

HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2023-24/- 5177-85

Dated: 18/9/23

To

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

Subject: Publishing of Tender Notice.

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


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

DA/NIT,SQs

  
Executive Engineer  
Electrical Division  
HP PWD Palampur

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

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

  
Executive Engineer  
Electrical Division  
HP PWD Palampur

**HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT**

**"Notice Inviting Tenders"**

Sealed percentage rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP.PWD. (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act, 1968 so as to reach in his office on or before **30-09-2023** up to 11.00 AM, and the same shall be opened on the same day at 11.30 A.M. in the presence of intending contractors or their authorized representatives. The tender documents can be had from his office against cash payment (Non-refundable) on **29-09-2023** up to 4.00 P.M. and the application for issue of tender form shall be received on **28-09-2023** up to 12.00 noon.

**Conditions:**

1. The contractor should have the EPF registration certificate should be attached with application.
2. The GST registration certificate.
3. The contractor should produce a copy of latest enlistment/renewal.
4. The latest ITR filed should be attached with application.
5. The bidders enlisted in a particular class shall be eligible to tender for his own class or one step below.
6. The bidder should attach authorization and work done certificate with application for Specialized Jobs.
7. The FDR duly pledged should be attached separately with each tender.
8. Only two number tender forms will be issued to the eligible contractor.
9. The Executive Engineer, Electrical Division, HP PWD Palampur reserves the right to reject any tender without assigning any reasons.
10. Conditional/ incomplete tenders & tender without earnest money will be summarily rejected.

Sr. No	Name of Work	Estimated Cost	Earnest Money	Time Limit	Form No.	Cost of Form
1	Replacement of E.I. and Safety devices to LD. Civil Judge -cum J.M.F.C-I Residence at KharaDanda Road near High Court Guest House Dharamshala Distt. Kangra.	246092/-	5000/-	One Month	8	350/-
2	Replacement of E.I. AND Safety Devices to Civil Judge-cum J.M.F.C -II Residence at KharaDanda Road Near High Court Guest House Dharamshala Distt. Kangra(H.P).	248993/-	5000/-	Six Months	8	350/-
3	C/O Additional Block in Govt. Hospital at Palampur in Tehsil Palampur Distt. Kangra(H.P)(SH:- Providing E.I. therein additional work)	442049/-	8900/-	One Month	8	350/-
4	Repair of 22 HP Outdoor unit and Indoor units of variable refrigeration volume/flow based HVAC system LG Make in Minister Block Circuit House Dharamshala Distt. Kangra (H.P).	291932/-	5900/-	One Year	8	350/-
5	Replacement of E I and Providing Additional Computer Points and Heating Points in new room at Session Court Palampur Distt. Kangra (H.P.)	123146/-	2500/-	One Month	8	350/-
6	Replacement of Electrical Installation and switchgear system into new one in the Court of Civil Judge-cum Judicial Magistrate at Chamba in Tehsil & Distt. Chamba (H.P).	339656/-	7200/-	Six Months	8	350/-
7	Providing Electrical Installation in the court of JMJC Tissa in Tehsil Churah Distt. Chamba (H.P)	107715/-	2200/-	Two Months	8	350/-

	Providing replacement of E.I. and Safety devices to Sub Divisional Veterinary Hospital building at Jawali in Tehsil Jawali Distt. Kangra(H.P).	212005/-	4300/-	Six Months	8	350/-
9	Providing replacement of old lights with energy efficient LED lights & additional power plug in HPPWD (B&R) Sub-Division at Rehan in Tehsil Fatehpur, Distt. Kangra(H.P).	127546/-	2600/-	Six Months	8	350/-
10	Replacement of Electrical Installation and switch gear system into new one in HPPWD (B&R) Division Chamba (C- Branch & Accounts Branch) in Tehsil & Distt. Chamba. (H.P).	499930/-	10000/-	One Year	8	350/-
11	C/O War Museum at Dharamshala Distt. Kangra (H.P)(SH:- Providing Air Conditioner in lower ground floor and Library First Floor balance work).	195634/-	4000/-	One Month	8	350/-
12	Replacement of Old FTL fixtures with new LEDs in Fourth Floor and Fifth Floor of Super Specialty Block, Dr. RPGMC Kangra at Tanda.	288386/-	5800/-	Two Months	8	350/-
13	C/O War Museum at Dharamshala Distt. Kangra (HP) (SH: Balance work of Providing Fire alarm system and fire Fighting system therein).	493298/-	9900/-	One Month	8	350/-
14	Providing copper earthing to the main E.I. Panel along with flood lighting in the campus of Sardar Singh Auditorium Dr. RPGMC Kangra at Tanda.	166017/-	3400/-	Two Months	8	350/-

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## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK:- Replacement of E.I and Safety devices to Ld. Civil Judge-cum J.M.F.C -I Residance at Khara Danda Road Near High CourtGuest House Dharamshala Distt Kangra			Job No. 1		ESTIMATED COST: Rs.2,46,092/-only. EARNEST MONEY: Rs.5000/-only TIME ALLOWED: One Month	
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make: KEI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius) /L&T(Entice)/SCI					
1.01	Group C	5	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	9115
1.02	Group B	21	1470	Rupees One Thousand Four Hundred Seventy Only	Per Point	30870
2.00	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required. Make: KEI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius) /L&T(Entice)/SCI					
2.01		3	1894	Rupees One Thousand Eight Hundred Ninety Four Only	Per Point	5682



3.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Plaza/Anchor/SCI					
3.01	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	80	395	Rupees Three Hundred Ninety Five Only	Per Metre	31600
3.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	62	471	Rupees Four Hundred Seventy One Only	Per Metre	29202
3.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	3	657	Rupees Six Hundred Fifty Seven Only	Per Metre	1971
3.04	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	12	1108	Rupees One Thousand One Hundred Eight Only	Per Metre	13296
3.05	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	38	771	Rupees Seven Hundred Seventy One Only	Per Metre	29298
4.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor/SCI					
4.01	3 x 2.5 sq. mm	45	171	Rupees One Hundred Seventy One Only	Per Metre	7695
5.00	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast/Anchor/PolyFit					
5.01	25 mm. dia	5	113	Rupees One Hundred Thirteen Only	Per Metre	565
6.00	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
6.01	2 Module (75mmX75mm)	1	276	Rupees Two Hundred Seventy Six Only	Each	279
7.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					


7.01	T.V. Socket outlet modular type	1	157	Rupees One Hundred Fifty Seven Only	Each	157
8.00	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	5	36	Rupees Thirty Six Only	Per Metre	180
9.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	16	582	Rupees Five Hundred Eighty Two Only	Each	9312
10.00	Supplying and fixing suitable size GI box with modular plate and cover in FRL Socket on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	9	750	Rupees Seven Hundred Fifty Only	Each	6750
11.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- Make:- GoldMedal/SSK/Anchor	1	180	Rupees One Hundred Eighty Only	Each	180
12.00	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
12.01	Single pole 6 Amp (Make:- Schneider/ Legrand/L&T)	5	265	Rupees Two Hundred Sixty Five Only	Each	1325
12.02	Single pole 16 Amp (Make:- Schneider/ Legrand/L&T)	9	265	Rupees Two Hundred Sixty Five Only	Each	2385
13.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
13.01	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	488	Rupees Four Hundred Eighty Eight Only	Each	488

13.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	1	616	Rupees Six Hundred Sixteen Only	Each	616
14.00	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
14.01	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
14.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
15.00	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).					
15.01	Double door-12 way (Make:- Schneider/ Legrand/L&T)	1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
15.02	Double door-16 way (Make:- Schneider/ Legrand/L&T)	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
16.00	Earthing with G.I earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1	8830	Rupees Eight Thousand Eight Hundred Thirty Only	Per Set	8830
17.00	Supplying and laying 6SWG G.I wire at 0.50 mtr below ground level for earth electrode conductor, including soldering etc as required.	20	41	Rupees Forty One Only	Per Metre	820
18.00	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					

18.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD)/Bajaj (Model: Freshjee)/Anchor (Model: Anmol)/Crompton(Model: Drift air Plus) .	1	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	2269
19.00	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% , CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
19.01	Bulk Head Light LED 10 watt Makes:- Philips /Mipro/Bajaj	✓ 1	1322	Rupees One Thousand Three Hundred Twenty Two Only	Each	1322
20.00	Providing and fixing LED Mirror Light 10 W+/- 1W with Surface Mounted 2 Feet with Polycarbonate diffuser with Extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F.>0.95 with THD<20% , CRI 80 . The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 6500 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
20.01	LED Mirror Light 10 watt Makes:- Philips /Mipro/Bajaj	✓ 1	370	Rupees Three Hundred Seventy Only	Each	370



21.00	Providing and Fixing of IP20 LED fixture of following watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing, pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with <b>five years warranty</b> . The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.					
21.10	LED Surface mounting round downlighter 12 watt <b>Makes:- Philips /Wipro/Bajaj</b>	12	2816	Rupees Two Thousand Eight Hundred Sixteen Only	Each	33792
22.00	Providing and Fixing of IP20 LED Surface mounted CRCA Powder Coated Box Type Channel with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K, CRI 80, Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70 with <b>five years warranty</b> . The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.					
22.01	LED batten light 20 Watt Surface Mounted 4 Feet <b>Makes:- Bajaj/Wipro/Panasonic</b>	6	975	Rupees Nine Hundred Seventy Five Only	Each	5850
23.00	Supplying and fixing brass batten/ angle holder including connection etc. as required. <b>Make:- SSK/GoldMedal/Anchor</b>	3	94	Rupees Ninety Four Only	Each	282
	<b>Total</b>					<b>246092</b>

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur

# SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of E.I. and Safety devices to Civil Judge-cum J.M.F.C -II Residence at Khara Danda Road Near High Court Guest House Dharamshala Distt Kangra			Job No 2		ESTIMATED COST: Rs.2,48,993/-only EARNEST MONEY: Rs.5000/-only TIME ALLOWED: Six Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable etc. as required. Make: SCI/KEI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).					
1.01	Group C	5	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	9115
1.02	Group B	21	1470	Rupees One Thousand Four Hundred Seventy Only	Per Point	30870
2.00	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required. Make: SCI/ KEI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).					
2.01	Group C.	3	1894	Rupees One Thousand Eight Hundred Ninety Four Only	Per Point	5682
3.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: SCI/ KEI/Plaza/Anchor.					

3.01	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	80	395	Rupees Three Hundred Ninety Five Only	Per Metre	31600
3.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	62	471	Rupees Four Hundred Seventy One Only	Per Metre	29202
3.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	3	657	Rupees Six Hundred Fifty Seven Only	Per Metre	1971
3.04	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	12	1108	Rupees One Thousand One Hundred Eight Only	Per Metre	13296
3.05	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	38	771	Rupees Seven Hundred Seventy One Only	Per Metre	29298
4.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: SCI/ KEI/Plaza/Anchor.					
4.01	3 x 2.5 sq. mm	45	171	Rupees One Hundred Seventy One Only	Per Metre	7695
5.00	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast/Anchor/PolyFit)					
5.01	25 mm. dia	5	113	Rupees One Hundred Thirteen Only	Per Metre	565
6.00	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.Makes:- L&T/Legrand/Schneider					
6.01	2 Module (75mmX75mm)	1	276	Rupees Two Hundred Seventy Six Only	Each	276
7.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.Makes:- L&T/Legrand/Schneider					
7.01	T.V. Socket outlet modular type	1	157	Rupees One Hundred Fifty Seven Only	Each	157

8.00	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required. <b>Makes:- L&amp;T/Legrand/Schneider</b>	5	36	Rupees Thirty Six Only	Per Metre	180
9.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. <b>Make: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&amp;T(Entice).</b>	16	582	Rupees Five Hundred Eighty Two Only	Each	9312
10.00	Supplying and fixing suitable size GI box with modular plate and cover in FRL Sont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. <b>Make: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&amp;T(Entice).</b>	9	750	Rupees Seven Hundred Fifty Only	Each	6750
11.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- <b>Make :-GoldMedal/Anchor</b>	1	194	Rupees One Hundred Ninety Four Only	Each	194
12.00	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
12.01	Single pole 6 Amp (Make:-Schneider/ Legrand/L&T)	5	265	Rupees Two Hundred Sixty Five Only	Each	1325
12.02	Single pole 16 Amp (Make:- Schneider/ Legrand/L&T)	9	265	Rupees Two Hundred Sixty Five Only	Each	2385
13.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
13.01	40 Amps. (Make:-Schneider/ Legrand/L&T)	1	488	Rupees Four Hundred Eighty Eight Only	Each	488
13.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	1	616	Rupees Six Hundred Sixteen Only	Each	616



14.00	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
14.01	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
14.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
15.00	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).					
15.01	Double door-12 way (Make:- Schneider/ Legrand/L&T)	1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
15.02	Double door-16 way (Make:- Schneider/ Legrand/L&T)	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
16.00	Earthing with G.I earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1	8830	Rupees Eight Thousand Eight Hundred Thirty Only	Per Set	8830
17.00	Supplying and laying 6SWG G.I wire at 0.50 mtr below ground level for earth electroded conductor, including soldering etc as required.	20	41	Rupees Forty One Only	Per Metre	820
20.00	Providing, Installation, testing and commissioning of ceiling fan ISI mark with step type two module electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					

20.01	Ceiling Fan 1400 mm sweep (Make: Usha/ Bajaj / Crompton with 3 rated star.	1	2869	Rupees Two Thousand Eight Hundred Sixty Nine Only	Each	2869
21.00	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
21.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD/Bajaj (Model: Freshlee)/Anchor (Model: Anmol)/Crompton(Model: Drift air Plus).	1	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	2269
23.00	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% .CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty.The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80.The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
23.01	Bulk Head Light LED 10 watt Makes:- Philips /Wipro/Bajaj	1	1322	Rupees One Thousand Three Hundred Twenty Two Only	Each	1322
24.00	Providing and fixing LED Mirror Light 10 W+/- 1W with Surface Mounted 2 Feet with Polycarbonate diffuser with Extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F.>0.95 with THD<20%, CRI 80 .The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 6500 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
24.01	LED Mirror Light 10 watt Makes:- Philips /Wipro/Bajaj	1	370	Rupees Three Hundred Seventy Only	Each	370

25.00	Providing and Fixing of IP20 LED fixture of following watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing, pressure die cast heat sink and P.F. >0.95 with THD <10%, CRI 80 The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.					
25.01	LED Surface mounting round downlighter 12 watt Makes:- Philips /Wipro/Bajaj.	12	2816	Rupees Two Thousand Eight Hundred Sixteen Only	Each	33792
27.00	Providing and Fixing of IP20 LED Surface mounted CRCA Powder Coated Box Type Channel with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, P.F. >0.95 with THD <10%, CCT 6500 K, CRI 80, Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.					
27.01	LED batten light 20 Watt Surface Mounted 4 Feet Makes:- Bajaj/Wipro/Panasonic	6	978	Rupees Nine Hundred Seventy Eight Only	Each	5868
28.00	Supplying and fixing brass batten/ angle holder including connection etc. as required. Make:- GoldMedal/Anchor/Havells.	3	94	Rupees Ninety Four Only	Each	282
	Total					248993

*0908 Schedule of quantity checked and approved for 248993 only*

Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :-C/O Additional Block in Govt. Hospital at Palampur in Tehsil Palampur Distt. Kangra(H.P)(SH:- Providing E.I. therein additional work)			Job No 3		ESTIMATED COST: Rs.4,42,049/-only. EARNEST MONEY: Rs.8900/-only TIME ALLOWED: One month	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and installation of exhaust fan of Following sizes in the existing opening,including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required :- Make :- Usha/ Bajaj/Crompton .					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	10	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	22690
2	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts of following sizes on wall surface as required size :- Make:- KEI/SCI/Plaza					
	Armoured cable 300 sq.mm (twin core)	85	3815	Rupees Two Thousand Two Hundred Sixty Nine Only	Meter	324275
3	Supplying & Fixing Rubber Mat (1x2 mtr.) for electrical panels as per satisfaction of engineer in charge.	6	8722	Rupees Eight Thousand Seven Hundred Twenty Two Only	Each	52332



4	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required. Make:- SC/KEI/Plaza.					
(i)	4x10S qmm+2X6 sq. mm earth wire	32	1336	Rupees Eight Thousand Seven Hundred Twenty Two Only	Per Meter	42752
	Total					442049

*Draft Schedule of quantity checked and approved for Rs. 442049 only*

*K. Kumar*  
Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

NAME OF WORK :- Repair of 22 HP Outdoor unit and Indoor units of variable refrigeration volume/flow based HVAC system LG Make in Minister Block Circuit House Dharamshala Distt. Kangra (H.P.).			Job No 4		ESTIMATED COST: Rs 2,91,932/-only. EARNEST MONEY: Rs.5900/-only TIME ALLOWED: One Year	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supply & Fixing and repair of 22 HP Outdoor unit parts as mentioned below of VRV System					
	Replacement of Invertor Compressure	1	82600	Rupees Eighty Two Thousand Six Hundred Only	Each	82600
	Gas Charges	20	1770	Rupees One Thousand Seven Hundred Seventy Only	Per Kilo gram	35400
	Installation and Commissioning Charge	1	17700	Rupees Seventeen Thousand Seven Hundred Only	P/Lot	17700
	Indoor PCB	6	19470	Rupees Nineteen Thousand Four Hundred Seventy Only	Each	116820
	Indoor Expenition Valve	1	7552	Rupees Seven Thousand Five Hundred Fifty Two Only	Each	7552
	Labour Charges (Daily Basis)	9	3540	Rupees Three Thousand Five Hundred Forty Only	Per Day	31860
	<b>Total</b>					<b>291932</b>

Draft schedule of quantity checked and approved for 29/9/2019

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur

## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Replacement of E I and Providing Additional Computer Points and Heating Points in new room at Session Court Palampur Distt. Kangra (H.P.)			job No 5		ESTIMATED COST: Rs.1,23,146/-only. EARNEST MONEY: Rs.2500/- only TIME ALLOWED:One Month	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	9	1824	Rupees One Thousand Eight Hundred Twenty Four Only	Per point.	16416
	SCI/KEI/Plaza make					
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	30	473	Rupees Four Hundred Seventy Three Only	P/Mtr.	14190
	SCI/KEI/Plaza make					
3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	15	755	Rupees Seven Hundred Fifty Five Only	P/Mtr.	11325
	SCI/KEI/Plaza make					
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	10	395	Rupees Three Hundred Ninety Five Only	P/Mtr.	3950
	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	20	793	Rupees Seven Hundred Ninety Three Only	P/Mtr.	15860
	SCI/KEI/Plaza make					

5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel PVC conduit as required. <b>SC/KE/Plaza make</b>					
	<b>3x2.5 sq mm</b>	35	171	Rupees One Hundred Seventy One Only	P/Mtr.	5985
6	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. <b>Make :- L&amp;T/Schender/Legrand</b>	15	1366	Rupees One Thousand Three Hundred Sixty Six Only	Each.	20490
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. <b>Make :- L&amp;T/Schender/Legrand</b>	5	750	Rupees Seven Hundred Fifty Only	Each.	3750
8	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required. <b>Make :- L&amp;T/Schender/Legrand</b>					
i	<b>6 Amp Single pole. Cat-A.</b>	3	265	Rupees Two Hundred Sixty Five Only	Each	795
ii	<b>16 Amp Single pole. Cat-A.</b>	5	265	Rupees Two Hundred Sixty Five Only	Each	1325
9	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>Make :- L&amp;T/Schender/Legrand</b>					
	<b>63 Amps. Cat-A.</b>	1	616	Rupees Six Hundred Sixteen Only	Each	616
10	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>Make :- L&amp;T/Schender/Legrand</b>					
	<b>63 Amps. Cat-A.</b>	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616



11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator) Make :- L&T/Schender/Legrand					
	<b>Double door-12 way</b>	1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
12	Earthing with G I earthing plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. etc. ( with charcoal or coke and salt ) complete as required.	1	8592	Rupees Eight Thousand Five Hundred Ninety Two Only	Per set	8592
13	Supplying and laying 6 SWG GI wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	20	40	Rupees Forty Only	Per Mtr	800
14	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	<b>Ceiling Fan 1200 mm sweep, Category-A</b>	2	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	6382
	<b>Makes :- Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star, Philips, Bajaj</b>					
15	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- Make:- Usha/Bajaj/Crompton					
	<b>Exhaust Fan, Light duty, (Domestic) 300 mm sweep</b>	1	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	2269
	<b>(As per cat. /price list Usha w.e.f 05/2022</b>					

16	Providing and installation of IP65 LED fixture 20 W +/- 1 W LED with surface Aluminium housing and P. F $\geq 0.95$ with THD <20%, CCT 6000 K, CRI 80, Surge protection 2 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . with 5 year warranty.					
	LED Batten light 20 W	4	761	Rupees Seven Hundred Sixty One Only	Each	3044
	Makes :- Wipro (Cat. No. LL20-281-XXX-AL1) Philips/Bajaj					
17	Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P. F $\geq 0.95$ with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . with 5 year warranty.	1	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	1432
	Makes :- Wipro ( Cat. No.:-LW07-141-XXX-57-G1) Philips/Bajaj					
	Total					123146

*Self schedule of quantity checked and approved for 123146 only*

Executive Engineer  
Electrical Division  
HPPWD Palampur

## DRAFT SCHEDULE OF QUANTITY

**NAME OF WORK :-** Replacement of Electrical Installation and switchgear system into new one in the Court of Civil Judge -Cum Judicial Magistrate at Chamba in Tehsil & Distt. Chamba (HP).

**Job No** 6

**ESTIMATED COST:** Rs.3,39,656/-only.  
**EARNEST MONEY:** Rs. 6800/-only  
**TIME ALLOWED:** Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G I box)					
1.1	Group C	43	1715.00	Rupees One Thousand Seven Hundred Fifteen Only	P/Point	73745
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
2	Wiring for twin control point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required (But without modular switch, modular plate and G I box)					
2.2	Group C	3	1782.00	Rupees One Thousand Seven Hundred Eighty Two Only	P/Point	5346
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
3	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.					
3.1	2 X 2.5 sq. mm	50	371.00	Rupees Three Hundred Seventy One Only	P/Mtrs.	18550
3.2	2x4.0 Sq. mm.	100	445.00	Rupees Four Hundred Forty Five Only	P/Mtrs.	44500
3.3	4x4.0 Sq. mm	40	710.00	Rupees Seven Hundred Ten Only	P/Mtrs.	28400
	<b>Make : KEI/Plaza/SCI/Anchor.</b>					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
4.1	3x2.5 Sq. mm.	25	161.00	Rupees One Hundred Sixty One Only	P/Mtrs.	4025
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
5	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required					
5.1	1 or 2 module - Modular GI box with Modular base & cover plate.	1	262.00	Rupees Two Hundred Sixty Two Only	Each	262

5.2	3 module - Modular GI box with Modular base & cover plate	8	307.00	Rupees Three Hundred Seven Only	Each	2456
5.3	6 module - Modular GI box with Modular base & cover plate	5	421.00	Rupees Four Hundred Twenty One Only	Each	2105
6	Makes:- Anchor (Roma plus)					
6	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).					
6.1	Modular G.I box for 12 module	7	1284.00	Rupees One Thousand Two Hundred Eighty Four Only	Each	8988
	Makes:- Anchor (Roma plus)					
7	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 Amps modular socket outlet and 5/6 Amps modular Switch connection etc. as required.	6	547.00	Rupees Five Hundred Forty Seven Only	Each	3282
8	Supplying and fixing suitable size G.I box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 15/16 Amps modular socket outlet and 15/16 Amps modular Switch connection etc. as required.	12	706.00	Rupees Seven Hundred Six Only	Each	8472
	Makes:- Anchor (Roma plus)					
9	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor unarmored telephone cable in the existing surface/recessed steel/ PVC conduit as required.					
9.1	1 Pair.	30	20.00	Rupees Twenty Only	P/Mtrs.	600
10	Supplying and fixing following rating Modular switch/Socket in the existing switch box/ cover plate including connections etc. as required.					
11	Telephone socket outlet modular type.	1	116.00	Rupees One Hundred Sixteen Only	Each	116
11	Supplying and Fixing of following size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
11.1	PVC conduit 25mm.	30	106.00	Rupees One Hundred Six Only	Each	3180
	Makes:- BEC Plast/Anchor.					
12	Supplying and fixing PVC batten/angle holder including connection etc. as required.	2	92.00	Rupees Ninety Two Only	Each	184
13	Providing and installation of LED fixture 1200mmx300mm 36 W+/- 1 W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA Diffuser with P.F>0.95, THD<10%, CCT 5700 K , CRI 80. The LED shall be tested with LM80-08 standard with Useful life 50000 Hrs at L70 Bajaj Cat. No. BZSSL 36L LED WH IAWipro/philips.					
13.1	Rectangular LED panel Light 4'x1 36 Watt Surface.	11	6804.00	Rupees Six Thousand Eight Hundred Four Only	Each	74544



14	Supplying and fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. power factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
14.1	LED Batten Light 20Watt.	8	982.00	Rupees Nine Hundred Eighty Two Only	Each	7856
	Make Bajaj.					
15	Wall light fixture, brushed nicke lfinish body, Opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base					
15.1	Fancy Wall Bracket.	8	1658.00	Rupees One Thousand Six Hundred Fifty Eight Only	Each	13264
16	Supplying and fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. power factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
16.1	LED Batten Light 10Watt.	1	534.00	Rupees Five Hundred Thirty Four Only	Each	534
17	Supplying and fixing call/bell/buzzer suitable for single phase, 230 volts, complete as required.	4	231.00	Rupees Two Hundred Thirty One Only	Each	924
	Makes:- Anchor.					
18	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.					
18.1	Ceiling Fan 1200 mm sweep	4	2698	Rupees Two Thousand Six Hundred Ninety Eight Only	Each	10792
18.2	Ceiling Fan 1400 mm sweep	4	2698	Rupees Two Thousand Six Hundred Ninety Eight Only	Each	10792
18.3	Wall Fan.	2	2851	Rupees Two Thousand Eight Hundred Fifty One Only	Each	5702
	Makes:- Usha/Anchor/Bajaj					
19	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					
19.1	Exhaust Fan, light duty 300mm	1	2134	Rupees Two Thousand One Hundred Thirty Four Only	Each	2134
	Makes:- Usha/Anchor/Bajaj					

20	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, interconnections, powder painted, including earthing etc. as required.-(But without MCB/RCCB/isolator).					
20.1	Double door-12 way Makes: Legrand,Schiender,Anchor	1	2171	Rupees Two Thousand One Hundred Seventy One Only	Each	2171
21	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
21.1	Single pole. Makes: Legrand,Schiender,Anchor	8	249	Rupees Two Hundred Forty Nine Only	Each	1992
22	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
22.1	63 Amps. Makes: Legrand,Schiender,Anchor	1	3401	Rupees Three Thousand Four Hundred One Only	Each	3401
23	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
23.1	40 Amps.	1	459	Rupees Four Hundred Fifty Nine Only	Each	459
	63 Amps.Makes: Legrand,Schiender,Anchor	1	580	Rupees Five Hundred Eighty Only	Each	580
	Total					339656

*Detail Schedule of quantity checked and approved for: 339656-r/m*

Executive Engineer  
Electrical Division  
HPPWD Palampur

*[Signature]*

## DRAFT SCHEDULE OF QUANTITY

**NAME OF WORK :-** Providing Electrical Installation in the court of JMJC Tissa in Tehsil Churah Distt. Chamba H.P.

Job No 107

ESTIMATED COST: Rs. 1,07,715/-only.  
EARNEST MONEY: Rs. 2200/-only  
TIME ALLOWED: Two Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
	Group C	7	1715.00	Rupees One Thousand Seven Hundred Fifteen Only	Point	12005
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
2	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.					
2.1	2 X 2.5 sq. mm	10	371.00	Rupees Three Hundred Seventy One Only	P/Mtr	3710
2.2	2x4.0 Sq. mm.	50	445.00	Rupees Four Hundred Forty Five Only	P/Mtr	22250
2.3	2 X 06 sq. mm	9	618.00	Rupees Six Hundred Eighteen Only	P/Mtr	5562
2.6	4x4.0 Sq. mm.	15	710.00	Rupees Seven Hundred Ten Only	P/Mtr	10650
	<b>Make : KEI/Plaza/BEC/SCI</b>					
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
3.1	3x2.5 Sq. mm.	10	161.00	Rupees One Hundred Sixty One Only	P/Mtr	1610
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
4	Supplying and fixing suitable size G.I box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 15/16 Amps modular socket outlet and 15/16 Amps modular Switch connection etc. as required.	5	706.00	Rupees Seven Hundred Six Only	Each	3530



5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches. connection etc. as required. For light plugs to be used in non residential building).					
5.1	Modular GI box for 12 module	3	1284.00	Rupees One Thousand Two Hundred Eighty Four Only	Each	3852
6	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
6.1	3 module - Modular GI box with Modular base & cover plate	4	307.00	Rupees Three Hundred Seven Only	Each	1228
6.2	5 module - Modular GI box with Modular base & cover plate	1	421.00	Rupees Four Hundred Twenty One Only	Each	421
	Makes:- Anchor (Roma plus)					
7	Providing and installation of following type of IP-20 LED fixture 20 W+/-1W with surface mounted 4 Feet Batten Fixture with system efficacy 100lm/W with Aluminum housing P.F>0.95 with THD<20%, CCT 6500 K, CRI 80, Surge Protection 2 KV. The LED with Useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V Wipro Cat. No. LL20-281-XXX-AL-1/Philips/Trilux.					
7.1	LED Batten Light 20 Watt.	4	1342	Rupees One Thousand Three Hundred Forty Two Only	Each	5368
8	Supplying and fixing call/bell/buzzer suitable for single phase, 230 volts, complete as required	1	231	Rupees Two Hundred Thirty One Only	Each	231
	Makes:- Anchor.					
9	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
9.1	Modular bell push. ISI marked	1	258.00	Rupees Two Hundred Fifty Eight Only	Each	258
10	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.					
10.1	Ceiling Fan 1400 mm sweep	1	2698	Rupees Two Thousand Six Hundred Ninety Eight Only	Each	2698

	<b>Makes:- Usha/Anchor/Bajaj</b>						
11	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-						
11.1	Exhaust Fan, light duty 300mm	1	2134	Rupees Two Thousand One Hundred Thirty Four Only	Each	2134	
	<b>Makes:- Usha/Anchor/Bajaj</b>						
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator).						
12.1	Double door-12 way	1	2171	Rupees Two Thousand One Hundred Seventy One Only	Each	2171	
13	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-						
13.1	Single pole.	8	249	Rupees Two Hundred Forty Nine Only	Each	1992	
	<b>Makes:- Anchor Uno/Legrand/Schneider</b>						
14	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
14.1	40 Amps.	1	2554	Rupees Two Thousand Five Hundred Fifty Four Only	Each	2554	
	<b>Makes:- Anchor Uno/Legrand/Schneider</b>						
15	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
15.1	40 Amps.	1	459	Rupees Four Hundred Fifty Nine Only	Each	459	
	<b>Makes:- Anchor Uno/Legrand/Schneider</b>						



16	Earthing with copper earth plate 600 mmx600 mm x 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/coke and salt as required.	1	17632	Rupees Seventeen Thousand Six Hundred Thirty Two Only	Per set	17632
17	Providing and laying earth connection from earth with 4.00mm dia copper wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	25	296	Rupees Two Hundred Ninety Six Only	P/Run. Mtrs.	7400
Total						107715

*Deflt Schedule of quantity checked and approved for ₹ 107715 only*

*us*  
Executive Engineer  
Electrical Division  
HPPWD Palampur

## DRAFT SCHEDULE OF QUANTITY

**NAME OF WORK:-** Providing replacement of E.L. and safety devices to Sub Divisional Veterinary Hospital building at Jawali in Tehsil Jawali Distt. Kangra (H.P.)

**Job No.** 28

**ESTIMATED COST:** Rs.2,12,005/-only.  
**EARNEST MONEY:** Rs.4300/-only  
**TIME ALLOWED:** Six Months

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit. with 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 <b>Make: KEI/ Plaza/Anchor /SSK.</b>					
i)	Group C.	10	1712.00	Rupees One Thousand Seven Hundred Twelve Only	Point	17120
2	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable including dismantling as required. (including switch & bakelite sheet etc.) <b>Make: KEI/ Plaza/Anchor /SSK/SCI</b>					
i)	Group C.	21	805.00	Rupees Eight Hundred Five Only	Point	16905
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 including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch. connection, painting etc. as required <b>Make: SSK/Schneider/ Legrand/L&amp;T)</b>	7	290.00	Rupees Two Hundred Ninety Only	Each	2030

4	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required. <b>Make: SSK/Schneider/ Legrand/L&amp;T)</b>	8	485.00	Rupees Four Hundred Eighty Five Only	Each	3880
5	Supplying and fixing metal box of 200mm X 150mm X 75mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 No. 3 pin 5/6 amps socket outlet and 3 No. 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). <b>Make: SSK/Schneider/ Legrand/L&amp;T)</b>	2	495.00	Rupees Four Hundred Ninety Five Only	Each	990
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. <b>Make: KEI/Plaza/Anchor/SCI</b>					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	60	335.00	Rupees Three Hundred Thirty Five Only	Meter	20100
ii)	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	5	1108.00	Rupees One Thousand One Hundred Eight Only	Meter	5540
7	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. <b>Make: KEI/Plaza/Anchor/SCI</b>	72	473.00	Rupees Four Hundred Seventy Three Only	Meter	34056
8	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. <b>Make: KEI/Plaza/Anchor/SCI</b>	50	755.00	Rupees Seven Hundred Fifty Five Only	Meter	37750
9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. <b>Make: KEI/Plaza/Anchor/SCI</b>					

i)	3x1 5 Sq. mm.	30	111.00	Rupees One Hundred Eleven Only	Meter	3330
ii)	3x4 Sq. mm	30	253.00	Rupees Two Hundred Fifty Three Only	Meter	7590
10	Supplying and fixing bakelite batten/angle holder including connections etc as required -	1	98.00	Rupees Ninety Eight Only	Each	98
11	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. 3 rated star					
i)	Ceiling Fan 1200 mm sweep, (Make: Crompton Model: WWHE ISI)/ Usha/ Bajaj	8	2547.00	Rupees Two Thousand Five Hundred Forty Seven Only	Each	20376
12	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
i)	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD)/Bajaj (Model: Freshsee)/Anchor (Model: Anmol)/Crompton (Model: Drift air Plus.	1	2269.00	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	2269
13	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase. 230 volts complete as required:-	2	194.00	Rupees One Hundred Ninety Four Only	Each	388
14	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, with 5-years warranty complete with all accessories, connections, testing and commissioning etc. as required.					
i)	LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro	13	761.00	Rupees Seven Hundred Sixty One Only	Each	9893



15	Providing and fixing LED Bulk head of following rating and it should be compatible with specification i.e Power Factor $\geq 0.9$ , Harmonic Distortion $< 20\%$ and efficacy $\geq 100$ Lumens per watt, CRI rating $> 70$ suitable for input voltage: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i)	<b>Bulk Head Light LED 10 W (Make:- Bajaj Cat no.BIBWP 10W LED)/Mipro/Panasonic.</b>	3	1415.00	Rupees One Thousand Four Hundred Fifteen Only	each	4245
16	Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No. /ordering code LSTS-20-CDL-M , powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e power factor $\geq 0.9$ , Harmonic Distortion $< 10\%$ and efficiency $\geq 100$ Lumens per watt, CRI rating $> 70$ suitable for input voltage: AC 220-240 V, 50 Hz, with 5- years warranty including connection, testing and commissioning etc. as required.					
i)	<b>Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M)/Bajaj/Wipro</b>	1	1902.00	Rupees One Thousand Nine Hundred Two Only	each	1902
17	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:-					
i)	40 mm dia. G.I. pipe: heavy class	1	787.00	Rupees Seven Hundred Eighty Seven Only	each	787
18	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	<b>Single pole (Make:- Schneider/ Legrand/L&amp;T)</b>	14	265.00	Rupees Two Hundred Sixty Five Only	each	3710
19	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required					



i)	<b>63 Amps. Cat-A. 63 Amps. (Make:- Schneider/ Legrand/L&amp;T)</b>	1	616.00	Rupees Six Hundred Sixteen Only	each	616
20	Supplying and fixing following rating, double pole, (single phase and neutral). 240 V. residual current circuit breaker (RCCB). having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	<b>63 Amps. (Make:- Schneider/ Legrand/L&amp;T)</b>	1	3616.00	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
21	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.					
i)	<b>Double door-4 way (Make:- Schneider/ Legrand/L&amp;T)</b>	1	1572.00	Rupees One Thousand Five Hundred Seventy Two Only	Each	1572
ii)	<b>Double door-16 way (Make:- Schneider/ Legrand/L&amp;T)</b>	1	2954.00	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
22	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (Make: Sidharth/BEC)					
i)	25 mm. dia	5	265.00	Rupees Two Hundred Sixty Five Only	Meter	1325
23	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. - (Make: BEC Plast/PolyFit)					
i)	25 mm. dia	15	113.00	Rupees One Hundred Thirteen Only	Meter	1695

24	Earthing with G.I. earth pipe 4.5 metre long. 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	<del>1</del>	6188.00	Rupees Six Thousand One Hundred Eighty Eight Only	Set	6188
25	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	<del>24</del>	45.00	Rupees Forty Five Only	Meter	1080
TOTAL						212005

*Defect Schedule of quantity checked and prepared for 2120051 only*

*[Signature]*  
Executive Engineer  
Electrical Division  
HPPWD Palampur

## DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- Providing replacement of old lights with energy efficient LED lights & additional power plug in HPPWD (B&R) Sub - Division at Rehan in Tehsil Fatehpur, Distt. Kangra(H.P).		job No 89		ESTIMATED COST: Rs.1,27,546/-only. EARNEST MONEY: Rs.2600/-only TIME ALLOWED: Six Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch. connections, painting etc. as required. Make: SCI/Plaza/KEI/Polycab/ (Roma Pental/ Havells(Reo)/SSK or any other as approved by Engineer-in-Charge.	5	485.00	Rupees Four Hundred Eighty Five Only	each	2425
2	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/SCI.	40	473.00	Rupees Four Hundred Seventy Three Only	Per Meter	18920
3	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: SCI/KEI/Plaza.	25	755.00	Rupees Seven Hundred Fifty Five Only	Per Meter	18875
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required Make: KEI/Plaza/SCI					
	3 x 1.5 sq. mm	75	111.00	Rupees One Hundred Eleven Only	Per Meter	8325
5	Supplying and fixing suitable size GI box in front on surface or in recess. including providing and fixing 3 nos. 3 pin 5/6 amps piano socket outlets and 3 nos 5/6 amps piano switches. connection etc as required (For light plugs to be used in non residential buildings).	7	487.00	Rupees Four Hundred Eighty Seven Only	each	3409

6	Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy $\geq 100\text{lm/W}$ with Aluminium housing P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70 with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					
i) LED Batten 20W, 4 feet long (Make: Bajaj, cat no.BCLAB 20W LED P )/ Philips/Panasonic.with 5 year warranty.	7	<del>1044.00</del>	Rupees One Thousand Forty Four Only	Each	<del>7308</del>	
7	Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy $\geq 100\text{lm/W}$ with CRCA Housing and PMMA Diffuser with P.F.>0.95,THD<10%,CCT 5700 K ,CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70, with 5-years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					
i) LED Panel Light 36 watt 1'x4' , (Make: Bajaj, Cat no. BZSSL36L LED WH 1M/pro/Philips).	2	<del>6746.00</del>	Rupees Six Thousand Seven Hundred Forty Six Only	Each	<del>13492</del>	
8	Providing & fixing surface/ recess mounting LED liminaire of following rating with powder coated CRCA housing with high power LED's diffuser to avoid glare it should be compatible with specification i.e. Power factor > 0.9, harmonic distortion <10% and efficacy $\geq 100$ Lumens per watt, CRI ratings> 70 suitable for input voltage: AC 220-240 V, 50 HZ with all accessories, connections, testing and commissioning etc. as required. Make:-Crompton, Bajaj, Jaquar.					
LED Down Light 18W (Make:- Crompton Cat no. LCDSPLN-R-18-CDL )Bajaj/Jaquar.	2	1498.00	Rupees One Thousand Four Hundred Ninety Eight Only	Each	2996	



9	Providing and fixing of LED 20 watt street light luminaires of Bajaj having cat No PSTM27208, powder coated pressure die-cast aluminium heat sink and toughened glass SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e power factor $\geq 0.9$ Harmonic Distortion $< 10\%$ and efficiency $\geq 100$ Lumens per watt CRI rating $> 70$ suitable for input voltage AC 220-240 V 50 Hz with all accessories, connections, testing and commissioning etc as required Make:- Bajaj, Wipro Panasonic.					
10	1) LED Street Light 20 W (Make:- Bajaj Cat no. PSTM27208 )/Wipro/Panasonic.	5	2424.00	Rupees Two Thousand Four Hundred Twenty Four Only	Each	12120
11	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe banded to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required -	5	787.00	Rupees Seven Hundred Eighty Seven Only	Each	3935
12	Supplying and fixing LED 20 Watt Post Top fixture of following capacity are made of Die cast alum. housing with three nos. die cast aluminium arms are provided to support the housing Power LED's are mounted on metal clad PCB's and LED's & PCB assembly are mounted extruded aluminium Heat Sinks. A UV stabilized PC diffuser is provided as complete in all respects as required - (Make: Panasonic cat no. PPTM02208/Bajaj/Havells.with 5 year warranty	4	5190.00	Rupees Five Thousand One Hundred Ninety Only	each	20760
13	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required.	9	265.00	Rupees Two Hundred Sixty Five Only	Each	2385
14	1) Single pole (Make:- Schneider/Legrand/L&T)					
15	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc as required.					
16	1) 63 Amps. (Make:- Schneider/Legrand/L&T)	1	616.00	Rupees Six Hundred Sixteen Only	Each	616



14	Supplying and fixing following rating, double pole. (single phase and neutral). 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	i) 63 Amps. (Make:- Schneider/ Legrand/L&T)						
15	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board. 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	1	3616.00	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616	
	i) Double door-12 way (Make:- Schneider/ Legrand/L&T)	1	2309.00	Rupees Two Thousand Three Hundred Nine Only	each	2309	
16	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast)						
	25 mm. dia	35	113.00	Rupees One Hundred Thirteen Only	Per Meter	3955	
17	Supplying and fixing Polycarbonate Box including din bar to fix MCB & Cable termination link, complete with fixing in the existing wall including making good the damages etc. as required complete in all respects. Make:- Sintex/Hensel/FRP.	2	1050.00	Rupees One Thousand Fifty Only	Each	2100	
	Total					127546	

*Self Schedule of quantity rates and approved for 2.12.25 v6 only*

*[Signature]*  
Executive Engineer  
Electrical Division  
HPPW Palampur

## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Replacement of Electrical Installation and switch gear system into new one in HPPWD (B&R) Division Chamba (C- Branch & Accounts Branch) in Tehsil & Distt. Chamba. (H.P).

**Job No** 19

**ESTIMATED COST:** Rs.4,99,930/-only.  
**EARNEST MONEY:** Rs.10,000/-only  
**TIME ALLOWED:** One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/Plaza/Anchor/SCI					
1	Group C	63	1823.00	Rupees One Thousand Eight Hundred Twenty Three Only	P/Point	114849
2	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.Make: KEI/Plaza/Anchor/SCI					
2.1	2 X 1.5 sq. mm	98	335.00	Rupees Three Hundred Thirty Five Only	P/Mtr	32830
2.2	2 X 2.5 sq. mm	90	395.00	Rupees Three Hundred Ninety Five Only	P/Mtr	35550
2.3	2x4.0 Sq. mm.	90	471.00	Rupees Four Hundred Seventy One Only	P/Mtr	42390
2.4	2x6 Sq. mm.	2	657.00	Rupees Six Hundred Fifty Seven Only	P/Mtr	1314

3	Wiring for circuit / sub-main wiring alongwith earth wire with the following sizes of FRLSPVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make: KEI/Plaza/Anchor/SCI					
3.1	4x4 Sq. mm.	80	771.00	Rupees Seven Hundred Seventy One Only	P/Mtr	61680
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor/SCI					
4.1	3x2.5 Sq. mm.	20	171.00	Rupees One Hundred Seventy One Only	P/Mtr	3420
5	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. (Make:- Schneider/ Legrand/L&T)					
5.1	1 or 2 module (75mmx75mm).	15	276	Rupees Two Hundred Seventy Six Only	Each	4140
6	Supplying and fixing suitable size, GI box with modular plate base & cover plate for modular switches in recess etc as required. (Make:-Schneider/ Legrand/L&T)					
6.1	3 module - Modular GI box with Modular base & cover plate	14	582.00	Rupees Five Hundred Eighty Two Only	Each	8148
6.2	6 module - Modular GI box with Modular base & cover plate	5	750.00	Rupees Seven Hundred Fifty Only	Each	3750
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building). (Make:-Schneider/ Legrand/L&T)					
7.1	Modular G.I box for 12 module	14	1366.00	Rupees One Thousand Three Hundred Sixty Six Only	Each	19124

8	Supplying and drawing Lan Cable Cat 6 solid copper conductor protected with PVC sheath in the existing surface/recessed, steel/PVC conduit as required. (Make:-Schneider/ Legrand/L&T)					
8.1	1 Pair.	140	47.00	Rupees Forty Seven Only	Each	6580
9	Supplying and fixing RJ 45 jack with cat 6 in the existing switch box/cover plate including connections etc. as required. (Make:-Schneider/ Legrand/L&T)					
9.1	RJ 45 Comp. socket Cat-6.	14	489.00	Rupees Four Hundred Eighty Nine Only	Each	6846
10	Supplying and Fixing of following size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Make:- Polyfit/BEC/Diplast					
10.1	PVC conduit 25mm.	140	113.00	Rupees One Hundred Thirteen Only	Each	15820
11	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required Make:- GoldMedal/Anchor	14	117.00	Rupees One Hundred Seventeen Only	Each	1638
12	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required. Make:- Usha /Bajaj/Crompton					
12.1	Ceiling Fan 1200 mm sweep with 3 rated star	15	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	47865



13	Providing and installation of following type of surface mounting square type LED down light luminaire CCT(K)-6500 with specifications i.e power factor > 0.9, Harmonic Distortion <20% and efficacy > 100 lumens per watt, CRI rating >80 suitable for Input voltage: AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. with 5 year warranty.Make :-Wipro /Philips/Bajaj					
13.1	Square LED Panel Light 18 W surface.	6	1042	Rupees One Thousand Forty Two Only	Each	6252
14	Providing and installation of LED fixture 1200mmx300mm 36 W+/- 1 W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA Diffuser with P.F>0.95, THD<10%, CCT 5700 K , CRI 80, The LED shall be tested with LM80-08 standard with Useful life 50000 Hrs at L70 Bajaj Cat. No. BZSSL 36L LED WH IWipro/philips. with 5 year warranty.Make :-Wipro /Philips/Bajaj					
14.1	Rectangular LED panel Light 4'x1 36 Watt Surface.	1	6219.00	Rupees Six Thousand Two Hundred Nineteen Only	Each	6219
15	Providing and erection of LED 45 Watt street light luminaries, powder coated pressure die-cast aluminium SMDLED street light with heat resistant toughened glass including glass including connections, testing and commissioning etc. as required. with 5 year warranty.Make :-Wipro /Philips/Bajaj					
15.1	Street Light LED-45 watt.	1	6168	Rupees Six Thousand One Hundred Sixty Eight Only	Each	6168

16	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. <b>with 5 year warranty.</b> Make :- Wipro /Philips/Bajaj					
16.1	<b>LED Tube Fixture 20Watt</b>	17	975	Rupees Nine Hundred Seventy Five Only	Each	16575
17	Wall light fixture, brushed nicke finish body, opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base. Make :- Decon/Bajaj/Philips					
17.1	<b>Fancy wall bracket.</b>	2	1645	Rupees One Thousand Six Hundred Forty Five Only	Each	3290
18	Providing and fixing of IP65 system Bulkhead led fixture 10 W +/ 1 W Wall Mounted with minimum lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing. Polycarbonate Opal Diffuser and P.F. $> 0.95$ with THD $< 10\%$ . CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. <b>with 5 year warranty.</b> Make :- Wipro /Panasonic/Bajaj					
18.1	<b>LED Bulk Head Light 10W</b>	3	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	4296
	Supplying and fixing PVC batten/angle holder including connection etc. as required. Make Anchor/Havells/Bajaj	2	94	Rupees Ninety Four Only	Each	188
19	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects. Make Anchor/Havells/Bajaj					

29.1	<b>7 Watt LED, B-22</b>	4	199	Rupees One Hundred Ninety Nine Only	Each	796
20	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, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/Isolator), (Make:-Schneider/Legrand/L&T)					
20.1	<b>Double door-4 way</b>	3	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	4716
20.2	<b>Double door-16 way</b>	3	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	8862
21	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- (Make:-Schneider/Legrand/L&T)					
21.1	<b>Single pole.</b>	42	265	Rupees Two Hundred Sixty Five Only	Each	11130
22	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:-Schneider/Legrand/L&T)					
22.1	<b>63 Amps.</b>	3	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	10848
23	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:-Schneider/Legrand/L&T)					

23.1	63 Amps.		3	616	Rupees Six Hundred Sixteen Only	Each	1848
24	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. (Make:-Schneider/ Legrand/L&T)						
24.1	3 pole MCCB-100 Amps. 10KA	1		6848	Rupees Six Thousand Eight Hundred Forty Eight Only	Each	6848
25	Providing and fixing Enclosure for MCCBs suitable for 3Pole & 4Pole MCCBs etc. AR as required complete in all respect. (Make:-Schneider/ Legrand/L&T)	1		1949	Rupees One Thousand Nine Hundred Forty Nine Only	Each	1949
26	Supplying and fixing TP&N copper bus bar chamber suitable for 415 volts capacity with 4 No. copper strip bus-bars of length and x-section suitable for following current carrying capacities, enclosure made of steel, dust protected, duly powder painted with detachable gland plate and other accessories including drilling holes on the board, making connections, earthing etc. as required (Make:-Schneider/ Legrand/L&T)						
26.1	Copper Bus-Bar Chambers 15" 100 Amps.	1		4001	Rupees Four Thousand One Only	Each	4001
	Total						499930

Draft Schedule of quantity attached and approved for ₹ 499930/-

Executive Engineer  
Electrical Division  
HPPWD Palampur



## SCHEDULE OF QUANTITY

NAME OF WORK :-C/O War Musecum at Dharamsala Distt Kangra (HP). (SH:-Providing Air Conditioner in lower ground floor and Library first floor Balance work)					
SR. NO.	DESCRIPTION	QTY.	Job No 11		ESTIMATED COST: Rs.1,95,634/-only. EARNEST MONEY: Rs.4000/-only TIME ALLOWED: One month
			FIGURES	RATES WORDS	
1	Providing and installation of 1.8TR hot and cold Split Type AC 3star 5KVA Voltage Stabilizer with R32 Refrigerent Operating Range cooling capacity 19.4~50 degree CDB and heatings capacity 4~24 degree CDB with power supply 220-240v, Power supply intake outdoor unit,with cooling & Heating capacity Rated Min~Max 6.0/3.0(2.5~6.0) Power consumption for Heating & Cooling Min~Max 1970/780(780-1970)W, and Operation sound for cooling & Heating 47/45/43/40/38 DBA,Air flow rate cooling & Heating 16.3 m3/min making connections , testing etc.complete in all Respect with best satisfaction of engineer -in- Charge				
1.1	1.8 TR Split AC Hot and Cold	1	99874	Rupees Ninety Nine Thousand Eight Hundred Seventy Four Only	Each 99874
	Makes:-DAIKIN /o -general /Voltas/ Mitsubishi				
2	Providing and fixing of copper tube for refrigerent size (12.7 mm - 6.4mm) for 1.8 T.R. Split AC unit as required complete in all respects and as per direction and satisfaction of Engineer in charge.	28	1350	Rupees One Thousand Three Hundred Fifty Only	Per Meter 37800
3	Providing and fixing of Nitrile Tubular Insulationac indoor to outdoor for COPPER PIPING as required complete in all respects and as per direction and satisfaction of Engineer in charge.	28	480	Rupees Four Hundred Eighty Only	Per Meter 13440
4	Providing and laying of communication wire 2.5 Sq.mm. (4 core) as required complete in all respects and as per direction and satisfaction of Engineer in charge.	48	225	Rupees Two Hundred Twenty Five Only	Per Meter 10800

5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required complete in all respects and as per direction and satisfaction of Engineer in charge	42	180	Rupees One Hundred Eighty Only	Per Meter	7560
6	Providing and fixing of MS Galvanised cable tray of size 100mm x 50mm as required complete in all respects and as per direction and satisfaction of Engineer in charge.	13	1820	Rupees One Thousand Eight Hundred Twenty Only	Per Meter	23660
7	Providing and fixing of MS Pre-fabrication condensing unit stands as required complete in all respects and as per direction and satisfaction of Engineer in charge.	1	2500	Rupees Two Thousand Five Hundred Only	No.	2500
Total						195634

09 Sept Schedule of quantity checked and approved for 2.195634-0449

Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

**NAME OF WORK :-**Replacement of Old FTL fixtures with new LEDs in Fourth floor and Fifth floor of Super Specialty Block, Dr. RPGMC Kangra at Tanda.

**ESTIMATED COST :** Rs.2,88,386/-  
**EARNEST MONEY:** Rs.5800/-  
**TIME ALLOWED:** Two Months

Job No  
12

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and installation of LED fixture 1200mm x 300mm, 36W +/- 1W recess mounted with PMMA diffuser with having minimum system lumen efficacy of 100 lm/W with CRCA housing and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 year warranty.					
	<b>36 Watt Recess mounted Panel-1'x 4'</b>	4	6819.00	Rupees Six Thousand Eight Hundred Nineteen Only	Each	27276
	<b>Makes: Wipro/Havells/Panasonic</b>					
2	Providing and fixing of LED fixture 600mm x 600mm 36Watt +/- 1W surface mounted having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.with 5 year warranty.					
	<b>36 Watt LED 2'x2' Recess panel</b>	42	5409.00	Rupees Five Thousand Four Hundred Nine Only	Each	227478
	<b>Makes: Wipro/Havells/Panasonic</b>					
3	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.with 5 year warranty.					

	18 Watt LED round/square Surface	14	1562.00	Rupees One Thousand Five Hundred Sixty Two Only	Each	21868
	Makes: Wipro/Havells/Panasonic					
4	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required, complete in all respects with 5 year warranty.					
	18 Watt LED Tube fixture	8	1508.00	Rupees One Thousand Five Hundred Eight Only	Each	12064
	Makes:-Philips/Wipro/Bajaj					
	Total					288386

*Draft Schedule of quantity checked and approved for 288386/only*

Executive Engineer  
Electrical Division  
HPPWD, Palampur



## SCHEDULE OF QUANTITY

NAME OF WORK :-C/O War Museum at Dharamsala Distt Kangra (HP). (SH:- Balance work of Providing Fire Alarm System and Fire Fighting System theein).		Job No / 2		ESTIMATED COST: Rs.4,93,298/-only. EARNEST MONEY: Rs.9900/-only TIME ALLOWED: One month		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES WORDS	UNIT	AMOUNT
	Makes:- Zoloto/SantLeader.  Providing, laying, jointing, testing and commissioning of following sizes of MS 'C' Class (Heavy duty) pipes conforming to IS-1239 with all fittings (standard MS fitting with welded joint shall be used on the pipes) including tees, elbows, reducers, union, flanges, rubber gaskets, GI nuts bolts, washer including supporting/fixing the pipe on floor / wall /ceiling with clamps, hangers (using anchor fasteners) as per specification. including cutting holes and chases in brick, RCC work and making good the same to original conditions complete in all respects. All hangers, clamps, brackets etc. shall be of iron unless specified otherwise and then supply of the same shall also be included for rates under this head. Welding of any kind on the galvanized support / hanger shall not be permitted including synthetic enamel paint of approved shade over a coat of zinc primer. Priorto application of primer the surface should be cleaned dirt, rusts, rough substance etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
1						
1.1	25mm dia pipe	18	612	Rupees Six Hundred Twelve Only	Per Meter	11016
1.2	80mm dia pipe	6	1843	Rupees One Thousand Eight Hundred Forty Three Only	Per Meter	11058
1.3	150mm dia pipe	40	3792	Rupees Three Thousand Seven Hundred Ninety Two Only	Per Meter	151680
Makes:- Jindal/B.S.T./Surya Tube.						

2	Providing two coats of synthetic enamel paint of approved shade over a coat of primer. Prior to application of primer the surface should be cleaned for any dirt, rusts, rough substance etc. Including painting of legends both direction arrow as per the approval of the Project Manager as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
2.1	25mm dia pipe	18	50	Rupees Fifty Only	Per Meter	900
2.2	80mm dia pipe	6	70	Rupees Seventy Only	Per Meter	420
2.3	150mm dia pipe	40	90	Rupees Ninety Only	Per Meter	3600
3	Providing & fixing ball valve 25mm dia. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	5	1574	Rupees One Thousand Five Hundred Seventy Four Only	Each	7870
	<b>Make SantuZoloto/Advance</b>					
4	Providing & Fixing of wall mounting swinging type first aid fire hose reel with drum, hanging bracket, 30 Mtr. length x 20 mm dia high pressure hose reel tubing as per IS: 444 with gun metal (GM) shut off nozzle having 5 mm dia orifice. The hose reel shall be conforming to IS : 884-1985. Rate shall include 25 mm dia M.S. pipe connection from Riser to hose reel, sockets, nipples, elbows and ball valve (25 mm dia). Drum shall be fixed on adjoining wall through anchor fasteners / cement concrete block as and when required complete in all respects and to the best satisfaction of Engineer-in-charge..	3	14412	Rupees Fourteen Thousand Four Hundred Twelve Only	Each	43236
	<b>Make: Minimax /AAG India / Omex</b>					
5	Providing Cast iron /steel Butterfly Valve Confirming to type P, N 1.6 of I.S 13095-1991 Complete with Flanges bolt, nuts, gasket etc. As per table 'E' specification complete in all respect hydraulically test to 20 K/sqcm. as required complete in all respects and to the best satisfaction of Engineer-in-charge.					

5.1	150 mm Dia	2	9361	Rupees Nine Thousand Three Hundred Sixty One Only	Each	18722
	Makes:-Zoloto/Sant/Audco					
6	Providing and fixing Cast Iron dual plated Check Valve (NRV) horizontal type with gunmetal seat non-return valve confirming to class - I of IS : 5312 including nuts, bolts, 1.5 mm thick compressed asbestos gasket as per table "E" and specifications as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
6.1	150 mm Dia	1	14546	Rupees Fourteen Thousand Five Hundred Forty Six Only	Each	14546
	Makes:-Zoloto/Sant/Audco					
7	Providing & fixing of Bitumein sheet 4mm thick (pipekot) wrapping & coating with Excavation for underground pipe 150 mm dia. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	165	1250	Rupees One Thousand Two Hundred Fifty Only	Per Meter	206250
8	M.S Structure work for Frame in Hose Cabinet and Angle suport for the laying the M.S Pipe compile in all respect.	150	160	Rupees One Hundred Sixty Only	Per Kg.	24000
	Total					493298

*Draft Schedule of quantity checked and approved for 493298 only*

*[Signature]*  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur

## DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:-Providing copper earthing to the main E.I. panel along with flood lighting in the campus of Sardar Shobha Singh Auditorium Dr. RPGMC Kangra at Tanda.			Job No. <del>11</del>		ESTIMATED COST: Rs. 1,66,017/-only. EARNEST MONEY: Rs.3400/-only TIME ALLOWED: Two Months	
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Earthing with copper earth plate 600 mm X 600 mm X3 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal /coke and salt as required.	2	18749	Rupees Eighteen Thousand Seven Hundred Forty Nine Only	Per Set	37498
2	Providing and Fixing 25mm x 5mm copper strip on surface or in recess for earth connections etc.	40	1562	Rupees One Thousand Five Hundred Sixty Two Only	Per Meter	62480
3	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit and earthing the point with 1.5 sq.mm.FRLS PVC insulated copper conductor single core cable etc as required.(But without p/t switch,phenolic laminated sheet and M.S.box)					
	Group C	6	1133	Rupees One Thousand One Hundred Thirty Three Only	Point	6798
	Make:- KEI/Anchor/Plaza/SCI)Legrand(Myrius),L&T(Entice),Schneider(Livia).					
4	Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor,single core cable in surface / recessed medium class PVC conduit as required.					
	2x10 sq.mm+1x6 sq.mm earth wire	30	673	Rupees Six Hundred Seventy Three Only	Each	20190



	Make:- KEI/Havells/Plaza/SCI)					
5	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board 240 volts, on surface/recess, complete with tinned copper bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB/RCCB/isolator)					
	6 Way, Double door	1	1737	Rupees One Thousand Seven Hundred Thirty Seven Only	Each	1737
	Make:- L&T/Legrand/Schnieder.					
6	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required					
	63 A, Double pole	3	616	Rupees Six Hundred Sixteen Only	Each	1848
	Make:- L&T/Legrand/Schnieder.					
7	Supplying and fixing of LED flood light luminaire with the use of the latest technology 60 watt (6000 lumens), 6500K made of CRCA housing and it should be compatible with specifications i.e. power factor > 0.95, harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI > 80, Suitable for input voltage AC 150-270 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. as required with 5 years warranty.					
	LED 60 Watt Flood light	6	5911	Rupees Five Thousand Nine Hundred Eleven Only	P/Mtr.	35466
	Makes:- Havells/Wipro/Panasonic					
	Total					166017

*Bill Schedule of quantity checked and approved for 166017/rs*

Executive Engineer  
Electrical Division  
HPPWD Palampur