

HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2024-25/-

1801-09

Dated: 20-7-24

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-26<sup>th</sup> July 2021.

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

DA/NIT,SQs

Executive Engineer  
Electrical Division  
HP PWD Palampur

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

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

Executive Engineer  
Electrical Division  
HP PWD Palampur

**HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT**

**"Notice Inviting Tenders"**

Sealed percentage rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division HP PWD Palampur on behalf of the Governor of H P for the following work from the approved and eligible contractors enlisted in HP PWD, (Elect ) whose registration stood renewed as per revised rules and also registered under the H P General Sales Tax Act 1968 so as to reach in his office on or before **02-08-2024** 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 **01-08-2024** up to 4 00 P M and the application for issue of tender form shall be received on **31-07-2024** 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 various sets (Ground Floor) in HP PWD Rest House at Khundian in Tehsil Khundian Distt. Kangra (H.P)(SH:- Providing E.I. therein).	475007/-	9600/-	One Month	8	350/-
2	C/O HSC with delivery room (First Floor) at Kharul in Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. therein).	125265/-	2600/-	Two Year	8	350/-
3	C/O HSC with delivery room (First Floor) at Bhoda in Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. therein).	125265/-	2600/-	Two Year	8	350/-
4	C/O HSC with delivery room (Ground Floor) at Kahanphatt in Tehsil Dheera Distt. Kangra (H.P)(SH:- Providing E.I. therein).	194132/-	3900/-	Two Year	8	350/-
5	Construction of Residential building Seri Culture Department at Dodun Brahmna in Tehsil Rakkar Distt. Kangra (HP)(SH:- Providing E.I. therein).	162549/-	3300/-	One Year	8	350/-
6	Providing and Fixing Yard Lighting in HP PWD Rest House Khaira in Tehsil Palampur Distt. Kangra (H.P)(SH:- S/F LED Fitting, Ceiling Fan, Exhaust Fan etc. therein).	159750/-	3200/-	Two Week	8	350/-
7	Replacement of old and damaged FTL fixtures with LED fixtures in Hall Area, E-OPD Room, Reading Room, Journal Room etc in First floor area of Central library at Dr. RPGMC Kangra at Tanda Distt. Kangra.	302989/-	6100/-	Six Months	8	350/-



8	Replacement of old FTL fixtures with new LEDs and providing SOP cable from DG Panel to main E.I. panel at the Central Animal House, Autopsy Block of Dr. RPGMC Tanda at Kangra.	416567/-	8400/-	Two Months	8	350/-
9	Repair, Servicing & Comprehensive Maintenance of Split Type A.C. units installed in Paraclinic Block of Dr. RPGMC Kangra at Tanda for the year 2023-24	150500/-	3100/-	One Year	8	350/-
10	Repair, Servicing & Comprehensive Maintenance of split type air- conditioning units installed in the Maharaja Sansar Chand Guest House at Dr. RPGMC Kangra at Tanda for the year 2023-24.	150500/-	3100/-	One Year	8	350/-
11	Providing Main L.T. Panel along with changeover switch and SOP cable in CAT Block of NIFT Kangra at Chheb in Distt. Kangra (H.P).	435083/-	8800/-	Six Months	8	350/-
12	Repair and Maintenance of E.I. to various Govt Non- Residential Building at ESD Dharamshala Distt. Kangra (H.P)(SH:- Providing and fixing old and damaged RCCB's DP Isolator, MCB's replacement of LED Down lighters and Sub- mains and campus light in Circuit House).	225714/-	4600/-	Six Months	8	350/-
13	Annual repair and maintenance of E.I. in various Govt. Residential buildings in District Kangra under Electrical Sub Division HPPWD Dehra (H.P) (Section-Dehra & Jawalamukhi) (SH:- A/R & M/O various capacity split type air conditioner in various Non residential building for the year 2024-25.	168300/-	3400/-	One Year	8	350/-
14	Repair, Servicing & Comprehensive Maintenance of different types air-conditioning units installed in the Ward Block 3-A and Ward Block 2-B of 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.	476200/-	9600/-	One Year	8	350/-
15	Replacement of E.I. & safety devices in Shanidev Temple at Mahakal Mandir at Mahakal in Tehsil Baijnath in Distt. Kangra (H.P)	453257/-	9100/-	One Months	8	350/-
16	C/O School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P)(SH:- Providing Air-Conditioning units to Conference Room, Faculty Room, Director Room, Emergency Room, Store, Maternal & Newborn PICU of Critical Care Skill Lab/Simulation Lab therein).	485265/-	9800/-	Three Months	8	350/-
17	C/O School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P)(SH:- Providing Air-Conditioning units to ICU, In-Patient Ward, Skill Room and Pantry of Critical Care Skill Lab/Simulation Lab therein).	408910/-	8200/-	Three Months	8	350/-

18	Replacement of E.I. and switchgear system into new one of DIET Campus at Saru in Tehsil & Distt Chamba (HP) (Ground floor) <b>Part-I</b>	496445/-	10000/-	Six Months	8	350/-
19	Replacement of E.I. and switchgear system into new one of DIET Campus at Saru in Tehsil & Distt. Chamba (HP) (First floor) <b>Part-I</b>	496445/-	10000/-	Six Months	8	350/-

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## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
Name of Work :- Repair and Maintenance of various sets (Ground Floor) in HP PWD Rest House at Khundian in Tehsil Khundian Distt Kangra (H.P.) (SH: Providing EI therein).		Job No		ESTIMATED COST Rs.4,75,907/- only. EARNEST MONEY: Rs 9600/- only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Rewiring 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(Myrlus),Schlender(Livia),Anchor Roma(Plus),L&T(Entice).	30	1119	Rupees One Thousand One Hundred Nineteen Only	P/Pt	33570
2	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(Myrlus),Schlender(Livia),Anchor Roma(Plus),L&T(Entice).	25	1858	Rupees One Thousand Eight Hundred Fifty Eight Only	P/Pt	46450
3	Wiring for Twin Control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 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.					

1	Group C. Makes:- Legrand(Myrius),Schionder(Livia),Anchor Roma(Plus),L&T(Entico).	2	1929	Rupees One Thousand Nine Hundred Twenty Nine Only	P/Pl	3858
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	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	40	340	Rupees Three Hundred Forty Only	P/Mtr	13600
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.					
1	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	55	401	Rupees Four Hundred One Only	P/Mtr	22055
6	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	477	Rupees Four Hundred Seventy Seven Only	P/Mtr	26235
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	30	779	Rupees Seven Hundred Seventy Nine Only	P/Mtr	23370
8	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	5	1380	Rupees One Thousand Three Hundred Eighty Only	P/Mtr	6900
1	Makes: Plaza/KEI/SCI					

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	30	112	Rupees One Hundred Twelve Only	P/Mtr	3360	
ii	3X2.5Sq.mm	35	172	Rupees One Hundred Seventy Two Only	P/Mtr	6020	
iii	3X4Sq.mm	35	254	Rupees Two Hundred Fifty Four Only	P/Mtr	8890	
	Makes: Plaza/KEUSCI						
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),Schlender(Livia),Anchor Roma(Plus)	21	591	Rupees Five Hundred Ninety One Only	Each	12411	
11	Supplying and fixing suitable size GI box with modular plate and cover in FRLSort 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),Schlender(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.	4	189	Rupees One Hundred Eighty Nine Only	Each	756	
	Makes: Anchor/Goldmedal.						
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.	19	268	Rupees Two Hundred Sixty Eight Only	Each	5092	
	Makes:- Legrand,Schlender,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.	6	619	Rupees Six Hundred Nineteen Only	Each 3714
	Makes:- Legrand,Schiender,L&T.				
15	Supplying and fixing of Surface mounting LED Batten 40Watt with housing Aluminium diecast and Virgin Polycarbonates diffuser for best diffused light (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.(Including 5Years Warranty).				
i	LED Tube Light 4Feet Long				
	Makes: Clair, Havells & wipro.	6	2809	Rupees Two Thousand Eight Hundred Nine Only	Each 16854
16	Providing and fixing Surface mounted Round downlighter 15W 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 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.(Including 5Years Warranty).				
i	LED Round Panel Light (Surface) 15Watts	12	1268	Rupees One Thousand Two Hundred Sixty Eight Only	Each 15216
ii	Makes:Wipro,Bajaj & Panasonic.				



17	Providing and fixing Surface 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.(Including 5Years Warranty).						
i	LED Round Panel Light (Surface) 18Watts	13	1598	Rupees One Thousand Five Hundred Ninety Eight Only	Each	20774	
ii	Makes:Wipro,Bajaj & Panasonic.						
18	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.	4	1393	Rupees One Thousand Three Hundred Ninety Three Only	Each	5572	
19	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.(Including 5Years Warranty).						
i	LED Mirror light						
ii	Makes:Wipro,Bajaj & Panasonic.	5	337	Rupees Three Hundred Thirty Seven Only	Each	1685	

20	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 (Including 5 Years Warranty).					
I	Ceiling Fan 1200 mm sweep, Category-A	6	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	26316
II	Make:- Usha(BLDC), Bajaj					
21	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. (Including 5 Years Warranty).					
I	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3	2289	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	6867
II	Exhaust Fan, Heavy duty, (Domestic) 300 mm sweep	1	4580	Rupees Four Thousand Five Hundred Sixty Only	Each	4580
	Make:- Usha(AEROCLEAN PLUS DBB), Bajaj, Anchor					
22	Providing and installation of Stationary storage type electric water heater(Geyser) of various sizes by means of expansion bolts in the wall, making 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)	3	10298	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	30894
I	Makes:- Bajaj, Racold, Usha.					

23	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.					
1	Makes: Legrand, Schlender, L&T.  Supplying, Installation, Testing and Commissioning of indoor s/door, Cubical type L.T. Panel. The Panel shall be compartmentalized type having space and arrangement for incoming and outgoing cables/bus ducting, switchgear, insulated and properly supported compartmentalized bus-bars, interconnection between bus bars and switchgear with auxiliary bus bars/insulated conductors/strips etc. It shall be fabricated in 14G/16G CRCA sheet, base frame 75X40X3MM angle duly painted with Siemens Grey Powder Coated paint, Assembly Charges of 63A TPN Aluminium Busbar ( Vertical) & Earth strip throughout the length of Panel (current density of Aluminium Busbar shall be 1mmx1mm=1.0 Amp.) Aluminium shall be Electric Grade E-91E, Busbar supports shall be DMC epoxy Insulators. All Busbars Links shall be covered/ insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black. Approximate Size of Panel H- 1400mmX W- 1250mmX D-250mm. The Assembly Charges of 125 Amps 4P Aluminium/Copper solid/ Copper flexible wire interconnection Busbar to MCCB & MCCB/MCB to field side for Cable termination duly covered/ insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black. All Interconnections of fields side are supported by conical, L & Finger type insulators of adequate size to support & sustain the weight of cables. Control Wiring with Copper Flexible Wire (size of control wire shall be 2.5 sq. mm copper flexible for C.T. Circuit & 1.0 sq. mm for Control & 1.0sq. mm for Scada Wiring) with thimbles printed sleeves, tie & belt etc. Assembly Charges of Accessories like Gasket, Doorlocks, Copper Flexible door earth, legend plates etc and the panel should be approved/tested from the CPRI lab and should be Confirm I.S.64139(EVA Power system & control or approved equivalent make).	3	785	Rupees Seven Hundred Eighty Five Only	Each	2355
24	MATERIAL:					

MAIN INCOMER: MCCB-125A 4P 25 KA TMR with O/L & S/C Protection-1 No., Spreader Link 125 A 4P-1Nos., Selector Switch-1No., Phase indicating Lamp-3 Nos, Control SP MCB-3Nos, Terminal switch -1No.					
OUTGOING :					
MCB 63A DP 10KA-6Nos, 8 Way TPN DB-1No., Space for MCB 6 To 32 A SP 10 KA-24Nos & N, Link & E bar-2Nos.					
All interconnections of fields side are supported by conical, L & finger type insulators of adequate size to support & sustain the weight of cables, Control wiring with copper flexible FRLS wire with thimbles, painted sleeves, tie & belt etc;					
The prices of complete job as per the specifications above shall be inclusive of gasket, doorlocks, reading glass, wooden, copper flexible door earth, legend plates etc.	1	120793	Rupees One Lacs Twenty Thousand Seven Hundred Ninety Three Only	Each	120793
Total					475007

*Schedule of work duly checked and approved for ₹ 475007/- only*

Executive Engineer  
Electrical Division  
HPWD Palampur  
X-1



## SCHEDULE OF QUANTITY

**NAME OF WORK :-** C/O HSC Building with delivery room (1st Floor ) at Kharul in Tehsil Palampur Distt. Kangra HP ( SH:- Providing E I therein)

**Job No** 2

**ESTIMATED COST:** Rs 1,25,265/-only.  
**EARNEST MONEY:** Rs.2600/-only  
**TIME ALLOWED:** Two Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	19	1808	Rupees One Thousand Eight Hundred Eight Only	Per point	34352
	Havells/KEI/Finolex make					
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	15	440	Rupees Four Hundred Forty Only	P/Mtr.	6600
	Havells/KEI/Finolex make					
3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	18	701	Rupees Seven Hundred One Only	P/Mtr.	12618
	Havells/KEI/Finolex make					
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
i	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	10	378	Rupees Three Hundred Seventy Eight Only	P/Mtr.	3780

ii	2x6Sqmm+ 1 X 6 sq. mm earth wire	2	608	Rupees Six Hundred Eight Only	P/Mtr.	1216
	Havells/KEI/Finolex make					
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel PVC conduit as required					
i	3x2.5 sq mm	25	144	Rupees One Hundred Forty Four Only	P/Mtr.	3600
	Havells/KEI/Finolex make					
6	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	11	583	Rupees Five Hundred Eighty Three Only	Each.	6413
	Make :- Schenider/L & T/Legrand					
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	4	752	Rupees Seven Hundred Fifty Two Only	Each.	3008
	Make :- Schenider/L & T/Legrand					
8	Providing, Installation, testing and commissioning of ceiling fan BLDC with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i	Ceiling Fan 1400 mm sweep, Category-A	2	4397	Rupees Four Thousand Three Hundred Nirely Seven Only	Each	8794
	Makes :- Ceiling Fan 1400 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj					
9	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:-					

1	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2	2191	Rupees Two Thousand One Hundred Ninety One Only	Each	4382
	Make:- Usha/Bajaj/Havells					
10	Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F $\geq$ 0.95 with THD <20%. CCT 6000 K, CRI 80. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V With 5 year warranty.					
i	LED Surface mounting round downlighter 18 watt	7	1567	Rupees One Thousand Five Hundred Sixty Seven Only	Each	10969
	Makes :- Wipro (Cat No :- LD80-171-xxx-60-SM/Philips/Bajaj)					
11	Providing and fixing LED Batten of 40 watt of to enhance the delight of with comfortable experience through its classic design & glare free illumination of make as per cat. No. ZD-LTD010-40 Watt complete with connection testing, commissioning etc. as required in all respect With 5 year warranty.					
i	LED Batten 40 watt downlight	2	2312	Rupees Two Thousand Three Hundred Twelve Only	Each	4624
	Make Clair/ Bajaj/ Wipro					
12	Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P.F $\geq$ 0.95 with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . With 5 year warranty.	4	1478	Rupees One Thousand Four Hundred Seventy Eight Only	Each	5912
	Makes :- Wipro ( Cat No.:- LW07-141-XXX-57-G1) Philips/Bajaj					
13	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	1	191	Rupees One Hundred Ninety One Only	Each	191

14	supplying and fixing following type of LED Mirror Light luminaire , 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 year warranty.					
	Make :- Crompton Cat No.CCS-103-05-65-SL-DP-NWH/ BajajDecon	1	431	Rupees Four Hundred Thirty One Only	Each	431
15	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with lined copper bus- bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator)					
i	Double door-12 way	1	1978	Rupees One Thousand Nine Hundred Seventy Eight Only	Each	1978
	L&T/Legrand/Schneider make					
16	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
i	6 Amp Single pole, Cat-A.	4	233	Rupees Two Hundred Thirty Three Only	Each	932
ii	16 Amp Single pole, Cat-A.	4	233	Rupees Two Hundred Thirty Three Only	Each	932
	L&T/Legrand/Schneider make					



17	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	521	Rupees Five Hundred Twenty One Only	Each	521	
	<b>L&amp;T/Legrand/Schneider make</b>						
18	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
i	63 Amps. Cat-A.	1	2985	Rupees Two Thousand Nine Hundred Eighty Five Only	Each	2985	
	<b>L&amp;T/Legrand/Schneider make</b>						
19	Earthing with G I earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. complete as required.	1	10067	Rupees Ten Thousand Sixty Seven Only	Per set	10067	
20	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	48	Rupees Forty Eight Only	Per Mtr	960	
	<b>Total</b>					<b>125265</b>	

*Schedule of quantities checked and approved for R. 125265 only*

Executive Engineer  
 Electrical Division  
 HPPWD Palampur  
*Xm*

## SCHEDULE OF QUANTITY

NAME OF WORK :- C/O HSC Building with delivery room ( First Floor ) at Bhoda in Tehsil Palampur Distt. Kangra HP( SH:- Providing E I therein)			Job No 3		ESTIMATED COST: Rs 1,25,265/-only. EARNEST MONEY: Rs.2600/-only TIME ALLOWED: Two Year	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	19	1808	Rupees One Thousand Eight Hundred Eight Only	Per point	34352
	Havells/KEI/Finolex make					
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	15	440	Rupees Four Hundred Forty Only	P/Mtr.	6600
	Havells/KEI/Finolex make					
3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	18	701	Rupees Seven Hundred One Only	P/Mtr.	12618
	Havells/KEI/Finolex make					
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
i	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	10	378	Rupees Three Hundred Seventy Eight Only	P/Mtr.	3780
ii	2x6Sqmm+ 1 X 6 sq. mm earth wire	2	608	Rupees Six Hundred Eight Only	P/Mtr.	1216

	<b>Havells/KEI/Finolex make</b>					
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					
1	3x2.5 sq mm	25	144	Rupees One Hundred Forty Four Only	P/Mr.	3600
	<b>Havells/KEI/Finolex make</b>					
6	Supplying and fixing suitable size G 1 box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	11	583	Rupees Five Hundred Eighty Three Only	Each.	6413
	<b>Make :- Schenider/L &amp; T/Legrand</b>					
7	Supplying and fixing suitable size G 1 box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	4	752	Rupees Seven Hundred Fifty Two Only	Each.	3008
	<b>Make :- Schenider/L &amp; T/Legrand</b>					
8	Providing, installation, testing and commissioning of ceiling fan BLDC with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
1	<b>Ceiling Fan 1400 mm sweep, Category-A</b>	2	4397	Rupees Four Thousand Three Hundred Ninety Seven Only	Each	8794
	<b>Makes :- Ceiling Fan 1400 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj</b>					
9	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					

i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2	2191	Rupees Two Thousand One Hundred Ninety One Only	Each	4382
	Make:- Usha/Bajaj/Havells					
10	Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F $\geq$ 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V With 5 year warranty.					
i	LED Surface mounting round downlighter 18 watt	7	1567	Rupees One Thousand Five Hundred Sixty Seven Only	Each	10969
	Makes :- Wipro (Cat No :- LD80-171-xxx-60-SM/Philips/Bajaj)					
11	Providing and fixing LED Batten of 40 watt of to enhance the delight of with comfortable experience through its classic design & glare free illumination of make as per cat No. ZD-LTD010-40 Watt complete with connection testing, commissioning etc. as required in all respect With 5 year warranty.					
i	LED Batten 40 watt downlight	2	2312	Rupees Two Thousand Three Hundred Twelve Only	Each	4624
	Make Clair/ Bajaj/ Wipro					
12	Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P.F $\geq$ 0.95 with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . With 5 year warranty.	4	1478	Rupees One Thousand Four Hundred Seventy Eight Only	Each	5912
	Makes :- Wipro ( Cat No :- LW07-141-XXX-57-G1) Philips/Bajaj					
13	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	1	191	Rupees One Hundred Ninety One Only	Each	191



14	supplying and fixing following type of LED Mirror Light luminaire , 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 year warranty.					
	Make :- Crompton Cat No.CCS-103-05-65-SL-DP-NWH/ Bajaj/Decon	1	431	Rupees Four Hundred Thirty One Only	Each	431
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, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator)					
i	Double door-12 way	1	1978	Rupees One Thousand Nine Hundred Seventy Eight Only	Each	1978
	L&T/Legrand/Schneider make					
16	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts,10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
i	6 Amp Single pole. Cat-A.	4	233	Rupees Two Hundred Thirty Three Only	Each	932
ii	16 Amp Single pole. Cat-A.	4	233	Rupees Two Hundred Thirty Three Only	Each	932
	L&T/Legrand/Schneider make					

17	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
1	63 Amps. Cat-A.	1	521	Rupees Five Hundred Twenty One Only	Each	521
	<b>L&amp;T/Legrand/Schneider make</b>					
18	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.					
1	63 Amps. Cat-A.	1	2985	Rupees Two Thousand Nine Hundred Eighty Five Only	Each	2985
	<b>L&amp;T/Legrand/Schneider make</b>					
19	Earthing with G I earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. complete as required.	1	10067	Rupees Ten Thousand Sixty Seven Only	Per set	10067
20	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	48	Rupees Forty Eight Only	Per Mtr	960
	<b>Total</b>					<b>125265</b>

*Schedule of quantity checked and approved for Rs 125265/- only*

Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

NAME OF WORK :- C/O HSC Building with delivery room (Ground Floor ) at Kahanphatt in Tehsil Dheera Distt. Kangra HP ( SH:- Providing E I therein)						
SR. NO.		DESCRIPTION	QTY.	Job No 4		ESTIMATED COST: Rs 1,94,132/-only. EARNEST MONEY: Rs.3900/-only TIME ALLOWED: Two Year ✓
				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 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.				
		<b>Group C.</b>	28	1808	Rupees One Thousand Eight Hundred Eight Only	Per point. 50624
		<b>Havells/KEI/Finolex make</b>				
2		Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	30	440	Rupees Four Hundred Forty Only	P/Mtr. 13200
		<b>Havells/KEI/Finolex make</b>				
3		Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	36	701	Rupees Seven Hundred One Only	P/Mtr. 25236
		<b>Havells/KEI/Finolex make</b>				
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	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	25	378	Rupees Three Hundred Seventy Eight Only	P/Mtr.	9450
ii	2x6Sqmm+ 1 X 6 sq. mm earth wire	1	608	Rupees Six Hundred Eight Only	P/Mtr.	608
	<b>Havells/KEI/Finolex make</b>					
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	3x2.5 sq mm	25	144	Rupees One Hundred Forty Four Only	P/Mtr.	3600
	<b>Havells/KEI/Finolex make</b>					
6	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	4	583	Rupees Five Hundred Eighty Three Only	Each.	2332
	<b>Make :- Schenider/L&amp;T/Legrand</b>					
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	7	752	Rupees Seven Hundred Fifty Two Only	Each.	5264
	<b>Make :- Schenider/L&amp;T/Legrand</b>					
8	Providing, Installation, testing and commissioning of ceiling fan B.L.D.C. with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					



i	Ceiling Fan 1400 mm sweep, Category-A	3	4397	Rupees Four Thousand Three Hundred Ninety Seven Only	Each	13131
	Makes :- Ceiling Fan 1400 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj					
9	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3	2151	Rupees Two Thousand One Hundred Ninety One Only	Each	6573
	Make:- Usha/Bajaj/Havells					
10	Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F $\geq 0.95$ with THD <20%, CCT 5000 K CRI 80. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V With 5 year warranty.					
i	LED Surface mounting round downlighter 18 watt	3	1567	Rupees One Thousand Five Hundred Sixty Seven Only	Each	4701
	Makes :- Wipro (Cat No :- LD80-171-xxx-60-SM/Philips/Bajaj)					
11	Providing and fixing LED Batten of 40 watt of to enhance the delight of with comfortable experience through its classic design & glare free illumination of make as per cat No. ZD-LTD010-40 Watt complete with connection testing, commissioning etc. as required in all respect With 5 year warranty.					
i	LED Batten 40 watt downlight	9	2312	Rupees Two Thousand Three Hundred Twelve Only	Each	20605

	<b>Make Clair/ Bajaj/ Wipro</b>					
12	Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P.F > 0.95 with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . <b>With 5 year warranty.</b>	5	1478	Rupees One Thousand Four Hundred Seventy Eight Only	Each	7390
	<b>Makes :- Wipro ( Cat No.:-LW07-141-XXX-57-G1) Philips/Bajaj</b>					
13	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	1	191	Rupees One Hundred Ninety One Only	Each	191
14	supplying and fixing following type of <b>LED Mirror Light</b> luminaire , 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 <b>With 5 year warranty.</b>					
	<b>Make :- Crompton Cat No.CCS-103-05-65-SL-DP-NWH/ Bajaj/Decon</b>	2	431	Rupees Four Hundred Thirty One Only	Each	862
15	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, 50Hz, with <b>5 year warranty</b> including connection, testing and commissioning etc. as required.					
	<b>Make :- Crompton Greaves Electric having cat No. / ordering code LSTS-20-CDL-M</b>	2	2306	Rupees Two Thousand Three Hundred Six Only	Each	4612

16	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator)					
i	Double door-12 way	2	1978	Rupees One Thousand Nine Hundred Seventy Eight Only	Each	3956
	L&T/Legrand/Schneider make					
17	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
i	6 Amp Single pole. Cat-A.	8	233	Rupees Two Hundred Thirty Three Only	Each	1864
ii	16 Amp Single pole. Cat-A.	7	233	Rupees Two Hundred Thirty Three Only	Each	1631
	L&T/Legrand/Schneider make					
18	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	521	Rupees Five Hundred Twenty One Only	Each	1042
	L&T/Legrand/Schneider make					

19	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.	2	2985	Rupees Two Thousand Nine Hundred Eighty Five Only	Each	5970
	L&T/Legrand/Schneider make					
20	Earthing with G I earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. complete as required.	1	10067	Rupees Ten Thousand Sixty Seven Only	Per set	10067
21	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	48	Rupees Forty Eight Only	Per Mtr	960
	Total					194132

*Schedule of quantity checked and approved for ₹ 194132-00/- only*

Executive Engineer  
Electrical Division  
HPPWD Palampur



## SCHEDULE OF QUANTITY

**Name of Work :- Construction Of Residential building Seri Culture**  
**Department at Dodun Brahmna in tehsil Rakkar Distt. Kangra(HP)(SH:-**  
**Providing E.I. therein)**

**job No** S

**ESTIMATED COST: Rs.1,62,549/-only.**  
**EARNEST MONEY: Rs.3300/-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	<b>Group A</b>	23	1141	Rupees One Thousand One Hundred Forty One Only	P/Pt	26243
	<b>Makes:- Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus),L&amp;T(Entice).</b>					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
i	<b>2X1.5Sq.mm+1X1.5Sq.mm Earth wire</b>					
	<b>Makes: Plaza/KEI/Havells</b>	20	340	Rupees Three Hundred Forty Only	P/Mtr	6800
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	<b>2X2.5Sq.mm+1X2.5Sq.mm Earth wire</b>					
	<b>Makes: Plaza/KEI/Havells</b>	30	401	Rupees Four Hundred One Only	P/Mtr	12030
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/Havells	30	477	Rupees Four Hundred Seventy Seven Only	P/Mtr	14310
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					
i	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	3	800	Rupees Eight Hundred Only	P/Mtr	2400
	Makes: Plaza/KEI/Havells					
6	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	10	779	Rupees Seven Hundred Seventy Nine Only	P/Mtr	7790
7	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
i	3X1.5 Sq.mm	10	112	Rupees One Hundred Twelve Only	P/Mtr	1120
ii	3X2.5Sq.mm	10	172	Rupees One Hundred Seventy Two Only	P/Mtr	1720
iii	3X4Sq.mm	13	254	Rupees Two Hundred Fifty Four Only	P/Mtr	3302
	Makes: Plaza/KEI/Havells					
8	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)	7	591	Rupees Five Hundred Ninety One Only	Each	4137

9	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.						
1	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	5	760	Rupees Seven Hundred Sixty Only	Each	3800	
10	Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.	1	189	Rupees One Hundred Eighty Nine Only	Each	189	
	Makes: Anchor/Goldmedal.						
11	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.	8	268	Rupees Two Hundred Sixty Eight Only	Each	2144	
	Makes:- Legrand,Schneider,L&T.						
12	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	491	Rupees Four Hundred Ninety One Only	Each	491	
	Makes:- Legrand,Schneider,L&T.						
13	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.						
i	40 Amps. Cat-A.	1	2719	Rupees Two Thousand Seven Hundred Nineteen Only	Each	2719	
	Makes:- Legrand,Schneider,L&T.						

14	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.					
ii	Double door-12 way	1	2326	Rupees Two Thousand Three Hundred Twenty Six Only	Each	2326
15	Supply, Erection, Installation and commissioning of Uniearth maintenance free chemical earthing system consisting of environment friendly ground enhancing compound 'G.E.C' 50kg 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 meter length, 17.2 mm diameter, terminal joint 200X25X6mm GI Strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30KA short time current test for 1 sec rms.	1	23475	Rupees Twenty Three Thousand Four Hundred Seventy Five Only	P/Set	23475
16	Providing and fixing 6SWG G.I. wire at 0.50 mtr. Below ground level for earth electrode conductor including soldering etc. as required.	25	46	Rupees Forty Six Only	P/Mtr	1150
17	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	2289	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	4578
	Make: Usha (AEROCLEAN PLUS DBB), Bajaj, Crompton					



18	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: <b>with not less than 3 rated star</b>					
1	Ceiling Fan 1200 mm sweep, Category-A	5	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	21930
	<b>Make:- Usha(BLDC ),Bajaj,Crompton</b>					
19	Supplying and fixing of fancy wall bracket 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 Make.(Including 5Years Warranty).					
	<b>Fancy Wall Light Fixture</b>	2	1648	Rupees One Thousand Six Hundred Forty Eight Only	Each	3296
	<b>Makes: Bajaj ,Decon,wipro,Havells</b>					
20	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 (Including 5Years Warranty).					
1	<b>LED Tube Light 4Feet Long</b>					
	<b>Makes: Havells,Bajaj,wipro</b>	5	877	Rupees Eight Hundred Seventy Seven Only	Each	4385

21	Providing and fixing surface/Recess mounted Round/Square downlighter 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) 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. (Including 5 Years Warranty).					
i	Round/Square LED Surface/Recess Panel Light 18/20 Watts	6	1564	Rupees One Thousand Five Hundred Sixty Four Only	Each	9384
	Makes:- Bajaj, Havells, wipro, Panasonic					
22	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. (Including 5 Years Warranty).					
i	LED 10 Watt Bulk Head	2	1415	Rupees One Thousand Four Hundred Fifteen Only	Each	2830
	Makes: Bajaj, Havells, wipro					
	Total					162549

*Schedule of quantities checked and approved for ₹ 162549/- only*

Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

**Name of Work :-** Providing and fixing Yard Lighting in HP PWD Rest house Khaira in Tehsil Palampur Distt. Kangra HP (Sh:- S/F LED Fitting, ceiling fan, Exhaust Fan etc there in )

job No 6

**ESTIMATED COST:** Rs. 1,59,750/-only.  
**EARNEST MONEY:** Rs.3200/-only  
**TIME ALLOWED:** Two Week

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and erection of LuxMax Steel Poles are made out of Galvanised Mild steel tubes having 140mm dia at bottom and 90mm dia at top with cast alum. The Poles are primer coated and painted with Polyurethane paint. Poles are suitable for single /Double/Triple/Four side Post Top/Drop down Luminaires. The Poles has a service window at the bottom comprising Four way 25 Amp connector terminal and a MCB Poles has a mild steel base plate having Four numbers mounting holes and can be mounted with Four numbers anchor bolts complete in all respects as required.					
	3 Mtrs. Lux Max-Steel Ribbed Pole - R-105-81-Q1-300/ K-Lite/Bajaj make	2	16132	Rupees Sixteen Thousand One Hundred Thirty Two Only	Each	32264
2	Supplying and fixing of PRECENT LED Post Top fixture of following capacity are made of Die cast alum. Housing with three nos die cast aluminium arms are provided to support the housing power LEDs are mounted on metal clad PCBs and LEDs & PCB assembly are mounted extruded aluminium Heat Sinks AUV stabilized PC diffuser is provided as complete in all respects as required.					
	LED 40 watt- ARCTURA Twinkle make	2	16380	Rupees Sixteen Thousand Three Hundred Eighty Only	Each	32760
	Makes:- LuxMax-PT-155-40 Watt (Twinkle)/ K-Lite/Bajaj make					

3	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation sand cushioning, protective covering and refilling the trench etc. of the required size:-					
	Armoured cable 6 sq. mm (twin core)	120	480	Rupees Four Hundred Eighty Only	P/Mtrs.	57600
	Havells, Polycab, KEI					
4	Providing, Installation, testing and commissioning of ceiling fan BLDC with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	Ceiling Fan 1200 mm sweep, Category-A	3	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	13158
	Makes :- Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj					
5	Providing and fixing LED Batten of 40 watt of to enhance the delight of with comfortable experience through its classic design & glare free illumination of make as per cat. No. ZD-LTD010-40 Watt complete with connection testing, commissioning etc. as required in all respect with 5 years warranty					
	LED Batten light 40 W	3	2315	Rupees Two Thousand Three Hundred Fifteen Only	Each	6945
	Make cat. No. ZD-LTD010-40 Watt Clair/ Bja/ Wipro					
6	Providing and installation of LED fixture 15 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F $\geq$ 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V with 5 years warranty					



	LED Surface mounting round downlighter 15 watt	6	2474	Rupees Two Thousand Four Hundred Seventy Four Only	Each	14844
	Makes :- Wipro (Cat No :- LD80-171-xxx-60-SM/Philips/Bajaj)					
7	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	1	2179	Rupees Two Thousand One Hundred Seventy Nine Only	Each	2179
	Makes:- Usha/Bajaj/Havells					
	Total					159750

*Schedule of quantity checked and approved for ₹. 159750/- only*

Executive Engineer  
Electrical Division  
HPPWD Palampur



## SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of old and damaged FTL fixtures with LED fixtures in Hall Area, E-opd Room, Reading Room, Journal Room etc in First floor area of Central library at Dr. RPGMC Kangra at Tanda Distt. Kangra.			Job No 7		ESTIMATED COST: Rs.3,02,989/-only. EARNEST MONEY: Rs.6100/-only TIME ALLOWED: Six Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
1.2	2x4 Sq. mm.	15	348	Rupees Three Hundred Forty Eight Only	P/Mtr	5220
	(Make:-KEI / Anchor / Plaza/SCI)					
2	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.	3	582	Rupees Five Hundred Eighty Two Only	Each	1746
	Makes:- Anchor/Legrand/Schneider/L&T					
4	Providing, Installation, testing and commissioning of ceiling fan with 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					
4.1	Ceiling Fan 1200 mm sweep, Category-A	3	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	9573
	Makes:- Usha Technix Plus 3 Star/ Bajaj/ Crompton.					

5	Supplying and fixing surface mounting 2'x2' size LED solution suitable for surface application with the use of the latest technology 36 Watt (3360 lumens), 6500K made of CRCA housing and it should be compatible with specifications i.e. power factor $\geq 0.95$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 80$ 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 years warranty.	35	4834	Rupees Four Thousand Eight Hundred Thirty Four Only	Each	169190.
5.1	36 Watt LED, 2'x2' Panel					
	Makes: Wipro CRCO10S038HP57G1L1/ Bajaj/ Philips					
6	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. complete in all respects.					
6.1	18 Watt LED Tube fixture with rod	33	1508	Rupees One Thousand Five Hundred Eight Only	Each	49764
	Makes: Havells/ Bajaj/ Wipro					
7	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.					
7.1	LED Bulb 9 watt	16	133	Rupees One Hundred Thirty Three Only	Each	2128
	Makes: Panasonic/ Havells/ Osram					

8	Providing, Installation, testing and commissioning of wall fan of following size by means of Suitable rag-bolt/ nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer-in-charge.					
8.1	Wall fan 450 mm Air Circulator Heavy duty	8	8171	Rupees Eight Thousand One Hundred Seventy One Only	Each	65368
	Makes: Havells/ Bajaj/ Crompton					
	Total					302989

*Draft Schedule of quantity checked and proved for 302989 only*

Executive Engineer  
Electrical Division  
HPWD Palampur



## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK:-Replacement of old FTL fixtures with new LEDs and providing SOP cable from DG Panel to main E.I. panel at the Central Animal House, Autopsy Block of Dr. RPGMC Tanda at Kangra.		Job No. 8		ESTIMATED COST: Rs.4,16,567/-only. EARNED MONEY: Rs.8400/-only TIME ALLOWED: Two Months		
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without switch, phenolic laminated sheet and M.S. box)					
	Group C	10	1133.00	Rupees One Thousand One Hundred Thirty Three Only	Per Point	11330
	(Make:-KEI,SCI,Anchor,Plaza) Legrand (Myrius), L&T(Oris), Anchor (Roma plus).					
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.	20	212.00	Rupees Two Hundred Twelve Only	P/Mtr	4240
2.2	2x4.0 Sq. mm.	60	348.00	Rupees Three Hundred Forty Eight Only	P/Mtr	20880
	(Make:-KEI / Anchor / Plaza/SCI)					
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
3.1	5/10 Amps. Modular switch	3	130.00	Rupees One Hundred Thirty Only	Each	390
3.2	15/20 Amps. Modular switch	1	225.00	Rupees Two Hundred Twenty Five Only	Each	225
3.3	5/6 Amp. Modular socket outlet	3	187.00	Rupees One Hundred Eighty Seven Only	Each	561
3.4	15/16 Amp. Modular socket outlet	1	340.00	Rupees Three Hundred Forty Only	Each	340
	Makes:- L&T/Legrand/Schneider					

4	Supplying and fixing following sized modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
	<b>12 Module</b>	2	842.00	Rupees Eight Hundred Forty Two Only	Each	1684
	<b>Makes:- L&amp;T/Legrand/Schneider</b>					
5	Supplying and erection of power unit of following capacity suitable for air conditioning unit /geyser along with cable output including connections etc. as required.					
	<b>32 Amp. Power unit for A.C.</b>	10	1703.00	Rupees One Thousand Seven Hundred Three Only	Each	17030
	<b>Makes:- Legrand/L&amp;T/Schneider</b>					
6	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in Cubicle panel, making connections, etc. as required.					
	<b>MCCB 100 Amp. -18 KA</b>	2	6653.00	Rupees Six Thousand Six Hundred Fifty Three Only	Each	13306
	<b>Makes:- L&amp;T/Legrand/Schneider.</b>					
7	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- <b>Makes:-KEI / Anchor / Plaza/SCI)</b>					
	<b>Armoured cable 35 sq. mm (3.5 core)</b>	70	612.00	Rupees Six Hundred Twelve Only	P/Mtr	42840
8	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:-					
	<b>Exhaust Fan, light duty 300mm</b>	6	2269.00	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	13614
	<b>Makes:- Usha/Crompton/Bajaj</b>					

9	Providing, Installation, testing and commissioning of ceiling fan with 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.					
	Ceiling Fan 1200 mm sweep, Category-A	2	3191.00	Rupees Three Thousand One Hundred Ninety One Only	Each	6382
	Makes:- Usha Technix Plus 3 Star/ Bajaj/ Crompton.with 3 rated star					
10	Providing and fixing of IP20 LED Surface mounted CRCA Powder Coated Box type channel system with Pro LED Lamp suitable for mounting 1x40 W LED Tube T8 type having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K,CRI 80, Surge Protection range 2 kV. The LED with useful life of 50000 Hrs. at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects.with 5 year warranty.					
	40 Watt LED batten	9	2856.00	Rupees Two Thousand Eight Hundred Fifty Six Only	Each	25704
	Makes:- Wipro/Havells/Bajaj					
11	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70 with 5 years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects..with 5 year warranty.					
	24 Watt LED 1'x1' Surface panel	36	2657.00	Rupees Two Thousand Six Hundred Fifty Seven Only	Each	95652
	Makes:- Wipro/Havells/Bajaj					

12	Providing and fixing of LED fixture 1200mm x 300mm 36Watt +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70 with 5 years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects.					
	36 Watt LED 4'x1' surface panel	12	7568.00	Rupees Seven Thousand Five Hundred Sixty Eight Only	Each	90816
	Makes:- Philips/Wipro/Bajaj					
13	Providing and fixing of IP20 LED Surface mounted CRCA Powder Coated Box type channel system with Pro LED Lamp suitable for mounting 1 x 18 W LED Tube T8 type having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K, CRI 80, Surge Protection range 2 kV. The LED with useful life of 50000 Hrs. at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects..with 5 year warranty.					
	LED 18 Watt Tube fixture	5	1823.00	Rupees One Thousand Eight Hundred Twenty Three Only	Each	9115
	Makes:- Philips/Wipro/Bajaj					
14	Providing and fixing of LED fixture 600mmX600mm 36 Watt +/- 1W Surface mounted fixture with HET Plastic diffuser with minimum system lumen efficacy of 100 lm/W with CRCA housing having P.F.>0.95 with THD<10% , 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 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing and commissioning etc. as required complete in all respects..with 5 year warranty.					
	36 Watt LED 2'x2' recess panel	4	5880.00	Rupees Five Thousand Eight Hundred Eighty Only	Each	23520
	Makes:- Philips/Wipro/Bajaj					



15	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminium housing. Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% , CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing and commissioning etc. as required complete in all respects..with 5 year warranty.					
	LED Bulk Head 10 Watt	2	1736.00	Rupees One Thousand Seven Hundred Thirty Six Only	Each	3472
	Makes:- Phillips/Wipro/Bajaj					
16	Supplying and fixing of LED flood light luminaire with the use of the latest technology 60 Watt (6000 lumens), 6500K made of CRCA housing and it should be compatible with specifications i.e. power factor $\geq 0.95$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 150-270V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.as required..with 5 year warranty.					
	LED 60 Watt Flood light	6	5911.00	Rupees Five Thousand Nine Hundred Eleven Only	Each	35466
	Makes:- Havells/Wipro/Panasonic					
	Total					416567

*Schedule of quantity checked and approved for ₹. 416567 only*

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur  


## SCHEDULE OF QUANTITY

NAME OF WORK :- Repair, Servicing & Comprehensive Maintenance of Split Type A.C. units installed in Paraclinic Block of Dr. R.P.G.M.C Kangra at Tanda for the year 2023-24.		Job No 9		ESTIMATED COST: Rs 1,50,500/-only. EARNEST MONEY: Rs.3100/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair, Servicing & comprehensive Maintenance of Split Air-Conditioning Units having following capacity including maintenance of voltage stabilizer and all other accessories extra copper pipes with sleeves, drain pipe, wire, insulation and battens etc. with servicing, cleaning the filters, charging/lopping up of refrigerant/R-22 Gas when required throughout the year but excluding the replacement of the compressor of A.C. units which are beyond repair. The repair and maintenance has been done as per instructions and directions to the best satisfaction of Engineer-in-charge.	35	4300.00	Rupees Four Thousand Three Hundred Only	Each	150500
Total						150500

*Schedule of quantity checked and approved for ₹ 150500 -only*

  
 Executive Engineer  
 Electrical Division  
 HPPWD/Palampur



## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Repair, Servicing & Comprehensive Maintenance of split type air- conditioning units installed in the Maharaja Sansar Chand Guest House at Dr. RPGMC Kangra at Tanda for the year 2023-24.

Job No 10

**ESTIMATED COST:** Rs.1,50,500/-only.  
**EARNEST MONEY:** Rs.3100/-only  
**TIME ALLOWED:** One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair , Servicing & comprehensive Maintenance of Split Air-Conditioning Units having following capacity including maintenance of voltage stabilizer and all other accessories extra copper pipes with sleeves, drain pipe, wire, insulation and battens etc. with servicing , cleaning the filters, charging/topping up of refrigerant /R-22 Gas when required throughout the year including replacement of the compressor of A.C. units which are beyond repair. The repair and maintenance has been done as per instructions and directions to the best satisfaction of Engineer-in-charge.					
1.1	Split type A.C units 1.5 T.R Capacity	35	4300	Rupees Four Thousand Three Hundred Only	Each	150500
	<b>Total</b>					<b>150500</b>

Schedule of Quantity checked and approved for ₹ 150,500 only

Executive Engineer  
 Electrical Division  
 HPPWD Palampur

## SCHEDULE OF QUANTITY

NAME OF WORK :- Providing main L.T. Panel along with changeover switch and SOP cable in CAT Block of NIFT Kangra at Chheb in Distt. Kangra (H.P.)		Job No 1)		ESTIMATED COST: Rs 4,35,083/-only. EARNEST MONEY: Rs.8800/-only TIME ALLOWED: Six Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supply, fabricating, installing, testing, commissioning and electrically connected Factory (CPRI approved) made, LT panel Board of approved size as recommended by IS & CPRI norms, Outdoor type, Floor Mounted 1100 Volts, made out of CRCA sheet 3.0 mm thick fully compartmentalised with IP-54 protection, 415 volts, 3 phase, 4 wire AC supply, complete all as specified including provision of following accessory components housed in it :					
	<u>Technical Specifications and Material detail of Main Distribution Panel</u>					
1.1	i) Indoor floor mounted enclosure - front & rear operable, 1.6mm load bearings, 1.6mm non-load bearing- M.S. sheet with stand 40 x 40 x 6mm					
1.2	(ii) Digital Three Phase Voltmeter-01 Set					
1.3	(iii) LED indicating lamp (set of three) protected by 6A SP MCB					
1.4	(iv) Cable entry : back side with bottom gland plates					
1.5	(v) Aluminium busbar links: 500A - 1A/sq.mm.					
1.6	(vi) Panel wiring harness (control, power, metering), Hardware (locks, gaskets, nut bolts etc.)					
1.7	(vii) Labour / Fitting : Switchgear & Control gear fitting					
	Incoming:- i) MCCB 400 Amps 4 Pole 36kA (Spreader Links Inc.) - 01 No.					



	Outgoing:- (Spreader Links Inc) - 04 Nos.  i) MCCB 100 Amps 4 Pole 25kA	1	243611.00	Rupees Two Lacs Forty Three Thousand Six Hundred Eleven Only	Per Job	243611
2	Supply, fabricating, installing, testing, commissioning and electrically connected Factory made (CPR1 approved), On-load Changeover switch of approved size as recommended by IS & CPR1 norms, Outdoor type, 1100 Volts, made out of CRCA sheet 3.0 mm thick fully compartmentalised with IP-54 protection, for 415 volts, 3 phase, 4 wire AC supply, complete all as specified including provision of following accessory components housed in it :-					
	<b>630 Amps 4 Pole On-Changeover Switch</b>	1	112104.00	Rupees One Lacs Twelve Thousand One Hundred Four Only	Per Job	112104
3	Supplying, installing on wall/ceiling, testing and commissioning of following capacity Air Insulated Compact Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with aluminium bus bars having current density of 130 A/sq cm at nominal current rating, necessary joints, elbow joints & expansion joints, fire barrier at each floor, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, Suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.					

	600 Amps Aluminium busbar	1	56733.00	Rupees Fifty Six Thousand Seven Hundred Thirty Three Only	Per Job	56733
4	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required.					
	Armoured cable 120 sq. mm (3.5 core)	15	1509.00	Rupees One Thousand Five Hundred Nine Only	Per Meter	22635
	Makes:- Havells/KEI/Polycab					
	Total					435083

*Schedule of quantity checked and approved for Rs. 435083 only*

Executive Engineer  
Electrical Division  
HPFWD Palampur



## SCHEDULE OF QUANTITY

NAME OF WORK :- Repair and Maintenance of E.I. to various Govt. Non-Residential Buildings at ESD Dharmsghala Distt. Kangra. (SH:- Providing and fixing old and damaged RCCB's, DP Isolator, MCB's replacement of LED Down lighters and Sub-mains and campus light in Circuit House )						ESTIMATED COST: Rs.2,25,714/-only. EARNEST MONEY: Rs.4600/-only TIME ALLOWED: Six Months	
SR. NO.	DESCRIPTION	QTY.	job No 12		UNIT	AMOUNT	
			FIGURES	RATES			
				WORDS			
1.00	Wiring for circuit submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Plaza/Anchor.						
1.01	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	27	471	Rupees Four Hundred Seventy One Only	Per metre	12717	
1.02	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	22	657	Rupees Six Hundred Fifty Seven Only	Per metre	14454	
1.03	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	14	1373	Rupees One Thousand Three Hundred Seventy Three Only	Per Metre	19222	
1.04	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	15	2025	Rupees Two Thousand Twenty Five Only	Per Metre	30375	
2.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor.						
2.01	3 X 1.5 sq. mm	45	111	Rupees One Hundred Eleven Only	Per metre	4995	

2.02	3 X 4 sq. mm	18	253	Rupees Two Hundred Fifty Three Only	Per metre	4554
3.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
3.01	Bell push, Modular.	6	207	Rupees Two Hundred Seven Only	Each	1242
4.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: L&T (Entice)/Schneider (Livia)/ Legrand (Myrius).	9	582	Rupees Five Hundred Eighty Two Only	Each	5238
5.00	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make: Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	6	750	Rupees Seven Hundred Fifty Only	Each	4500
6.00	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	3	117	Rupees One Hundred Seventeen Only	Each	351
7.00	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
7.01	Single pole 6 Amp (Make:- Schneider/ Legrand/L&T)	7	265	Rupees Two Hundred Sixty Five Only	Each	1855
7.02	Single pole 16/32 Amp (Make:- Schneider/ Legrand/L&T)	6	265	Rupees Two Hundred Sixty Five Only	Each	1590
8.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					



8.01	40 Amps. (Make:- Schneider/ Legrand/L&T)	3	488	Rupees Four Hundred Eighty Eight Only	Each	1464
8.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	4	616	Rupees Six Hundred Sixteen Only	Each	2464
9.00	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.					
9.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Makes: Bajaj/Usha/Crompton	4	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	9076
10.00	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 $\geq 0.9$ , Harmonic Distortion $\leq 10\%$ and efficacy $\geq 100$ 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.	9	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Each	16407
11.00	Providing and fixing surface/recess mounting Square/Round LED downlighter suitable for surface application with the use of the latest technology 18/20 watt (1800 Lumen) 6000K and it should be compatible with specification i.e. Power Factor $\geq 0.9$ , Harmonic Distortion $\leq 10\%$ and efficacy $\geq 100$ 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 : Panasonic/ Philips/ Bajaj/Wipro.	13	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	20306

12.00	Supplying and fixing of LED Post Top fixture, 35 watt, Pure polyester UV resistant powder coated die cast aluminium housing with PMMA clear diffuser for uniform illumination complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. Make:- Philips/Bajaj/Wipro					
12.01	35 watt LED Post Top fixture.	8	9363	Rupees Nine Thousand Three Hundred Sixty Three Only	Each	74904
	<b>Total</b>					<b>225714</b>

*Schedule of quantity checked and approved for 225714/08*

Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Annual repair and maintenance of E.I. in various Govt. Residential buildings in District Kangra under Electrical Sub Division HPPWD Dehra (H.P.)(Section-Dehra & Jawalamukhi)(SH:- A/R & M/O various capacity split type air conditioner in various Non residential building for the year 2024-25.			Job No 13		ESTIMATED COST: Rs 1,68,300/-only. EARNEST MONEY: Rs.3400/-only TIME ALLOWED: One Year	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Annual repair and maintenance (Routine and preventive) of Split type air conditioning Units following capacity (Any make) Hot & Cold including maintenance of voltage stabilizer and all other accessories thermostat relay, fan motor, PCB, OLP, evaporator , drier, condensor, temperature sensor, capity, blower fan blades, control pen, capacitor and extra copper pipes with sleeves wires , insulation and battens etc. with drain pipe servicing, cleaning the filters, charging/topping up of refrigerant/R-22 Gas when required throughout the year. Replacement the compressor but excluding the replacement of the compressor of AC units which are beyond 5 years of purchase and three no's of service to be done time to time as per rules. The repair and maintenance has been done as per instructions and directions to the best satisfaction of Engineer-in-charge.					
i	1.5 TR Capacity split Type any make	36	4300	Rupees Four Thousand Three Hundred Only	Each	154800
ii	2 TR Capacity split Type any make	3	4500	Rupees Four Thousand Five Hundred Only	Each	13500
Total						168300

Schedule & quantity checked and proved for 168300/-

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur

## SCHEDULE OF QUANTITY

**Name of Work :-** Repair, Servicing & Comprehensive Maintenance of different types air-conditioning units installed in the Ward Block 3-A and Ward Block 2-B of 500 Bedded Hospital Dr. RPGMC Kangra at Tanda for the year 2024-25.

Job No 14

**ESTIMATED COST:** Rs.4,76,200/-only.  
**EARNEST MONEY:** Rs.9600/-only  
**TIME ALLOWED:** One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair, servicing & comprehensive Maintenance of Window Air-Conditioning Units having following capacity i.e. rackout of these units for servicing including washing of filters in routine intervals i.e. 04 Nos. services throughout a year with the time period of three months and reinstallation of these units after necessary PCB testing, fan motor, swing motor, drain pipe, refrigerant pressure testing, testing of temperature sensor and all other wiring including stabilizer wiring etc. and emergency call attending services during the any type of fault in air-conditioning units as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
	<b>Window type A.C. units 1.5/2 T.R capacity</b>	97	4200.00	Rupees Four Thousand Two Hundred Only	Each	407400
2	Repair, servicing & comprehensive Maintenance of Split Air-Conditioning Units having following capacity including maintenance of voltage stabilizer and all other accessories extra copper pipes with sleeves, drain pipe, wire, insulation and battens etc. with servicing, cleaning the filters, charging/topping up of refrigerant/R-22 Gas when required throughout the year including replacement of the compressor of A.C. units which are beyond repair. The repair and maintenance has been done as per instructions and directions to the best satisfaction of Engineer-in-charge.					
	<b>Split type A.C. units 1.5 T.R capacity</b>	16	4300.00	Rupees Four Thousand Three Hundred Only	Each	68800
	<b>Total</b>					<b>476200</b>

Schedule of Quantity checked and approved for 2476200/- only

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur



## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Replacement of EI and safety devices in Shani Temple at Mahakal Tehsil Baijath Distt. Kangra HP

**Job No 15**

**ESTIMATED COST:** Rs 4,53,257/-only.  
**EARNEST MONEY:** Rs.9100/-only  
**TIME ALLOWED:** One Month /

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable in surface / heavy class PVC conduit having wall thickness minimum 2 mm, 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					
	<b>Group C.</b>	62	1202	Rupees One Thousand Two Hundred Two Only	Points	110584
	<b>SC/KEU/Phinox make</b>					
2	Wiring for circuit submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required					
	<b>2 X 4 sq. mm + 1 X 4 sq. mm earth wire</b>	77	311 00	Rupees Three Hundred Eleven Only	Per Meter	23947
	<b>SC/KEU/Phinox make</b>					
3	Wiring for circuit submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required					
1	<b>4 X 4 sq. mm + 2 X 4 sq. mm earth wire</b>	60	524	Rupees Five Hundred Twenty Four Only	Per Meter	31440
	<b>SC/KEU/Phinox make</b>					

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 heavy class PVC conduit having wall thickness 2.0mm as required					
i	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	45	249.00	Rupees Two Hundred Forty Nine Only	Per Meter	11205
ii	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	110	432.00	Rupees Four Hundred Thirty Two Only	Per Meter	47520
	<b>SC/KEI/Phinolex make</b>					
5	1.17 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCconduit as required.					
i	S/D 3 X 1.5 sq. mm	29.9	100	Rupees One Hundred Only	Per Meter	2990
	<b>SC/KEI/Phinolex make</b>					
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.	25	469	Rupees Four Hundred Sixty Eight and Fifty Two Paisas Only	Each	11725
	<b>Make :- Schenider/L&amp;T/Legrand</b>					
7	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	18	621	Rupees Six Hundred Twenty One and Twenty Five Paisas Only	Each	11178
	<b>Make :- Schenider/L&amp;T/Legrand</b>					
8	Providing, Installation, testing and commissioning of BLDG ceiling fan (5 star rating), 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:					

1	BLDC Ceiling Fan 1200 mm sweep	13	4323	Rupees Four Thousand Three Hundred Twenty Three Only	Each	56199
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 5 Star,Crompton,Bajaj					
9	Providing and Fixing of IP20 LED Surface mounted CRCA Powder Coated Box Type Channel with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, P.F >0.95 with THD<10% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv The LED with Useful life of 50000 Hrs at L70 . 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.					
1	LED Batten 4 FT Make Havell ( Cat No.PHOTONULTRA E2.01213T8SSTL18WLE0865SPC)/Philips/Bajaj	36	867	Rupees Eight Hundred Sixty Seven Only	Each	31212
11	LED Retrofit Tube Havell (Cat No.STREAKEONEOT8UPT01X22WSSBSWH) /Bajaj/Philips					
10	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% ,CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 . The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80.The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc as required complete in all respects. .With 5 year warranty.					
1	LED Bulk Head Light 10W Makes :- Wipro/philips/bajaj	2	1420.00	Rupees One Thousand Four Hundred Twenty Only	Each	2840



11	Providing, Installation, testing and commissioning of wall fan of following size by means of suitable rag-bolt nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer-in-charge.	4	3041	Rupees Three Thousand Forty One Only	Each	12164
	Wall Fan 400 mm sweep ( Bajaj/Usha/Crompton)					
12	Supplying and fixing Wireless Ding Dong bell suitable for single phase, 230 volts, complete as required.	1	671	Rupees Six Hundred Seventy and Seventy Eight Paisas Only	Each	671
13	Supplying and fixing of Segregated tripple pole and neutral 12 ways surface/ recess mounting, 7 Segment 415volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, with provision to mount FP-MCB incomer, DP MCB/RCCB sub-incomer (each phase and SP MCBs as outgoing (but without MCB 's and incomer), complete with tinned copper din-bar, wire-set, neutral link, earth bar, detachable gland plate, cable interconnections, including earthing etc. as required:- Make:- L&T/Legrand/Schenider	2	17783	Rupees Seventeen Thousand Seven Hundred Eighty Two and Eighty Two Paisas Only	Each	35566
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, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator)					
i	Double door-12 way	5	2055.00	Rupees Two Thousand Fifty Five Only	Each	10275
	L&T/Legrand/Schneider make					
16	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
i	6 Amp Single pole. Cat-A.	15	239	Rupees Two Hundred Thirty Nine Only	Each	3585



ii	16 Amp Single pole. Cat-A.	18	239	Rupees Two Hundred Thirty Nine Only	Each	4302
	L&T/Legrand/Schneider make					
17	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.	3	426.00	Rupees Four Hundred Twenty Six Only	Each	1278
ii	63 Amps. Cat-A.	3	530.00	Rupees Five Hundred Thirty Only	Each	1590
	L&T/Legrand/Schneider make					
18	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	40 Amps. Cat-A.	2	2272.00	Rupees Two Thousand Two Hundred Seventy Two Only	Each	4544
ii	63 Amps. Cat-A.	2	3104.00	Rupees Three Thousand One Hundred Four Only	Each	6208
	L&T/Legrand/Schneider make					
19	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.					

1	100 A - 125A 18 KA	2	6868	Rupees Six Thousand Eight Hundred Sixty Eight and Eighteen Paises Only	Each	13736
	L&T/LeGrand/Schneider make					
20	Supply, Erection, Installation and commissioning of Uniearth maintenance free chemical earthing system consisting of environment friendly ground enhancing compound 'G.E.C' 50kg 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 meter length, 17.2 mm diameter, terminal joint 200X25X6mm Cu Strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30KA short time current test for 1 sec rms.	1	18498.00	Rupees Eighteen Thousand Four Hundred Ninety Eight Only	Per Set	18498
	Total					453257

*Schedule of quantities checked and approved for ₹ 453257/- only*

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 Air-conditioning units to Conference Room, Faculty Room, Director Room, Emergency Room, Store, Maternal & Newborn PICU of Critical Care Skill Lab/Simulation Lab therein)

**Job No** 16

**ESTIMATED COST:** Rs 4,85,265/-only.  
**EARNEST MONEY:** Rs.9800/-only  
**TIME ALLOWED:** Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying, installation, testing and commissioning of following capacity (Hot & Cold) 3 star Inverter Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with ammendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor having one year standard warranty on machine, five years warranty on PCB and 10 years warranty on compressor as required complete in all respects.					
	A.C. Unit 2 Ton capacity (Split Inverter)	7	56925.00	Rupees Fifty Six Thousand Nine Hundred Twenty Five Only	Each	398475
	Makes:- LG (Model No. : RS-H24VNXE.AN LG (R-32)/Voltas/Bluestar/O-General					
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130 volt to 270 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.					
	Automatic Voltage Stabilizer 5 KVA	7	5200.00	Rupees Five Thousand Two Hundred Only	Each	36400
	Makes:- V-Guard/Godrej/Whirlpool					

3	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	7	950.00	Rupees Nine Hundred Fifty Only	Each	6650
4	Providing & fixing of extra copper tubes for refrigerant and condensate of following sizes different capacity split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.					
	1/4" x 5/8" for 2 TR capacity AC Unit	30	1250.00	Rupees One Thousand Two Hundred Fifty Only	Per Meter	37500
5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	32	195.00	Rupees One Hundred Ninety Five Only	Per Meter	6240
	Total					485265

*Schedule of quantity checked and approved for Rs. 485265/-*

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 Air-conditioning units to ICU, In-Patient Ward, Skill Room and Pantry of Critical Care Skill Lab/Simulation Lab therein)				Job No 17		ESTIMATED COST: Rs 4,08,910/-only. EARNEST MONEY: Rs.8200/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT	
			FIGURES	WORDS			
1	Supplying, installation, testing and commissioning of following capacity (Hot & Cold) 3 star Inverter Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with amendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor having one year standard warranty on machine, five years warranty on PCB and 10 years warranty on compressor as required complete in all respects.						
	A.C. Unit 2 Ton capacity (Split Inverter)	6	56925.00	Rupees Fifty Six Thousand Nine Hundred Twenty Five Only	Each	341550	
	Makes:- LG (Model No. : RS-H24VNXE.AN) LG (R-32)/Voltas/Bluestar/O-General						
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130 volt to 270 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.						
	Automatic Voltage Stabilizer 5 kVA	6	5200.00	Rupees Five Thousand Two Hundred Only	Each	31200	
Makes:- V-Guard/Godrej/Whirlpool							

3	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	6	950.00	Rupees Nine Hundred Fifty Only	Each	5700
4	Providing & fixing of extra copper tubes for refrigerant and condensate of following sizes different capacity split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.					
	1/4" x 5/8" for 2 TR capacity AC Unit	20	1250.00	Rupees One Thousand Two Hundred Fifty Only	Per Meter	25000
5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	28	195.00	Rupees One Hundred Ninety Five Only	Per Meter	5460
	<b>Total</b>					<b>408910</b>

*Schedule of quantity checked and approved for ₹ 408910 only.*

Executive Engineer  
Electrical Division  
HPPWD Palampur

## SCHEDULE OF QUANTITY

Name of Work :- Replacement of Electrical Installation and switchgear system into new one of DIET Campus at Saru in Tehsil & Distt. Chamba H.P (Ground Floor).Part - I		job No 18		ESTIMATED COST: Rs.4,96,945-only. EARNEST MONEY: Rs.10,000/-only TIME ALLOWED: Six Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
1.1	Group C	46	1823	Rupees One Thousand Eight Hundred Twenty Three Only	P/Point	83858
	Make : KEI/Plaza/Anchor/SCI					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.Make :					
	KEI/Plaza/Anchor/SCI					
2.1	2 X 2.5 sq. mm for Circuit wiring	57	395	Rupees Three Hundred Ninety Five Only	P/Mtr	22515
2.2	2X 1.5 sq. mm for Computer Wiring	40	326	Rupees Three Hundred Twenty Six Only	P/Mtr	13040
2.3	2x4.0 Sq. mm.	108	471	Rupees Four Hundred Seventy One Only	P/Mtr	50868
2.4	2x6 Sq. mm.	38	657	Rupees Six Hundred Fifty Seven Only	P/Mtr	24966
3	Wiring for circuit / sub-main wiring alongwith earth wire with the following sizes of FRLSPVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					

3.1	4x4 Sq. mm.	55	771	Rupees Seven Hundred Seventy One Only	P/Mtr	42405
3.2	4x10 Sq. mm.	30	1373	Rupees One Thousand Three Hundred Seventy Three Only	P/Mtr	41190
	<b>Make : KEI/Plaza/BEC/SCI</b>					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
4.1	3x1.5 Sq. mm.	86	111	Rupees One Hundred Eleven Only	P/Mtr	9546
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
5	Supplying and fixing suitable size. GI box with modular plate base & cover plate for modular switches in recess etc as required.					
5.1	2 module - Modular GI box with Modular base & cover plate	10	276	Rupees Two Hundred Seventy Six Only	Each	2760
5.2	3 module - Modular GI box with Modular base & cover plate	5	582	Rupees Five Hundred Eighty Two Only	Each	2910
5.3	6 module - Modular GI box with Modular base & cover plate	8	750	Rupees Seven Hundred Fifty Only	Each	6000
	<b>Makes:- Anchor (Roma plus)/L&amp;T/Legrand</b>					
6	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).					
6.1	Modular G.I box for 12 module	19	1366	Rupees One Thousand Three Hundred Sixty Six Only	Each	25954
	<b>Makes:- Anchor (Roma plus) /L&amp;T/Legrand</b>					



7	Supplying and Fixing of following size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required					
7.1	PVC conduit 25mm.	107	113	Rupees One Hundred Thirteen Only	P/Mtr	12091
	Makes:- BEC Plast/Anchor/PolyFit.					
8	Supplying and drawing 1an Cable Cat 6 solid copper conductor protected with PVC sheath in the existing surface/recessed, steel/PVC conduit as required.					
8.1	1 Pair.	108	70	Rupees Seventy Only	Each	7560
	Makes:- Molex/Belden/Syslimax/Corning/DLINK					
9	Supplying and fixing RJ 45 jack with cat 6 in the existing switch box/cover plate including connections etc. as required.					
9.1	RJ 45 Comp. socket Cat-6.	10	49	Rupees Forty Nine Only	Each	490
	Makes:- DLINK/Tyco/Any Standard make.					
10	Supplying and fixing call/bell/buzzer suitable for single phase, 230 volts, complete as required.	2	117	Rupees One Hundred Seventeen Only	Each	234
	Makes:- Anchor/GoldMedal/SSK.					
11	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. (Make Bajaj/Philips/wipro)					
11.1	LED Tube Fixture 20Watt	18	975	Rupees Nine Hundred Seventy Five Only	Each	17550

12	Providing and fixing of IP65 system Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F. >0.95 with THD<10%. CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
12.1	<b>LED Bulk Head Light 10W</b>	3	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	4296
	<b>Makes : Philips/wipro/Bajaj</b>					
13	Providing and fixing of LED fixture 600mmx600mm36watt+/-1W surface mounted fixture with HET plastic diffuser with minimum system lumen efficacy of 100lm/W with CRCA housing having P.F.>0.95 with THD<10%, 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 2700 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. (Make philips/Bajaj/Wipro.					
13.1	<b>LED Panel 2'x2' 36 watt.</b>	3	4834	Rupees Four Thousand Eight Hundred Thirty Four Only	Each	14502
14	Providing and installation of following type of surface mounting round type LED down light luminaire CCT (K)-6500 with specifications i.e power factor> 0.9, Harmonic Distortion <20% and efficacy>100 lumens per watt, CRI rating > 80, suitable for input voltage AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. with 5 year warranty.					
	<b>Make: C&amp;S./Panasonic/Wipro.</b>					

14.1	Square/round LED Down light 12 Watt.	8	1050	Rupees One Thousand Fifty Only	Each	8400
15	Providing and fixing of 1200mmX300 mm LED fixture 36 W+/-1W surface mounted fixture with HET plastic diffuser with CRCA Powder coated housing having minimum system lumen efficacy 100lm/W with P.F>0.95 with THD<10%. The LED Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of 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.					
15.1	LED panel Light 4'x1 36 Watt Surface.	1	6219	Rupees Six Thousand Two Hundred Nineteen Only	Each	6219
	Makes : Philips/wipro/Bajaj					
16	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required. Make:- Usha/Bajaj/Crompton with not less than 3 rated star.					
16.1	Ceiling Fan 1200 mm sweep	2	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	6382
16.2	Ceiling Fan 1400 mm sweep	8	3252	Rupees Three Thousand Two Hundred Fifty Two Only	Each	26016
17	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:					

17.1	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	1	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	2269
	Make:- Usha/Bajaj/Crompton					
18	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with lined copper bus- bar, wire-set, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/Isolator).					
18.1	Double door-4 way	1	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	1572
18.2	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
18.3	Double door-12 way	2	2309	Rupees Two Thousand Three Hundred Nine Only	Each	4618
	Make:- L&T/Legrand/Schneider					
19	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load. of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
19.1	Single pole.	28	265	Rupees Two Hundred Sixty Five Only	Each	7420
	Make:- L&T/Legrand/Schneider					
20	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.					



20	40-Amps.	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
	Make:- L&T/Legrand/Schneider					
21	Supplying and fixing lockaway rating double pole 240 volts isolator in the existing MCCB DB complete with connections, testing and commissioning etc as required					
21.1	40-Amps.	2	480	Rupees Four Hundred Eighty Eight Only	Each	976
	Make:- L&T/Legrand/Schneider					
22	Supplying and fixing 175AN Copper Bus-Bar chamber suitable for 415 volts capacity with 4 No copper strip bus bar each of length and a section suitable for following current carrying capacities, enclosure made of sheet steel dust protected duly powder painted with detachable gland plate and other accessories including drilling holes on the board.					
22.1	100 Amps Copper Bus-Bar Chambers 15.	1	4001	Rupees Four Thousand One Only	Each	4001
	Make:- Bharat					
23	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing outside panel board including drilling holes in Cubicle panel, making connections, etc as required					
23.1	100Amp 10KA	1	6045	Rupees Six Thousand Eight Hundred Forty Eight Only	Each	6046
	Make:- L&T/Legrand/Schneider					
24	Providing and fixing Enclosure for MCCBs suitable for 3 phase 4 wire MCCBs etc. All as required complete in all respect. Make: Another, Legrand, L&T.					
24.1	Enclosure for MCCB	1	1949	Rupees One Thousand Nine Hundred Forty Nine Only	Each	1949
	Make:- L&T/Legrand/Schneider					





## SCHEDULE OF QUANTITY

**Name of Work :-** Replacement of Electrical Installation and switchgear system into new one of DIET Campus at Saru in Tehsil & Dist. Chamba H.P. (First Floor).Part-I

job No **19**

ESTIMATED COST: Rs.4,96,445/-only.  
EARNEST MONEY: Rs.10,000/-only  
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
1.1	Group C	48	1823	Rupees One Thousand Eight Hundred Twenty Three Only	P/Point	87504
	Make : KEI/Plaza/Anchor/SCI					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.Make :					
2.1	2 X 2.5 sq. mm for Circuit wiring	68	395	Rupees Three Hundred Ninety Five Only	P/Mtr	26860
2.2	2X 1.5 sq. mm for Computer Wiring	210	326	Rupees Three Hundred Twenty Six Only	P/Mtr	68460
2.3	2x4.0 Sq. mm.	92	471	Rupees Four Hundred Seventy One Only	P/Mtr	43332
2.4	2x6 Sq. mm.	27	657	Rupees Six Hundred Fifty Seven Only	P/Mtr	17739
3	Wiring for circuit / sub-main wiring alongwith earth wire with the following sizes of FRLSPVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					

3.1	4x4 Sq. mm.	45	771	Rupees Seven Hundred Seventy One Only	P/Mtr	34695
3.2	4x10 Sq. mm.	23	1373	Rupees One Thousand Three Hundred Seventy Three Only	P/Mtr	31579
	Make : KEI/Plaza/BEC/SCI					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
4.1	3x1.5 Sq. mm.	45	111	Rupees One Hundred Eleven Only	P/Mtr	4995
	Make : KEI/Plaza/Anchor/SCI					
5	Supplying and fixing suitable size, GI box with modular plate base & cover plate for modular switches in recess etc as required.					
5.1	2 module - Modular GI box with Modular base & cover plate	16	276	Rupees Two Hundred Seventy Six Only	Each	4416
5.2	3 module - Modular GI box with Modular base & cover plate	4	582	Rupees Five Hundred Eighty Two Only	Each	2328
5.3	6 module - Modular GI box with Modular base & cover plate	4	750	Rupees Seven Hundred Fifty Only	Each	3000
	Makes:- Anchor (Roma plus)/L&T/Schenider.					
6	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).					
6.1	Modular G.I box for 12 module	15	1366	Rupees One Thousand Three Hundred Sixty Six Only	Each	20490
	Makes:- Anchor (Roma plus)/Legrand/Schenider					



7	Supplying and Fixing of following size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
7.1	PVC conduit 25mm.	201	113	Rupees One Hundred Thirteen Only	P/Mtr	22713
	<b>Makes:- BEC Plas/Anchor/PolyFit</b>					
8	Supplying and drawing Lan Cable Cat 6 solid copper conductor protected with PVC sheath in the existing surface/recessed, steel/PVC conduit as required.					
8.1	1 Pair.	201	70	Rupees Seventy Only	Each	14070
	<b>Makes:- Molex/Belden/Syslimax/Corning/DLINK</b>					
9	Supplying and fixing RJ 45 jack with cat 6 in the existing switch box/cover plate including connections etc. as required.					
9.1	RJ 45 Comp. socket Cat-6.	16	49	Rupees Forty Nine Only	Each	784
	<b>Makes:- DLINK/Tyco/Any Standard make.</b>					
10	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. (Make Bajaj/Panasonic/Mipro.					
10.1	LED Tube Fixture 20Watt	20	975	Rupees Nine Hundred Seventy Five Only	Each	19500
11	Providing and erection of LED 45 Watt street light luminaries, powder coated pressure die-cast aluminium SMDLED street light with heat resistant toughened glass including glass including connections, testing and commissioning etc. as required. with 5 year warranty. (Make Bajaj/Panasonic/Mipro.					
11.1	Street Light LED-45 watt.	4	2424	Rupees Two Thousand Four Hundred Twenty Four Only	Each	9696

12	Wall light fixture, brushed nicke l/finish body, opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base with 5 year warranty. (Make Bajaj/Panasonic/Wipro.					
12.1	Fancy wall bracket.	1	1645	Rupees One Thousand Six Hundred Forty Five Only	Each	1645
13	Providing and fixing of IP65 system Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% ,CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
13.1	LED Bulk Head Light 10W	2	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	2864
	Makes : Philips/wipro/Bajaj					
14	Providing and installation of following type of surface mounting round type LED down light luminaire CCT (K)-6500 with specifications i.e power factor>0.9, Harmonic Distortion <20% and efficacy>100 lumens per watt, CRI rating > 80, suitable for input voltage AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.with 5 year warranty.					
14.1	Make:C&S./Panasonic/Wipro.					
	Square/round LED Down light 12 Watt.	9	1050	Rupees One Thousand Fifty Only	Each	9450

15	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required <b>Make:- Usha/Bajaj/Crompton with not less than 3 rated star.</b>					
15.1	<b>Ceiling Fan 1200 mm sweep</b>	4	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	12764
15.2	<b>Ceiling Fan 1400 mm sweep</b>	6	3252	Rupees Three Thousand Two Hundred Fifty Two Only	Each	19512
16	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:					
16.1	<b>Exhaust Fan, Light duty, (Domestic) 300 mm sweep</b>	1	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	2269
	<b>Make:- Usha/Bajaj/Crompton</b>					
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, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator). <b>Make:- L&amp;T/Legrand/Schneider</b>					
17.1	<b>Double door-4 way</b>	2	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	3144
17.2	<b>Double door-16 way</b>	2	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	5908
	<b>Make:- L&amp;T/Legrand/Schneider</b>					

18	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- <b>Make:- L&amp;T/Legrand/Schneider</b>					
18.1	Single pole.	30	265	Rupees Two Hundred Sixty Five Only	Each	7950
	<b>Make:- L&amp;T/Legrand/Schneider</b>					
19	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.					
19.1	40- Amps.	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
	<b>Make:- L&amp;T/Legrand/Schneider</b>					
20	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
20.1	40- Amps.	1	488	Rupees Four Hundred Eighty Eight Only	Each	488
	<b>Make:- L&amp;T/Legrand/Schneider</b>					
21	Supplying and fixing TP&N Copper Bus-Bar chamber suitable for 415 volts capacity with 4 No. copper strip bus-bar each of length and x-section suitable for following current carrying capacities, enclosure made of sheet steel, dust protected, duly powder painted with detachable gland plate and other accessories including drilling holes on the board.					
21.1	100-Amps Copper Bus-Bar Chambers 15.	1	4001	Rupees Four Thousand One Only	Each	4001
	<b>Make:-Bharat.</b>					



22	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in Cubicle panel, making connections, etc. as required.						
22.1	100Amp 30KA	1	6848	Rupees Six Thousand Eight Hundred Forty Eight Only	Each	6848	
	Make:- L&T/Legrand/Schneider						
23	Providing and fixing Enclosure for MCCBs suitable for 3Pole & 4Pole MCCBs etc. AR as required complete in all respect. Make: Anchor, Legrand, L&T.						
23.1	Enclosure for MCCB	1	1949	Rupees One Thousand Nine Hundred Forty Nine Only	Each	1949	
	Make:- L&T/Legrand/Schneider						
24	Supplying and erection of wall mounted metal boards for switch mounting of suitable size, with permissible variation in size of plus minus 5mm, welded frame work made of M.S angle iron 35mm, duly welded complete with 1.6mm thick sheet fixed with hinges as open able front, complete with locking arrangement including painting and bonding to the existing earth as required:-	0.75	3702	Rupees Three Thousand Seven Hundred Two Only	P/sq. mtrs.	2777	
	<b>Total</b>					<b>496445</b>	
The Dismantal material deducted from the contractor that is Rs. 2500/- in the Final will							

*Defect Schedule of quantity checked and approved to 4496445/-*

Executive Engineer  
Electrical Division  
HPPWD Palampur