



Office of the  
Executive Engineer  
Electrical Division, HP PWD Una  
Tel: +911975223484, Fax: +911975223484  
E-mail: [ee-eleu-hp@nic.in](mailto:ee-eleu-hp@nic.in)

8/8/2022

No.PW/EDU/CB//TA/tender/2022-23/-

Dated:-

To,

3968-95

✓  
The Director,  
Information & Public Relation Deptt.,  
H. P. Shimla-171002.

Subject: -

Regarding publication of tenders notice.

Sir,

“JAI HIND”

Enclosed please find herewith tenders notice for publication in **Giriraj/Tribune/ Punjab Kesari/Hindustan Times Newspaper** as well as in the other reputed/ leading newspapers on or before 17.08.2022, at the earliest under intimation to this office please.

DA:-As above.

  
Executive Engineer,  
Electrical Division,  
HPPWD, Una.

Copy along with its enclosures is forwarded to the following for favour of information please:-

1. The Engineer-in-Chief, HPPWD., Shimla-2.
2. The Superintending Engineer, 2<sup>nd</sup> Electrical Circle, HPPWD, Dharamshala.
3. The Assistant Engineer, Electrical Sub Division, HP PWD Hamirpur/Una & Bilaspur.
4. All the contractors working under the control of this Division.
5. Drawing Branch in this office.
6. Notice Board.

✓  
Executive Engineer,  
Electrical Division,  
HPPWD, Una



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Executive Engineer  
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**\*NOTICE INVITING TENDER\***

Sealed item rate tenders on PWD form No. 6 & 8 are invited/re-invited by the Executive Engineer, Electrical Division, HPPWD Una on behalf of the Governor of H.P. for the following works from approved and eligible Contractors enlisted with HPPWD (Electrical) in appropriate class/authorized dealers so as to reach in the office of undersigned on **20.08.2022** up to **10.30 A.M** and will be opened on the same day at **11.00 A.M.** in the presence of the intending contractors or their authorized representatives. The tender forms can be had from the office of the Executive Engineer, Electrical Division, HPPWD, Una against cash payment (**Non Refundable**) on dated **18-08-2022** during office hours i.e. **1:00 P.M. to 5:00 P.M.** The application for obtaining the tender forms will be received on dated **18-08-2022** up to **1:00 PM**. The earnest money in the shape of fresh FDR/NSC, duly pledged in favour of the undersigned must be submitted with the application for issue of tender form. **The earnest money should be submitted separately for each work.**

The copy of Valid enlistment and renewal certificate alongwith GST No., Pan No., and EPF No. shall be attached with application form. The offer of the tender shall remain open **75 days** from the date of opening of the tenders. The undersigned reserves the right to reject/cancel the tenders without assigning any reason:-

| Sr. No. | Name of work                                                                                                                                                                                                                                                                                                                              | Estimated Cost. (In Rs.) | Earnest Money (In Rs.) | Time limit  | Cost of form (In Rs.) | Eligible Class of Contractor |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|-------------|-----------------------|------------------------------|
| 1       | Replacement E.I. in PWD Quarter set No. 1 & 2 Distt. Hamirpur (H.P).                                                                                                                                                                                                                                                                      | 58,703/-                 | 1,200/-                | Six Months. | 350/-                 | D                            |
| 2       | Replacement of damaged accessories and E.I. in various residential Govt. buildings i.e. Additional & Session Judge residence, PWD colony Type II, set no 7,9,14 Type III set no 4,9, ACJM residence, under ESD Hamirpur (H.P).                                                                                                            | 54,166/-                 | 1,100/-                | Six Months. | 350/-                 | D                            |
| 3       | Replacement of damaged accessories and E.I. in various Non-residential Govt. buildings i.e. ADR Centre Matani, parking, Second floor, CJM Court No III, Chamber, Court room, staff room, Circuit House Hamirpur First floor corridor room no 101,108,109 & 110 Distt Attorney room, Distt Court Canteen Kitchen under ESD Hamirpur (H.P). | 99,895/-                 | 2,000/-                | Six Months. | 350/-                 | D                            |
| 4       | Replacement of old and damaged Post Top lantern and E.I. in the residence of additional & Distt. Session Judge and Civil Judge cum Judicial Magistrate at Matani, Distt Hamirpur, (H.P).                                                                                                                                                  | 1,52,246/-               | 3,100/-                | Six Months. | 350/-                 | D                            |

|    |                                                                                                                                                                                                                        |            |         |             |       |                 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------------|-------|-----------------|
| 5  | Providing and Installation of Split type 1.5 ton A.C Hot & cold 2 Nos. ) in VIP Suit Bed Room & Suit No.3) and 1.8/2.0 ton A.C. H&C(in Drawing Hall at HP.PWD Rest House at Bhoranj, Distt. Hamirpur (H.P).            | 2,17,830/- | 4,400/- | Six Months. | 350/- | Specialized Job |
| 6  | Replacement of E.I. in DPRO Office Building at Bilaspur in Distt Bilaspur (H.P)                                                                                                                                        | 4,35,386/- | 8,700/- | Six Months. | 350/- | C               |
| 7  | A/R & M/O of various type different capacity Air Conditioning installed in various Rest Houses under ESD Hamirpur(Section Sujampur and Nadaun) for the year 2022-23 (One year from awarded date).                      | 92,213/-   | 1,900/- | One year.   | 350/- | Specialized Job |
| 8  | Construction of PWD Rest House at Uhal, Tehsil Tauni Devi, Distt. Hamirpur, (SH:- Providing Yard Lighting therein).                                                                                                    | 3,75,280/- | 7,500/- | One year    | 350/- | C               |
| 9  | C/O Ware House for Storage for Storage of electronic Voting Machine at Hamirpur (H.P) (SH:- Balance work of Fire Fighting system therein).                                                                             | 1,78,249/- | 3,600/- | Six Months. | 350/- | Specialized Job |
| 10 | Replacement of damaged accessories and E.I. in various Residential buildings J.E. Residence Bhoranj, Dhaneta, Galore, Bijhari and Type-II Qtrs. at Barsar, under ESD Hamirpur, (Barsar Section) Distt. Hamirpur (H.P). | 74,652/-   | 1,500/- | Six Months. | 350/- | D               |
| 11 | Replacement of E.I. In the Office of the Superintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.( Ground Floor of 10th Circle)                                                                                 | 2,53,277/- | 5,100/- | Six Months. | 350/- | D               |
| 12 | Replacement of E.I. In the O/o Superintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.(Accountant Room, Account Branch & Supdt. room)                                                                          | 1,89,510/- | 3,800/- | Six Months. | 350/- | D               |
| 13 | Replacement of E.I. in the Office of the Superintending Engineer Campus 10th Circle HPPWD., Bilaspur, (H.P). ( Division No-1 & Circle Drawing Branch)                                                                  | 2,59,897/- | 5,200/- | Six Months. | 350/- | D               |
| 14 | Replacement of E.I. in the office of the Superintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.( Division No-1)                                                                                               | 2,63,437/- | 5,300/- | Six Months. | 350/- | D               |
| 15 | Replacement of E.I. In the office of the Superintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.(1st Floor)                                                                                                    | 2,99,931/- | 6,000/- | Six Months. | 350/- | D               |

|    |                                                                                                                                           |            |         |             |       |                 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------------|-------|-----------------|
| 16 | Replacement of E.I. In Toilet Blocks of Regional Hospital Building at Bilaspur Distt. Bilaspur (H.P).                                     | 2,95,036/- | 5,900/- | Six Months. | 350/- | D               |
| 17 | C/o Warehouse for storage of EVM Machine & VVPATs at Bilaspur in Distt. Bilaspur (H.P)(SH:- Balance work of fire Fighting system therein) | 2,70,613/- | 5,400/- | Six Months. | 350/- | Specialized Job |
| 18 | C/o One Stop Centre in Distt. Bilaspur, Tehsil Sadar, Distt. Bilaspur, (H.P) (SH:- Providing E.I. therein).                               | 2,54,952/- | 5,100/- | One Year.   | 350/- | D               |

**GENERAL TERMS AND CONDITIONS:-**

1. In case office happens to be closed on any of the above mentioned dates, the bids will be opened on the next working day at same time and venue.
2. The contractors/firms are required to quote their rates clearly both in words as well as in figures, failing which tenders are likely to be rejected.
3. No Person/persons shall be allowed to give the documents with regard to tender unless he/they hold/holds the power of attorney duly registered under law.
4. The tender of those contractors who are registered under H.P. Central Sales Tax Act 1969, GST and who have been cleared all the dues on account of tax will be entertained.
5. The competent authority on behalf of Governor of H.P. reserves the right to reject any or all the tenders received without assigning any reason.
6. The eligible Contractor/Firm should performance certificate for specialized jobs as required.
7. The tendered amount should be within the limit of (+) 5% to (-) 10% notification dated 07.10.2021 shall be applicable for Bid price lower than-10% and more than + 5%.

**HIM SUCHANA AVAM JANSAMPARK**

  
Executive Engineer,  
Electrical Division  
HPPWD, Ra

**HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT**

**\* CORRIGENDUM \***

The tender for **Job No. 01 to 18** called vide this office Letter No. PW/EDU/CB/TA/e-tender/2022-2023- 3968-95 dated 08.08.2022, and also send to published in Giri Raj on or before 17.08.2022. The applications for these tender to be received in this office on **18.08.2022 up to 1:00 P.M.** and to be sold on 18.08.2022 from 1:00 P.M. to 5:00 P.M. and the financial bid of which to be opened on **20.08.2022 at 11.00 A.M.** Out of which **Job No. 01** for the work:- Replacement E.I in PWD Quarter set No. 01 & 02 Distt. Hamirpur H.P. is hereby cancelled due to technical reason. Rest of terms and conditions shall remain unchanged.

**HIM SUCHANA AVAM JAN SAMPARK**

  
Executive Engineer,  
Electrical Division,  
HPPWD Una.

No-PW/EDU/CB/TA/Tender/2022-2023- 4093-4120 Dated:- 16/8/2022

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

1. The Superintending Engineer 2nd Electrical Circle HPPWD Dharamshala.
2. All the Assistant Engineers working under this Division.
3. All the Head of branches of this office.
4. Notice Board.

  
Executive Engineer,  
Electrical Division,  
HPPWD Una.

**SCHEDULE OF QUANTITY**

**Job No. 02**

Estimated Cost:- Rs. 54,166/  
Earnest Money:- Rs. 1,100/-  
Time Limit:- Six Months.

| Name of work:- Replacement of damaged accessories and E.L. in various residential Govt. buildings i.e Additional & Session Judge residence, PWD colony type II, set no 7,9,14 Type III, set no 4,9, ACJM residence, under ESD Hamirpur H.P. |                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |              |                |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------------|----------------|--------|
| Sr. No.                                                                                                                                                                                                                                     | Description of Items                                                                                                                                                                                                                                                                                                                                                                                       | Qty.  | Unit  | Rate in Fig. | Rate in Words. | Amount |
| 1                                                                                                                                                                                                                                           | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required                                                                                                                                                                                                                    |       |       |              |                |        |
| 1.01                                                                                                                                                                                                                                        | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                 | 25.00 | Meter |              |                |        |
| 1.02                                                                                                                                                                                                                                        | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                     | 15.00 | Meter |              |                |        |
| 2                                                                                                                                                                                                                                           | Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.                                                                                                                                                                                                                                                                         |       |       |              |                |        |
| 2.01                                                                                                                                                                                                                                        | 5/6 amps switch                                                                                                                                                                                                                                                                                                                                                                                            | 20.00 | Each  |              |                |        |
| 2.02                                                                                                                                                                                                                                        | 3 pin 5/6 amp socket outlet                                                                                                                                                                                                                                                                                                                                                                                | 10.00 | Each  |              |                |        |
| 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.Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in | 5.00  | 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 FRL. Sont 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.                                                                                                                                       | 3.00 | Each |  |  |  |
| 5    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                | 1.00 | Each |  |  |  |
| 6    | Providing, Installation, testing and commissioning of ceiling fan, 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 fan box, phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha(TECHNIX PLUS) Bajaj, Crompton or its equivalent as approved by Engineer-in -charge. |      |      |  |  |  |
| 6.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                               | 6.00 | Each |  |  |  |
| 7    | 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. Make :- Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                   | 8.00 | Each |  |  |  |
| 8    | Providing and Installation of Wall mounting fan of 400 mm sizes i/e hang the same in position on the wall, connections, testing and commissioning etc. as required with minimum 3 star rating. Make:- Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                       | 2.00 | Each |  |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |  |  |  |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|--|--|
| 9    | Providing and fixing of surface mounted Luminaire following Watt batten .having high Quality design aluminium extruded decorative end caps with (Five year warranty) and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt ,CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc.as required ... Make:-Jaquar /Philips,Panasonic or its equivalent as approved by Engineer-in-Charge;Make Philips,Panasonic Jaquar or its equivalent as approved by Er-In-Charge( Five year warranty) |      |      |  |  |  |  |
| 9.01 | 24 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5.00 | Each |  |  |  |  |
| 10   | Supply and fixing D fan hook with screw and fastner complete in all respect as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.00 | Each |  |  |  |  |
| 11   | Providing and installation exhaust fan of 300 mm light duty (Domestic type) 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 : Usha,Bajaj,Crompton or its equivalent as approved by Engineer-in - charge.                                                                                                                                                                                                                                                                                                                | 2.00 | Each |  |  |  |  |
| 12   | Supplying and fixing exhaust fan louver shutter for 300 mm.exhaust fan on the existing wall,painting etc, as required,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.00 | Each |  |  |  |  |
| 13   | Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required.Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.00 | Each |  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                              |       |      |  |  |  |  |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|--|
| 14    | Supplying and fixing of following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.-Make L&T, Hager,ABB or its equivalent as approved by Engineer-in -charge. |       |      |  |  |  |  |  |
| 14.01 | 40 AMP                                                                                                                                                                                                                                                                                                                                                       | 2.00  | Each |  |  |  |  |  |
| 14.02 | 63 AMP                                                                                                                                                                                                                                                                                                                                                       | 2.00  | Each |  |  |  |  |  |
| 15    | Supplying and fixing 5 amps to 32 amps , 240/415 volts, 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.)Make L&T, Hager,ABB or its equivalent as per best satisfaction of Engineer-in -charge.                       |       |      |  |  |  |  |  |
| 15.01 | Single pole                                                                                                                                                                                                                                                                                                                                                  | 10.00 | Each |  |  |  |  |  |
| 16    | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required.-Make L&T, Hager,ABB or its equivalent as approved by Engineer-in -charge.                                                                          | 4.00  | Each |  |  |  |  |  |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                 |       |      |  |  |  |  |  |

  
 Executive Engineer,  
 Electrical Division,  
 HP.PWD.,Una.

# SCHEDULE OF QUANTITY

Job No. 03

Estimated Cost:- Rs. 99,895/-  
Earnest Money:- Rs. 2,000/-  
Time Limit:- Six Months.

Name of work:- Replacement of damaged accessories and E.L. in various Non-residential Govt. buildings i.e ADR Centre Matani parking, Second floor, CJM Court No III, Chamber, Court room, staff room, Circuit House Hamirpur First floor corridor room no 101, 108, 109, 110, Distt Attorney room, Distt Court Canteen Kitchen under ESD Hamirpur H.P

| Sr. No. | Description of Items                                                                                                                                                                                                                       | Quantity | Unit  | Rate In Fig. | Rate In words. | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|----------------|--------|
| 1       | 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:- Plaza, KEL, Finolex or its equivalent as approved by Fr-In-Charge |          |       |              |                |        |
| 1.01    | 3 x 1.5 sq. mm                                                                                                                                                                                                                             | 30.00    | Meter |              |                |        |
| 1.02    | 3 x 4 sq. mm                                                                                                                                                                                                                               | 20.00    | Meter |              |                |        |
| 1.03    | 3 x 10 sq. mm                                                                                                                                                                                                                              | 2.00     | Meter |              |                |        |
| 2       | Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.                                                                                                         |          |       |              |                |        |
| 2.01    | 5/6 amps switch                                                                                                                                                                                                                            | 20.00    | Each  |              |                |        |
| 2.02    | 3 pin 5/6 amp socket outlet                                                                                                                                                                                                                | 13.00    | Each  |              |                |        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                   |       |      |  |  |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|
| 2.03 | 6 pin 15/16 amp switch                                                                                                                                                                                                                                                                                                                                                                                            | 17.00 | Each |  |  |  |
| 2.04 | 6 pin 15/16 amp socket outlet                                                                                                                                                                                                                                                                                                                                                                                     | 12.00 | Each |  |  |  |
| 3    | 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. Diplast/BEC/Polyfit or its equivalent as approved by E-I-In-Charge                                                                                                                                      |       |      |  |  |  |
| 3.01 | 20 mm                                                                                                                                                                                                                                                                                                                                                                                                             | 40.00 | Mtr  |  |  |  |
| 4    | 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 FRL. Sont 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 (Roma classic). L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in | 3.00  | Each |  |  |  |
| 5    | Supplying and fixing suitable size GI box with modular plate and cover in FRL. Sont 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.                                                                                                                                                              | 3.00  | Each |  |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |  |  |  |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|--|--|
| 6    | Providing and fixing of surface mounted Luminaire following Watt batten ,having high Quality design aluminium extruded decorative end caps with (Five year warranty) and it should be compatible with specification i.e. Power Factor >.9, Harmonic Distortion <10% and efficacy >100 Lumens per watt ,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60Hz. complete with all accessories, connections, testing and commissioning etc.as required .. Make:-Jaquar /Philips,Panasonic or its equivalent as approved by Engineer-in-Charge:Make Philips,Panasonic jaquar or its equivalent as approved by Er-In-Charge( Five year warranty) |      |      |  |  |  |  |
| 6.01 | 24 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.00 | Each |  |  |  |  |
| 7    | Supplying and fixing of followig watts surface/recess round type LED downlight. and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy>100 Lumens per watt,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.Make Jaquar,Wipro Philips or its equivalent as approved by Engineer-in -charge.( Five year warranty)                                                                                                                                                                                       |      |      |  |  |  |  |
| 7.01 | 12 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.00 | Each |  |  |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |      |  |  |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|
| 8    | Providing, Installation, testing and commissioning of ceiling fan, 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 fan box, phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha (TECHNIX PLUS) Bajaj, Crompton or its equivalent as approved by Engineer-in -charge. |       |      |  |  |  |  |
| 8.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00  | Each |  |  |  |  |
| 9    | Providing and installation exhaust fan of 300 mm light duty (Domestic type) 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 : Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.                                                                                                                   | 1.00  | Each |  |  |  |  |
| 10   | 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. Make :-Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                    | 10.00 | Each |  |  |  |  |
| 11   | Providing and Installation of Wall mounting fan of 400 mm sizes i/e hang the same in position on the wall, connections, testing and commissioning etc. as required with minimum 3 star rating. Make:- Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                        | 2.00  | Each |  |  |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |  |  |  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|
| 12 | Supplying and fixing of Electronic Ballast 36/40 watt suitable for FTL fixtures in ABS housing including connections, testing and commissioning as required Make:- Havells (Cat no LHGEFBBDDPA1036) ,Philips,Jaquar,Panasonic ,or its equivalent as approved by Engineer-in-charge                                                                                                                                                                                                                                                           | 24.00 | Each |  |  |  |
| 13 | Supplying and fixing of FTL Lamp 40 watt including connections, testing and commissioning as required Make:- Havells (Cat no LHLFDLCENL70036) ,Philips,Jaquar,Panasonic ,or its equivalent as approved by Engineer-in-charge                                                                                                                                                                                                                                                                                                                 | 22.00 | Each |  |  |  |
| 14 | Supplying and fixing street light LED 60 watt with G.I bracket die cast Aluminium housing with frame and toughened glass, pipe mounting 5700K, (Five YEAR WARRANTY ) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make - Jaquar (Model - LSRT015060XW )/Philips/wipro or its equivalent as approved by Engineer-in-Charge | 2.00  | Each |  |  |  |
| 15 | Supplying and fixing 5 amps to 32 amps , 240/415 volts, 10 kA, "C" curve,minature 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, Hager,ABB or its equivalent as per best satisfaction of Engineer-in -charge.                                                                                                                                                                                                        |       |      |  |  |  |
| i  | single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20.00 | Each |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |  |  |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|--|
| 16    | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:-Make L&T, Hager,ABB or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                  | 5.00 | Each |  |  |  |
| 17    | Supplying and fixing of following rating, 240/415 volts, 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.)Make L&T, Legrand.ABB or its equivalent as approved by Engineer-in-Charge                                                                                                                          |      |      |  |  |  |
| 17.0  | Triple pole and Neutral                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.00 | Each |  |  |  |
| 18    | Supplying and fixing SURFACE 1x4 36 WATT LED , 5700k. (Five YEAR WARRANTY ) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:- jaquar (Model - LUL104S036XW)/Philips, Wipro or its equivalent as approved by Engineer-in-Charge | 4.00 | Each |  |  |  |
| 19    | Supplying and fixing following capacity HRC fuse with complete in all respect Make Havells,L&T,hager or equivalent approved by Engineer-in-charge                                                                                                                                                                                                                                                                                                   |      |      |  |  |  |
| 19.01 | 100 amp                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6.00 | Each |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |  |  |         |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|---------|
| 20    | 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 busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) Make L&T, Legrand ABB or its equivalent as per best satisfaction of Engineer-in-charge. |      |      |  |  |         |
| 20.01 | MCBDB 16 WAY                                                                                                                                                                                                                                                                                                                                                                                       | 1.00 | Each |  |  |         |
|       |                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |  |  | Total:- |

  
 Executive Engineer,  
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# SCHEDULE OF QUANTITY

Job No. 04

Estimated Cost:- Rs. 1,52,246/-  
Earnest Money:- Rs. 3,100/-  
Time Limit:- Six Months.

| Name of work :- Replacement of old and damaged Post Top lantern and E.I in the residence of additional & Distt. Session Judge and Civil Judge cum judicial magistrate at Matani Distt. Hamirpur (H.P). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |      |      |         |                |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|------|---------|----------------|--------|
| Sr. No.                                                                                                                                                                                                | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Qty   | Unit | Rate | In Fig. | Rate In Words. | Amount |
| 1                                                                                                                                                                                                      | Providing and fixing of Post Top Lantern (light House), E-27 base lamp holder of suitable size, excluding with LED 23/30 watt lamp complete with all accessories, connections, testing and commissioning etc.as required .Make :- Twinkle cat no LuxMax-PT-153-R/C, K-lite ,panasonic or its equivalent as approved by Engineer-in-charge.( Five year warranty)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12.00 | Each |      |         |                |        |
| 2                                                                                                                                                                                                      | Supplying and erection of Galvanized Iron (G.I.) pipe pole 'A' quality of suitable length and dia. 4.47 mm thickness, including fixing up to a given depth below G/L.The hole of excavation about 30 cm dia. and given depth to be filled in up to 15 cm below G/L with 1:3:6 cement concrete and there above plinth with 1:2:4 cement concrete up to a height of 45 cm from G/L. The radial thickness of the plinth above G/L should not be less than 6.35 cm and sufficient to completely flush a 180 mmx100 mmx 45 mm deep, glass filled Nylan F.R. grade box for housing a 16 Amp. MCB, the outer surface of the plinth to be finished with 1:3 cement plaster 6 mm thick, the fuse-box shall have a water tight cover, including painting of pole with two coats of approved color, brand and manufacture of paint over a priming coat complete in all respects as required:- 4 Meter long having nominal bore dia. 65 mm planting depth 80 cm with pit depth 95 cm. | 1.00  | Each |      |         |                |        |
| 3                                                                                                                                                                                                      | Supplying and fixing of monkey meance for steel tublar poles having dia 76 mm i/c painting, screws, etc complete in all respect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12.00 | Each |      |         |                |        |

|      |                                                                                                                                                                                                                                                                                                                                      |       |       |  |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 4    | Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-<br>Make:Finolex ,KEI,Plaza or its equivalent as approved by Engineer-in-Charge                                                       |       |       |  |  |  |
| 4.01 | Armoured cable 6 sqmm(twin core)                                                                                                                                                                                                                                                                                                     | 50.00 | Mtr   |  |  |  |
| 5    | Supplying and fixing suitable size GI box with modular plate and cover in FRLSont 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.                                                                                   | 1.00  | Each  |  |  |  |
| 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 PVC conduit as required                                                                                                                                              |       |       |  |  |  |
| 6.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                           | 5.00  | Meter |  |  |  |
| 6.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                               | 15.00 | Meter |  |  |  |
| 7    | Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve,miniatuere 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 ,Legrand, Hager or its equivalent as approved by Engineer-In-Charge |       |       |  |  |  |
| 7.01 | Single pole                                                                                                                                                                                                                                                                                                                          | 12.00 | Each  |  |  |  |
| 8    | Supplying and fixing of pendant light with copper glass and copper finishing including all accessories making connections, testing but excluding lamp etc. as required. Make Philips, Jaquar,Wipro or its equivalent as approved by Engineer-in -charge.( Five year warranty)                                                        | 2.00  | Each  |  |  |  |

|         |                                                                                                                                                                                                                                                                   |       |      |  |  |  |  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|
| 9       | Providing and installation of following Watts LED Lamp with E-27 base polycarbonate diffuser and aluminium heat sink including connections, etc. as required. Make TISVA, wipro, Philips or its equivalent as approved by Engineer-in-Charge (Five year warranty) |       |      |  |  |  |  |
| 9.01    | 9 Watt                                                                                                                                                                                                                                                            | 2.00  | Each |  |  |  |  |
| 9.02    | 30 Watt                                                                                                                                                                                                                                                           | 12.00 | Each |  |  |  |  |
| Total:- |                                                                                                                                                                                                                                                                   |       |      |  |  |  |  |

  
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# SCHEDULE OF QUANTITY

Job No. 05

Estimated Cost:- Rs. 2,17,830/-  
Earnest Money:- Rs. 4,400/-  
Time Limit:- Six Months.

Name of work :- Providing and Installation of Split Type 1.5 Ton A.C. (Hot and Cold) 2Nos (in VIP Suit Bed Room & Suit No 3) and 1.8/2.0 Ton A.C. H&C (in Drawing Hall) at HPPWD Rest House at Boranj Distt Hamirpur H.P.

| Sr. No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quantity | Rate In Fig. | Rate In words. | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|------|--------|
| 1       | Supplying and fixing 1.5 Ton inverter split type air conditioner Hot and Cold with voltage stabilizer 140 v to 280 v , advanced filter, E saver mode, quit mode, dual display, auto clean, anti bacteria filter jet Cool on/off timer sleep mode compressor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt +/- 10 % A.C. supply capable to perform the function of cooling dehumidification air circulation ventilation and fitting in size of nominal cooling capacity and drain pipe 20 mm dia approximately 3mtrs long 2 nos copper pipe with insulator for inlet and outlet approximately 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A.C. including carriage of material with in all leads and lift. Make :- Daikin (Model:- FTH50), O Genral/Mitsubishi or its equivalent as approved by the Engineer Charge. | 2.00     |              |                | Each |        |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  |  |      |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|--|------|
| 2       | Supplying and fixing 1.8/2.0 Ton inverter split type air conditioner Hot and Cold with voltage stabilizer 150 V To 280 V, advanced filter, E saver mode, quit mode, dual display, auto clean, anti bacteria filter jet Cool on/off timer sleep mode compressor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt $\pm$ 10 % A.C. supply capable to perform the function of cooling dehumidification air circulation ventilation and fitting in size of nominal cooling capacity and drain pipe 20 mm dia approximately 3mtrs long 2 nos copper pipe with insulator for inlet and outlet approximately 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A.C. including carrigae of material with in all leads and lift. Make: - Daikin (Model:- FTH60), O Genral/Mitsubi or its equivalent as approved by the Engineer-in-Charge. | 1.00 |  |  | Each |
| Total:- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  |  |      |

  
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**SCHEDULE OF QUANTITY**

**Job No. 6**

Estimated Cost:- Rs. 4,35,386/-  
 Earnest Money:- Rs. 8,700/-  
 Time Limit:- Six Months.

**Name Of Work :- Replacement of E.I in DPRO Office Building at Bilaspur in Distt. Bilaspur (H.P)**

| Sr. No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                    | Qty.   | Unit  | Rate in Fig. | Rate in Word | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--------------|--------------|--------|
| 1       | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- Anchor (Roma classic ), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in -charge. |        |       |              |              |        |
| 1.01    | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64.00  | Each  |              |              |        |
| 2       | Wiring for circuit/submain 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. Make:- Plaza, KEI, Finolex or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                             |        |       |              |              |        |
| 2.01    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                              | 160.00 | Meter |              |              |        |
| 2.02    | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                  | 80.00  | Meter |              |              |        |
| 2.03    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                  | 40.00  | Meter |              |              |        |
| 2.04    | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                  | 45.00  | Meter |              |              |        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |       |  |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--|--|--|
| 2.05 | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                         | 2.00   | Meter |  |  |  |
| 3    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required Make :- Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                          |        |       |  |  |  |
| 3.01 | 5/6 amp Modular switch                                                                                                                                                                                                                                                                                                                                                                                                          | 26.00  | Each  |  |  |  |
| 3.02 | 5 pin 5/6 amp socket outlet                                                                                                                                                                                                                                                                                                                                                                                                     | 26.00  | Each  |  |  |  |
| 3.03 | Bell push                                                                                                                                                                                                                                                                                                                                                                                                                       | 8.00   | Each  |  |  |  |
| 4    | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45) with shutter including connections etc as required. Make :- Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge. | 15.00  | Each  |  |  |  |
| 5    | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required. Make:- Polycab, Finolex, D-Link or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                      | 200.00 | Meter |  |  |  |
| 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. Diplast/BEC/Polyfit or its equivalent as approved by Engineer-in -charge.                                                                                                                                             |        |       |  |  |  |
| 6.01 | 25 mm                                                                                                                                                                                                                                                                                                                                                                                                                           | 180.00 | Meter |  |  |  |
| 7    | Supplying and fixing Ding Dong bell suitable for single phase, 230 V. complete as required Make :- Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                   | 7.00   | Each  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |      |  |  |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|
| 8     | Providing and installation exhaust fan of 300 mm light duty (Domestic type) 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 : Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in-charge.                                                                                                                      | 2.00  | Each |  |  |  |
| 9     | Supplying and fixing exhaust fan louver shutter for 300 mm exhaust fan on the existing wall, painting etc. as required.                                                                                                                                                                                                                                                                                                                                    | 2.00  | Each |  |  |  |
| 10    | Providing, Installation, testing and commissioning of ceiling fan, 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 fan box, phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha (TECHNIX PLUS) Bajaj, Crompton or its equivalent as approved by Engineer-in-charge.    |       |      |  |  |  |
| 10.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.00 | Each |  |  |  |
| 11    | 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. Make :- Anchor (Roma classic ), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in-charge.                                                                                                                                                     | 10.00 | Each |  |  |  |
| 12    | Supplying and fixing of following watts surface round type LED downlight, 6000k, and it should be compatible with specification c.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty) |       |      |  |  |  |
| 12.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.00  | Each |  |  |  |
| 13    | Supplying and fixing of following watts recess round type LED downlight, 6000k, and it should be compatible with specification c.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty)  |       |      |  |  |  |
| 13.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.00  | Each |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |       |      |  |  |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------|------|--|--|--|
| 14    | Providing and fixing of following type surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >9, Harmonic Distortion >15% and efficiency >100 lumens per watt ,CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz. complete with all accessories, connections, testing and commissioning etc as: Make Philips, Panasonic jaquar or its equivalent as approved by Engineer-in -charge.( Five year warranty) |  |  |  |       |      |  |  |  |
| 14.01 | 10 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |       |      |  |  |  |
| 14.02 | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  | 2.00  | Each |  |  |  |
| 15    | Supplying and fixing batten/ angle holder including connection etc. as required. Make : Anchor (Roma classic )L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in-Charge                                                                                                                                                                                                                                                                                                                                        |  |  |  | 10.00 | Each |  |  |  |
| 16    | Supplying and fixing of LED Bulb following watts 6500 K E-27 ,900 Lumens 240 volts AC, supply 50 HZ in the existing batten holder, pendant holder, wall bracket & bulk head fitting etc. as required. Make TISVA ,wipro, philips or its equivalent as approved by Engineer-in -charge.( Five year warranty)                                                                                                                                                                                                                           |  |  |  | 20.00 | Each |  |  |  |
| 16.01 | 9 Watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |       |      |  |  |  |
| 17    | Providing and installation of LED Street light 25W with bracket power coated pressure die cast aluminium high power led with heat resistant toughened glass with lens ,electronic driver; suitable for input voltage: AC 220-240 V, 50/60Hz. complete with all accessories, connections, testing and commissioning etc. as required. Make Panasonic ,wipro, Philips or its equivalent as approved by Engineer-in -charge.( Five year warranty)                                                                                        |  |  |  | 20.00 | Each |  |  |  |
| 18    | Supplying and fixing 5 amps to 32 amps , 240/415 volts, 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. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in -charge.                                                                                                                                                                                              |  |  |  | 1.00  | Each |  |  |  |
| 18.01 | single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |      |  |  |  |
| 19    | Supplying and erection of 40/50/63 amps. 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required. Make L&T, Hager, ABB or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                                                  |  |  |  | 40.00 | Each |  |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | 4.00  | Each |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                         |      |       |  |  |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--|--|--|
| 20    | 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 busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge |      |       |  |  |  |
| 20.01 | MCBDB 8 WAY                                                                                                                                                                                                                                                                                                                                                                             | 1.00 | Each  |  |  |  |
| 20.02 | MCBDB 12 WAY                                                                                                                                                                                                                                                                                                                                                                            | 2.00 | Each  |  |  |  |
| 20.03 | MCBDB 16 WAY                                                                                                                                                                                                                                                                                                                                                                            | 1.00 | Each  |  |  |  |
| 21    | Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required. Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge                                                                                      |      |       |  |  |  |
| 21.01 | 100 A TP&N                                                                                                                                                                                                                                                                                                                                                                              | 1.00 | Each  |  |  |  |
| 22    | Supplying and fixing copper strip bus-bars suitable for 100 Amp, 415 volts capacity 4 No. each of cross-sectional area (25.4mmx3.17mm), in the existing enclosure with all accessories including connections etc. as required:-                                                                                                                                                         | 0.50 | Meter |  |  |  |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                            |      |       |  |  |  |

  
 Executive Engineer,  
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# SCHEDULE OF QUANTITY

Job No. 7

Estimated Cost:- Rs. 92,213/-  
Earnest Money:- Rs. 1,900/-  
Time Limit:- One Year

| Name of work :- A.R & M.O of various type different capacity Air Conditioning installed in various Rest Houses under ESD Hamirpur(Section Sujapur and Nadaun) for the year 2022-23 (One year from awarded date). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |              |                |      |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|------|--------|
| Sr. No.                                                                                                                                                                                                          | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate in fig. | Rate in words. | Unit | Amount |
| 1                                                                                                                                                                                                                | Annual Repair and maintenance (Routine and preventive) of various make type and different capacity split A.C with 4 No Mandatory quarterly service and all emergency break down service as when required from time to time as per the best satisfaction of engineer in charge.                                                                                                                                                                                                                               |          |              |                |      |        |
| 1.01                                                                                                                                                                                                             | The AMC include the following.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |              |                |      |        |
| 1.02                                                                                                                                                                                                             | Compressor, thermostat relay, oil fan, motors timers, heaters, air damper, ice maker, temperature sensor, evaporator, condenser, refrigerant charging driers, capillary blowers, fan blade, control box, magnetron .Electrical switch, transformer, diode, capacitor, wire harness, repair of stabilizer, wash and spin motor, gear box, clutch, assembly drom inner belws bear & lip seal (drain motor pump) electrical bulb ,buzzer suspension key members remote PCB including cost of their replacement. |          |              |                |      |        |
| 1.03                                                                                                                                                                                                             | All defective component shall be replaced with compatible working parts and defective par shall be company /firm /contractor property.                                                                                                                                                                                                                                                                                                                                                                       |          |              |                |      |        |
| 1.04                                                                                                                                                                                                             | split type AC 1.5 ton capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.00    |              |                | Each |        |

|         |                                                                                                                                                                                                                                                                                                                                                                  |      |      |  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|
| 1.05    | window type AC                                                                                                                                                                                                                                                                                                                                                   | 4.00 | Each |  |
| 2       | Providing and fixing PCB for Indoor unit (model no FTH50TV16U) and outdoor unit (model no RHT50TV11U) of inverter Split Type A.C 1.5 Ton including connections, testing as req                                                                                                                                                                                   | 2.00 | Each |  |
| 3       | Supplying and fixing of voltage stabilizer having specification Input voltage range 150-290V ,Digital display, Under voltage Protection, Over voltage protection including connections, testing and commissioning as required: Make:- V Gaurd (MODEL VND 400 DIGITAL) Microtek ,Godrej or its equivalent as approved by Engineer-in-charge (Three year warranty) | 3.00 | Each |  |
| Total:- |                                                                                                                                                                                                                                                                                                                                                                  |      |      |  |

  
 Executive Engineer,  
 Electrical Division,  
 HPPWD., Una

**SCHEDULE OF QUANTITY**

Job No. 08

Estimated Cost:- Rs.3,75,280/-

Earnest Money:- Rs. 7,500/-

Time Limit:- One Year

| Name of work:- C/O PWD Rest House at Uhal Tehsil Tauni Devi Distr. Hamirpur HP. (SH:- Providing Yard lighting therein) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |              |                |             |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|-------------|
| Sr. No.                                                                                                                | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Rate In fig. | Rate In Words. | Unit Amount |
| 1                                                                                                                      | Supplying and erection of decorative lighting Pole of length 3.66 mtr. The pole made of Galvanised Mild Steel with polyurethane Tubes pole dia 76.1mm base size 139.7 mm. The poles to be primer coated and painted paint. The pole has a service window at the bottom profile comprising 4-way 25 Amp connector terminal and a MCB etc. The pole to be mounted on a 1.2.4 cement concrete base (pedestal) of 450X450 mm and 300 mm LType foundation bolts 4x16 mm dia. withnuts, templates and all complete as per approved drawing. Foundation RCC 1.2.4 shall be of size 450x450mm and depth 900 mm c/c as per approved drawing. The foundation shall extend above surrounding ground/driveway level for 200 mm and have slant 63mm dia. PVC sleeve cast insitu foundation for cable entry as per the drawing, complete in all respects as required Make-k lite (KP-6014), Twinkle, Volmount or its equivalent asper best satisfaction on Engineer-in-charge. | 9.00     |              |                | Each        |
| 2                                                                                                                      | Supplying and fixing of Post Top Lantern LED 30 watt of size 426x322 complete with connection testing and commissioning etc as required. Make -K-lite (code 4975), Twinkle, Volmount or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11.00    |              |                | Each        |
| 3                                                                                                                      | Providing and laying of one number additional PVC insulated and PVC sheathed armoured / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. -Make-KEI,POLYCAB, Plaza or Equivalent make                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |              |                |             |
| 3.01                                                                                                                   | Armoured cable 6 sq. mm (twin core)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 196.00   |              |                | Meter       |



**SCHEDULE OF QUANTITY**

**Job No. 09**

Estimated Cost:- Rs. 1,78,249/  
Earnest Money:- Rs. 3,600/-  
Time Limit:- Six Months.

| Name of work :- C/O Ware House for Storage of Electronic Voting Machine at Hamirpur Distt. Hamirpur. ( H.P.) (SH:- Balance work of fire fighting system therein). |                                                                                                                                                                                                                                                                          |          |      |         |                |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|---------|----------------|---------|
| Sr. No.                                                                                                                                                           | Description                                                                                                                                                                                                                                                              | Quantity | Rate | In Fig. | Rate In Words. | Unit    |
| 1                                                                                                                                                                 | Providing, Laying, jointing and testing in following sizes of MS class "C" (heavy class ) pipes Confirming to IS: 1239/3589 with accessories like fittings including tees, elbows, reducers, Flanges gasket, G.I. nuts, bolts complete with all accessories as required. |          |      |         |                |         |
| 1.01                                                                                                                                                              | 100 mm. dia                                                                                                                                                                                                                                                              | 60.00    |      |         |                | P/Rmtr. |
| 2                                                                                                                                                                 | Providing Cast iron/steel Foot Valve Confirming to type P.N. 1.6 of I.S. 13095-1991 Complete with Flanges bolts, nuts gasket etc. as per table "E" specification complete in all respect Hydraulically test to 20 K./sqcm. Make SANT ZOLOTO, LEADER.                     |          |      |         |                |         |
| 2.01                                                                                                                                                              | 150 mm. dia                                                                                                                                                                                                                                                              | 1.00     |      |         |                | Each    |
| 3                                                                                                                                                                 | Providing and fixing angle sport for MS iron Line pipe on Boundary wall, size 32x5                                                                                                                                                                                       | 120.00   |      |         |                | P/Kg.   |
| 4                                                                                                                                                                 | Providing and frefilling of high speed Diesel in Diesel Engine.                                                                                                                                                                                                          | 100.00   |      |         |                | P/Litr. |
| Total :-                                                                                                                                                          |                                                                                                                                                                                                                                                                          |          |      |         |                |         |

  
Executive Engineer,  
Electrical Division,  
HP.PWD., Una..

**SCHEDULE OF QUANTITY**

**Job No. 10**

Estimated cost:- Rs. 74,652/-  
 Earnest money:- Rs. 1,500/-  
 Time Limit:- Six Months.

| N.O.W. :- Replacement of damaged accessories and E.L. in various Residential buildings J.E. Residece Bhoranj, Dhaneta, Galore, Bijhari and Type-II Qtrs at Barsar under ESD Hamirpur (Barsar Section) Distt. Hamirpur (HP) |                                                                                                                                                                                                                                          |          |      |         |           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|---------|-----------|-------|
| Sr. No.                                                                                                                                                                                                                    | Description of Items                                                                                                                                                                                                                     | Quantity | Rate | In Fig. | In words. | Unit  |
| 1                                                                                                                                                                                                                          | Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. Make:- Anchor, I&T or its equivalent as approved by Engineer-in-Charge.                               |          |      |         |           |       |
| 1.01                                                                                                                                                                                                                       | S.P. 5/ 6 Amps one way switch, piano type.                                                                                                                                                                                               | 60.00    |      |         |           | Each  |
| 1.02                                                                                                                                                                                                                       | 5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.                                                                                                                                                                               | 20.00    |      |         |           | Each  |
| 1.03                                                                                                                                                                                                                       | S.P. 15/16 amps, one way switch, piano type                                                                                                                                                                                              | 20.00    |      |         |           | Each  |
| 1.04                                                                                                                                                                                                                       | 6 pin 15/16 & 5/6 amps socket outlet, piano type                                                                                                                                                                                         | 20.00    |      |         |           | Each  |
| 2                                                                                                                                                                                                                          | Supplying and drawing following size of FRLS PVC insulated copper conductor single core cable in existing surface / recessed, Steel/medium class PVC conduit as required. Make:- KEL, Anchor, Plaza as approved by Engineer -in -charge. |          |      |         |           |       |
| 2.01                                                                                                                                                                                                                       | 3x1.5 Sq. mm.                                                                                                                                                                                                                            | 40.00    |      |         |           | Metre |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |  |  |       |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|--|-------|--|
| 2.02 | 3x4.0 Sq. mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 30.00 |  |  | Metre |  |
| 3    | Providing installation testing and commissioning of ceiling fan with step size socket size 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:- Usha Technix plus, BEE, Crompton H.S. Plus 5 star or its equivalent not less than three star rating as approved by Engineer-in-charge.                                                             |  |       |  |  |       |  |
| 3.01 | Ceiling fan 1200 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 5.00  |  |  | Each  |  |
| 4    | Providing and Installation of Exhaust fan 300 mm Light duty (domestic) 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:- Usha(AEROCLEAN LDGBD) , Crompton, bajaj or its equivalent as approved by Engineer-in-Charge.                                                                                                                                                                                                              |  | 3.00  |  |  | Each  |  |
| 5    | Providing and fixing of surface mounted Luminaire LED 22 Watt batten ,having high Quality design aluminium extruded decorative end caps with (Five year warranty) and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion <10% and efficacy >100 Lumens per watt ,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc.as required. Make :- Panasonic (PBTM17228),Jaquar, Philips, wipro or its equivalent as approved by Engineer-in-charge. |  | 14.00 |  |  | Each  |  |

|         |                                                                                                                                                                                                                                                                                                                                                                                       |       |  |  |      |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|------|
| 6       | Supplying and fixing of fancy wall bracket of chrome finish colour with opal glass diffuser made of mild steel, with single holder containing thread type LED lamp holder(s) of all sizes and shapes, complete with all accessories but excluding led lamp including making connections, testing etc. as required. Make:- PHILIPS (Model Grace), wipro, Panasonic or equivalent make. | 10.00 |  |  | Each |
| 7       | Supplying and erection of 5 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. Make:- L&T Legrand, Hegggar as approved by Engineer-in-charge.                                                                                                  |       |  |  |      |
| 7.01    | Single pole                                                                                                                                                                                                                                                                                                                                                                           | 18.00 |  |  | Each |
| 8       | Supplying and erection of MCB DP 40/50/63 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. Make:- L&T, Legrand, Hegggar as approved by Engineer-in-charge.                                                                                                | 8.00  |  |  | Each |
| Total:- |                                                                                                                                                                                                                                                                                                                                                                                       |       |  |  |      |

  
 Executive Engineer,  
 Electrical Division,  
 HP.PWD., Una.

# SCHEDULE OF QUANTITY

Job No. 11

Estimated Cost:- Rs. 2,53,277/-  
Earnest money:- Rs. 5,100/-  
Time Limit:- Six Months.

| Name of work :- Replacement of E.L. In the Office of the Suprintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.( Ground Floor of 10th Circle) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |              |                |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------------|----------------|--------|
| Sr. No.                                                                                                                                               | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quantity | Unit | Rate In fig. | Rate In words. | Amount |
| 1                                                                                                                                                     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge. |          |      |              |                |        |
| 1.01                                                                                                                                                  | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30.00    | Each |              |                |        |
| 2                                                                                                                                                     | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , GI box 2 module for jack box and GI Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45) with shutter including connections etc as required. Make :-Anchor (Roma classic ), L&T(Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in -charge.                                      | 12.00    | Each |              |                |        |
| 3                                                                                                                                                     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ), L&T(Entice), Legrand(Myrius) or as approved by Engineer-in -charge.                                                                                                                          | 5.00     | Each |              |                |        |
| 4                                                                                                                                                     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ), L&T(Entice), Legrand (Myrius) or as approved by Engineer-in -charge.                                                                                                               | 14.00    | Each |              |                |        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |       |  |  |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|--|
| 5    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                                                     |       |       |  |  |  |  |
| 5.01 | Bell push                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10.00 | Each  |  |  |  |  |
| 6    | Wiring for circuit/submain wiring along with earthing with the following sizes of FRLS: PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required Make:-Plaza,KEI,Fimolex or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                                                                   |       |       |  |  |  |  |
| 6.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45.00 | Meter |  |  |  |  |
| 6.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 70.00 | Meter |  |  |  |  |
| 6.03 | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25.00 | Meter |  |  |  |  |
| 6.04 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45.00 | Meter |  |  |  |  |
| 7    | Supplying and fixing batten/ angle holder including connection etc. as required Make :-Anchor (Roma classic ),L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in-Charge                                                                                                                                                                                                                                                                                                                                         | 5.00  | Each  |  |  |  |  |
| 8    | Supplying and fixing Ding Dong bell suitable for single phase, 230 V. complete as required Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                                                                                                                             | 4.00  | Each  |  |  |  |  |
| 9    | Providing and fixing of following type surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >0.9, Harmonic Distortion <15% and efficiency >100 lumens per watt ,CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as Make Philips, Panasonic jaquar or its equivalent as approved by Engineer-in -charge.( Five year warranty) |       |       |  |  |  |  |
| 9.01 | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.00 | Each  |  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |      |  |  |  |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|
| 10    | Providing installation, testing and commissioning of ceiling fan, 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 fan box, phenolic laminated sheet cover on the fan box and earthing etc, as required with minimum 3 star rating. Make:- L-shar TECHNIX PLUS/Bajaj/Compton or its equivalent as approved by Engineer-in-charge.       |       |      |  |  |  |  |
| 10.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.00  | Each |  |  |  |  |
| 11    | 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. Make :-Anchor (Roma classic), L&T (Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in-charge.                                                                                                                                                        | 9.00  | Each |  |  |  |  |
| 12    | Supplying and fixing of following watts recess round type LED downlight, 6000k, and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty)  |       |      |  |  |  |  |
| 12.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10.00 | Each |  |  |  |  |
| 13    | Supplying and fixing of following watts surface round type LED downlight, 6000k, and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty) |       |      |  |  |  |  |
| 13.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.00  | Each |  |  |  |  |
| 14    | 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 busbar, earth bar, din bar, interconnections, powder painted including earthing etc, as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge                                                                    |       |      |  |  |  |  |
| 14.01 | MCB DB 6 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.00  | Each |  |  |  |  |
| 14.02 | MCB DB 8 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.00  | Each |  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                        |       |       |  |  |  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 14.03 | MCBDB 12 WAY                                                                                                                                                                                                                                                                                                                           | 1.00  | Each  |  |  |  |
| 14.04 | MCBDB 16 WAY                                                                                                                                                                                                                                                                                                                           | 1.00  | Each  |  |  |  |
| 15    | Supplying and fixing 5 amps to 32 amps, 240/415 volts, 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. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in-charge. |       |       |  |  |  |
| 15.01 | Single pole                                                                                                                                                                                                                                                                                                                            | 28.00 | Each  |  |  |  |
| 16    | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required. Make L&T, Hager, ABB or its equivalent as approved by Engineer-in-charge.                                                    | 4.00  | Each  |  |  |  |
| 17    | 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. Diplast/BEC/Polyfit or its equivalent as approved by Engineer-in-charge.                                                     |       |       |  |  |  |
| 17.01 | 25 mm                                                                                                                                                                                                                                                                                                                                  | 70.00 | Meter |  |  |  |
| 18    | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required. Make:- Polycab, Finolex, D-Link or its equivalent as approved by Engineer-in-charge.                                                                                                                              | 80.00 | Meter |  |  |  |
|       | Total                                                                                                                                                                                                                                                                                                                                  |       |       |  |  |  |

Note:- The credit of dismantalled material for Rs.2277/- (Rs. Two thousand two hundred seventy seven) only may be recover in the bill.

  
Executive Engineer,  
Electrical Division,  
HP.PWD.,Una.

# SCHEDULE OF QUANTITY

Job No. 12

Estimated Cost:- Rs. 1,89,510/-  
Earnest Money:- Rs. 3,800/-  
Time Limit:- Six Months.

| Name of work :- Replacement of E.I. In the O/O Suprintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.(Accountant Room,Account Branch & Supdtt. Room) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |      |         |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|---------|-----------|
| Sr. No.                                                                                                                                                      | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quantity | Unit | Rate | In Fig. | In 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 PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- Anchor (Roma classic ),L&T (Entice) ,Legrand(Myrius) or its equivalent as approved by Engineer-in -charge. |          |      |      |         |           |
| 1.01                                                                                                                                                         | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22.00    | Each |      |         |           |
| 2                                                                                                                                                            | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45)with shutter including connections etc as required.Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                         | 9.00     | Each |      |         |           |

|      |                                                                                                                                                                                                                                                                                                                                                   |       |       |  |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 3    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or as approved by Engineer-in -charge.           | 5.00  | Each  |  |  |  |
| 4    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or as approved by Engineer-in -charge. | 13.00 | Each  |  |  |  |
| 5    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                              |       |       |  |  |  |
| 5.01 | Bell push                                                                                                                                                                                                                                                                                                                                         | 9.00  | Each  |  |  |  |
| 6    | Wiring for circuit/submain wiring along with earthing wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. Make:-Plaza,KEL,Finolex or its equivalent as approved by Engineer-in -charge.                                                                         |       |       |  |  |  |
| 6.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                        | 35.00 | Meter |  |  |  |
| 6.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                            | 65.00 | Meter |  |  |  |
| 6.03 | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                            | 35.00 | Meter |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |       |  |  |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 6.04  | 2 X 6 sq. mm ± 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15.00 | Meter |  |  |  |
| 7     | Supplying and fixing batten/ angle holder including connection etc. as required. Make :-Anchor (Roma classic)<br>(L.&T(Enicee),Legrand(Myrius) or its equivalent as approved by Engineer-in-charge                                                                                                                                                                                                                                                                                                                                       | 4.00  | Each  |  |  |  |
| 8     | Supplying and fixing Ding Dong bell suitable for single phase, 230 V, complete as required. Make :-Anchor (Roma classic)<br>(L.&T(Enicee),Legrand(Myrius) or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                           | 3.00  | Each  |  |  |  |
| 9     | Providing and fixing of following type surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion > 15% and efficiency > 100 Lumens per watt .CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as: Make Philips, Panasonic jaguar or its equivalent as approved by Engineer-in -charge.( Five year warranty) |       |       |  |  |  |
| 9.01  | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7.00  | Each  |  |  |  |
| 10    | Providing, Installation, testing and commissioning of ceiling fan, 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 fan box ,phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha(TECHNIX PLUS) Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.                                                                                  |       |       |  |  |  |
| 10.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.00  | Each  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |      |  |  |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|--|
| 11    | 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. Make :- Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in-charge.                                                                                                                                                     | 6.00 | Each |  |  |  |
| 12    | Supplying and fixing of following watts recess round type LED downlight, 6000k, and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty) |      |      |  |  |  |
| 12.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.00 | Each |  |  |  |
| 13    | 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 busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge                                                                  |      |      |  |  |  |
| 13.01 | MCB DB 6 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.00 | Each |  |  |  |
| 13.02 | MCB DB 8 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.00 | Each |  |  |  |
| 14    | Supplying and fixing 5 amps to 32 amps, 240/415 volts, 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. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in-charge.                                                                                                                    |      |      |  |  |  |

|         |                                                                                                                                                                                                                                                                                      |        |       |  |  |  |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--|--|--|
| 14.01   | single pole                                                                                                                                                                                                                                                                          | 9.00   | Each  |  |  |  |
| 15      | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:- Make L&T, Hager, ABB or its equivalent as approved by Engineer-in-charge. | 2.00   | Each  |  |  |  |
| 16      | 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. Diplast/BEC/Polyfit or its equivalent as approved by Engineer-in-charge.   |        |       |  |  |  |
| 16.01   | 25 mm                                                                                                                                                                                                                                                                                | 150.00 | Meter |  |  |  |
| 17      | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required. Make:- Polycab, Finolex, D-Link or its equivalent as approved by Engineer-in-charge.                                                                            | 95.00  | Meter |  |  |  |
| Total:- |                                                                                                                                                                                                                                                                                      |        |       |  |  |  |

Note:- The credit of dismantled material for Rs.4510/- (Rs.Four thousand five hundred ten) only may be recover in the bill.

  
Executive Engineer,  
Electrical Division,  
HP.PWD., Una.

**SCHEDULE OF QUANTITY**

**Job No. 13**

Estimated Cost:- Rs. 2,59,897/-

Earnest Money:- Rs. 5,200/-

Time Limit:- Six Months.

**Name of work :- Replacement of E.I. In the Office of the Suprintending Engineer Campus 10th Circle HP PWD Bilaspur H.P. ( Division No-& Circle Drawing Branch)**

| Sr. No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Unit | Rate In Fig. | Rate In Words. | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------------|----------------|--------|
| 1       | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- Anchor (Roma classic ),L&T(Entice),Legrand (Myrius) or its equivalent as approved by Engineer-in -charge. |          |      |              |                |        |
| 1.01    | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 32.00    | Each |              |                |        |
| 2       | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45) with shutter including connections etc as required. Make :-Anchor (Roma classic ),L&T(Entice),Legrand (Myrius) or its equivalent as approved by Engineer-in -charge.                                    | 14.00    | Each |              |                |        |
| 3       | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ),L&T (Entice), Legrand(Myrius) or as approved by Engineer-in -charge.                                                                                                                        | 6.00     | Each |              |                |        |

|      |                                                                                                                                                                                                                                                                                                                                                   |        |       |  |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--|--|--|
| 4    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or as approved by Engineer-in -charge. | 17.00  | Each  |  |  |  |
| 5    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                               |        |       |  |  |  |
| 5.01 | Bell push                                                                                                                                                                                                                                                                                                                                         | 14.00  | Each  |  |  |  |
| 6    | Wiring for circuit/submain wiring along with earthing with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. Make:-Plaza,KEI,Finolex or its equivalent as approved by Engineer-in -charge.                                                                              |        |       |  |  |  |
| 6.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                        | 50.00  | Meter |  |  |  |
| 6.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                            | 110.00 | Meter |  |  |  |
| 6.03 | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                            | 70.00  | Meter |  |  |  |
| 6.04 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                            | 16.00  | Meter |  |  |  |
| 7    | Supplying and fixing batten/ angle holder including connection etc. as required. Make :-Anchor (Roma classic ),L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge                                                                                                                                                  | 2.00   | Each  |  |  |  |
| 8    | Supplying and fixing Ding Dong bell suitable for single phase, 230 V, complete as required Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                        | 4.00   | Each  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |      |  |  |  |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|
| 9     | Providing and fixing of following type surface mounted Luminaire LED batten having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >0.9, Harmonic Distortion <15% and efficiency >100 Lumens per watt, CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as Make Philips, Panasonic, Jaquar or its equivalent as approved by Engineer-in-charge (Five year warranty) |       |      |  |  |  |  |
| 9.01  | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17.00 | Each |  |  |  |  |
| 10    | 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. Make :-Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                                                                                 | 9.00  | Each |  |  |  |  |
| 11    | 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 busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge                                                                                                                                             |       |      |  |  |  |  |
| 11.01 | MCB DB 16 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.00  | Each |  |  |  |  |
| 12    | Supplying and fixing 5 amps to 32 amps, 240/415 volts, 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. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in-charge.                                                                                                                                                                                               |       |      |  |  |  |  |
| 12.01 | single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12.00 | Each |  |  |  |  |
| 13    | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required. - Make L&T, Hager, ABB or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                                                                                                | 1.00  | Each |  |  |  |  |

|         |                                                                                                                                                                                                                                                                                   |        |       |  |  |  |  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--|--|--|--|
| 14      | 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 Diplast/BEC/Polyfit or its equivalent as approved by Engineer-in-charge. |        |       |  |  |  |  |
| 14.01   | 25 mm                                                                                                                                                                                                                                                                             | 90.00  | Meter |  |  |  |  |
| 15      | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required. Make:- Polycab, Finolex, D-Link or its equivalent as approved by Engineer-in-charge.                                                                         | 100.00 | Meter |  |  |  |  |
| Total:- |                                                                                                                                                                                                                                                                                   |        |       |  |  |  |  |

Note:- The credit of dismantled material for Rs.1897/- (Rs. One thousand eight hundred ninety seven only) may be recover in the bill.

  
Executive Engineer,  
Electrical Division,  
HP.PWD., Una.

# SCHEDULE OF QUANTITY

Job No. 14

Estimated Cost:- Rs. 2,63,437/-  
Earnest Money:- Rs. 5,300/-  
Time Limit:- Six Months.

Name of work :- Replacement of E.I. In the office of the Suprintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.( Division No-1)

| Sr. No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quantity | Unit | Rate | In Fig. | Rate In Words. | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|---------|----------------|--------|
| 1       | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in-charge. |          |      |      |         |                |        |
| 1.01    | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37.00    | Each |      |         |                |        |
| 2       | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches . G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box . one no computer jack (RJ-45)with shutter including connections etc as required.Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                    | 7.00     | Each |      |         |                |        |
| 3       | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.Make :-Anchor (Roma classic ),L&T(Entice),Legrand(Myrius) or as approved by Engineer-in -charge.                                                                                                                        | 5.00     | Each |      |         |                |        |

|      |                                                                                                                                                                                                                                                                                                                                                  |       |       |  |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 4    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or as approved by Engineer-in -charge. | 13.00 | Each  |  |  |  |
| 5    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                              |       |       |  |  |  |
| 5.01 | Bell push                                                                                                                                                                                                                                                                                                                                        | 7.00  | Each  |  |  |  |
| 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 PVC conduit as required. Make:-Plaza,KEL,Finolex or its equivalent as approved by Engineer-in -charge.                                                                            |       |       |  |  |  |
| 6.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                       | 55.00 | Meter |  |  |  |
| 6.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                           | 60.00 | Meter |  |  |  |
| 6.03 | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                           | 35.00 | Meter |  |  |  |
| 6.04 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                           | 50.00 | Meter |  |  |  |
| 7    | Supplying and fixing batten/ angle holder including connection etc. as required. Make :-Anchor (Roma classic ), L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge                                                                                                                                                 | 5.00  | Each  |  |  |  |
| 8    | Supplying and fixing Ding Dong bell suitable for single phase, 230 V, complete as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                       | 4.00  | Each  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |  |  |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|--|
| 9     | Providing and fixing of following type surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >0.9, Harmonic Distortion <15% and efficiency >100 Lumens per watt .CRP >80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as: Make Philips, Panasonic jaquar or its equivalent as approved by Engineer-in-charge.( Five year warranty) |      |      |  |  |  |
| 9.01  | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7.00 | Each |  |  |  |
| 10    | Providing- Installation, testing and commissioning of ceiling fan, 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 fan box ,phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha/TECHNIX PLUS/Bajaj-Crompton or its equivalent as approved by Engineer-in-charge.                                                                                  |      |      |  |  |  |
| 10.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.00 | Each |  |  |  |
| 11    | 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. Make :-Anchor (Roma classic ).L&T(Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                                                                                    | 8.00 | Each |  |  |  |
| 12    | Supplying and fixing of following watts recess round type LED downlight ,6000k , and it should be compatible with specification e.i. Power Factor >0.9, Harmonic Distortion <10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge.( Five year warranty)                                                                              |      |      |  |  |  |
| 12.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4.00 | Each |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |  |  |  |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|
| 13    | Supplying and fixing of following watts surface round type LED downlight 6000K , and it should be compatible with specification c.i. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro, Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty) |       |      |  |  |  |  |
| 13.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9.00  | Each |  |  |  |  |
| 14    | 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 busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge                                                                     |       |      |  |  |  |  |
| 14.01 | MCB DB 12 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.00  | Each |  |  |  |  |
| 14.02 | MCB DB 16 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.00  | Each |  |  |  |  |
| 15    | Supplying and fixing 5 amps to 32 amps , 240/415 volts, 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. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in-charge.                                                                                                                      |       |      |  |  |  |  |
| 15.01 | single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 37.00 | Each |  |  |  |  |
| 16    | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required. Make L&T, Hager, ABB or its equivalent as approved by Engineer-in-charge.                                                                                                                                                                          | 4.00  | Each |  |  |  |  |

|         |                                                                                                                                                                                                                                                                                     |        |       |  |  |  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--|--|--|
| 17      | 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. Diplast/BEC/Polylin. or its equivalent as approved by Engineer-in-charge. |        |       |  |  |  |
| 17.01   | 25 mm                                                                                                                                                                                                                                                                               | 100.00 | Meter |  |  |  |
| 18      | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required. Make:- Polycab, Finolex, D-Link or its equivalent as approved by Engineer-in-charge.                                                                           | 110.00 | Meter |  |  |  |
| Total:- |                                                                                                                                                                                                                                                                                     |        |       |  |  |  |

Note:- The credit of dismantalled material for Rs. 3437/- (Rs. Three thousand four hundred thirty seven ) only may be recover in the bill.1

  
Executive Engineer,  
Electrical Division,  
HP.PWD.,Una.

# SCHEDULE OF QUANTITY

Job No. 15

Estimated Cost:- Rs. 2,99,931/-  
Earnest Money:- Rs. 6,000/-  
Time Limit:- Six Months.

| Name of work :- Replacement of E.I. In the office of the Suprintending Engineer Campus 10th Circle HP PWD Bilaspur H.P.(1st Floor) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |              |                |        |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------------|----------------|--------|
| Sr. No.                                                                                                                            | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Unit | Rate In Fig. | Rate In Words. | Amount |
| 1                                                                                                                                  | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :-Anchor (Roma classic ),L&T(Entice),Legrand (Myrius) or its equivalent as approved by Engineer-in -charge. |          |      |              |                |        |
| 1.01                                                                                                                               | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 65.00    | Each |              |                |        |
| 2                                                                                                                                  | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45)with shutter including connections etc as required.Make :-Anchor (Roma classic ),L&T (Entice), Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                     | 21.00    | Each |              |                |        |
| 3                                                                                                                                  | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.Make :-Anchor (Roma classic ),L&T(Entice), Legrand(Myrius) or as approved by Engineer-in -charge.                                                                                                                          | 7.00     | Each |              |                |        |

|      |                                                                                                                                                                                                                                                                                                                                                  |       |       |  |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 4    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess. including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or as approved by Engineer-in -charge. | 20.00 | Each  |  |  |  |
| 5    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                              |       |       |  |  |  |
| i    | Bell push                                                                                                                                                                                                                                                                                                                                        | 19.00 | Each  |  |  |  |
| 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 PVC conduit as required. Make:-Plaza,KEL,Finolex or its equivalent as approved by Engineer-in -charge.                                                                            |       |       |  |  |  |
| 6.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                       | 15.00 | Meter |  |  |  |
| 6.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                           | 25.00 | Meter |  |  |  |
| 6.03 | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                           | 10.00 | Meter |  |  |  |
| 6.04 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                           | 5.00  | Meter |  |  |  |
| 7    | Supplying and fixing batten/ angle holder including connection etc. as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                  | 10.00 | Each  |  |  |  |
| 8    | Supplying and fixing Ding Dong bell suitable for single phase, 230 V, complete as required. Make :-Anchor (Roma classic )L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                       | 2.00  | Each  |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |      |  |  |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|
| 9     | Providing and fixing of following type surface mounted Luminaire LED halten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >9, Harmonic Distortion >15% and efficiency >100 lumens per watt ,CRI >80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as: Make Philips, Panasonic jaguar or its equivalent as approved by Engineer-in -charge. ( Five year warranty) |       |      |  |  |  |
| 9.01  | 10 watt ( Mirror Light)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.00  | Each |  |  |  |
| 9.02  | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19.00 | Each |  |  |  |
| 10    | Providing, Installation, testing and commissioning of ceiling fan, 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 fan box ,phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating. Make:- Usha(TECHNIX PLUS)Bajaj,Crompton or its equivalent as approved by Engineer-in -charge.                                                                                 |       |      |  |  |  |
| 10.01 | Ceiling Fan 1200 mm sweep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6.00  | Each |  |  |  |
| 11    | 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. Make :-Anchor (Roma classic ),L&T(Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                                                  | 14.00 | Each |  |  |  |
| 12    | Providing and installation exhaust fan of 300 mm light duty (Domestic type) 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 : Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                                | 3.00  | Each |  |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |      |  |  |  |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--|--|--|--|
| 13    | Supplying and fixing of following watts recess round type LED downlight .6000k , and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt. suitable for input voltage: AC 220-240 V. 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. ( Five year warranty )  |       |      |  |  |  |  |
| 13.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 21.00 | Each |  |  |  |  |
| 14    | Supplying and fixing of following watts surface round type LED downlight .6000k , and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt. suitable for input voltage: AC 220-240 V. 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in-charge. ( Five year warranty ) |       |      |  |  |  |  |
| 14.01 | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.00  | Each |  |  |  |  |
| 15    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V. on surface/recess, complete with timed copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge                                                                       |       |      |  |  |  |  |
| 15.01 | MCB DB 12 WAY                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.00  | Each |  |  |  |  |
| 16    | Supplying and fixing 5 amps to 32 amps , 240/415 volts, 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. ) Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in-charge.                                                                                                                     |       |      |  |  |  |  |
| 16.01 | single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4.00  | Each |  |  |  |  |

|         |                                                                                                                                                                                                                                                                                     |       |       |  |  |  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--|--|--|
| 17      | Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:-Make L&T, Hager,ABB or its equivalent as approved by Engineer-in -charge. | 4.00  | Each  |  |  |  |
| 18      | 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.Diplast/BEC/Polyfit or its equivalent as approved by Engineer-in -charge.  |       |       |  |  |  |
| 18.01   | 25 mm                                                                                                                                                                                                                                                                               | 30.00 | Meter |  |  |  |
| Total:- |                                                                                                                                                                                                                                                                                     |       |       |  |  |  |

Note:- The credit of dismantalled material for Rs. 931/- (Rs.Nine hundred thirty one)only may be recover in the bill.]

  
Executive Engineer,  
Electrical Division,  
HP.PWD.,Una.

# SCHEDULE OF QUANTITY

Job No. 16

Estimated Cost:- Rs. 2,95,036/-  
Earnest Money:- Rs. 5,900/-  
Time Limit:- Six Months.

| Name of work :- Replacement of E.I. In Toilet Blocks of Regional Hospital Building at Bilaspur Distt. Bilaspur H.P. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |       |              |                |        |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|----------------|--------|
| Sr. No.                                                                                                             | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Unit  | Rate In Fig. | Rate In words. | Amount |
| 1                                                                                                                   | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- Anchor (Roma classic ), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in -charge. |          |       |              |                |        |
| 1.01                                                                                                                | Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 63       | Each  |              |                |        |
| 2                                                                                                                   | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch. connection etc. as required. Make :- Anchor (Roma classic ), L&T (Entice), Legrand (Myrius) or as approved by Engineer-in -charge.                                                                                                                 | 4        | Each  |              |                |        |
| 3                                                                                                                   | Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. Make :- Plaza, KEL, Finolex or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                             |          |       |              |                |        |
| 3.01                                                                                                                | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                             | 54       | Meter |              |                |        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |       |  |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|--|--|--|
| 3.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 28 | Meter |  |  |  |
| 3.03 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 42 | Meter |  |  |  |
| 4    | Supplying and fixing batten/ angle holder including connection etc. as required Make :-Anchor (Roma classic ).L&T(F-nice).L.egrand(Myrius) or its equivalent as approved by Er-In-Charge                                                                                                                                                                                                                                                                                                                                        | 34 | Each  |  |  |  |
| 5    | Providing and fixing of following type surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification :c. Power Factor > 9, Harmonic Distortion>15% and efficiency>100lumens per watt ,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60Hz. complete with all accessories, connections, testing and commissioning etc as:Make Philips, Panasonic jaqar or its equivalent as approved by Engineer-in -charge.( Five year warranty) |    |       |  |  |  |
| 5.01 | 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7  | Each  |  |  |  |
| 6    | Providing and 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.- Make:- Usha(Model Mist 25 litre).Bajaj,Recold or its equivalent as approved by Er-in-charge                                                                                                                                   | 4  | Each  |  |  |  |
| 7    | Providing and installation exhaust fan of 300 mm light duty (Domestic type) 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 : Usha,Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.                                                                                                                                                                                            | 22 | Each  |  |  |  |

|         |                                                                                                                                                                                                                                                                                                                                                                                         |    |      |  |  |  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|--|--|--|
| 8       | 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 busbar, earth bar, din bar, inter connections, powder painted including earthing etc, as required (But without MCB/R(CB/isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-in-Charge |    |      |  |  |  |
| 8.01    | MCBDB 6 WAY                                                                                                                                                                                                                                                                                                                                                                             | 6  | Each |  |  |  |
| 9       | Supplying and fixing 5 amps to 32 amps, 240/415 volts, 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. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in-charge.                                                  |    |      |  |  |  |
| 9.01    | Single pole                                                                                                                                                                                                                                                                                                                                                                             | 12 | Each |  |  |  |
| 10      | Supplying and erection of 40/50/63 amps, 10 kA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc, as required. Make L&T, Hager, ABB or its equivalent as approved by Engineer-in-charge.                                                                                                     | 6  | Each |  |  |  |
| 11      | Supplying and fixing LED Lamp 9 watts E-27 base in the existing batten holder/pendent holder. Make:- Philips, Wipro.                                                                                                                                                                                                                                                                    | 34 | Each |  |  |  |
| Total:- |                                                                                                                                                                                                                                                                                                                                                                                         |    |      |  |  |  |

Note:- The credit of dismantled material for Rs.1036- (Rs. One thousand thirty six) only may be recover in the bill.

  
Executive Engineer,  
Electrical Division,  
HP.PWD., Una.

**SCHEDULE OF QUANTITY**

**Job No. 17**

Estimated Cost:- Rs. 2,70,613/-

Earnest Money:- Rs. 5,400/-

Time Limit:- Six Months.

Name of work :- C/O Ware House for Storage of Electronic Voting Machine at Bilaspur Distt. Bilaspur (H.P.) (SH:- Balance work of fire fighting system therein).

| Sr. No.  | Description                                                                                                                                                                                                                                                                 | Quantity | Rate In Fig. | Rate In Words. | Unit    | Amount |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|---------|--------|
| 1        | Providing, Laying, jointing and testing in following sizes of MS class "C" (heavy class ) pipes Confirming to IS: 1239/3589 with accessories like fittings including tees, elbows, resucers , Flanges gasket , g.I. nuts , bolts complete with all accessories as required. |          |              |                |         |        |
| 1.01     | 100 mm. dia                                                                                                                                                                                                                                                                 | 76.00    |              |                | P/Rmtr. |        |
| 2        | Providing Cast iron/steel Foot Valve Confirming to type P.N. 1.6 of I.S. 13095-1991 Complete with Flanges bolts, nuts gasket etc. as per table "E" specification complete in all respect Hydraulically test to 20 K./sqcm. Make SANT/ZOLOTO,LEADER.                         |          |              |                |         |        |
| 2.01     | 150 mm. dia                                                                                                                                                                                                                                                                 | 1.00     |              |                | Each    |        |
| 3        | Providing and fixing angle sport for MS iron Line pipe on Boundary wall, size 32x5                                                                                                                                                                                          | 92.00    |              |                | P/Kg.   |        |
| 4        | Providing and freilling of high speed Diesel in Diesel Engine.                                                                                                                                                                                                              | 100.00   |              |                | P/Litr. |        |
| Total :- |                                                                                                                                                                                                                                                                             |          |              |                |         |        |

  
**Executive Engineer,**  
**Electrical Division,**  
**HPPWD., Una.**

# SCHEDULE OF QUANTITY

Job No. 18

Estimated Cost:- Rs. 2,54,952/-

Earnest Money:- Rs. 5,100/-

Time Limit:- One year.

NAME OF WORK:- C/O One Stop Centr in Tehsil and Distt. Bilaspur (H.P.) (SH:- Providing E.I. therein )

| Sr. No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate in Fig. | Rate in Words. | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|------|--------|
| 1       | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :-Anchor (Roma classic),L&T(Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge. |          |              |                |      |        |
| 1.01    | Group C.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54.00    |              |                | Each |        |
| 2       | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :-Anchor (Roma classic ),L&T(Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge.                                    | 2.00     |              |                | Each |        |
| 3       | Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. Make :-Anchor (Roma classic),L&T(Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge.                                                                                                                                                                                                                |          |              |                |      |        |
| 3.01    | S.P. 5/ 6 Amps one way Modular switch.                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6.00     |              |                | Each |        |
| 3.02    | 5 pin, 5/ 6 Amps Modular socket outlet.                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.00     |              |                | Each |        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |  |  |       |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|-------|--|
| 4    | Supplying and fixing G.I. Modular box (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5pin 5/6amp modular socket outlet and 5/6Amp, modular switch connections etc. as required. Make :-Anchor (Roma classic ), L&T(Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge.                                                                                       | 11.00 |  |  | Each  |  |
| 5    | Supplying and fixing G.I. Modular box (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6pin 15/16amp modular socket outlet and 15/16Amp, modular switch connections etc. as required. Make :-Anchor (Roma classic ), L&T(Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge.                                                                                   | 8.00  |  |  | Each  |  |
| 6    | Supplying and fixing Computer board comprising 3 nos 5 amp modular switches, metal box 2 module for jack box and metal box 200 mmx150 mmx75 mm for 5 amp switches and 5amp sockets comprising sheet cover for each 2module metal box, one no computer jack (RJ-45)with shutter including connections etc as required Make :-Anchor (Roma classic ),L&T(Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge. | 3.00  |  |  | Each  |  |
| 7    | Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make:- KEI, Anchor, Polycab, Plaza as approved by Engineer -in-charge.                                          |       |  |  |       |  |
| 7.01 | 2x1.5 Sq. mm.                                                                                                                                                                                                                                                                                                                                                                                                                   | 60.00 |  |  | Meter |  |
| 7.02 | 2x4 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                      | 60.00 |  |  | Meter |  |
| 7.03 | 2x10 sq. mm.                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.00 |  |  | Meter |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |  |  |  |       |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|--|-------|--|
| 8    | 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. Make:- KEL Anchor, Polycab, Plaza as approved by Engineer-in-charge.                                                                                                                                                                                                        |       |  |  |  |       |  |
| 8.01 | 3x1.5 sq. mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40.00 |  |  |  | Meter |  |
| 8.02 | 3x4 sq. mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 65.00 |  |  |  | Meter |  |
| 9    | Providing installation testing and commissioning of ceiling fan with step size socket size 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:- Usha Technix plus, BEE, Crompton H.S. 5 star Plus or its equivalent not less than three star rating as approved by Engineer-in-Charge. |       |  |  |  |       |  |
| 9.01 | ceiling fan 1200 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10.00 |  |  |  | Each  |  |
| 10   | Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM 1125 Air Delivery Ex fan on the existing opening including making the hole to suit the size of above fan making good the damages complete with connections, testing and commissioning etc. as required. Make - Bajaj (code:- 70062), Crompton, philips or its equivalent as approved by Engineer-in-Charge.                                                                                                     | 4.00  |  |  |  | Each  |  |
| 11   | Supplying and fixing Aluminium batten LED 24 watt, 6000k, (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:-Jaquar (Cat No LGLZ01X024XN / Philips, Panasonic or its equivalent as approved by Engineer-in-Charge.                                   | 16.00 |  |  |  | Each  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |  |  |      |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|--|------|--|
| 12 | Supplying and fixing Aluminium batten LED 10 watt, 6000k, (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:- Jaquar/Philips, Panasonnic or its equivalent as approved by Engineer-in-Charge.                       | 3.00 |  |  | Each |  |
| 13 | Supplying and fixing Square LED Recess type 20 watt, 6000k, (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:- Panasonic (Model -PPAM 12206BS)/Philips, wipro or its equivalent as approved by Engineer-in-Charge. | 1.00 |  |  | Each |  |
| 14 | Supplying and fixing of bulk head fitting LED 10 watt 6500k, (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make -Panasonic (Model PBHM01107)/PHILIPS/wipro as approved by Engineer-in-Charge.                        | 4.00 |  |  | Each |  |
| 15 | Supplying and fixing surfaceSquare type LED 15 watt, 6000k, (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:- Panasonic (Model - PDLM10156BR)/Philips, wipro or its equivalent as approved by Engineer-in-Charge. | 4.00 |  |  | Each |  |
| 16 | Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.                                                                                                                                                                                                                                                                                                                                                             | 4.00 |  |  | Each |  |
| 17 | 1.58 Supplying and fixing PVC batten/ angle holder including connection etc. as required.                                                                                                                                                                                                                                                                                                                                                                   | 6.00 |  |  | Each |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |  |  |      |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|------|--|
| 18    | Providing and installation of following type of LED retrofit Lamp B-22 holder base with polycarbonate diffuser and aluminium heat sink including connections, testing and commissioning etc. as required. Make TISVA, wipro, Philips or its equivalent as approved by Engineer-in-Charge.                                                                                                                                                     | 6.00  |  |  | Each |  |
| 19    | Supplying and erection of 5 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:-Make L&T Legrand, Hegggar as approved by Engineer-in-charge.                                                                                                                                                            | 14.00 |  |  | Each |  |
| 20    | Supplying and erection of 40/50/63 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:-Make L&T Legrand, Hegggar as approved by Engineer-in-charge.                                                                                                                                                                  | 1.00  |  |  | Each |  |
| 21    | Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make L&T Legrand, Hegggar as approved by Engineer-in-charge.                                                                                                 |       |  |  |      |  |
| 21.01 | 63 Amps.                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.00  |  |  | Each |  |
| 22    | 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:-Make L&T Legrand, Hegggar as approved by Engineer-in-charge. |       |  |  |      |  |
| 22.01 | Double door-8 way                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.00  |  |  | Each |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |  |  |       |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|-------|--|
| 22.02 | Double door-12 way                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.00  |  |  | Each  |  |
| 23    | Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including curing the wall and making good the same in case of recessed conduit as required. Make:- Diplast/BEC/Poy Fit.                                                                                                                                                                                                                                                                                                                 |       |  |  |       |  |
| 23.01 | 25 mm. dia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35.00 |  |  | Meter |  |
| 24    | Providing and installation of stationary storage type Electric water heater (Geyser) of 25 Liter capacity by means of Expansion-bolts with nuts and washers, including embedding of expansionbolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:- Make:- Racold, Jaquar, Usha. Bajaj minimum 3- star rating. as approved by Engineer-in-charge. | 2.00  |  |  | Each  |  |
| 25    | Supplying and drawing Lan cable Cat -6 solid copper conductor 4 pair protected with PVC Sheathed in existing surface /recessed steel/PVC Conduit as required. Make:- Polycab, Finolex, D-link.                                                                                                                                                                                                                                                                                                                                                | 45.00 |  |  | Meter |  |
| 26    | Supplying and fixing D- link DGS-1100-08 (8 Port) 8 10/100/1000 ports EasyL2 switch standalone switch in desk top (green ethernet) for getting blazing speed of Gigabit Ethernet L2 switch that delivers power performance and reliability i.e increasing the speed of net work server in large in switching protocol storing and forwarding as required .Make:- D-Link.                                                                                                                                                                      | 1.00  |  |  | Each  |  |
| 27    | Supplying and fixing true power make advanced earthing system having Gi pipe 3 meter long 50 mm dia with terminal size 50x6 mm ,internal strip size 25x2 with 50 Kg compound including exavation of pit and refilling the same and making earthing pit cover 13 inch dia as required complete in all respect. make :-True power Earth plus, Ashloka or its equivalent as per best satisfaction of Engineer-in-charge.                                                                                                                         | 1.00  |  |  | P/Set |  |

|         |                                                                                                                                              |       |  |  |       |  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|-------|--|
| 28      | Supplying and laying 6 SWG G.L. wire at 0.50 mtr. below ground level<br>for earth electrode conductor, including soldering etc. as required. | 15.00 |  |  | Meter |  |
| Total:- |                                                                                                                                              |       |  |  |       |  |

  
 Executive Engineer,  
 Electrical Division,  
 HPPWD.,Una