

HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT

No.PW.-ESD. (MC)/Tender/ 2026 -27 320-22  
To

Dated:- 3/7/26

✓ The Executive Engineer(IT),  
Nirman Bhawan, HPPWD,  
Shimla-2.

Subject: - Publication of Tender Notice.

Jai Hind

Please find enclosed herewith the tender notice of works as given in the notice inviting tender for uploading on department website as per Notification vide Pr. Secy.(PW) to the govt. of Himachal Pradesh letter No. PBW(B)1/2020 dated 27<sup>th</sup> May,2021 and PBW(B)A(3)1/2020 dated 16<sup>th</sup> July, 2021 and even file dated 12.01.2023 as the works mentioned in the tender notice is (are) urgent in nature and in public interest.

  
Assistant Engineer,  
M.C. Elect. Sub-Division,  
HPPWD, Snowdon Shimla.

Copy forwarded for information and further necessary action to:-

1. The Executive Engineer, Electrical Division No-II, HPPWD, Shimla-1.
2. Computer Cell O/O the Executive Engineer (IT Cell), Nirman Bhawan, Nigam Vihar, Shimla-2.

1  
Assistant Engineer,  
M.C. Elect. Sub-Division,  
HPPWD, Snowdon Shimla.

**CERTIFICATE: -**

**IT IS CERTIFIED THAT THE TENDER FOR ABOVE WORK IS URGENTLY  
REQUIRED IN PUBLIC INTEREST.**

  
Assistant Engineer  
Electrical Sub Division  
H.P.W.D., Snowden,  
Shimla-171001 (H.P.)

**HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT**

**NOTICE INVITING TENDER'**

Sealed Percentage rate tender on the prescribed form, terms and conditions mentioned in form- 6 & 7 ,8 are hereby invited for the following works by the undersigned from the approved firms/contractors, so as to reach in the office of the undersigned (i)Tender documents consisting of plans classes of work to be done and set of terms and conditions of contract to be complied with by the contractor/firms whose tender may be accepted and other necessary documents can be seen in the office of the Assistant Engineer between hours of 11.00 AM to 4.00 PM except on Sundays and public holidays. (2) The contractor who are not registered under HP general sale tax Act, 1968 and have not cleared all the dues on account of sale tax shall not be issued the tender documents. (3) The contractor who has no registration certificate with Excise and taxation department of HP will not be issued the tender documents (4) Tenders placed in sealed envelope with name of work and due date written on the envelope will be received by the undersigned and will be opened by him or his authorized representative in his office in the presence of contractors, present if any. (5)The earnest money in the shape of NSC/Time deposit account /saving account in any of the post offices of HP duly pledged in favour of undersigned must accompany with the tender in the separate envelope. The tenders without earnest money will summarily be rejected. (6)) In case of holiday, the tenders shall be received and opened on the next working day.(7)Tenders of contractors who quote two or more than two rates for any item of work shall be rejected. (8) 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.

- (i) Last date of issue of tender documents: - 13.7.2026 Up to 5.00 P.M  
(ii) Last date of receipt of bids: 13.7.2026 Up to 10.30 A.M  
(iii) Date of bid opening: 14.7.2026 AT 11.30 A.M

| S. N. | Name of work                                                                                                                                                  | Estimated cost  | Earnest money | Time    | Eligible class of registration |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|---------|--------------------------------|
| 1.    | Providing MCB, DB for Fan coil units in 2 <sup>nd</sup> , 3 <sup>rd</sup> & 4 <sup>th</sup> Floor of cancer hospital building IGMC Shimla.                    | Rs.99,217/-only | Rs.2000/-only | 2 weeks | C & D                          |
| 2.    | Replacement of Damaged MCP's at AIMSS Chamiana Shimla-12                                                                                                      | Rs.99,500/-only | Rs.2000/-only | 1 Month | Specialized Job                |
| 3.    | Providing control wiring for FCU in 2 <sup>nd</sup> , 3 <sup>rd</sup> & 4 <sup>th</sup> Floor of cancer hospital building IGMC Shimla.                        | Rs.99,830/-only | Rs.2000/-only | 2 weeks | C & D                          |
| 4.    | Providing repair and replacement of Chiller controller, electrical components and allied works for 15 Ton chiller unit installed at Block-A, IGMC Shimla H.P. | Rs.88,090/-only | Rs.2000/-only | 1 Month | Specialized Job                |

|    |                                                                                                                                                                                                                                                                     |                 |               |         |                 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|---------|-----------------|
| 5. | Providing Replacement of Damaged wiring, Switches, Socket, Outlets, LED Fittings and Allied Electrical Works in Set No.8, Type-II, Driver Block, Dhalli Shimla-12                                                                                                   | Rs.62,937/-only | Rs.1500/-only | 1 Month | C & D           |
| 6. | Providing renovation/ up gradation of internal E. I. I/C wiring, switches, socket Outlets, MCB DBs and exhaust fan in Set No. 04,05 Block-C, Set No.-02,03 Block-A at Hollyoak, Mashobra view set No.01 & 02 at Shimla-171001 (HP)                                  | Rs.99,909/-only | Rs.2000/-only | 1 Month | C & D           |
| 7  | Repair, servicing, Gas charging, Leakage rectification, Dismantling/Re-installation and allied Maintenance of Split, Cassette and VRV Type Air conditioning System installed at Emergency Lab, KNH, VVIP Special Ward and Ultrasound Room Block-C at IGMC Shimla HP | Rs.60,000/-only | Rs.1200/-only | 1 Month | Specialized Job |
| 8  | Providing additional electrical installation and internal electrification in ward Nos 3 & 4, doctor duty room, sister duty room, plant room, 2 <sup>nd</sup> floor corridor due to re-organization/renovation of facilities at IGMC Shimla 171001 HP.               | Rs.97,869/-only | Rs.2000/-only | 1 Month | C & D           |

-sd-  
Assistant Engineer,  
Electrical Sub-Division.  
HPPWD, Snowdon

No.PW.-ESD. (MC)/Tender/ 2026 -27-

309-19

Dated:- 3/7/26.

Copy forwarded for information to the following:-

1. The Executive Engineer, Elect. Division No.II, HPPWD Shimla-1.
2. All the JE's under this Sub. Divn.
3. The Income tax Officer, Shimla
4. All the approved contractors/firms/President Contrs./Association.
- ✓ 5. Notice Board.

  
Assistant Engineer,  
Electrical Sub-Division.  
HPPWD, Snowdon

## SCHEDULE OF QUANTITY

Estimated Cost:-Rs99,217/-Only ✓

Earnest Money:-Rs2000/-Only ✓

Time:- Two weeks ✓

Name of work : - Providing MCB , DB for fan coil units in 2nd, 3rd & 4th Floor of Cancer hospital building IGMC Shimla.

| S.No.        | Description of Items                                                                                                                                                                                                                                                                                                                                                               | Qty. | Unit | Rate       |                                               | Amount       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|-----------------------------------------------|--------------|
|              |                                                                                                                                                                                                                                                                                                                                                                                    |      |      | In Figures | In Words                                      |              |
| 1            | 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:- |      |      |            |                                               | 0            |
| 1.01         | Two way Single Door                                                                                                                                                                                                                                                                                                                                                                | 47   | each | 976        | Rs. Nine Hundred Seventy Six only             | 45872        |
| 2            | Supplying and fixing following rating, followings poles 10ka/240/415v 'C' curves miniature circuit breaker MCB DP suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                                                                     |      |      |            |                                               |              |
| 2.01         | 6A to 32 A MCB Double Pole                                                                                                                                                                                                                                                                                                                                                         | 47   | each | 1135       | Rs. One Thousand One Hundred Thirty Five only | 53345        |
| <b>Total</b> |                                                                                                                                                                                                                                                                                                                                                                                    |      |      |            |                                               | <b>99217</b> |

  
Assistant Engineer  
M.C. Elect. Sub Division  
HPPWD, Snowdon, Shir

*Draft schedule of quantity approved for Rs 99217/-  
(As Ninety Nine Thousand Two Hundred Seventeen only)*

  
Executive Engineer,  
Electrical Division No.-II,  
HP PWD (U.S. Club) Shimla-1

# DRAFT SCHEDULE OF QUANTITY

Estimated Cost:-99500/-

Earnest Money:-2000/-

Time :- 1 Month

Name of Work:- Replacement of damaged MCP's at AIMSS Chamiana Shimla-12 (H.P)

| S.No  | Description of items                                                                                                                                                                                                                                                                                   | Qty. | Unit | Rates      |                                     | Amount |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|-------------------------------------|--------|
|       |                                                                                                                                                                                                                                                                                                        |      |      | In figures | In words                            |        |
| 1     | Supplying, installation, testing & commissioning of dual action addressable manual call point semi flush mounted with built in bi colour LED designed for 24 V DC with alarm current 5ma tempeprature range from 0 to 49 c with braille text on handle complete as required.Honeywell model no NBG12LX | 15   | NO   | 6400.00    | ₹ Six Thousand Four Hundred only.   | 96000  |
| 2     | Welding of sprinkler line up to 3 metres as seggregated length in different locations , of sizes 19 mm, 25 mm, and 150 mm diameter, including cutting, alignment and welding with gas cutter/welding machine, complete in all respect as required.                                                     |      | NO   | 3500.00    | ₹ Three Thousand Five Hundred only. | 3500   |
| Total |                                                                                                                                                                                                                                                                                                        |      |      |            |                                     | 99500  |

Assistant Engineer  
Electrical Sub Division  
HPPWD Snowdon ,Shimla-1

Schedule of quantity approved for Rs. 99,500/- only.  
(Ninety Nine Thousand five Hundred. Rupees Only.)

Executive Engineer,  
Electrical Division No-II,  
HP PWD (U.S. Club) Shimla-1

| SCHEDULE OF QUANTITY                                                                                                |                                                                                                                                    |      |       |            |                                   |        |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------|-------|------------|-----------------------------------|--------|
|                                                                                                                     |                                                                                                                                    |      |       |            | Estimated Cost:-Rs 99,830/-Only   |        |
|                                                                                                                     |                                                                                                                                    |      |       |            | Earnest Money:-Rs2000/-Only       |        |
|                                                                                                                     |                                                                                                                                    |      |       |            | Time:- Two weeks                  |        |
| Name of work : - Providing control wiring for FCU in 2nd , 3rd & 4th Floor of Cancer hospital building IGMC Shimla. |                                                                                                                                    |      |       |            |                                   |        |
| S.No.                                                                                                               | Description of Items                                                                                                               | Qty. | Unit  | Rate       |                                   | Amount |
|                                                                                                                     |                                                                                                                                    |      |       | In Figures | In Words                          |        |
| 1                                                                                                                   | Supply and fixing of following size PVC insulated copper conductor control cable including making connections complete as required |      |       |            |                                   |        |
| 1.01                                                                                                                | 3 Core 1.5 sqmm                                                                                                                    | 335  | Meter | 298        | Rs. Two Hundred Ninety Eight only | 99830  |
|                                                                                                                     | Total                                                                                                                              |      |       |            |                                   | 99830  |

  
 Assistant Engineer  
 M.C. Elect. Sub Division  
 HPPWD, Snowdon, Shir

Draft schedule of quantity approved for Rs 99830/-only  
 (Rs Ninety Nine Thousand Eight Hundred Thirty only)

  
 Executive Engineer,  
 Electrical Division No.-II,  
 HPPWD (U.S. Club) Shimla-1

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| DRAFT SCHEDULE OF QUANTITY                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                      |      |      |                          |                                           |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------------------|-------------------------------------------|--------|
|                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |      |      | Estimated Cost:-88090 /- |                                           |        |
|                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |      |      | Earnest Money:-2000/-    |                                           |        |
|                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |      |      | Time :-1 Months          |                                           |        |
| Name of Work:- Providing repair & replacement of chiller controller, electrical components and allied Works for 15 Ton chiller unit installed at Block-A, IGMC Shimla-171001 (H.P.) |                                                                                                                                                                                                                                                                                                                                                                      |      |      |                          |                                           |        |
| S.No                                                                                                                                                                                | Description of items                                                                                                                                                                                                                                                                                                                                                 | Qty. | Unit | Rates                    |                                           | Amount |
| 1                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |      |      | In figures               | In words                                  |        |
|                                                                                                                                                                                     | Supply, Installation, Testing and Commissioning of chiller controller with switch in/out temperature sensor for compressor, operating voltage 380-480 VAC, temperature control range 5°C to 35°C with suitable accuracy of ±0.5°C, LED display, high/low pressure & temperature protection, compressor overload and flow switch monitoring complete in all respects. | 2    | Each | 5430                     | ₹ Five Thousand Four Hundred Thirty only. | 10860  |
| 2                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of timer for compressor/chiller ON-OFF with auto restart facility and set temperature range from -5°C to 35°C complete in all respects.                                                                                                                                                                              | 2    | Each | 2200                     | ₹ Twenty Two Hundred only.                | 4400   |
| 3                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of ON/OFF switch suitable for 15 Ton chiller complete in all respects.                                                                                                                                                                                                                                               | 2    | Each | 940                      | ₹ Nine Hundred Forty only.                | 1880   |
| 4                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of overload relay for 15 Ton chiller, thermal type with manual/automatic reset, direct mounting suitable with contactor complete in all respects.                                                                                                                                                                    | 1    | Each | 5300                     | ₹ Five Thousand Three Hundred only.       | 5300   |
| 5                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of 3-pole power contactor suitable for 15 Ton chiller with NC & NO auxiliary contacts, AC circuit and AC coil suitable for existing chiller complete in all respects.                                                                                                                                                | 2    | Each | 18000                    | ₹ Eighteen Thousand only.                 | 36000  |
| 6                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of chiller water temperature sensor complete in all respects.                                                                                                                                                                                                                                                        | 1    | Each | 1750                     | ₹ One Thousand Seven Hundred Fifty only.  | 1750   |
| 7                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of gas filter suitable for 15 Ton chiller complete in all respects.                                                                                                                                                                                                                                                  | 2    | Each | 3000                     | ₹ Three Thousand only.                    | 6000   |
| 8                                                                                                                                                                                   | Supply, Installation, Testing and Commissioning of load sensor suitable for 15 Ton chiller complete in all respects.                                                                                                                                                                                                                                                 | 1    | Each | 1800                     | ₹ One Thousand Eight Hundred only.        | 1800   |

|                         |                                                                                                                                                                                                                                                                                                                                                          |   |     |       |                                     |       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-------|-------------------------------------|-------|
| 9                       | Providing and fixing suitable size connection wires, charging/top-up of R-22 refrigerant gas, dismantling and refitting of compressor, leak checking, vacuuming, testing and commissioning of complete 15 Ton chiller system including all allied works complete in all respects as per site requirement and direction of Engineer-in-Charge             | 1 | Job | 9000  | ₹ Nine Thousand only.               | 9000  |
| 10                      | Providing labour charges for repairing of 15 Ton chiller electrical panel, checking and setting of compressor parameters, servicing, testing, calibration, trial run and commissioning of complete chiller system including necessary adjustments and allied works complete in all respects as per site requirement and direction of Engineer-in-Charge. | 1 | Job | 11100 | ₹ Eleven Thousand One Hundred only. | 11100 |
| Total                   |                                                                                                                                                                                                                                                                                                                                                          |   |     |       |                                     | 88090 |
| Assistant Engineer      |                                                                                                                                                                                                                                                                                                                                                          |   |     |       |                                     |       |
| Electrical Sub Division |                                                                                                                                                                                                                                                                                                                                                          |   |     |       |                                     |       |
| HPPWD Snowdon, Shimla-1 |                                                                                                                                                                                                                                                                                                                                                          |   |     |       |                                     |       |

**Assistant Engineer,  
M.C. Elect. Sub-division,  
HPPWD, Snowdon, Shimla**

*Scheme of quantity - approved for Rs. 88090/- only  
(Cising) (Not Vitrined, Ninety Rupees only)*

*[Signature]*

**Executive Engineer,  
Electrical Division No-II,  
HP PWD (U.S. Club) Shimla-1**

2/21

**DRAFT SCHEDULE OF QUANTITY**

Estimated Cost:- 62137/-  
 Earnest Money:- Rs.1500/-  
 Time:- 1 Month

**Name of work:- Providing Replacement of Damaged Wiring, Switches, Socket Outlets, LED Fittings and Allied Electrical Works in Set No. 8, Type-II, Driver Block, Dhalli. Shimla-171012 (H.P.)**

| S.No. | Description of Items                                                                                                                                                                                                                                                                                                                                               | Qty. | Unit  | Rate       |                                 | Amount   |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------------|---------------------------------|----------|
|       |                                                                                                                                                                                                                                                                                                                                                                    |      |       | In Figures | In words                        |          |
| 1     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm RLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductorsingle core cable etc as required. |      |       |            |                                 |          |
| 1.01  | Group A                                                                                                                                                                                                                                                                                                                                                            | 14   | Point | 1090.00    | Rs. One Thousand Ninety only    | 15260.00 |
| 2     | 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 isheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 A socket ou tletand 15/16 A piano type switch, connection, painting etc. as required.                                                         | 5    | Each  | 441        | Rs. Four Hundred Forty One only | 2205.00  |
| 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.                                                               | 9    | Each  | 305.00     | Rs. Three Hundred Five only     | 2745.00  |
| 4     | Supplying and fixing PVC batten/ angle holder including connections etc. as required.                                                                                                                                                                                                                                                                              | 5    | Each  | 89.00      | Rs. Eighty Nine only            | 445.00   |

|      |                                                                                                                                                                                                                                                                                                              |   |      |         |                                                 |         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|---------|-------------------------------------------------|---------|
| 5    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) |   |      |         |                                                 |         |
| 5.01 | 8 way, Double door                                                                                                                                                                                                                                                                                           | 1 | Each | 2570.00 | Rs. Two Thousand Five Hundred Seventy only      | 2570.00 |
| 6    | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required                                                                  |   |      |         |                                                 |         |
| 6.1  | Single pole                                                                                                                                                                                                                                                                                                  | 6 | Each | 241.00  | Rs. Two Hundred Forty One only                  | 1446.00 |
| 7    | Supplying and fixing following rating, followings poles 10ka 240/415v 'C' curves miniature circuit braker suitable for inductive load of following poles in the exsisting MCB DB complete with connections, testing and commissioning etc. as required.                                                      |   |      |         |                                                 |         |
| 7.01 | 63 A DP                                                                                                                                                                                                                                                                                                      | 1 | Each | 1479    | Rs. One Thousand Four Hundred Seventy Nine only | 1479.00 |
| 8    | Providing and installation exhaust fan of following sizes in the existing opening, Double ball bearing type metal frame including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make Domestic type.       |   |      |         |                                                 |         |
| 8.01 | Exhaust Fan, Light duty, (Domestic) 225/230 mm sweep                                                                                                                                                                                                                                                         | 2 | Each | 2156.00 | Rs. Two Thousand One Hundred Fifty Six only     | 4312.00 |
| 9    | Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.                                                                                                                                                                                                               | 1 | Each | 91.00   | Rs. Ninety One only                             | 91.00   |

|       |                                                                                                                                                                                                                         |    |       |        |                                    |          |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|--------|------------------------------------|----------|
| 10    | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.                   |    |       |        |                                    |          |
| 10.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                              | 28 | Metre | 209    | Rs. Two Hundred Nine only          | 5852.00  |
| 10.02 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                  | 34 | Metre | 315    | Rs. Three Hundred fifteen only     | 10710.00 |
| 10.03 | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire                                                                                                                                                                                  | 21 | Metre | 523.00 | Rs. Five Hundred Twenty Three only | 10983.00 |
| 10.04 | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                 | 1  | Metre | 558.00 | Rs. Five Hundred Fifty Eight only  | 558.00   |
| 11    | S/E of LED Batten with polycarbonate body and diffuser<br>The fitting should be installed on existing surface/recess The job includes carriage, erection, making connections testing and commissioning of the fittings. |    |       |        |                                    |          |
|       | Specification of LED fittings:                                                                                                                                                                                          |    |       |        |                                    |          |
|       | Wattage of LED fittings - As per following parameter.                                                                                                                                                                   |    |       |        |                                    |          |
|       | Total lumens of the fittings - as per wattage                                                                                                                                                                           |    |       |        |                                    |          |
|       | Diffuser - Polycarbonate diffuser/PMMA                                                                                                                                                                                  |    |       |        |                                    |          |
|       | Operating voltage - 140 V to 270 V, AC supply or better.                                                                                                                                                                |    |       |        |                                    |          |
|       | Input frequency - 50 Hz + 1 Hz                                                                                                                                                                                          |    |       |        |                                    |          |
|       | Power factor - Minimum 0.90                                                                                                                                                                                             |    |       |        |                                    |          |
|       | Luminaire efficacy - $\geq 100$ lm/w                                                                                                                                                                                    |    |       |        |                                    |          |
|       | Color rendering index - CRI shall be greater than 80                                                                                                                                                                    |    |       |        |                                    |          |
|       | Working/ operating temperature - 00 to + 450c or better                                                                                                                                                                 |    |       |        |                                    |          |
|       | Color temperature - 60000K + 10%                                                                                                                                                                                        |    |       |        |                                    |          |
|       | Electronic Driver                                                                                                                                                                                                       |    |       |        |                                    |          |
|       | Drive current (LED) - As per OEM.                                                                                                                                                                                       |    |       |        |                                    |          |
|       | Operating voltage - 140 V to 270 V, AC supply or better.                                                                                                                                                                |    |       |        |                                    |          |

|       |                                                                                                                                                                                                                            |   |      |        |                                 |         |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--------|---------------------------------|---------|
|       | Type of driver - <b>Constant current output driver</b>                                                                                                                                                                     |   |      |        |                                 |         |
|       | THD - <b>Less than 10%</b>                                                                                                                                                                                                 |   |      |        |                                 |         |
|       | Surge Protection - <b>2.5 KV minimum</b>                                                                                                                                                                                   |   |      |        |                                 |         |
|       | Efficiency Driver - <b>≥85%</b>                                                                                                                                                                                            |   |      |        |                                 |         |
|       | Protection - <b>Shall have under voltage and over voltage protection.</b>                                                                                                                                                  |   |      |        |                                 |         |
|       | Guarantee of LED fittings including LED driver - <b>2 years against manufacturing defect.</b>                                                                                                                              |   |      |        |                                 |         |
|       | Fixture - <b>Should comply with LM 79 test from UL/NABL lab.</b>                                                                                                                                                           |   |      |        |                                 |         |
|       | LED Type/ Make/ Model - <b>Power CREE/ OSRAM/ NICHIA/ Philips LUMILED with life more than 25,000 burning hours @70% lumen maintenance complying with LM 80 test report from the manufacturer.</b>                          |   |      |        |                                 |         |
|       | Life of LED - <b>25000 burning hours at 70% lumen maintenance</b>                                                                                                                                                          |   |      |        |                                 |         |
|       | Lumen output of the fitting                                                                                                                                                                                                |   |      |        |                                 |         |
| 11.01 | LED Batten Light <b>≥2000Lumens.</b>                                                                                                                                                                                       | 5 | Each | 631.00 | Rs. Six Hundred Thirty One only | 3155.00 |
| 12    | S/E of LED bulk head IP 66 rated with aluminium body/PDC housing<br>The fitting should be installed on existing surface The job includes carriage, erection, making connections testing and commissioning of the fittings. |   |      |        |                                 |         |
|       | Specification of LED fittings:                                                                                                                                                                                             |   |      |        |                                 |         |
|       | Wattage of LED fittings - <b>As per following parameter.</b>                                                                                                                                                               |   |      |        |                                 |         |
|       | Total lumens of the fittings - <b>as per wattage</b>                                                                                                                                                                       |   |      |        |                                 |         |
|       | Diffuser - <b>Polycarbonate diffuser/PMMA</b>                                                                                                                                                                              |   |      |        |                                 |         |
|       | Operating voltage - <b>140 V to 270 V, AC supply or better.</b>                                                                                                                                                            |   |      |        |                                 |         |
|       | Input frequency - <b>50 Hz + 1 Hz</b>                                                                                                                                                                                      |   |      |        |                                 |         |
|       | Power factor - <b>Minimum 0.90</b>                                                                                                                                                                                         |   |      |        |                                 |         |
|       | Luminaire efficacy - <b>≥80 lm/w</b>                                                                                                                                                                                       |   |      |        |                                 |         |
|       | Color rendering index - <b>CRI shall be greater than 80</b>                                                                                                                                                                |   |      |        |                                 |         |

|       |                                                                                                                                                                                            |   |      |      |                                              |                 |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------|----------------------------------------------|-----------------|
|       | Working/ operating temperature - 00 to + 450c or better                                                                                                                                    |   |      |      |                                              |                 |
|       | Color temperature - 60000K + 10%                                                                                                                                                           |   |      |      |                                              |                 |
|       | Electronic Driver                                                                                                                                                                          |   |      |      |                                              |                 |
|       | Drive current (LED) - As per OEM.                                                                                                                                                          |   |      |      |                                              |                 |
|       | Operating voltage - 140 V to 270 V, AC supply or better.                                                                                                                                   |   |      |      |                                              |                 |
|       | Type of driver - Constant current output driver                                                                                                                                            |   |      |      |                                              |                 |
|       | THD - Less than 10%                                                                                                                                                                        |   |      |      |                                              |                 |
|       | Surge Protection - 2 KV minimum                                                                                                                                                            |   |      |      |                                              |                 |
|       | Efficiency Driver - $\geq 85\%$                                                                                                                                                            |   |      |      |                                              |                 |
|       | Protection - Shall have under voltage and over voltage protection.                                                                                                                         |   |      |      |                                              |                 |
|       | Guarantee of LED fittings including LED driver - 2 years against manufacturing defect.                                                                                                     |   |      |      |                                              |                 |
|       | Fixture - Should comply with LM 79 test from UL/NABL lab.                                                                                                                                  |   |      |      |                                              |                 |
|       | LED Type/ Make/ Model - Power CREE/ OSRAM/ NICHIA/ Philips LUMILED with life more than 50,000 burning hours @70% lumen maintenance complying with LM 80 test report from the manufacturer. |   |      |      |                                              |                 |
|       | Life of LED - 50000 burning hours at 70% lumen maintenance                                                                                                                                 |   |      |      |                                              |                 |
|       | Lumen output of the fitting                                                                                                                                                                |   |      |      |                                              |                 |
| 12.01 | LED Bulk Head $\geq 800$ Lumens.                                                                                                                                                           | 1 | Each | 1126 | Rs. One Thousand One Hundred Twenty Six only | 1126.00         |
|       | <b>Total:-</b>                                                                                                                                                                             |   |      |      |                                              | <b>62937.00</b> |

  
 Assistant Engineer  
 Electrical Sub Division  
 HPPWD Snowdon, Shimla-1

schedule of quantity approximates ✓  
 Rs. 62937/- only.  
 (Sixty two thousand Nine hundred thirty seven) only.

  
 Executive Engineer  
 Electrical Division No-II,  
 HP PWD (U.S. Club) Shimla-1

EE

# DRAFT SCHEDULE OF QUANTITY

Estimated Cost:-99909/-

Earnest Money:-2000/-

Time :-1 Month

Name of work:-Providing renovation/upgradation of internal E.I. I/C wiring, switches, socket Outlets, MCB DBs and exhaust fan in Set No 04,05 Block C, Set No.02,03 Block A at Hollyoak, Mashobra view set No.01 & 02 at Shimla-171001 (H.P.)

| S.No | Description of items                                                                                                                                                                                                                                                                                                                                             | Qty. | Unit  | Rates      |                                 | Amount |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------------|---------------------------------|--------|
|      |                                                                                                                                                                                                                                                                                                                                                                  |      |       | In figures | In words                        |        |
| 1    | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm RLS PVC insulated copper conductor single core cable in surface I recessed PVC conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductorsingle core cable etc as required. |      |       |            |                                 |        |
| 1.01 | Group A                                                                                                                                                                                                                                                                                                                                                          | 5    | Point | 852.00     | ₹ Eight Hundred Fifty Two only. | 4260   |
| 2    | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in PVC casing & capping, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.         |      |       |            |                                 | 0      |
| 2.01 | Group A                                                                                                                                                                                                                                                                                                                                                          | 9    | Point | 746.00     | ₹ Seven Hundred Forty Six only. | 6714   |
| 3    | 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 FRLSont including providing and fixing 6 pin 5/6 & 15/16 A socket ou tletand 15/16 A piano type switch, connection, painting etc. as required.                                                        | 26   | Each  | 441        | ₹ Four Hundred Forty One only.  | 11466  |

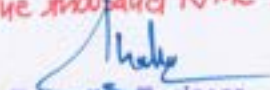
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BE

|     |                                                                                                                                                                                                                                                                                                              |    |       |         |                                           |       |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|---------|-------------------------------------------|-------|
| 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 FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required.         | 30 | Each  | 305.00  | ₹ Three Hundred Five only.                | 9150  |
| 5   | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.                                                                                                        |    |       |         |                                           |       |
| 5.1 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                                                                       | 63 | Metre | 315     | ₹ Three Hundred Fifteen only.             | 19845 |
| 5.2 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                       | 3  | Metre | 425     | ₹ Four Hundred Twenty Five only.          | 1275  |
| 6   | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB Isolator) |    |       |         |                                           |       |
| 6.1 | 8 way , Double door                                                                                                                                                                                                                                                                                          | 2  | Each  | 2570.00 | ₹ Two Thousand Five Hundred Seventy only. | 5140  |
| 6.2 | 12 way , Double door                                                                                                                                                                                                                                                                                         | 2  | Each  | 2300.00 | ₹ Twenty Three Hundred only.              | 4600  |
| 7   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required                                                                  |    |       |         |                                           |       |
| 7.1 | Single pole                                                                                                                                                                                                                                                                                                  | 25 | Each  | 241.00  | ₹ Two Hundred Forty One only.             | 6025  |

|       |                                                                                                                                                                                                                                                                                                        |    |       |         |                                               |              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|---------|-----------------------------------------------|--------------|
| 7     | Supplying and fixing following rating, followings poles 10ka 240/415v 'C' curves miniature circuit braker suitable for inductive load of following poles in the exsisting MCB DB complete with connections, testing and commissioning etc. as required.                                                |    |       |         |                                               |              |
| 7.1   | 63 A DP                                                                                                                                                                                                                                                                                                | 4  | Each  | 1479    | ₹One Thousand Four Hundred Seventy Nine only. | 5916         |
| 8     | Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.                                                                                                                                                                                                         | 6  | Each  | 91      | ₹ Ninety One only.                            | 546          |
| 9     | Providing and installation exhaust fan of following sizes in the existing opening. Double ball bearing type metal frame including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make Domestic type. |    |       |         |                                               |              |
| 9.1   | Exhaust Fan, Light duty, (Domestic) 225/230 mm sweep                                                                                                                                                                                                                                                   | 1  | Each  | 2159.00 | ₹ Two Thousand One Hundred Fifty Nine only.   | 2159         |
| 11    | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in PVC casing & capping as required                                                                                                                         |    |       |         |                                               |              |
| 11.01 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                             | 42 | Metre | 181     | ₹ One Hundred Eighty one only.                | 7602         |
| 11.02 | 2X4sq. mm + 1 X4sq. mm earth wire                                                                                                                                                                                                                                                                      | 53 | Metre | 287     | ₹ Two Hundred Eighty Seven only.              | 15211        |
| 12    | <b>Note:-</b> Less credit ₹500/- only on account of dismantel material                                                                                                                                                                                                                                 |    |       |         |                                               |              |
|       | <b>Total:-</b>                                                                                                                                                                                                                                                                                         |    |       |         |                                               | <b>99909</b> |

  
 Assistant Engineer  
 Electrical Sub Division  
 HPPWD Snowdon ,Shimla-1

Draft Schedule of quantity approved for Rs. 99909/-  
 only (Rs. Ninety Nine thousand Nine hundred  
 Nine only)

  
 Executive Engineer,  
 Electrical Division No.-II,  
 HP PWD (U.S. Club) Shimla-1

| DRAFT SCHEDULE OF QUANTITY                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         |                          |                            |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|--------------------------|----------------------------|--------|
|                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         | Estimated Cost:-60000 /- |                            |        |
|                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         | Earnest Money:-1200/-    |                            |        |
|                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         | Time :-1 Months          |                            |        |
| NAME OF WORK: Repair, Servicing, Gas Charging, Leakage Rectification, Dismantling/Re-installation and Allied Maintenance Works of Split, Cassette and VRV Type Air Conditioning Systems Installed at Emergency Lab, KNH, VVIP Special Ward and Ultrasound Room Block-C at IGMC Shimla H.P.-171001. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         |                          |                            |        |
| S.No                                                                                                                                                                                                                                                                                               | Description of items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Qty. | Unit    | Rates                    |                            | Amount |
| 1                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         | In figures               | In words                   |        |
|                                                                                                                                                                                                                                                                                                    | Repair, Servicing, Testing and Commissioning of 1.5 Ton Split Type Air Conditioner Installed in Emergency Lab, Including Nitrogen Pressure Testing, Leak Detection and Rectification, Gas Charging/Recharging, Replacement of Defective Sensors, Cleaning of Indoor and Outdoor Units, Checking of Electrical Connections, Condensate Drain Cleaning and Allied Works, Complete in All Respects as per Site Requirements and to the Satisfaction of the Engineer-in-Charge.                           | 1    | Per Job | 12000                    | ₹ Twelve Thousand only     | 12000  |
| 2                                                                                                                                                                                                                                                                                                  | Repair, Servicing, Testing and Commissioning of 2 Ton Cassette Type Air Conditioner at KNH, Including Nitrogen Pressure Testing, Detection and Rectification of Refrigerant Leakage, Gas Refilling/Recharging, Cleaning of Indoor and Outdoor Units, Checking of Electrical Components and Allied Works, Complete in All Respects as Required and as per the Direction and Satisfaction of the Engineer-in-Charge.                                                                                    | 1    | Per Job | 18000                    | ₹ Eighteen Thousand only   | 18000  |
| 3                                                                                                                                                                                                                                                                                                  | Dismantling, Shifting and Re-installation of 1.6 Ton Cassette AC Indoor Units (02 Nos.) and 4.3 HP Outdoor Unit of VRV Air Conditioning System Installed in VVIP Special Ward at IGMC, Including Nitrogen Pressure Testing, Refrigerant Recovery, Copper Piping Connections, Leak Detection and Rectification, Vacuuming, Gas Charging/Recharging, Testing, Commissioning and Allied Works, Complete in All Respects as Required and as per the Direction and Satisfaction of the Engineer-in-Charge. | 1    | Per Job | 22000.00                 | ₹ Twenty Two Thousand Only | 22000  |
| 4                                                                                                                                                                                                                                                                                                  | Repair, Servicing, Testing and Commissioning of Split Type Air Conditioner Installed in Ultrasound Room, Block-C, Including Nitrogen Pressure Testing, Detection and Rectification of Refrigerant Leakage, Gas Charging/Recharging, , Cleaning of Indoor and Outdoor Units, Checking of Electrical Components and Allied Works, Complete in All Respects as Required and as per the Direction and Satisfaction of the Engineer-in-Charge.                                                             | 1    | Per Job | 8000.00                  | ₹ Eight Thousand only      | 8000   |
|                                                                                                                                                                                                                                                                                                    | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |         |                          |                            | 60000  |

  
 Assistant Engineer  
 Electrical Sub Division  
 HPPWD, Snowdon, Shimla-1

Draft Schedule of Quantity approved for Rs 60000/-  
 (Rs. Sixty thousand only)

  
 Executive Engineer,  
 Electrical Division No.-II,  
 HP PWD (U.S. Club) Shimla-1

EE

**DRAFT SCHEDULE OF QUANTITY**

Estimated Cost:- Rs.97,869/- only

Earnest Money:- Rs.2000/- only

Time:- One month

Time :-

**Name of work:- Providing additional electrical installation and internal electrification in ward Nos. 3 & 4, doctor duty room, sister duty room, plant room, 2nd floor corridor due to reorganization-/ renovation of facilities at IGMCH Shimla-171001. (H.P.)**

| S.No. | Description of Items                                                                                                                                                                                                                                                                                         | Qty. | Unit | Rate       |                                            | Amount  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|--------------------------------------------|---------|
|       |                                                                                                                                                                                                                                                                                                              |      |      | In Figures | In words                                   |         |
| 1.00  | 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 isheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 A socket ou tletand 15/16 A piano type switch, connection, painting etc. as required.   | 1.00 | Each | 441.00     | Rs. Four Hundred Forty One only            | 441.00  |
| 2.00  | Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.                                                                                                                                                                           |      |      |            |                                            |         |
| 2.01  | S.P. 5/6 amps, one way Piano switch, ISI marked                                                                                                                                                                                                                                                              | 7.00 | Each | 41.00      | Rs. Forty One only                         | 287.00  |
| 2.02  | S.P. 15/16 A, one way switch, piano type                                                                                                                                                                                                                                                                     | 8.00 | Each | 94.00      | Rs. Ninety Four only                       | 752.00  |
| 2.03  | 3 Pin 5/6 A socket outlet, piano type                                                                                                                                                                                                                                                                        | 6.00 | Each | 59.00      | Rs. Fifty Nine only                        | 354.00  |
| 2.04  | 6 Pin 15/16 A socket outlet                                                                                                                                                                                                                                                                                  | 8.00 | Each | 110.00     | Rs. One Hundred Ten only                   | 880.00  |
| 3.00  | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) |      |      |            |                                            |         |
| 3.01  | 8 way double door                                                                                                                                                                                                                                                                                            | 1.00 | Each | 2570.00    | Rs. Two Thousand Five Hundred Seventy only | 2570.00 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|--------|-----------------------------------------------|-------|
| 4   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required             |    |       |        |                                               |       |
| 4.1 | Single pole                                                                                                                                                                                                                                             | 4  | Each  | 241.00 | ₹ Two Hundred Forty One only.                 | 964   |
| 5   | Supplying and fixing following rating, followings poles 10ka 240/415v 'C' curves miniature circuit braker suitable for inductive load of following poles in the exsisting MCB DB complete with connections, testing and commissioning etc. as required. |    |       |        |                                               |       |
| 5.1 | 63 A DP                                                                                                                                                                                                                                                 | 1  | Each  | 1479   | ₹One Thousand Four Hundred Seventy Nine only. | 1479  |
| 6   | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.                  |    |       |        |                                               |       |
| 6.1 | 25 mm                                                                                                                                                                                                                                                   | 50 | Each  | 221    | ₹One Thousand Four Hundred Seventy Nine only. | 11050 |
| 7   | Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.                                                                                       |    |       |        |                                               |       |
| 7.1 | 4 x 1.5 sq. mm                                                                                                                                                                                                                                          | 57 | Metre | 119    | ₹One Hundred Nineteen only.                   | 6783  |
| 7.2 | 2 x 4 sq. mm                                                                                                                                                                                                                                            | 22 | Metre | 144    | ₹One Hundred Forty Four only.                 | 3168  |
| 8   | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.                                                              |    |       |        |                                               |       |
| 8.1 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                              | 51 | Metre | 301    | ₹Three Hundred One only.                      | 15351 |
| 8.2 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire                                                                                                                                                                                                                  | 6  | Metre | 407    | ₹Four Hundred Seven only.                     | 2442  |

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|     |                                                                                                                                                                                                                      |    |       |        |                                 |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|--------|---------------------------------|------|
| 8.3 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                               | 13 | Metre | 534.00 | ₹Five Hundred Thirty Four only. | 6942 |
| 9   | S/E of LED Batten with polycarbonate body and diffuser The fitting should be installed on existing surface/recess The job includes carriage, erection, making connections testing and commissioning of the fittings. |    |       |        |                                 |      |
|     | Specification of LED fittings:                                                                                                                                                                                       |    |       |        |                                 |      |
|     | Wattage of LED fittings - As per following parameter.                                                                                                                                                                |    |       |        |                                 |      |
|     | Total lumens of the fittings - as per wattage                                                                                                                                                                        |    |       |        |                                 |      |
|     | Diffuser - Polycarbonate diffuser/PMMA                                                                                                                                                                               |    |       |        |                                 |      |
|     | Operating voltage - 140 V to 270 V, AC supply or better.                                                                                                                                                             |    |       |        |                                 |      |
|     | Input frequency - 50 Hz + 1 Hz                                                                                                                                                                                       |    |       |        |                                 |      |
|     | Power factor - Minimum 0.90                                                                                                                                                                                          |    |       |        |                                 |      |
|     | Luminaire efficacy - $\geq 100$ lm/w                                                                                                                                                                                 |    |       |        |                                 |      |
|     | Color rendering index - CRI shall be greater than 80                                                                                                                                                                 |    |       |        |                                 |      |
|     | Working/ operating temperature - 00 to + 450c or better                                                                                                                                                              |    |       |        |                                 |      |
|     | Color temperature - 60000K + 10%                                                                                                                                                                                     |    |       |        |                                 |      |
|     | Electronic Driver                                                                                                                                                                                                    |    |       |        |                                 |      |
|     | Drive current (LED) - As per OEM.                                                                                                                                                                                    |    |       |        |                                 |      |
|     | Operating voltage - 140 V to 270 V, AC supply or better.                                                                                                                                                             |    |       |        |                                 |      |
|     | Type of driver - Constant current output driver                                                                                                                                                                      |    |       |        |                                 |      |
|     | THD - Less than 10%                                                                                                                                                                                                  |    |       |        |                                 |      |
|     | Surge Protection - 2.5 KV minimum                                                                                                                                                                                    |    |       |        |                                 |      |
|     | Efficiency Driver - $\geq 85\%$                                                                                                                                                                                      |    |       |        |                                 |      |
|     | Protection - Shall have under voltage and over voltage protection.                                                                                                                                                   |    |       |        |                                 |      |
|     | Guarantee of LED fittings including LED driver - 2 years against manufacturing defect.                                                                                                                               |    |       |        |                                 |      |
|     | Fixture - Should comply with LM 79 test from UL/NABL lab.                                                                                                                                                            |    |       |        |                                 |      |

|       |                                                                                                                                                                                                                                                        |    |       |        |                                             |       |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|--------|---------------------------------------------|-------|
|       | LED Type/ Make/ Model - Power CREE/ OSRAM/ NICHIA/ Philips LUMILED with life more than 25,000 burning hours @70% lumen maintenance complying with LM 80 test report from the manufacturer.                                                             |    |       |        |                                             |       |
|       | Life of LED - 25000 burning hours at 70% lumen maintenance                                                                                                                                                                                             |    |       |        |                                             |       |
|       | Lumen output of the fitting                                                                                                                                                                                                                            |    |       |        |                                             |       |
| 9.01  | LED Batten Light $\geq 2000$ Lumens.                                                                                                                                                                                                                   | 8  | Each  | 631.00 | ₹Six Hundred Thirty One only.               | 5048  |
| 10    | Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.                                                                                                                                            |    |       |        |                                             |       |
| 10.01 | 3 Module                                                                                                                                                                                                                                               | 19 | Each  | 132    | ₹One Hundred Thirty Two Only.               | 2508  |
| 10.02 | 4 Module                                                                                                                                                                                                                                               | 1  | Each  | 139    | ₹One Hundred Thirty Nine Only.              | 139   |
| 11    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required                                                                                    |    |       |        |                                             |       |
| 11.01 | 5/6 amps switch                                                                                                                                                                                                                                        | 20 | Each  | 88     | ₹ Eighty Eight only.                        | 1760  |
| 11.02 | 3 pin 5/6 A socket outlet                                                                                                                                                                                                                              | 20 | Each  | 114    | ₹ One Hundred Fourteen Only.                | 2280  |
| 12    | Providing and installation ventilating fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make |    |       |        |                                             |       |
| 12.01 | Ventilating Fan 250mm                                                                                                                                                                                                                                  | 6  | Metre | 2196   | ₹ Two Thousand One Hundred Ninety Six only. | 13176 |

|       |                                                                                                                                                                               |    |       |     |                                  |       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|-----|----------------------------------|-------|
| 13    | Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required. |    |       |     |                                  |       |
| 13.01 | Armoured cable 35 sq. mm (3.5 core)                                                                                                                                           | 35 | Metre | 557 | ₹ Five Hundred Fifty Seven only. | 19495 |
|       |                                                                                                                                                                               |    |       |     |                                  | 97869 |

  
Assistant Engineer  
M.C. Elect. Sub Division  
HPPWD, Snowdon, Shimla-1

*Draft schedule of quantity approved  
for Rs. 97,869/- only. (Rs. Ninety seven  
thousand eight hundred sixty nine only.)*

  
Executive Engineer,  
Electrical Division No.-II,  
HP PWD (U.S. Club) Shimla-1