

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2023-24/- 8442-50

Dated: 17/2/24

To

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

Subject: Publishing of Tender Notice.

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

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

DA/NIT,SQs

Executive Engineer
Electrical Division
HP PWD Palampur

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

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

Executive Engineer
Electrical Division
HP PWD Palampur

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

"Notice Inviting Tenders"

Sealed 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 **29-02-2024** 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 **28-02-2024** up to 4.00 P.M. and the application for issue of tender form shall be received on **27-02-2024** 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	Repair and Maintenance of E.I. to various Govt. Non-Residential Building under ESD Dharamshala Distt. Kangra (H.P)(SH:- Shifting of UPS and replacement of EI in the office of Sr. Architect (KZ) HP Public Works Department Dharamshala in Distt. Kangra (HP).	111282/-	2300/-	Three Months	8	350/-
2	R/M of E.I. of Rest House Dharamshala Distt. Kangra (H.P)(SH:- Repair of E.I. during Vidhansabha session 2023).	116864/-	2400/-	Three Months	8	350/-
3	C/O Govt. Sr. Sec. School at Bilaspur in Tehsil Dehra, Distt. Kangra (H.P)(SH:- C/O 2 Rooms in GF with Verandah)(SH:- Providing E.I. therein).	144221/-	2900/-	One Year	8	350/-
4	C/O Five Rooms in Govt. Sr. Sec. School at SihorBalla in Tehsil Khundian, Distt. Kangra (H.P)(C/O 3 Rooms in GF & 2 Rooms in FF with Verandah)(SH:- Providing E.I. therein).	311149/-	6300/-	One Year	8	350/-
5	Repair and Maintenance of Toilet Block at Main Boys Hostel Dr. RPGMC Kangra at Tanda.(SH:- Providing E.I. therein).	488856/-	9800/-	Three Months	8	350/-
6	C/O P.G. Hostel for Boys and Girls at Dr. RPGMC Kangra at Tanda.(SH:- Providing EI to Security Posts near Main Gate therein).	219728/-	4400/-	Three Months	8	350/-
7	C/O Veterinary Dispensary building at Jarot in Tehsil Jawali, Distt. Kangra (H.P)(SH:- Providing E.I. therein).	119984/-	2400/-	Two Year	8	350/-

8	Replacement of Electrical wiring in the Office of the Assistant Engineer N.H. Sub Division, HPPWD Dehra in Tehsil Dehra Distt. Kangra (HP)	233143/-	4700/-	Three Months	8	350/-
9	Replacement of E.I. and Switchgear system into new one Sub Division Office @ Residence at Bharmour in Tehsil Bharmour Distt. Chamba (H.P.)	155398/-	3200/-	Six Months	8	350/-
10	Repair and Maintenance of various sets (First Floor) in HP PWD Rest House at Khundian in Tehsil Khundian Distt. Kangra (HP)(SH:- Providing E.I. therein)	478222/-	9600/-	Six Months	8	350/-
11	C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing E.I. to Director Room, Emergency Room, Store room & PICU at Critical Care Skill Lab/Simulation Lab therein)	495438/-	10000/-	Three Months	8	350/-
12	C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing E.I. to Entrance Area, Conference Room, Faculty Room, Reception area at Critical Care Skill Lab/Simulation Lab therein)	493348/-	9900/-	Three Months	8	350/-

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SCHEDULE OF QUANTITY

Name of Work :- Repair and Maintenance of E.I. to various Govt. Non-Residential Buildings under ESD Dharamshala Distt. Kangra (H.P.)
(SH: Shifting of UPS and replacement of EI in The office of Sr. Architect (KZ) HP Public Works Department Dharamshala in Distt. Kangra HP.

job No 1

ESTIMATED COST: Rs.1,11,282/-only.
EARNEST MONEY: Rs.2300/-only
TIME ALLOWED: Three 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 for wires: KEI/Plaza/Anchor Make for Switches: Schneider (Liviva)/ Legrand (Myrius) /L&T(Entice).					
	Group C.	9	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	16407
2.00	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make :- KEI/Plaza/Havells					
	2x6 Sq. mm.	30	657	Rupees Six Hundred Fifty Seven Only	Per metrtte	19710
	2x10 Sq. mm.	40	793	Rupees Seven Hundred Ninety Three Only	Per metrtte	31720

3.00	Supplying and fixing 20 Amps, 240 volts, SPN industrial socket outlet, 2-pole & earth, metal enclosed plug top, sheet steel enclosure, suitable to accommodate a 20 Amp SPN-MCB/DP, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required. Make:- L&T/Legrand/Schneider	2	1878	Rupees One Thousand Eight Hundred Seventy Eight Only	Each	3756
4.00	Providing and Fixing of LED Downlighter of following watt +/- 1 W LED Surface Mounted Downlighter Square/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. 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. with 5 year warranty.					
4.01	LED Surface mounting round downlighter 20 watt Makes:- Philips /Mipro/ Bajaj.	12	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	18744
5.00	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 6500K, 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. with 5 year warranty.					
5.01	LED fixture 1x18 Watt Surface Mounted 4 Feet Box Type Channel with Pro LED Lamp Makes:- Philips /Mipro/Bajaj.	9	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Each	16407

6.00	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.					
6.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD) /Bajaj (Model: Freshie) /Anchor (Model: Anmol) /Crompton (Model: Drift air Plus) .	2	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	4538
	Total					111282

Draft schedule of quantity checked and approved to Rs 111282/-

Executive Engineer
Electrical Division
HPPWD Palampur

[Signature]

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
Name of Work :- R/M of E.I of Rest House Dharamshala Distt Kangra (H.P) (SH : Repair of E.I during Vidhansabha session 2023).			job No 2		ESTIMATED COST: Rs.1,16,864/-only. EARNEST MONEY: Rs.2400/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make:- Anchor/Legrand/Schenider					
1.01	S.P. 5/ 6 Amps one way Modular switch.	6	117	Rupees One Hundred Seventeen Only	Each	702
1.02	S.P. 15/ 16 Amps one way Modular switch.	4	217	Rupees Two Hundred Seventeen Only	Each	868
1.03	5 pin, 5/ 6 Amps Modular socket outlet.	3	141	Rupees One Hundred Forty One Only	Each	423
1.04	6 pin,15/16 Amps Modular socket outlet.	3	297	Rupees Two Hundred Ninety Seven Only	Each	891
2.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
2.01	40 Amps. (Make:- Schneider/ Legrand/L&T)	3	488	Rupees Four Hundred Eighty Eight Only	Each	1464
2.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	3	616	Rupees Six Hundred Sixteen Only	Each	1848

3.00	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-					
3.01	25 Liter capacity water heater (Cat-A) Makes: Usha/Bajaj/Racold	3	10250	Rupees Ten Thousand Two Hundred Fifty Only	Each	30750
4.00	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.					
4.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Makes: Bajaj/Usha/Crompton	3	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	6807
5.00	Providing and fixing LED tube fixture (including the cost of Batten/channel and LED Lamp) suitable for surface application with the use of the latest technology 18 watt (1800 Lumen) 6000K and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $\leq 10\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 Year warranty. Makes: Havells/ Bajaj/ Philips /Wipro.	5	945	Rupees Nine Hundred Forty Five Only	Each	4725
6.00	Supplying and fixing LED lamps of Following watt with polycarbonate diffuser on the existing light point as required complete in all respect .Make:- OSRAM/Havells/Bajaj					
6.01	LED Lamp 12 watt	20	201	Rupees Two Hundred One Only	Each	4020
7.00	Providing skilled Electrician-II and unskilled Team-mate for electrical maintenance during H.P. Vidhan Sabha session during January 2023.	1	16506	Rupees Sixteen Thousand Five Hundred Six Only	Per Job	16506
8.00	Providing and Fixing of Following type Electric heater as required complete in all respects.					

8.01	Heat Pillar	9	4050	Rupees Four Thousand Fifty Only	Each	36450
8.02	Room Heater Double Rod	4	1825	Rupees One Thousand Eight Hundred Twenty Five Only	Each	7300
8.03	Kitchen Heater	2	330	Rupees Three Hundred Thirty Only	Each	660
9.00	Providing and Fixing of Following material for repair of Water Heater of Different Capacity as required complete in all respects.					
9.01	Geyser Element 2000 Watt Triangular Type	3	880	Rupees Eight Hundred Eighty Only	Each	2640
9.02	Thermostat	3	270	Rupees Two Hundred Seventy Only	Each	810
	Total					116864

Back Sheet Rule of Quantity checked and approved by 116864

Executive Engineer
Electrical Division
HPPWD Palampur

M. E.

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Govt. Sr. Sec. School at Bilaspur in Tehsil Dehra, Distt Kangra(HP). (SH: C/O 2 Rooms in GF with Verandah) (SH: Providing E.I therein).

Job No **3**

ESTIMATED COST: Rs.1,44,221/-only.
EARNEST MONEY: Rs.2900/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HFRFRLS/PVC insulated single core copper conductor cable as required.					
i	Group C. Makes:- Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus),Plaza/KEI/SCI	28	1824	Rupees One Thousand Eight Hundred Twenty Four Only	P/Pt	51072
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 steel conduit as required					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	15	361	Rupees Three Hundred Sixty One Only	P/Mtr	5415
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 steel conduit as required.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	25	395	Rupees Three Hundred Ninety Five Only	P/Mtr	9875
4	Providing & Laying of one number Aluminium Conductor,PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					

i	Armoured Cable 10Sq.mm (Twin Core)	18	285	Rupees Two Hundred Eighty Five Only	P/Mtr	5130
	Makes: Plaza/KEI/SCI					
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.					
i	3X2.5Sq.mm	8	171	Rupees One Hundred Seventy One Only	P/Mtr	1368
	Makes: Plaza/KEI/SCI					
6	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.					
i	Makes: Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus)	2	582	Rupees Five Hundred Eighty Two Only	Each	1164
7	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
i	Single pole. Cat-A.	4	265	Rupees Two Hundred Sixty Five Only	Each	1060
	Makes: Legrand,Schlender,L&T					
8	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	40 Amps. Cat-A.	1	488	Rupees Four Hundred Eighty Eight Only	Each	488
	Makes:- Legrand,Schlender,L&T					

9	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.					
i	40Amps. Cat-A.	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
	Makes: Legrand,Schiender,L&T					
10	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.(But without MCB/RCCB/isolator).					
	Makes: Legrand,Schiender,L&T					
i	Double door-8 way	1	1897	Rupees One Thousand Eight Hundred Ninety Seven Only	Each	1897
11	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. (but with charcoal/ coke and salt) as required.	1	5819	Rupees Five Thousand Eight Hundred Nineteen Only	P/Set	5819
12	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20	33	Rupees Thirty Three Only	P/Mtr	660
13	Supplying and fixing of LED Tube Light 20watts ,5700K (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz. complete with all accessories, connections, testing and commissioning etc as required.(With Five years warranty)					

i	LED Tube Light 4 Feet Long					
	Makes: Havells, Panasonic (5700 K PBTM 1722822W)& wipro.	15	1622	Rupees One Thousand Six Hundred Twenty Two Only	Each	24330
14	Providing and installation of following type of surface mounting square/round type LED panel Light with aluminium die cast housing in white finish with anti glare polycarbonate diffuser and separated energy efficient constant current, nonintegral, electronic driver, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing etc. as required (With Five years warranty)					
i	LED Downlighter 15Watts	4	1107	Rupees One Thousand One Hundred Seven Only	Each	4428
ii	Makes: Bajaj (Model-BPSLR Surface 15W LED RD SD)/Panasonic & Wipro.					
15	Supplying and fixing of LED Street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP65 protection and impact resistance of IK07 with 10 kV Built-in surge Protection Device. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V. (With 5 Years Warranty)					
	LED Street light 30 Watts					
	Makes: Havells, Panasonic, Bajaj.	1	3272	Rupees Three Thousand Two Hundred Seventy Two Only	Each	3272

16	Providing, Installation, testing and commissioning of ceiling fan without 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: (With Five years warranty)					
i	Ceiling Fan 1200 mm sweep, Category-A					
	Make:- Usha(Technix Plus), Bajaj, Havells	8	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	25528
	Total					144221

Dr. J. S. Choudhary, Secretary, Electrical Division, HPPWD, Palampur

Executive Engineer
Electrical Division
HPPWD Palampur

[Signature]

SCHEDULE OF QUANTITY

NAME OF WORK :-C/O Five Rooms in Govt. Sr. Sec. School at Sihor Balla in Tehsil Khundian, Distt Kangra(HP)(C/O 3 Rooms in GF & 2 Rooms in FF with Verandah) (SH: Providing E.I therein).		Job No 4		ESTIMATED COST: Rs.3,11,149/-only. EARNEST MONEY: Rs.6300/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
i	Group C. Makes:- Legrand(Myrius),Schiender(Livia),Anchor Roma(Plus)/SCI	66	1824	Rupees One Thousand Eight Hundred Twenty Four Only	P/Pt	120384
2	Wiring for Twin Control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with 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.					
i	Group C. Makes:- Legrand(Myrius),Schiender(Livia),Anchor Roma(Plus),L&T(Entice)/SCI.	2	1894	Rupees One Thousand Eight Hundred Ninety Four Only	P/Pt	3788
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 steel conduit as required					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	35	361	Rupees Three Hundred Sixty One Only	P/Mtr	12635

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.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	70	395	Rupees Three Hundred Ninety Five Only	P/Mtr	27650
5	Providing & Laying of one number Aluminium Conductor, PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
i	Armoured Cable 10Sq.mm (Twin Core)	20	285	Rupees Two Hundred Eighty Five Only	P/Mtr	5700
	Makes: Plaza/KEI/SCI					
6	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
i	3X1.5 Sq.mm	15	111	Rupees One Hundred Eleven Only	P/Mtr	1665
ii	3X2.5Sq.mm	25	171	Rupees One Hundred Seventy One Only	P/Mtr	4275
	Makes: Plaza/KEI/SCI					
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 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.					
i	Makes: Legrand(Myritus),Schneider(Livia),Anchor Roma(Plus)	5	582	Rupees Five Hundred Eighty Two Only	Each	2910
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					
i	Single pole. Cat-A.	10	265	Rupees Two Hundred Sixty Five Only	Each	2650

	Makes: Legrand,Schiender,L&T.							
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.							
i	40 Amps. Cat-A.	1	488	Rupees Four Hundred Eighty Eight Only	Each	488		
	Makes:- Legrand,Schiender,L&T.							
10	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
i	40Amps. Cat-A.	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715		
	Makes: Legrand,Schiender,L&T.							
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.(But without MCB/RCCB/isolator).							
	Makes: Legrand,Schiender,L&T.							
i	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954		
12	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. (but with charcoal/ coke and salt) as required.	1	6188	Rupees Six Thousand One Hundred Eighty Eight Only	P/Set	6188		
13	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20	33	Rupees Thirty Three Only	P/Mtr	660		

14	Supplying and fixing of LED Batten along with 20Watt LED Tube Light ,6500K ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Makes: Havells ,Bajaj ,wipro With 5 year warranty					
i	LED Tube Light 4 Feet Long					
	Makes: Havells,Bajaj,wipro	37	875	Rupees Eight Hundred Seventy Five Only	Each	32375
15	Providing and fixing surface/Recess mounted Round/Square downlighter with die cast Al housing in white powder coated finish, anti glare diffuser and and energy efficient electronic driver ,suitable for surface application with the use of the latest technology 18watt (1800 Lumen) 6000K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. With 5 year warranty					
i	Round/Square LED Surface/Recess Panel Light 18/20 Watts	7	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	10934
	Makes:-Bajaj ,Havells,wipro,Panasonic					
16	Supplying and fixing of LED Street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP65 protection and impact resistance of IK07 with 10 kV Built-in surge Protection Device. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V. (With 5 Years Warranty)					
	LED Street light 30 Watts					
	Makes: Havells,Panasonic, Bajaj.	2	3272	Rupees Three Thousand Two Hundred Seventy Two Only	Each	6544

17	Supplying and fixing of bulk head fitting LED 10 watt+/-1W with minimum system Lumen efficiency of 100lm/W with and P.F. 0.95 with THD, 10%, CCT 5700K, CRI 70, Surge protection 4KV. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V to 270V complete with all accessories, connections, testing and commissioning etc. as required. With 5 year warranty					
i	LED 10 Watt Bulk Head	2	1407	Rupees One Thousand Four Hundred Seven Only	Each	2814
	Makes: Bajaj, Havells, wipro					
18	Providing, Installation, testing and commissioning of ceiling fan without 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: (With Five years warranty) with not less than 3 rated star					
i	Ceiling Fan 1200 mm sweep, Category-A					
	Make:- Usha(Technix Plus), Bajaj, Crompton	20	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	63820
	Total					311149

Draft schedule of quantity checked and approved by 31/1/14

Executive Engineer
Electrical Division
HPPWD Palampur

[Signature]

SCHEDULE OF QUANTITY

Name of Work :- Repair and Maintenance of Toilet Block at Main Boys Hostel Dr. RPGMC Tanda at Kangra (SH:- Providing EI therein).						
ESTIMATED COST: Rs.4,88,856/-only.						
EARNEST MONEY: Rs.9800/-only						
TIME ALLOWED: Three Months						
SR. NO.	DESCRIPTION	QTY.	job No 5		UNIT	AMOUNT
			FIGURES	RATES 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.					
1.1	Group A (Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia)/SCI	104	946	Rupees Nine Hundred Forty Six Only	P/Pt	98384
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	2x1.5 Sq. mm.	95	212	Rupees Two Hundred Twelve Only	P/Mtr	20140
2.2	2x4 Sq. mm.	45	348	Rupees Three Hundred Forty Eight Only	P/Mtr	15660
2.4	4x4 Sq. mm.	50	607	Rupees Six Hundred Seven Only	P/Mtr	30350
	(Make:-KEI / Anchor / Plaza/SCI)					
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					

3.1	3x1.5 Sq. mm.	55	111	Rupees One Hundred Eleven Only	P/Mtr	6105
	(Make:-KEI / Anchor / Plaza/SCI)					
5	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
5.1	S.P. 5/ 10Amps one way Modular switch.	24	130	Rupees One Hundred Thirty Only	Each	3120
	Makes:- L&T/Legrand/Schneider.					
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	16	582	Rupees Five Hundred Eighty Two Only	Each	9312
	Makes:- Anchor/Legrand/Schneider.					
7	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	16	750	Rupees Seven Hundred Fifty Only	Each	12000
	Makes:- Anchor/Legrand/Schneider.					
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 kA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
8.1	Single pole. Cat-A.	24	265	Rupees Two Hundred Sixty Five Only	Each	6360
	Makes:- Legrand/L&T/Schneider.					
9	Supplying and fixing following rating, following pole, 240/415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
9.1	63 Amps. Double Pole	8	616	Rupees Six Hundred Sixteen Only	Each	4928
	Makes:- Legrand/L&T/Schneider.					

10	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
10	63 Amps. Cat-A.	8	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	28928
	Makes:- L&T/Legrand/Schneider.					
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
11.1	Double door-8 way	8	1897	Rupees One Thousand Eight Hundred Ninety Seven Only	Each	15176
	Makes:- L&T/Legrand/Schneider.					
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:					
12.1	Exhaust Fan, Heavy duty 300 mm sweep	8	4347	Rupees Four Thousand Three Hundred Forty Seven Only	Each	34776
	Makes:- Usha / Bajaj/ Crompton.					
13	Providing and installation of following wattage LED square/round surface downlighter with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 6000 K, CRI 80. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					

13.1	LED Surface mounting Square/Round downlighter 18 Watt	8	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	12496
	Makes: Bajaj/ Wipro/Havells					
14	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
14.1	LED Bulk Head 10 Watt	72	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	103104
	Makes: Bajaj/ Wipro/Havells					
15	Providing and fixing LED Mirror Light of IP20, LED fixture 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 with 5 years warranty complete in all respects.					
15.1	LED Mirror Light 10 W	24	801	Rupees Eight Hundred One Only	Each	19224
	Makes:- Phillips/Wipro/Bajaj					
16	Providing and installation of stationary storage type Electric water heater (Geyser) of various Sizes by means of expansion-bolts with nuts and washers, including embedding of expansion bolts in the wall, making good the damages, electrical connections, testing etc. complete as required-					

16.1	35 Liter capacity water heater (Cat-A)	5	13418	Rupees Thirteen Thousand Four Hundred Eighteen Only	Each	67090
	Makes:- Usha/Bajaj/Racold					
17	Supplying and fixing of power unit of following capacity suitable for air conditioning units / geyser along with cable output including connections etc. as required.					
17.1	32 Amp Power Unit	1	1703	Rupees One Thousand Seven Hundred Three Only	Each	1703
	Make:- Finolex/Polycab/Havells					
	Total					488856

Cost schedule of supply checked and approved by 488856

Executive Engineer
Electrical Division
HPPWD Palampur
[Signature]

SCHEDULE OF QUANTITY

Name of Work :- C/O P.G. Hostel for Boys and Girls at Dr. RPGMC Kangra at Tanda. (SH:- Providing EI to Security Posts near Main Gate therein.).

job No 6

**ESTIMATED COST: Rs.2,19,728/-only,
EARNEST MONEY: Rs.4400/-only
TIME ALLOWED: Three Months**

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required.					
1.1	Group C	16	1345.00	Rupees One Thousand Three Hundred Forty Five Only	Per Point	21520
	Make:-KEI,Anchor,Plaza / Havells) Legrand (Myrius), L&T(Oris), Anchor (Roma plus).					
2	Wiring for circuit/sub-main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in Surface / recessed medium class PVC conduit as required.					
2.1	2x1.5 Sq. mm. + 1x1.5 sq.mm. earth wire	10	217.00	Rupees Two Hundred Seventeen Only	Per Meter	2170
2.2	2x 4 Sq. mm. + 1x 4 sq.mm. earth wire	12	353.00	Rupees Three Hundred Fifty Three Only	Per Meter	4236
	Make:-KEI / Anchor / Plaza /Havells					
3	Supplying and fixing of following sizes of medium class PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:-					
3.1	25 mm. dia	232	135.00	Rupees One Hundred Thirty Five Only	Per Meter	31320

	(Make:-BEC / Anchor / Diplast / Polyfit)					
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	6	663.00	Rupees Six Hundred Sixty Three Only	Each	3978
	Makes:- L&T/Legrand/Schneider.					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	2	992.00	Rupees Nine Hundred Ninety Two Only	Each	1984
	Makes:- L&T/Legrand/Schneider.					
6	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					
6.1	Single pole. Cat-A.	6	229.00	Rupees Two Hundred Twenty Nine Only	Each	1374
	Makes:- L&T/Legrand/Schneider.					
7	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
7.1	63 Amps. Cat-A.	2	531.00	Rupees Five Hundred Thirty One Only	Each	1062
	Makes:- L&T/Legrand/Schneider.					
8	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
8.1	Double door-8 way	2	1641.00	Rupees One Thousand Six Hundred Forty One Only	Each	3282
	Makes:- L&T/Legrand/Schneider.					

9	Providing, Installation, testing and commissioning of ceiling fan with BLDC 5 Star two module modular step type electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with not less than 3 rated star.					
9.1	Ceiling Fan 1200 mm sweep, Category-A	2	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	8772
	Makes:- Usha / Bajaj/ Crompton.					
10	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade of following size direct in ground; but excluding excavation, sand cushioning and protective covering and refilling the trench etc. as required.					
10.1	Armoured cable 10 sq. mm (2 core)	270	352.00	Rupees Three Hundred Fifty Two Only	P/Mtr	95040
	Makes:- KEI/Havell/Plaza					
11	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. complete in all respects with 5 years warranty.					
11.1	18 Watt LED Tube fixture with rod	4	1402.00	Rupees One Thousand Four Hundred Two Only	Each	5608
	Makes: Bajaj/ Wipro/Havells					

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

12	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 years warranty.					
12.1	LED Bulk Head 10 Watt	6	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes: Bajaj/Wipro/Havells					
13	Supplying and fixing of LED flood light luminaire with die cast aluminium housing with frame toughened glass with PC Lens, cradle mounting and protecting including connections etc. complete with all accessories, connections, testing and commissioning as required with 5 year warranty.					
13.1	LED 50/60 Watt Flood light	4	7723.00	Rupees Seven Thousand Seven Hundred Twenty Three	Each	30892
	Makes:- Panasonic/Wipro/Bajaj					
	Total					219728

Drift 5th Mile of Security checked and
approved on 8/2/19728 / r
Executive Engineer

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
Name of Work :- C/O Veterinary Dispensary building at JAROT in Tehsil Jawali Distt. Kangra (HP) (SH:- Providing E.I. therein)			job No 7		ESTIMATED COST: Rs.1,19,984/-only. EARNEST MONEY: Rs.2400/-only TIME ALLOWED: Two Years	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/ Plaza/Anchor & Anchor/SSK					
i)	Group C.	17	1712.00	Rupees One Thousand Seven Hundred Twelve Only	Point	29104
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 steel conduit as required. Make: KEI/Plaza/Anchor.					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	32	335.00	Rupees Three Hundred Thirty Five Only	Meter	10720
ii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	3	793.00	Rupees Seven Hundred Ninety Three Only	Meter	2379
3	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor.	20	473.00	Rupees Four Hundred Seventy Three Only	Meter	9460

4	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor.	8	755.00	Rupees Seven Hundred Fifty Five Only	Meter	6040
5	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK	2	290.00	Rupees Two Hundred Ninety Only	Each	580
6	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK	2	485.00	Rupees Four Hundred Eighty Five Only	Each	970
7	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	1	94.00	Rupees Ninety Four Only	Each	94
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- Make :- Gold Medal /Anchor/SSK	1	182.00	Rupees One Hundred Eighty Two Only	Each	182
9	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	Single pole (Make:-Schneider/ Legrand/L&T)	4	265.00	Rupees Two Hundred Sixty Five Only	Each	1060
10	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	488.00	Rupees Four Hundred Eighty Eight Only	Each	488

11	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	2715.00	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
12	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
i)	Double door-8 way (Make:- Schneider/ Legrand/L&T)	1	1897.00	Rupees One Thousand Eight Hundred Ninety Seven Only	Each	1897
13	Supply, Erection, Installation and Commissioning of UniEarth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compound 'G.E.C' 50 kg or as required at site having anticorrosive and hygroscopic properties to replace excavated soil It should consist of "Uniearth" Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should have coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 metre length, 17.2 mm diameter, Terminal joint 200x25x6mm GI Strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30 kA short time current test for 1 sec rms.	1	23475.00	Rupees Twenty Three Thousand Four Hundred Seventy Five Only	Set	23475
14	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20	45.00	Rupees Forty Five Only	Meter	900

15	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: of Approved Make.					
i)	Exhaust Fan, Light duty, (Domestic) 225 mm sweep (Make: Crompton, Model : Flux Air metal)/Usha/ Bajaj	1	1945.00	Rupees One Thousand Nine Hundred Forty Five Only	Each	1945
16	Providing, Installation, testing and commissioning of BLDC ceiling fan with socket type 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. 5 Star rating with Five years warranty.					
i)	Ceiling Fan 1200 mm sweep BLDC 5 Star rating (Make: Usha Model: Technoair BLDC 5 Star without remote)/ Bajaj/Crompton.	3	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	13158
17	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥100 Lumens per watt, CRI rating >70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5- years warranty					
i)	LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro	4	761.00	Rupees Seven Hundred Sixty One Only	Each	3044
18	Providing and installation of Back Light (Non slim model) 15 W +/- 1 W LED round Surface/recess Mounted Downlighter with minimum system lumen efficacy of ≥110 lm/W with and P.F.>0.95 with THD<10% , CCT 5700 K, CRI 80. The LED with Useful life of 50000 Hrs at L70 with 5-years warranty. The Input voltage range shall be 150V to 270V , 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					

i)	LED Down Light 15 watt, (Make: Jaquar Cat no. LNRP02R015SC/Bajaj/Panasonic.	2	1432.00	Rupees One Thousand Four Hundred Thirty Two Only	Each	2864
19	Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No. /ordering code LSTS-20-CDL-M, powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, including connection, testing and commissioning etc. as required. with 5- years warranty					
i)	Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M)/Bajaj/Wipro	2	1902.00	Rupees One Thousand Nine Hundred Two Only	Each	3804
20	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:-					
i)	40 mm dia. G.I. pipe, heavy class	2	787.00	Rupees Seven Hundred Eighty Seven Only	Each	1574
21	Providing and Fixing Following type of LED Wall bracket light coated CRCA Sheet steel housing, diffuser to avoid glare, should be compatible with specifications i.e. Power factor > 0.9 , Harmonic distortion $< 10\%$ and efficacy > 100 Lumens per watt, CRI > 80 , suitable for Input voltage AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respect.					
i)	Wall Bracket light 9 W x1 LED Makes:- Havells cat no. LHFOFUE1TZ1W012/Jaquar/Philips	1	737.00	Rupees Seven Hundred Thirty Seven Only	Each	737

22	Providing and fixing LED Bulk head of following rating and 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: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i)	Bulk Head Light LED 10 W (Make:- Bajaj Cat no.BIBWP 10W LED)/Mipro/Panasonic.	2	1322.00	Rupees One Thousand Three Hundred Twenty Two Only	Each	2644
23	Providing and fixing LED Bulb 9 watts to 10 watt, B22 base in the existing fixture as required complete in all respect.	1	150.00	Rupees One Hundred Fifty Only	Each	150
	Total					119984

Budget & Sales Side of Quantity checked & approved by 11/9/84

Executive Engineer
Electrical Division
HPPWD Palampur

XLS

SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of Electrical wiring in the Office of the Assistant Engineer N.H. Sub Division, HPPWD Dehra in Tehsil Dehra Distt Kangra (HP)

Job No **8**

ESTIMATED COST: Rs.2,33,143/-only.
EARNEST MONEY: Rs.4700/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
1	Group C. Makes:- Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus),L&T(Entice)/SCI	29	1824	Rupees One Thousand Eight Hundred Twenty Four Only	P/Pt	52896
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 steel conduit as required					
1	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	60	335	Rupees Three Hundred Thirty Five Only	P/Mtr	20100
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 steel conduit as required.					
1	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	40	395	Rupees Three Hundred Ninety Five Only	P/Mtr	15800
4	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.					

i	Makes: Plaza/KEI/SCI	55	471	Rupees Four Hundred Seventy One Only	P/Mtr	25905
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire					
i	Makes: Plaza/KEI/SCI	15	657	Rupees Six Hundred Fifty Seven Only	P/Mtr	9855
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					
i	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	3	793	Rupees Seven Hundred Ninety Three Only	P/Mtr	2379
	Makes: Plaza/KEI/SCI					
7	Wiring for light/ power plug with 4X4 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.					
i	Makes: Plaza/KEI/SCI	10	771	Rupees Seven Hundred Seventy One Only	P/Mtr	7710
8	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
i	3X1.5 Sq.mm	20	111	Rupees One Hundred Eleven Only	P/Mtr	2220
ii	3X2.5Sq.mm	15	171	Rupees One Hundred Seventy One Only	P/Mtr	2565
iii	3X4Sq.mm	15	253	Rupees Two Hundred Fifty Three Only	P/Mtr	3795
	Makes: Plaza/KEI/SCI					

9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
i	S.P. 5/ 6 Amps one way Modular switch.	1	130	Rupees One Hundred Thirty Only	Each	130
ii	5 pin, 5/ 6 Amps Modular socket outlet.	1	187	Rupees One Hundred Eighty Seven Only	Each	187
	Makes:- Legrand(Myrius),L&T(Oris),Anchor Roma(Plus),L&T(Entice).					
10	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3Nos 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.(For light plugs to be used in NR Buildings).					
i	12 Module (200mmX150mm)					
	Makes:- Legrand(Myrius),L&T(Oris),Anchor Roma(Plus),L&T(Entice).	5	1366	Rupees One Thousand Three Hundred Sixty Six Only	Each	6830
11	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.					
i	Makes: Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus)	8	582	Rupees Five Hundred Eighty Two Only	Each	4656
12	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.					
	Makes: Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus)	7	750	Rupees Seven Hundred Fifty Only	Each	5250
13	Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.	5	187	Rupees One Hundred Eighty Seven Only	Each	935
	Makes: Anchor/Goldmedal/SSK.					

14	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
i	Single pole. Cat-A.	13	265	Rupees Two Hundred Sixty Five Only	Each	3445
	Makes: Legrand,Schiender,L&T.					
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.					
i	63 Amps. Cat-A.	1	616	Rupees Six Hundred Sixteen Only	Each	616
	Makes:- Legrand,Schiender,L&T.					
16	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.					
i	63 Amps. Cat-A.	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
	Makes: Legrand,Schiender,L&T.					
17	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.(But without MCB/RCCB/isolator).					
	Makes: Legrand,Schiender,L&T.					
i	Double door-4way	1	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	1572

ii	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
18	Earthing with G.I. earth pipe 4.5 Mtr. Long 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1	6188	Rupees Six Thousand One Hundred Eighty Eight Only	P/Set	6188
19	Providing and fixing 6SWG G.I. wire at 0.50 mtr. Below ground level for earth electrode conductor including soldering etc. as required.	25	41	Rupees Forty One Only	P/Mtr	1025
20	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	2	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	4538
	Make:Usha(AEROCLEAN PLUS DBB),Bajaj,Crompton					
21	Supplying and fixing of LED Batton/LED Mirror Light 10Watts, 6500K ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required of Approved Makes. (Including 5 Years Warranty).					
i	LED Mirror Light 10Watts	1	482	Rupees Four Hundred Eighty Two Only	Each	482
ii	Makes:-Havells,Wipro,Bajaj.					
22	Providing, Installation, testing and commissioning of ceiling fan without regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:					

i	Ceiling Fan 1200 mm sweep, Category-A	3	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	9573
ii	Make:- Usha(Technix Plus),Bajaj,Crompton with not less than 3 rated star					
iii	Ceiling Fan 1400 mm sweep, Category-A	1	3252	Rupees Three Thousand Two Hundred Fifty Two Only	Each	3252
	Make:- Bajaj Speedster,Bajaj,Crompton					
23	Providing, Installation, testing and commissioning of wall fan of following size by means of suitable rag bolts/nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer in Charge of approved make. (With Five years warranty)					
i	Wall fan 400mm Sweep	1	3032	Rupees Three Thousand Thirty Two Only	Each	3032
	Make:Bajaj(ESTEEM 400MM WALL FAN), Usha,Cromptons.					
24	Supplying and fixing of LED Batten along with 20Watt LED Tube Light ,6500K ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc.Makes: Havells ,Bajaj ,wipro or its equivalent as approved by Engineer-in-Charge					
i	LED Tube Light 4Feet Long					
ii	Makes: Havells,Bajaj,wipro or as approved by Engineer-in-Charge	7	875	Rupees Eight Hundred Seventy Five Only	Each	6125
25	Supplying and fixing brass batten/ angle holder including connection etc. as required.	1	94	Rupees Ninety Four Only	Each	94
	Makes: Anchor/SSK/Goldmedal					
26	Supplying and fixing LED lamp 9 watts on the existing batten holder/Fancy wall bracket as required complete in all respects.					

	Makes:-Havell/Bajaj/Philips.	1	150	Rupees One Hundred Fifty Only	each	150
27	Supplying and fixing of bulk head fitting LED 10 watt+/-1W with minimum system Lumen efficiency of 100lm/W with and P.F. 0.95 with THD,10%,CCT 5700K,CRI 70, Surge protection 4KV. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V to 270V complete with all accessories, connections, testing and commissioning etc.as required. with 5 year warranty.					
i	LED 10 Watt Bulk Head	2	1407	Rupees One Thousand Four Hundred Seven Only	Each	2814
	Makes: Bajaj ,Havells ,wipro					
28	Providing and fixing LED fixture 300mmX300mm 24 Watt+/-1Watt with surface mounted having minimum system lumen output 100lumens/Watt with CRCA housing and P<<A diffuser with pf>0.95 with THD,20%,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 to 270V,50 Hz with all accessories, connections, testing and commissioning etc as required complete in all respects. with 5 year warranty.					
i	LED Surface 1X1 Luminaire-24Watts	4	2657	Rupees Two Thousand Six Hundred Fifty Seven Only	Each	10628
	Makes: Bajaj ,Havells ,wipro					
29	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25 amps modular socket outlet and 25 amps modular SP MCB "C" curve including connection,painting etc. as required.					
i	Makes: Legrand,Schiender,L&T.	1	775	Rupees Seven Hundred Seventy Five Only	Each	775

30	Supplying and fixing of LED Street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP65 protection and impact resistance of IK07 with 10 kV Built-in surge Protection Device. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V (With 5 Years Warranty)					
	LED Street light 45 Watts					
	Makes: Havells, Panasonic, Bajaj.	1	4982	Rupees Four Thousand Nine Hundred Eighty Two Only	Each	4982
31	Supplying and fixing of LED Flood light Luminaire comprises of Al Die cast Housing with frame, High Purity PC lens Diffuser, cradle mounting, minimum system lumens of 5000. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. The luminaire shall have IP66 and IK08 protection. The LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V (nominal rated voltage – 240V) with 4 KV internal surge protection. (With 5 Years Warranty)					
i	LED Flood Light 50 Watts					
	Makes: Bajaj (Model -Cat No -GLEAM F 55L WH SY PC SD V2-50W)/Panasonic/wipro	1	6069	Rupees Six Thousand Sixty Nine Only	Each	6069
	Total					233143

Beeth School of University Checked and approved 23/14/3

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-Replacement of E.I and Switchgear system into new one
Sub Division officer(C) Residence at Bharmour In Tehsil Bharmour Distt.
Chamba (H.P)

Job No 9

ESTIMATED COST: Rs.1,55,398/-only.
EARNEST MONEY: Rs.3200/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRRFLS/PVC insulated single core copper conductor cable as required.					
	Make:- Legrand (Myrius)/ Schneider(Livia)/Anchor Roma (Plus)/SCI					
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRRFLS/PVC insulated single core copper conductor cable as required.	28	1271	Rupees One Thousand Two Hundred Seventy One Only	Per point	35588
	Group A.					
	Make:- Legrand (Myrius)Schneider(Livia)//Anchor Roma (Plus)/SCI					
	Group A.	1	1463	Rupees One Thousand Four Hundred Sixty Three Only	Per point	1463
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make: KEI/Plaza/Anchor/SCI					

	PVC insulated HRFR LS Copper conductor 1.5 Sq. mm.					
i	3x2.5 Sq. mm.	38	171	Rupees One Hundred Seventy One Only	Per metre	6498
ii	3x4 Sq. mm.	37.458	253	Rupees Two Hundred Fifty Three Only	Per metre	9477
iii	3x10 Sq. mm.	3	618	Rupees Six Hundred Eighteen Only	Per metre	1854
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	12	582	Rupees Five Hundred Eighty Two Only	Each	6984
	Make:- Legrand (Myrius)/Schneider(Livia) /Anchor Roma (Plus)					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	6	750	Rupees Seven Hundred Fifty Only	Each	4500
	Make:- Legrand (Myrius)/Schneider(Livia) /Anchor Roma (Plus)					
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).	2	930	Rupees Nine Hundred Thirty Only	Each	1860
	Make:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)					
7	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
	Makes:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)/SCI					
i	Telephone Socket outlet, modular.	2	157	Rupees One Hundred Fifty Seven Only	Each	314

8	Supplying and drawing co-axial TV cable, RG-6 grade, 0.7mm (75 Ohms) copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed, steel / PVC conduit as required.	20	36	Rupees Thirty Six Only	Per mtr.	720
	Make:-Anchor/KEI/Plaza /SCI					
	1 Pair					
9	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- Make:-Anchor/BEC/Diplast/PolyFit					
i	25 mm. dia	20	113	Rupees One Hundred Thirteen Only	Per mtr	2260
10	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	187	Rupees One Hundred Eighty Seven Only	Each	187
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:- Make:-Usha/Bajaj/Crompton					
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	6807
12	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 6/12/18 Watt (600/1200/1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required with 5 year warranty.					
	Make:-Bajaj/Panasonic/ Wipro					
i	LED 12 Watt Round	8	782	Rupees Seven Hundred Eighty Two Only	Each	6256

13	Cat No: PPAM17127R1	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 ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required with 5 year warranty.					
	Make:-Bajaj/Panasonic/Wipro.						
1	LED Tube Fixture 20Watt	3	975	Rupees Nine Hundred Seventy Five Only	Each	2925	
	Cat No: BCLAB 20W LED P						
14	Supplying and fixing of fancy wall bracket suitable for input voltage AC 220-240V, 50/60Hz, complete with all accessories, including making connections, testing etc. as required with 5 year warranty. Make:- Jaquar/Philips/Bajaj						
1	Fancy Wall Bracket Cat. No. JNL-CHR-WL RB0480SE27	3	1645	Rupees One Thousand Six Hundred Forty Five Only	Each	4935	
	Cat No: BCLAB 20W LED P						
15	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 10Watt (Mirror Light)(1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 10 Watt complete with all accessories, connections, testing and commissioning etc. as required with 5 year warranty. Make:- Jaquar, Panasonic, Wipro						
1	Mirror light LED 10Watt	2	532	Rupees Five Hundred Thirty Two Only	Each	1064	
	Cat No: LL20-111-111-XXX-65NE3						

16	Providing and fixing LED Bulk head of following rating with pressure die casting aluminium housing and 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: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required with 5 year warranty. Make:- Bajaj, Panasonic, Wipro					
	LED Bulk head 10Watt Cat No: BIBWP 10W LED	6	1305	Rupees One Thousand Three Hundred Five Only	Each	7830
15	Supplying and fixing bakelite batten/angle holder including connections etc. as required:- Make:- GoldMedal/SSK/Anchor	3	94	Rupees Ninety Four Only	Each	282
16	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:- Osram/Philips/Panasonic					
	9 Watt LED, B-22	3	199	Rupees One Hundred Ninety Nine Only	Each	597
	Makes:- Tisva (Cat.No.AL916611R 9W/ B22) /Panasonic / Osram.					
17	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required:- Make:- Legrand (Myrius)Schneider(Livia)/Anchor Roma (Plus)	3	775	Rupees Seven Hundred Seventy Five Only	Each	2325
18	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required - Make:- Usha /Recold/Bajaj					

i	10 Liter capacity water heater (Cat-A)	1	8319	Rupees Eight Thousand Three Hundred Nineteen Only	Each	8319
ii	25 Liter capacity water heater (Cat-A)	2	10250	Rupees Ten Thousand Two Hundred Fifty Only	Each	20500
19	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- (Make:- L&T/Legrand/Schneider)					
i	Double door-4 way	1	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	1572
ii	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
20	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of Single pole in the existing MCB DB complete with connections etc. as required:- Cat-A. (Make:- L&T/Legrand/Schneider)	13	265	Rupees Two Hundred Sixty Five Only	Each	3445
21	Supplying and fixing 63 Amps. rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- L&T/Legrand/Schneider)	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
22	Supplying and fixing 63 Amps. rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- L&T/Legrand/Schneider)	1	616	Rupees Six Hundred Sixteen Only	Each	616

23	Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt) as required.	1	8830	Rupees Eight Thousand Eight Hundred Thirty Only	Set	8830
24	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	20	41	Rupees Forty One Only	Per metre	820
Total						155398
The Dismantelled material available from the E.I. may be deducted from the contractor in the final bill Amounting to Rs. 1201/- as per estimate						

Boat schedule of quantity checked and approved for 155398/-

Executive Engineer
Electrical Division
HPPWD Palampur

[Signature]

SCHEDULE OF QUANTITY

Name of Work :- Repair and Maintenance of various Sets (First Floor) in HP PWD Rest House at Khundian in Tehsil Khundian Distt. Kangra (H.P.) (SH: Providing EI therein).

job No *10*

ESTIMATED COST: Rs.4,78,222/-only.
EARNEST MONEY: Rs.9600/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required.					
i	Group C. Makes:- Legrand(Myrius),Schiender(Livia),Anchor Roma(Plus),L&T(Entice).	65	1858	Rupees One Thousand Eight Hundred Fifty Eight Only	P/Pt	120770
2	Wiring for Twin Control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with 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.					
i	Group C. Makes:- Legrand(Myrius),Schiender(Livia),Anchor Roma(Plus),L&T(Entice).	3	1929	Rupees One Thousand Nine Hundred Twenty Nine Only	P/Pt	5787
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 steel conduit as required					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/Havells	56	340	Rupees Three Hundred Forty Only	P/Mtr	19040
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.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					

	Makes: Plaza/KEI/Havells	68	401	Rupees Four Hundred One Only	P/Mtr	27268
5	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.					
i	Makes: Plaza/KEI/Havells	42	477	Rupees Four Hundred Seventy Seven Only	P/Mtr	20034
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire					
i	Makes: Plaza/KEI/Havells	38	664	Rupees Six Hundred Sixty Four Only	P/Mtr	25232
7	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					
i	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	34	800	Rupees Eight Hundred Only	P/Mtr	27200
	Makes: Plaza/KEI/Havells					
8	Wiring for light/ power plug with 4X4 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.					
i	Makes: Plaza/KEI/Havells	17	779	Rupees Seven Hundred Seventy Nine Only	P/Mtr	13243
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.					
i	3X1.5 Sq.mm	20	112	Rupees One Hundred Twelve Only	P/Mtr	2240
ii	3X2.5Sq.mm	15	172	Rupees One Hundred Seventy Two Only	P/Mtr	2580

iii	3X4Sq.mm	12	254	Rupees Two Hundred Fifty Four Only	P/Mtr	3048
	Makes: Plaza/KEI/Havells					
10	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.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	22	591	Rupees Five Hundred Ninety One Only	Each	13002
11	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	9	760	Rupees Seven Hundred Sixty Only	Each	6840
12	Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.	3	189	Rupees One Hundred Eighty Nine Only	Each	567
	Makes: Anchor/Goldmedal/SSK.					
13	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					
i	Single pole. Cat-A.	26	268	Rupees Two Hundred Sixty Eight Only	Each	6968
	Makes:- Legrand,Schneider,L&T.					
14	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	63 Amps. Cat-A.	2	619	Rupees Six Hundred Nineteen Only	Each	1238
	Makes:- Legrand,Schneider,L&T.					

15	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.(But without MCB/RCCB/Isolator).					
	Makes:- Legrand,Schiender,L&T.					
i	Double door-16 way	2	2971	Rupees Two Thousand Nine Hundred Seventy One Only	Each	5942
16	Earthing with copper earth plate 600 mm X 600 mm X 3 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	19075	Rupees Nineteen Thousand Seventy Five Only	P/Set	19075
17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	25	171	Rupees One Hundred Seventy One Only	P/Mtr	4275
18	Supplying and fixing of Surface mounting LED Batten 40Watt with housing Aluminium diecast and Virgin Polycarbonates diffuser for best diffused light (With Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc.Makes: Clair ,Havells ,wipro or as approved by Engineer-in-Charge.					
i	LED Tube Light 4Feet Long					
	Makes: Clair, Havells & wipro.	5	2809	Rupees Two Thousand Eight Hundred Nine Only	Each	14045

19	Providing and fixing recess mounted round New age premium COB titable downlighter 6W which creates contemporary spaces with die cast Al housing in white powder coated finish, anti glare diffuser and and energy efficient electronic driver ,suitable for surface application with the use of the latest technology 6watt (600Lumen) 4000K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. With Five YEAR WARRANTY					
i	Round New age premium COB titable downlighter 6W					
ii	Makes:Wipro,Bajaj & Panasonic.	4	1192	Rupees One Thousand One Hundred Ninety Two Only	Each	4768
20	Providing and fixing recess mounted Round downlighter 15W with die cast Al housing in white powder coated finish, anti glare diffuser and and energy efficient electronic driver ,suitable for surface application with the use of the latest technology 15watt (1500 Lumen) 6500K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. With Five YEAR WARRANTY					
i	LED Round Panel Light (Recess) 15Watts	7	1144	Rupees One Thousand One Hundred Forty Four Only	Each	8008
ii	Makes:Wipro,Bajaj & Panasonic.					

21	Providing and fixing recess mounted Round downlighter 18W with die cast Al housing in white powder coated finish, anti glare diffuser and energy efficient electronic driver ,suitable for surface application with the use of the latest technology 18watt (1800 Lumen) 6500K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. With Five YEAR WARRANTY					
i	LED Round Panel Light (Recess) 18Watts	18	1343	Rupees One Thousand Three Hundred Forty Three Only	Each	24174
ii	Makes:Wipro,Bajaj & Panasonic.					
22	Providing and fixing Non integral, flexible LED strip light 5W with high brightness suitable for indoor and outdoor application with the use of the latest technology 5watt (500 Lumen) 3000K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. With Five YEAR WARRANTY					
i	LED Strip Light 5Watts	4	1557	Rupees One Thousand Five Hundred Fifty Seven Only	Each	6228
ii	Makes:Wipro,Bajaj & Panasonic.					
23	Supplying and fixing of Decorative Bed/wall light suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, lamp holder, but excluding lamp including making connections, testing etc. as required of Approved Makes. (Including 5Years Warranty).					
i	Decorative Bed/wall light					
ii	Makes:Wipro,Bajaj & Panasonic.					
		6	1393	Rupees One Thousand Three Hundred Ninety Three Only	Each	8358

24	Supplying and fixing of LED Batton/LED Mirror Light 5watts, 6500K .(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Makes: Wipro/Bajaj/Panasonic as approved by Engineer-in-Charge. With Five YEAR WARRANTY						
i	LED Mirror light						
ii	Makes:Wipro,Bajaj & Panasonic.	6	337	Rupees Three Hundred Thirty Seven Only	Each	2022	
25	Supplying and fixing of bulk head fitting LED 10 watt+/-1W with minimum system Lumen efficiencyof 100lm/W with and P.F. 0.95 with THD,10%,CCT 5700K,CRI 70, Surge protection 4KV. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V to 270V complete with all accessories, connections, testing and commissioning etc.as required. With Five YEAR WARRANTY						
i	LED 10 Watt Bulk Head	1	1155	Rupees One Thousand One Hundred Fifty Five Only	Each	1155	
ii	Makes:Wipro,Bajaj & Panasonic.						
26	Providing, Installation, testing and commissioning of BLDC ceiling fan with fan regulator,including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:						
i	Ceiling Fan 1200 mm sweep, Category-A	8	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	35088	
ii	Make:- Usha(BLDC),Bajaj						

27	Providing and installation Wall 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(300MM Helix Hi Speed), Bajaj, Crompton.					
i	Wall fan 400mm Sweep	3	3042	Rupees Three Thousand Forty Two Only	Each	9126
ii	Make:Usha(300MM Helix Hi Speed), Bajaj & Cromptons.					
28	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	3	2289	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	6867
ii	Make:Usha(AEROCLEAN PLUS DBB), Bajaj, Anchor					
29	Providing and installation of Stationary storage type electric water heater(Geyser) of various sizes by means of expansion bolts with nuts and washers, including embedding of expansion bolts in the wall, making good the damages, electrical connections, testing etc. complete as required.	3	10298	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	30894
i	Makes: Bajaj, Racold, Usha.					
30	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25 amps modular socket outlet and 25 amps modular SP MCB "C" curve including connection, painting etc. as required.					
i	Makes: Legrand, Schlender, L&T.	4	785	Rupees Seven Hundred Eighty Five Only	Each	3140
Total	The Dismantal metrial deducted from the contractor that is Rs. 2500/- in the Final will					478222

Dr. J. S. Srinivasulu & Associates Chartered Accountants
Chennai-600 004

Executive Engineer
Electrical Division
HPPWD Palampur

X.S.

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
Name of Work :- C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing E.I. to Director Room, Emergency Room, Store room & PICU at Critical Care Skill Lab/Simulation Lab therein)			job No //		ESTIMATED COST: Rs.4,95,438/-only. EARNEST MONEY: Rs.10,000/-only TIME ALLOWED: Three 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, 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.					
1.1	Group C (Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia) 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.	27	1345.00	Rupees One Thousand Three Hundred Forty Five Only	P/Pt	36315
2						
2.1	2x1.5 Sq. mm.	37	217.00	Rupees Two Hundred Seventeen Only	P/Mtr	8029
2.2	2x2.5 Sq. mm.	72	277.00	Rupees Two Hundred Seventy Seven Only	P/Mtr	19944
2.3	2x4 Sq. mm.	62	353.00	Rupees Three Hundred Fifty Three Only	P/Mtr	21886
2.4	2x6 Sq. mm.	48	491.00	Rupees Four Hundred Ninety One Only	P/Mtr	23568

2.5	2x10 Sq. mm.	21	678.00	Rupees Six Hundred Seventy Eight Only	P/Mtr	14238
2.6	2x16 Sq. mm.	11	953.00	Rupees Nine Hundred Fifty Three Only	P/Mtr	10483
2.7	4x2.5 Sq. mm.	40	460.00	Rupees Four Hundred Sixty Only	P/Mtr	18400
2.8	4x4 Sq. mm.	65	612.00	Rupees Six Hundred Twelve Only	P/Mtr	39780
	(Make:-KEI / Anchor / Plaza)					
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					
3.1	3x1.5 Sq. mm.	26	112.00	Rupees One Hundred Twelve Only	P/Mtr	2912
	(Make:-KEI / Anchor / Plaza)					
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	5	591.00	Rupees Five Hundred Ninety One Only	Each	2955
	(Make:- L&T/Legrand/Schneider.					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	11	760.00	Rupees Seven Hundred Sixty Only	Each	8360
	(Make:- L&T/Legrand/Schneider.					
6	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-					
6.1	2 Modules	8	385.00	Rupees Three Hundred Eighty Five Only	Each	3080
6.2	6 Modules	4	545.00	Rupees Five Hundred Forty Five Only	Each	2180

6.3	8 Modules	14	667.00	Rupees Six Hundred Sixty Seven Only	Each	9338
	Makes:- L&T/Legrand/Schneider.					
7	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
7.1	S.P. 5/10 Amps one way Modular switch.	28	133.00	Rupees One Hundred Thirty Three Only	Each	3724
7.2	5 pin, 5/ 6 Amps Modular socket outlet.	42	189.00	Rupees One Hundred Eighty Nine Only	Each	7938
7.3	S.P. 15/ 16 Amps one way Modular switch.	8	228.00	Rupees Two Hundred Twenty Eight Only	Each	1824
7.4	6 pin, 15 amp modular socket outlet	8	343.00	Rupees Three Hundred Forty Three Only	Each	2744
7.5	25 Amp switch	4	383.00	Rupees Three Hundred Eighty Three Only	Each	1532
7.6	25 amp socket	4	350.00	Rupees Three Hundred Fifty Only	Each	1400
	Makes:- L&T/Legrand/Schneider.					
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					
8.1	Single pole. Cat-A.	26	268.00	Rupees Two Hundred Sixty Eight Only	Each	6968
	Makes:- Legrand/L&T/Schneider.					
9	Supplying and fixing following rating, following pole, 240/415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					

9.1	63 Amps. Double Pole	3	531.00	Rupees Five Hundred Thirty One Only	Each	1593
	Makes:- Legrand/L&T/Schneider.					
10	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	63 Amps. Cat-A.	3	2981.00	Rupees Two Thousand Nine Hundred Eighty One Only	Each	8943
	Makes:- L&T/Legrand/Schneider.					
	Makes: L&T/Legrand/Havells					
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
	Double door-16 way	2	2971.00	Rupees Two Thousand Nine Hundred Seventy One Only	Each	5942
	Makes:- L&T/Legrand/Schneider.					
	Makes:- Usha Technix Plus 3 Star/ Bajaj/ Crompton.					
12	Providing and fixing of LED fixture 600mm x 600mm 36Watt +/- 1W recess 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.					

	LED Panel 2'x2' 36 watt	16	4527.00	Rupees Four Thousand Five Hundred Twenty Seven Only	Each	72432
	Makes:- Philips/ Wipro/Bajaj					
13	Providing and installation of LED fixtures 18 W +/- 1 W LED round/Square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and PF >0.95 with THD <20%, CCT 6000K, CRI 80 the LED with useful life of 50000Hrs. At L70. The input voltage range shall be 150 V as required complete with connections testing etc. with 5 year warranty.					
	18 Watt LED, fixture round / square	2	1564.00	Rupees One Thousand Five Hundred Sixty Four Only	Each	3128
	Make: Wipro / Havells/ Bajaj					
14	Supplying, erection, testing and commissioning of 3 KVA online pure sine wave UPS with enclosure suitable for 1 phase input - 1 phase output, inbuilt isolation transformer, IGBT technology Based online UPS, along with MS rack, interlinks & cables, installation etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1	155802.00	Rupees One Lacs Fifty Five Thousand Eight Hundred Two Only	Per Set	155802
	3 KVA Online UPS System					
	Makes:- Fuji Electric/Numeric/Emerson-Virtiv/APC/Microtek/Zebtronics/Delta					
	Total					495438

Draft Schedule of Quantity checked and approved by 498438 / E

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing E.I. to Entrance Area, Conference Room, Faculty Room, Reception area at Critical Care Skill Lab/Simulation Lab therein)

Job No 12

ESTIMATED COST: Rs.4,93,348/-only.
EARNEST MONEY: Rs.9900/-only
TIME ALLOWED: Three 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, 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.					
1.1	Group C	20	1345.00	Rupees One Thousand Three Hundred Forty Five Only	P/Pt	26900
	(Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia)					
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	2x1.5 Sq. mm.	35	217.00	Rupees Two Hundred Seventeen Only	P/Mtr	7595
2.2	2x2.5 Sq. mm.	70	277.00	Rupees Two Hundred Seventy Seven Only	P/Mtr	19390
2.3	2x4 Sq. mm.	60	353.00	Rupees Three Hundred Fifty Three Only	P/Mtr	21180
2.4	2x6 Sq. mm.	45	491.00	Rupees Four Hundred Ninety One Only	P/Mtr	22095

2.5	2x10 Sq. mm.	20	678.00	Rupees Six Hundred Seventy Eight Only	P/Mtr	13560
2.6	2x16 Sq. mm.	10	953.00	Rupees Nine Hundred Fifty Three Only	P/Mtr	9530
2.7	4x2.5 Sq. mm.	38	460.00	Rupees Four Hundred Sixty Only	P/Mtr	17480
2.8	4x4 Sq. mm.	98	612.00	Rupees Six Hundred Twelve Only	P/Mtr	59976
	(Make:-KEI / Anchor / Plaza)					
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					
3.1	3x1.5 Sq. mm.	25	112.00	Rupees One Hundred Twelve Only	P/Mtr	2800
	(Make:-KEI / Anchor / Plaza)					
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	17	591.00	Rupees Five Hundred Ninety One Only	Each	10047
	Makes:- L&T/Legrand/Schneider.					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	16	760.00	Rupees Seven Hundred Sixty Only	Each	12160
	Makes:- L&T/Legrand/Schneider.					
6	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-					
6.1	2 Modules	6	385.00	Rupees Three Hundred Eighty Five Only	Each	2310
6.2	8 Modules	2	667.00	Rupees Six Hundred Sixty Seven Only	Each	1334

	Makes:- L&T/Legrand/Schneider.						
7	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.						
7.1	S.P. 5/ 10Amps one way Modular switch.	4	133.00	Rupees One Hundred Thirty Three Only	Each	532	
7.2	5 pin, 5/ 6 Amps Modular socket outlet.	6	189.00	Rupees One Hundred Eighty Nine Only	Each	1134	
7.3	25 Amp switch	3	383.00	Rupees Three Hundred Eighty Three Only	Each	1149	
7.4	25 Amp socket	3	350.00	Rupees Three Hundred Fifty Only	Each	1050	
	Makes:- L&T/Legrand/Schneider.						
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-						
8.1	Single pole. Cat-A.	26	268.00	Rupees Two Hundred Sixty Eight Only	Each	6968	
	Makes:- Legrand/L&T/Schneider.						
9	Supplying and fixing following rating, following pole, 240/415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						

9.1	63 Amps. Double Pole	3	531.00	Rupees Five Hundred Thirty One Only	Each	1593
	Makes:- Legrand/L&T/Schneider.					
10	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	63 Amps. Cat-A.	3	2981.00	Rupees Two Thousand Nine Hundred Eighty One Only	Each	8943
	Makes:- L&T/Legrand/Schneider.					
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
11.1	Double door-12 way	1	2326.00	Rupees Two Thousand Three Hundred Twenty Six Only	Each	2326
11.2	Double door-16 way	1	2971.00	Rupees Two Thousand Nine Hundred Seventy One Only	Each	2971

	Makes:- L&T/Legrand/Schneider.					
12	Providing, Installation, testing and commissioning of BLDC ceiling fan with socket type regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with five years warranty.					
12.1	Ceiling Fan 1200mm sweep (BLDC)	2	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	8772
	Makes:- Usha / Havells/ Crompton - BLDC.					
13	Providing and fixing of LED fixture 600mm x 600mm 36Watt +/- 1W recess 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.					
	LED Panel 2'x2' 36 watt	14	4527.00	Rupees Four Thousand Five Hundred Twenty Seven Only	Each	63378
	Makes:- Philips/ Wipro/Bajaj					
14	Providing and installation of LED fixtures 18 W +/- 1 W LED round/Square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and PF >0.95 with THD <20%, CCT 6000K, CRI 80 the LED with useful life of 50000Hrs. At L70. The input voltage range shall be 150 V as required complete with connections testing etc. with 5 year warranty.					

	18 Watt LED, fixture round / square	6	1564.00	Rupees One Thousand Five Hundred Sixty Four Only	Each	9384
	Make; Wipro / Havells/ Bajaj					
15	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required:-					
	25 Liter capacity water heater (CAT-A)	1	10298.00	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	10298
16	Supplying, erection, testing and commissioning of 2 kVA online pure sine wave UPS with enclosure suitable for 1 phase input - 1 phase output, inbuilt isolation transformer, IGBT technology Based online UPS, along with MS rack, interlinks & cables, installation etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1	130686.00	Rupees One Lacs Thirty Thousand Six Hundred Eighty Six Only	Per Set	130686
	2 KVA Online UPS System					
	Makes:- Fuji Electric/Numeric/Emerson-Virtiv/APC/Microtek/Zebtronics/Delta					
17	Providing and fixing Double door following way PPI DBs, Available in CRCA sheet steel, RAL 9003, powder coated Provided with 100A insulated phase bus-bars, neutral bars with shrouds, earth bars, sticking saddles, cement spill protector, color-coded interconnecting wire set, cable ties, blanking plates and circuit identification labels With provision for FP MCB/isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing as required complete in all respects with 5 year warranty.					

17.1	Tier PPI DB - 12 Way with MCCB incomer	1	13167.00	Rupees Thirteen Thousand One Hundred Sixty Seven Only	Each	13167
	Makes: L&T/Legrand/Havells					
17.2	VTPN DB 4 Way	1	4640.00	Rupees Four Thousand Six Hundred Forty Only	Each	4640
	Makes: L&T/Legrand/Havells					
	Total					493348

As per schedule of quantity checked and approved Rs 4,93,348/-

Executive Engineer
Electrical Division
HPPWD Palampur