | |
|----|--|----|--|--|-----------|--|
| 25 | 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) | | | | | |
| | i) Double door-12 way (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| | ii) Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T) | 1 | | | each | |
| 26 | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit or cutting the conduit and fitting along the same in case of recessed conduit as required. (Make: Sidharth/BEC) | | | | | |
| | i) 25 mm. dia | 5 | | | Per Meter | |
| 27 | Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC/Plast/Anchor) | | | | | |
| | 50 mm. dia | 5 | | | Per Meter | |
| 28 | Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required. | | | | | |
| | 1 or 2 Module(75mmX75mm X 60mm) | 2 | | | each | |
| 29 | Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. | | | | | |
| | Telephone socket outlet piano type | 1 | | | each | |
| | TV socket outlet piano type | 1 | | | each | |
| 30 | Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required. | 15 | | | Per Meter | |

| | | | | | | | |
|----|--|----|--|--|--|-----------|--|
| 31 | annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. | | | | | | |
| | 1 Pair | 15 | | | | Per Meter | |
| 32 | Earthing with G.I. earth plate 600 mmx600 mmx 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. | 1 | | | | Set | |
| | 4.4.1 Up Flying and laying 6 SW/G G.I. wire at 0.50 mtr. below ground level for conductor earth electrode, including connection/termination with GI thimble & 20 mm dia. nut & bolt. | 55 | | | | Per Meter | |
| | 4.4.2 Providing & installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required. | | | | | | |
| | 25 Liter capacity water heater (Cat-A) Make:- Usha, Bajaj, Recold. | 1 | | | | each | |
| 35 | Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect. | 9 | | | | each | |
| | Total | | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD, Palampur

SCHEDULE OF QUANTITY

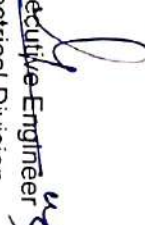
NAME OF WORK :-C/O Cow Sanctuary at Kudan Dehal (Jia) in Tehsil Palampur
Distt. Kangra (H.P.) (S.H:- Providing E.I. therein.)

Job No 8

ESTIMATED COST: Rs.1,04,913/-only.
EARNEST MONEY: Rs. 2100/-only
TIME ALLOWED: One Month


| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
|---------|--|------|---------|-------|------------|--------|
| | | | FIGURES | WORDS | | |
| 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 steel 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. Make:- KEI/SCI/Plaza. | | | | | |
| | Group C. | 21 | | | Per point. | |
| 2 | Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | |
| | Ceiling Fan 1400 mm sweep, Category-A | 9 | | | Each | |
| | Makes :-Ceiling Fan 1200 mm sweep, Category-A usha /Technix Plus 3 Star/Philips/Bajaj /Crompton | | | | | |
| 3 | Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P. F \geq 0.95 with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . | 12 | | | Each | |
| | Makes :-Wipro Philips/Trilux | | | | | |
| 4 | Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- Make:- L&T/Anchor/Schneider. | | | | | |

| | | | | | | | |
|---|--|----|--|--|--|----------|--|
| | 6 Amp Single pole. Cat-A. | 3 | | | | Each | |
| 5 | Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Anchor/Schneider. | | | | | | |
| | 40 Amps. Cat-A. | 1 | | | | Each | |
| 6 | Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Anchor/Schneider. | | | | | | |
| | 40 Amps. Cat-A. | 1 | | | | Each | |
| | Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator) Make:- L&T/Anchor/Schneider. | | | | | | |
| 7 | Double door-8 way | 1 | | | | Each | |
| | Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. HRRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make:- KEI/SCI/Havells/Plaza. | | | | | | |
| | 2x2.5 Sq. mm. | 45 | | | | Per Mtr. | |
| | Total | | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| SCHEDULE OF QUANTITY | | | | | | | | |
|---|--|----------|---------|---|-------|-------|-------|--------|
| NAME OF WORK :-Providing & laying Armoured cable in Govt. Polytechnic college Talwar Tehsil Jaisinghpur Distt.Kangra (H.P). | | Job No 9 | | ESTIMATED COST: Rs.1,34,640/-only. EARNEST MONEY: Rs. 2700/-only TIME ALLOWED: Two Months | | | | |
| SR. NO. | DESCRIPTION | QTY. | FIGURES | | RATES | | UNIT | AMOUNT |
| | | | | | | WORDS | | |
| 1 | Providing and laying of one No.aluminium conductor,PVC insulated and PVC sheathed,armoured /XLPE power cable,working voltage 1100 volts grade of following size on wall of the required size:- Make: KEI/SCI/Anchor/Plaza | | | | | | | |
| | Armoured cable 35sqmm sqmm(3.5 core) | 220 | | | | | P/Mtr | |
| | Total | | | | | | | |


 Executive Engineer
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SCHEDULE OF QUANTITY

| NAME OF WORK :- C/O Ayurvedic Health Sub Centre at Sarsaya with residence Tehsil Palampur Distt. Kangra (H.P.) (S.H.- Providing E.I. therein.) | | | Job No 10 | | ESTIMATED COST: Rs.3,01,057/-only. EARNEST MONEY: Rs. 6100/-only TIME ALLOWED: Six Months | |
|---|---|------|------------------|-------|--|--------|
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 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 steel 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. | | | | | |
| | Group C. | 25 | | | Per point. | |
| | SCI/KEI/Plaza make | | | | | |
| 2 | 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 steel 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. | | | | | |
| | Group A. | 21 | | | Per point. | |
| | SCI/KEI/Plaza make | | | | | |
| 3 | Wiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way 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 | | | | | |
| | Group C. | 1 | | | Per point. | |
| | SCI/KEI/Plaza make | | | | | |
| 4 | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 53 | | | P/Mtr. | |
| | SCI/KEI/Plaza make | | | | | |

| | | | | | | |
|----|--|----|--|--|--------|--|
| 5 | Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 40 | | | P/Mtr. | |
| | SCI/KEI/Plaza make | | | | | |
| 6 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required | | | | | |
| | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire | 55 | | | P/Mtr. | |
| | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire | 2 | | | P/Mtr. | |
| | SCI/KEI/Plaza make | | | | | |
| 7 | Supplying and fixing suitable size G I 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, connections etc. as required. | 11 | | | Each. | |
| 8 | Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. | 8 | | | Each. | |
| 9 | Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- Make:- L&T/Anchor/Schneider. | | | | | |
| | 6 Amp Single pole. Cat-A. | 6 | | | Each | |
| | 16 Amp Single pole. Cat-A. | 8 | | | Each | |
| 10 | Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| | 40 Amps. Cat-A. | 1 | | | Each | |
| | 63 Amps. Cat-A. | 1 | | | Each | |

| | | | | | | | |
|----|--|----|--|--|--|---------|--|
| 11 | Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Anchor/Schneider. | | | | | | |
| | 40 Amps. Cat-A. | 1 | | | | Each | |
| | 63 Amps. Cat-A. | 1 | | | | Each | |
| 12 | Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:-(But without MCB/RCCB/isolator) Make:- L&T/Anchor/Schneider. | | | | | | |
| | Double door-12 way | 2 | | | | Each | |
| 13 | Earthing with copper earthing plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. etc. (with charcoal or coke and salt) complete as required. | 1 | | | | Per set | |
| 14 | Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | | |
| | Ceiling Fan 1200 mm sweep, Category-A | 9 | | | | Each | |
| | Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star,Philips,Bajaj | | | | | | |
| 15 | Providing and installation of LED fixture 15 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F ≥ 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V | | | | | | |
| | LED Surface mounting round downlighter 15 watt | 16 | | | | Each | |

| | | | | | | |
|----|---|---|--|--|------|--|
| | Makes :- Wipro / Philips / Trilux | | | | | |
| 16 | Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- Make:- UshaBajaj/Crompton | | | | | |
| | Exhaust Fan, Light duty, (Domestic) 300 mm sweep | 3 | | | Each | |
| 17 | Providing and installation of IP65 LED fixture 20 W +/- 1 W LED with surface Surface Mounted 4 feet Batten fixture with system with efficacy 100 lm/W with Aluminium housing and P. F ≥ 0.95 with THD <20%, CCT 6000 K, CRI 80, Surge protection 2 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V. | | | | | |
| | LED Batten light 20 W | 9 | | | Each | |
| | Makes :- Wipro / Philips / Trilux | | | | | |
| 18 | Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P. F ≥ 0.95 with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V. | 9 | | | Each | |
| | Makes :- Wipro / Philips / Trilux | | | | | |
| 19 | Providing and installation of LED fixture 600mmx600mm 36 W +/- 1 W LED with Surface Mounted with PMMA diffuser with having minimum system luman system efficacy 100 lm/W with CRCA housing and PMMA Diffuser with P. F ≥ 0.95 with THD <10%, CCT 5700 K, CRI 80, The LED shall be tested with LM80-08 standered with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V. | 1 | | | Each | |
| | Makes :- Wipro / Philips / Trilux | | | | | |
| | Total | | | | | |


 Executive Engineer
 Electrical Division
 HPPMD Palampur

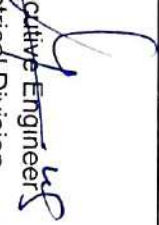
SCHEDULE OF QUANTITY

| SCHEDULE OF QUANTITY | | | | | | |
|---|---|------|-----------|-------|---|--------|
| NAME OF WORK :-Providing and installation of Energy Recovery Ventilation System (ERVS) in Anesthesia ICU, 1st floor and Medicine ICU 4th floor of 500 Bedded Hospital Dr. RPGMC Kangra at Tanda in Distt. Kangra H.P. (SH: Providing additional aluminium spiral duct pipe and duct taping/rods etc. therein) | | | Job No 11 | | ESTIMATED COST: Rs.2,53,000/-only. EARNEST MONEY: Rs. 5100/-only TIME ALLOWED: Six Months | |
| SR. NO. | DESCRIPTION | QTY. | RATES | | UNIT | AMOUNT |
| | | | FIGURES | WORDS | | |
| 1 | Supplying and fixing Aluminium Spiral Duct pipe of 120mm dia for connection with energy recovery ventilator as required complete in all respects and to the best satisfaction of Engineer-in-Charge. | 220 | | | Per Meter | |
| 2 | Supplying and fixing aluminium Duct Taping/Thread Rod/Clams/Rods & other accessories for making the ERV system safe from monkey menace as required complete in all respects and to the best satisfaction of Engineer-in-Charge. | 1 | | | Each | |
| Total | | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :- Annual Repair and Maintenance of 01 No. 100 KVA D.G. Set installed in OPD Block of Civil Hospital at Palamapur for the Three Years 2022-25(2022-23,2023-24-2024-25). | | | Job No 12 | | ESTIMATED COST: Rs.2,67,066/-only. EARNEST MONEY: Rs. 5400/-only TIME ALLOWED: Three Years | |
|--|---|------|-----------|----------------|--|--------|
| SR. NO. | DESCRIPTION | QTY. | FIGURES | RATES WORDS | UNIT | AMOUNT |
| 1 | Annual repair and maintenance of DG Set 100 KVA along with AMF panel including providing 4 Nos quarterly services or after 250 running hours which ever is earlier for defect liability period of one year including replacement of all types of filters, i.e. separator water filter, pre - filter, lubricant oil filter, coolant, lubricant oil etc., testing commissioning of DG set in manual and auto modes etc. as required including emergency breakdown call attending service with Engineer/Supervisor of authorised company etc. and including the cost of replacements of batteries as per the requirement of site as required complete in all respects as per the requirement of site as required complete in all respects as per satisfaction of Engineer-in-charge. | | | | | |
| | 4093731 Check Kit for Filter = 1 No. | | | | | |
| | 3931063 Air Filter Kit = 1 No. | | | | | |
| | 3937736 Coolant = 1 No. | | | | | |
| | 3238358 Lubricant Oil = 20 Liters. | | | | | |
| | Labour Charges L-S | 1 | | | Per Job | |
| | Total | | | | | |


 Executive Engineer
 Electrical Division
 HPPWD Palamapur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Ayurvedic Health Sub Centre (Ground Floor) at Sansai with Tehsil Bajinath Distt. Kangra (H.P.) (S.H:- Providing E.I. therein.)

Job No 13

ESTIMATED COST: Rs.1,65,695/-only.
EARNEST MONEY: Rs. 3400/-only
TIME ALLOWED: Six Months

| SR. NO. | DESCRIPTION | QTY. | FIGURES | | RATES | | UNIT | AMOUNT |
|---------|---|------|---------|--|-------|-------|------------|--------|
| | | | | | | WORDS | | |
| 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 steel 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. | | | | | | | |
| | Group C. | 25 | | | | | Per point. | |
| | SC/KE/Plaza make | | | | | | | |
| 2 | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way 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 | | | | | | | |
| | | 1 | | | | | Per point. | |
| | SC/KE/Plaza make | | | | | | | |
| 3 | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 25 | | | | | P/Mtr. | |
| | SC/KE/Plaza make | | | | | | | |
| 4 | Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 18 | | | | | P/Mtr. | |
| | SC/KE/Plaza make | | | | | | | |
| 5 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required | | | | | | | |

| | | | | | | |
|----|---|----|--|--|--------|--|
| | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire | 30 | | | P/Mtr. | |
| | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire | 2 | | | P/Mtr. | |
| | SC/KE/Plaza make | | | | | |
| 6 | Supplying and fixing suitable size G I 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, connections etc. as required. Makes: L&T/Legrand/Schneider/Anchor | 4 | | | Each. | |
| 7 | Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. Makes: L&T/Legrand/Schneider/Anchor | 3 | | | Each. | |
| 8 | Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required. Makes: Legrand/Schiender/Anchor. | | | | | |
| | 6 Amp Single pole. Cat-A. | 3 | | | Each | |
| | 16 Amp Single pole. Cat-A. | 3 | | | Each | |
| 9 | Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes: Legrand /Schiender/Anchor. | | | | | |
| | 40 Amps. Cat-A. | 1 | | | Each | |
| 10 | Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes: Legrand/Schiender/Anchor. | | | | | |
| | 40 Amps. Cat-A. | 1 | | | Each | |

| | | | | | | |
|----|--|----|--|--|---------|--|
| 11 | Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:-(But without MCB/RCCB/Isolator) Makes: Legrand/Schiender/Anchor. | | | | | |
| | Double door-12 way | 1 | | | Each | |
| 12 | Earthing with copper earthing plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. etc. (with charcoal or coke and salt) complete as required. | 1 | | | Per set | |
| 13 | Supplying and laying 8 SW/G Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required. | 20 | | | Per Mtr | |
| 14 | Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. | | | | | |
| | Ceiling Fan 1200 mm sweep, Category-A | 5 | | | Each | |
| | Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star, Philips, Bajaj . | | | | | |
| 15 | Providing and installation of LED fixture 15 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F \geq 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V | | | | | |
| | LED Surface mounting round downlighter 15 watt | 6 | | | Each | |
| | Makes :-Wipro / Philips/Trilux) | | | | | |
| 16 | Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- | | | | | |

| | | | | | | | |
|----|--|---|--|--|--|------|--|
| | Exhaust Fan, Light duty, (Domestic) 300 mm sweep | 1 | | | | Each | |
| | (As per cat. /price list Make:- Usha /Bajaj/Crompton | | | | | | |
| 17 | Providing and installation of IP65 LED fixture 20 W +/- 1 W LED with surface Surface Mounted 4 feet Batten fixture with system with efficacy 100 lm/W with Aluminium housing and P. F ≥ 0.95 with THD <20%, CCT 6000 K,CRI 80, Surge protection 2 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . | | | | | | |
| | LED Batten light 20 W | 6 | | | | Each | |
| | Makes :-Wipro / Philips /Trilux | | | | | | |
| 18 | Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P. F ≥ 0.95 with THD <10%, CCT 5700 K,CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . | 7 | | | | Each | |
| | Makes :-Wipro /Philips /Trilux | | | | | | |
| 19 | Providing and installation of LED fixture 600mmx600mm 36 W +/- 1 W LED with Surface Mounted with PMMA diffuser with having minimum system luman system efficacy 100 lm/W with CRCA housing and PMMA Difuser with P. F ≥ 0.95 with THD <10%, CCT 5700 K,CRI 80, The LED shall be tested with LM80-08 standered with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . | 1 | | | | Each | |
| | Makes :-Wipro / Philips/Trilux | | | | | | |
| | Total | | | | | | |

Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

| NAME OF WORK :Replacement and Repair of Motor starter panel of Condensor , Chiller, Hot water pump and cooling tower fan motor of HVAC system installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda. | | | | | |
|---|--|---|--|--|---------|
| SR. NO. | | DESCRIPTION | | QTY. | |
| | | | | Job No 14 | |
| | | | | ESTIMATED COST: Rs.3,91,800/-only. EARNEST MONEY: Rs. 7900/-only TIME ALLOWED: One Month | |
| | | | | FIGURES | |
| | | | | RATES | |
| | | | | WORDS | |
| | | | | UNIT | |
| | | | | AMOUNT | |
| 1 | | Repair / Replacement of motor starter panel with spare parts for 20 HP capacity motor of Chiller/ Condensor Pump motor (star/delta) starter which includes MCCB 100 / 125 Amp, Single Phase preventor (SPPR) , Contactor with axulary contacts , Overload relay, star delta timer, MCB,Indicating lamps, wire connectors and wire etc.as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make :- L&T /Schneider/Legrand . | | 8 | |
| | | | | | per job |
| 2 | | Repair / Replacement of motor starter panel with spare parts for 2.0/7.5 HP capacity hot water / cooling tower fan motor starter panel (Direct online starter) which includes MCCB , Single Phase preventor (SPPR) , Contactor with axulary contacts, overload relay, MCB,Indicating lamps, wire connector and wire etc.as required complete in all respects and to the best satisfaction of Engineer-in-charge.Make :- L&T /Schneider/Legrand . | | 6 | |
| | | | | | per job |
| | | Total | | | |


 Executive Engineer
 Electrical Division
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