

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2024-25/- 61315-23

Dated: 12/11/24

To

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

Subject: Publishing of Tender Notice.

Jai Hind

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

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

DA/NIT,SQs

Executive Engineer
Electrical Division
HP PWD Palampur

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

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

Executive Engineer
Electrical Division
HP PWD Palampur

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT
"Notice Inviting Tenders"**

Sealed percentage rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP PWD, (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act, 1968 so as to reach in his office on or before **30-11-2024** 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 **29-11-2024** up to 4.00 P.M. and the application for issue of tender form shall be received on **28-11-2024** 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	R/M of E.I. in Govt. N/R building under ESD Dharamshala in Distt. Kangra (H.P)(SH- Dismantling and Re-installation of Split type AC unit in Chief office, Rest House and Circuit House therein)	128660/-	2600/-	One Month	8	350/-
2	Construction of Ayurvedic Health Centre at Bhalei in Tehsil Salooni Distt. Chamba (H.P)(SH- Providing E.I. therein)	363763/-	7300/-	One Year	8	350/-
3	C/O Govt. Sr. Sec. School Building at Awan in Tehsil Bhattiyat and District Chamba (H.P) Under RMSA (SH:-Providing E.I. therein).	220650/-	4500/-	One Year	8	350/-
4	R/M of E.I. in Various Govt. Non-Residential Building under ESD Chamba in Tehsil Bharmour Distt. Chamba (H.P)(Under B&R Division Bharmour).	105415/-	2200/-	Three Months	8	350/-
5	R/M of E.I. in Various Govt. Non-Residential Building under ESD Chamba in Tehsil Dalhousie Distt. Chamba (H.P)(SH- Repair of E.I. in PWD Rest House under B&R Division Dalhousie and Chowari in Distt. Chamba (H.P).	196843/-	4000/-	Six Months	8	350/-

6	C/O Govt. High School at Sarad Dogri in Tehsil Rakkar Distt. Kangra (H.P)(3 Rooms in Ground Floor and 3 Rooms in First floor along with Verandah)(SH:- Providing E.I. therein).	432624/-	8700/-	One Year	8	350/-
7	C/O 3 Nos. classrooms with veranda at Govt. High School Upper Bhalwal, Distt. Kangra (H.P)(SH:- Providing E.I. therein).	158177/-	3200/-	One Year	8	350/-
8	Construction of Government Ayurvedic Dispensary Building at Batot in Tehsil Bharmour Distt Chamba (H.P)(SH:- Providing E.I. therein).	94203/-	1900/-	Six Months	8	350/-
9	Providing Point wiring, Power wiring and Computer wiring in HP PWD B&R Division Office Building Shahpur Distt. Kangra (H.P).	304997/-	6100/-	Three Months	8	350/-
10	C/O War Museum at Dharamshala Distt. Kangra (H.P)(SH:- Damaged report of AC Units)	205037/-	4200/-	Six Months	8	350/-
11	C/O War Museum at Dharamshala Distt. Kangra (H.P)(SH:-Damaged report of Surveillance System)	86159/-	1800/-	Six Months	8	350/-
12	C/O War Museum at Dharamshala Distt. Kangra (H.P)(SH:-Damaged report of Fire Fighting System) (Specialized Job)	57942/-	1200/-	Six Months	8	350/-
13	C/O Additional accommodation in Govt. Sr. Sec. School Daulatpur in Distt. Kangra (H.P)(SH:- Providing E.I. to 2 Nos. classrooms therein).	145751/-	3000/-	One Year	8	350/-
14	R/M of E.I. of Vidhan Sabha complex at Tapovan Dharamshala Distt. Kangra (H.P)(SH:- Repair of E.I. in Main Building and Minister block therein).	498129/-	10000/-	Six Months	8	350/-
15	C/O Type -V Residence of SE (Mechanical) 2 nd Circle Dharamshala (SH:- Providing wiring Switches, Fan, LED's therein)	459054/-	9200/-	Six Months	8	350/-
16	Additional Alteration in DEIC (District Early Intervention Center) OPD 11 at 500 Bedded Hospital at Dr. RPGMC Tanda at Kangra (SH:- Providing light points, LED fixture, Power Wiring and AC points therein).	180175/-	3700/-	Two 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 Conference Room, Faculty Room, Director Room, Emergency Room, Store, Maternal & Newborn PICU of Critical Care Skill Lab/Simulation Lab therein).	496307/-	10000/-	Three Months	8	350/-
18	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)	495952/-	10000/-	Three Months	8	350/-

19	Repair and Maintenance of E.I. to 500 Bedded Hospital Dr RPGMC Kangra at Tanda (SH:- Rewinding of ceiling fans, replacement of fan condensers, fan regulators and extra down fan road etc in various Wards of ground floor to fourth floor and OPD area therein)	236185/-	4800/-	Six Months	8	350/-
20	Replacement of old and damaged ceiling fans of various wards at 3rd floor (Male and Female) surgical wards, Children ICU, Anesthesia ICU of 500 Bedded Hospital Dr. RPGMC Tanda	293156/-	5900/-	Three Months	8	350/-
21	Repair & Maintenance of HVAC System, 500 bedded hospital Dr. RPGMC Kangra at Tanda (SH:- Replacement of burnt out/damaged chiller pump cable, 5 H.P. motor etc. and overhauling of AHU for CSSD area thereof)	297987/-	6000/-	Three Months	8	350/-
22	R/M of HVAC System in Super Specialty Block Dr. RPGMC Kangra at Tanda (SH:- Replacement of damaged water storage tank, butterfly valves, iron net etc. for chiller plant and provide new water storage tank for condenser motor and chiller motor therein)	249680/-	5000/-	Three Months	8	350/-
23	Providing Installation Testing & Commissioning Main Control Panel in the office of CMO Chamba in Tehsil & Distt. Chamba (H.P)	222017/-	4500/-	Three Months	8	350/-
24	Replacement of Electrical accessories and old damaged fittings into new one in HPPWD 1st Class Rest-House at Chamba in Tehsil & Distt. Chamba H P Ground Floor & First Floor.	387234/-	7800/-	Three Months	8	350/-
25	C/O Rajeev Gandhi Govt. Engineering College Kangra at Nagrota Bagwan Distt. Kangra (H.P)(SH:- Providing E.I. to Architecture block therein)(SH:-Supplying one no. Computer System in Division office therein)	48490/-	1000/-	Three Months	8	350/-
26	Repair and Maintenance of Mini-Secretariat Building at Dehra in Tehsil Dehra Distt. Kangra (H.P)(SH:-Providing LAN,UPS,AC's in CM Office herein).	384171/-	7700/-	One Month	8	350/-
27	Replacement of burnt and damaged AMF Controller for 250 KVA D.G. Set Installed in the Complex of H.P. Board of School Education Dharamshala in District Kangra (H P)	64731/-	1300/-	Three Months	8	350/-
28	C/O Centre of Excellence in Mental Health for Dr. RPGMC Kangra at Tanda (SH:-Providing and fixing steel work, Aluminum work, Plastering and Painting work in Lift room area of staff lift and Patient lift therein).	280072/-	5700/-	One Month	8	350/-
29	C/O Centre of Excellence in Mental Health for Dr. RPGMC Kangra at Tanda (SH:-Providing and fixing steel and grill work in Fire Fighting	220912/-	4500/-	One Month	8	350/-

	Pump Room at Basement floor therein)					
30	Repair and Maintenance of E.I. to Vivekanand Hostel, Dr. RPGMC Kangra at Tanda.(SH- Replacement of old and damaged switch-socket, LEDs, fans etc.(room no. 201 to 216) and campus lights thereof)	223492/-	4500/-	Three Months	8	350/-
31	Annual repair and comprehensive Maintenance contract of 1 No 13 Passenger lift (Johnson make) in Administration Block of Rajeev Gandhi Govt. Engineering college Nagrota Bagwan in Distt. Kangra (HP) (M/C No. L-08066) for three years.	483594/-	9700/-	Three Years	8	350/-
32	Providing wiring for AE residence converted to Superintending Engineer Office (B&R) (First Floor) at Dehra, Tehsil Dehra Distt. Kangra (H.P)	197927/-	4000/-	Two Year	8	350/-
33	Replacement of old accessory to modular accessory. LED fittings, exhaust fan, ceiling fan etc. at Court Complex building and Civil Judge – cum- JMFC residence, Indora, Distt. Kangra (HP)	167520/-	3400/-	One Year	8	350/-
34	Providing replacement of E.I. to Civil Judge-cum-JMFC at Indora. LED fittings etc. to Civil Judge-cum-JMFC residence (No. II) and providing of DG supply to Additional District and Sessions Court at Nurpur, Distt. Kangra (HP)	99737/-	2000/-	Two Years	8	350/-
35	Providing and fixing Split type 1.5 Ton Air Conditioner (Hot & Cold type) in the office of Assistant Director Fisheries, Division Pong Dam in Tehsil Fatehpur Distt. Kangra HP.	248597/-	5000/-	Three Months	8	350/-
36	Providing & Fixing power wiring, Geyser, Exhaust fan etc. in OT Room (3rd Floor) in Additional Block in Civil Hospital at Palampur Tehsil Palampur Distt. Kangra (H.P)	270950/-	5500/-	Two Months	8	350/-

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SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I. in Govt. N/R building under ESD Dharamshala in Distt. Kangra (H.P.)(SH):- Dismantling and Re-installation of Split type AC unit in Chief office, Rest House and Circuit House therein).

Job No. /

ESTIMATED COST: Rs. 1,28,660/-only.
EARNEST MONEY: Rs.2600/-only
TIME ALLOWED: One Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and Fixing of MS outdoor heavy duty stand powder coated 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 the direction of Engineer in charge.	2	1100.00	Rupees One Thousand One Hundred Only	Each	2200
2	Providing and Fixing of extra copper tubes for refrigerant and condensate (1/4" x 1/2") for 1.5 T.R. 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.	48	1200.00	Rupees One Thousand Two Hundred Only	Per Meter	57600
3	Supply and replenishment/charging/topping-up of refrigerant R-32 Gas as required complete in all respects as per the direction and to the best satisfaction of Engineer-in-charge.	11	2500.00	Rupees Two Thousand Five Hundred Only	Each	27500
4	Supplying and Fixing of PVC Drain pipe of size 1" Dia. (25 mm) complete with elbows, tees, socket etc. of superior quality as per satisfaction of Engineer-in-charge.	38	220.00	Rupees Two Hundred Twenty Only	Per Meter	8360
5	Dismantling, Re-installation, testing and commissioning of 1.5/2 Ton capacity split type air-conditioning outdoor units as required complete in all respects and as per directions of Engineer-in-charge.	11	3000.00	Rupees Three Thousand Only	Each	33000
	Total					128660

Schedule of quantity checked and approved for Rs. 128660 only

Executive Engineer
Electrical Division
HPPWD Palampur

**NAME OF WORK :- Construction of Ayurvedic Health Centre at Bhatei In
Tehsil Salooni Dist. Chamba (H.P) (S.H:-Providing E.I. therein).**

SCHEDULE OF QUANTITY

SR. NO.	DESCRIPTION	QTY.	Job No 2		ESTIMATED COST: Rs 3,63,763/-only. EARNEST MONEY: Rs.7300/-only TIME ALLOWED: One Year
			FIGURES	RATES WORDS	
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. Make:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)	28	1323	Rupees One Thousand Three Hundred Twenty Three Only	Per point 37044
	Group A.	28	1323	Rupees One Thousand Three Hundred Twenty Three Only	Per point 37044
	Group C.	24	1893	Rupees One Thousand Eight Hundred Ninety Three Only	Per point 45432
2	Wiring for twin control light 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 2-way, 5/6 amps. 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.				
	Make:- Legrand (Myrius)Schneider(Livia)/Anchor Roma (Plus)				

Group A.		2	1533	Rupees One Thousand Five Hundred Thirty Three Only	Per point	3066
3	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make: Finolex/ KEI/ Anchor.					
i	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	58	406	Rupees Four Hundred Six Only	Per metre	23548
ii	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	68	482	Rupees Four Hundred Eighty Two Only	Per metre	32776
iii	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	6	808	Rupees Eight Hundred Eight Only	Per metre	4848
4	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRRFRLS/PVC insulated single core copper conductor cable for earthing as required.Make:-KEI/Anchor/Finolex	44	786	Rupees Seven Hundred Eighty Six Only	Per metre	34584
5	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make: Finolex/ KEI/ Anchor.					
i	3x2.5 Sq. mm.	18	173	Rupees One Hundred Seventy Three Only	Per metre	3114
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	11	601	Rupees Six Hundred One Only	Each	6611

	Make:- Legrand (Myrius)/Schneider(Livia) /Anchor Roma (Plus)						
7	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	9	769	Rupees Seven Hundred Sixty Nine Only	Each	6921	
	Make:- Legrand (Myrius)/Schneider(Livia) /Anchor Roma (Plus)						
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 nos. 3 pin 5/6 amps modular socket outlets and 3 nos 5/6 amps modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).	2	1385	Rupees One Thousand Three Hundred Eighty Five Only	Each	2770	
	Make:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)						
9	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).						
	Make:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)	2	949	Rupees Nine Hundred Forty Nine Only	Each	1898	
10	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.						
	Makes:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)						
	Telephone Socket outlet, modular.						
11	Supplying and drawing co-axial TV cable, RG-6 grade, 0.7mm (75 Ohms) copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed, steel / PVC conduit as required.	25	37	Rupees Thirty Seven Only	Per mtr	925	
	Make:-Anchor/KEI/Finox						
	1 Pair						

12	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required.					
	2 modules (78mmx78mmx50mm)	2	293	Rupees Two Hundred Ninety Three Only	Each	586
13	Supplying and fixing RJ 45 Jack with cat 6 in the existing switch box / cover plate including connections etc. as required.					
	RJ 45 Jack with cat 6 (1 mouldule) Makes:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)	2	490	Rupees Four Hundred Ninety Only	Each	980
14	Supplying and drawing LAN cable CAT 6, solid copper conductor protected with PVC sheath in the existing surface / recessed, steel / PVC conduit as required. Make:- KEI/Anchor/Finox	30	50	Rupees Fifty Only	Per mtr	1500
15	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Make:- BEC/ Diplast/ Anchor.					
1	25 mm. dia	45	120	Rupees One Hundred Twenty Only	Per mtr	5400
16	Supplying and fixing call bell / buzzer, suitable for D.C./A.C. single phase, 230 volts complete as required.- Make: Anchor (Panta)/ SSK(Touch)	2	199	Rupees One Hundred Ninety Nine Only	Each	398
17	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.- Make:- Usha/Baja/Crompton					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	4	2309	Rupees Two Thousand Three Hundred Nine Only	Each	9236

18	Providing installation, Testing and commissioning of BLDC Ceiling Fan with step electronic fan regulator paino type, including wiring the down rod of standred length (up to 30 Cm) with 16/0.20 mm twin twisted fixible, cotton braided cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	1200 mm sweep Make:-Usha(Technoair BLDC without Remote Star/ Bajaj/Crompton (Warranty Five year)	8	4397	Rupees Four Thousand Three Hundred Ninety Seven Only	Each	35176
19	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty.					
	Make:-Panasonic/Bajaj/Wipro.					
i	LED Tube Fixture 20Watt (L x W:1135 x22mmHeight:37mm)					
	Cat No: BCLAB 20W LED P	4	981	Rupees Nine Hundred Eighty One Only	Each	3924
20	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 42 Watt (4200 lumen) 6000K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty.					
	Make:-Panasonic/ BAJAJ/Wipro					

	Saver (Surface)-36W/1ft.x4ft.	2	5549	Rupees Five Thousand Five Hundred Forty Nine Only	Each	11098
	Cat No:LSVR003S042XC					
21	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 12/18 Watt (1200/1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.Including 5 year warrenty as required.					
	Make:-Panasonic/Bajaj/ Wipro/					
	LED 12 Watt Round	12	787	Rupees Seven Hundred Eighty Seven Only	Each	9444
22	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 12/18 Watt (1200/1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.Including 5 year warrenty as required.					
	Make:-Panasonic/Bajaj/ Wipro/					
I	LED 12 Watt Square (L x W: 175 mm x 175MM. Height: 35 mm)	4	781	Rupees Seven Hundred Eighty One Only	Each	3124
II	LED 18 Watt Square (L x W: 175 mm x 175MM. Height: 35 mm)	4	1157	Rupees One Thousand One Hundred Fifty Seven Only	Each	4628

23	Providing and fixing Bulk Head Fitting with high efficacy up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. including 5 year warranty as required. as .Make:-Jaquar/Panasonic/ Wipro, Philips					
	LED Bulk head 10Watt Cat No: BIBWP 10W LED	8	1327	Rupees One Thousand Three Hundred Twenty Seven Only	Each	10616
24	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 10Watt (Mirror Light)(1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. Make- Panasonic, Bajaj/Wipro					
	Mirror light LED 10Watt	1	537	Rupees Five Hundred Thirty Seven Only	Each	537
I	Cat No: LL20-111-111-XXX-65NE3					
25	Supplying and fixing bakelite batten/angle holder including connections etc. as required:- Make:- GoldMedal/AnchorSSK	3	87	Rupees Eighty Seven Only	Each	261
26	Providing and erection of LED 45 watt Street light luminaries powder coated pressure die-cast aluminium Make:-Jaquar/Panasonic/ WiproMDLED Street light with heat resistant toughened glass including connections, testing and commissioning etc, as required complete in all respects. With 5 year warranty Make:-Panasonic/ Wipro/Bajaj/					

1	LED Street Light, 45 Watt	2	6155	Rupees Six Thousand One Hundred Fifty Five Only	Each	12310
	Cat No: PSTM27458					
27	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects. Make:- Philips/Bajaj/Osram					
	9 Watt LED, B-22	3	199	Rupees One Hundred Ninety Nine Only	Each	597
	Makes:- Tisva (Cat.No.AL916611R 9W/ B22) /Panasonic / Osram.					
28	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required:- Make:- Legrand (Myrlus)Schneider(Livia)/Anchor Roma (Plus)	2	794	Rupees Seven Hundred Ninety Four Only	Each	1588
29	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:- Make:-Usha /Recold/Bajaj					
1	15 Liter capacity water heater (Cat-A)	1	9149	Rupees Nine Thousand One Hundred Forty Nine Only	Each	9149

25 Liter capacity water heater (Cat-A)	1	10345	Rupees Ten Thousand Three Hundred Forty Five Only	Each	10345
Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels, interconnections, phosphatized and powder painted, including earthing etc. as required:- Make: L&T, Legrand, Schneider.					
Double door-4 way	1	1511	Rupees One Thousand Five Hundred Eleven Only	Each	1511
Double door-12 way	2	2343	Rupees Two Thousand Three Hundred Forty Three Only	Each	4686
Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make: L&T, Legrand, Schneider.	17	272	Rupees Two Hundred Seventy Two Only	Each	4624
Supplying and fixing 63 Amps. rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- L&T/ Legrand/ Schneider)	2	3625	Rupees Three Thousand Six Hundred Twenty Five Only	Each	7250
Supplying and fixing 63 Amps. rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- L&T/ Legrand/ Schneider)	2	494	Rupees Four Hundred Ninety Four Only	Each	988

34	Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1	8830	Rupees Eight Thousand Eight Hundred Thirty Only	Set	8830
35	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required	30	48	Rupees Forty Eight Only	Per metre	1440
Total						363763

Schedule of quantity checked and approved for Rs 363763 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Govt. SR. SEC. School Building at Awan in Tehsil Bhattiyat and District Chamba (H.P.) Under RMSA (Sh:- Providing E.I. therein)

Job No. 03

ESTIMATED COST: Rs.2,20,650/-only.
EARNEST MONEY: Rs.4500/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Anchor (Pantaj/ SSK(Touch))					
	Group C.	39	1746	Rupees One Thousand Seven Hundred Forty Six Only	Per point	68094
2	Wiring for twin control light point with 1.5 Sq.mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface / recessed PVC conduit, with 2-way, 5/6 amps piano type switch and earthing the light point with 1.5 Sq.mm. HFRFRLS/PVC insulated single core copper conductor cable as required. Make: Anchor (Pantaj/ SSK(Touch))					
	Group C.	1	1766	Rupees One Thousand Seven Hundred Sixty Six Only	Per point	1766
3	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HFRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make: Havells/Plaza/Anchor					

i	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	34	401	Rupees Four Hundred One Only	Per metre	13634
ii	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	36	477	Rupees Four Hundred Seventy Seven Only	Per metre	17172
iii	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	7	664	Rupees Six Hundred Sixty Four Only	Per metre	4648
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make:Havells/Plaza/Anchor					
i	3x2.5 Sq. mm.	8	172	Rupees One Hundred Seventy Two Only	Per metre	1376
5	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor (Panta)/ SSK(Touch)	3	300	Rupees Three Hundred Only	Each	900
6	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor (Panta)/ SSK(Touch)	3	494	Rupees Four Hundred Ninety Four Only	Each	1482
7	Providing installation, Testing and commissioning of Ceiling Fan BLDC with step electronic fan regulator paino type, including wiring the down rod of standred length (up to 30 Cm) with 16/0.20 mm twin twisted flexible, cotton braided cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i	1200 mm sweep Make:- Usha (Technix BLDC without Remote / (Bajaj /Crompton with 5 year warranty.	12	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	52632

8	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty.					
	Make:-Bajaj/Panasonic/Wipro.					
1	LED Tube Fixture 20Watt	16	978	Rupees Nine Hundred Seventy Eight Only	Each	15648
	Cat No: BCLAB 20W LED P					
9	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 6/12/18 Watt (600/1200/1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty.					
	Make:-Bajaj/Panasonic/ Wipro					
1	LED 12 Watt Round	6	784	Rupees Seven Hundred Eighty Four Only	Each	4704
	Cat No: PPAM17127R1					
10	Providing and fixing LED Street light luminaire with the use of the latest technology 45 Watt (4500 lumens) 6500K made of CRCA housing and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $< 20\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty Make- Bajaj, Panasonic, Wipro					

1	LED Street Light, 45 Watt	2	5503	Rupees Five Thousand Five Hundred Three Only	Each	11006
	Cat No: PSTM27458					
11	Providing and fixing LED Bulk head of following rating with pressure die casting aluminium housing and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $<20\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required, with 5 year warranty. Make- Bajaj, Panasonic, Wipro					
1	LED Bulk head 10Watt Cat No: BIBWP 10W LED	4	1324	Rupees One Thousand Three Hundred Twenty Four Only	Each	5296
	Cat No: PSTM27458					
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required. - (Make:- L&T/ Legrand/ Schneider)					
i	Double door-6 way	1	1754	Rupees One Thousand Seven Hundred Fifty Four Only	Each	1754
ii	Double door-6 way	1	1914	Rupees One Thousand Nine Hundred Fourteen Only	Each	1914
13	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of Single pole in the existing MCB DB complete with connections etc. as required. - Cat-A. (Make:- L&T/ Legrand/ Schneider)	8	268	Rupees Two Hundred Sixty Eight Only	Each	2144

14	Supplying and fixing 40 Amps. rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 30 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- L&T/ Legrand/ Schneider)	2	2719	Rupees Two Thousand Seven Hundred Nineteen Only	Each	5438
15	Supplying and fixing 40 Amps. rating, double pole, 240 volts, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required : Cat-A. Make: L&T, Legrand, Schneider.	2	491	Rupees Four Hundred Ninety One Only	Each	982
16	Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt) as required.	1	8830	Rupees Eight Thousand Eight Hundred Thirty Only	Set	8830
17	Supplying and laying 5 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	30	41	Rupees Forty One Only	Per metre	1230
	Total					220650

Scrutinized & approved for 220650/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I in Various Govt. Non-Residential Building under ESD Chamba in Tehsil Bharmour Dist. Chamba H.P (Under B&R Division Bharmour).

Job No **44**

ESTIMATED COST: Rs. 1,05,415/-only.
EARNEST MONEY: Rs. 2200/-only
TIME ALLOWED: Three Months

	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. Make : KEI/Polycab/Anchor/Grandlay					
i	2 X 2.5 sq. mm	46	406	Rupees Four Hundred Six Only	P/Mtr	18676
ii	2x4.0 Sq. mm.	36	482	Rupees Four Hundred Eighty Two Only	P/Mtr	17352
iii	2x10 Sq. mm.	28	808	Rupees Eight Hundred Eight Only	P/Mtr	22624
iv	2x16 Sq. mm.	15	1123	Rupees One Thousand One Hundred Twenty Three Only	P/Mtr	16845
	Make : KEI/Polycab/BEC/Grandlay					
2	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 and refilling the trench etc.as required, but excluding sand cushioning and protective covering:-					
	Armoured cable 6 sq. mm (twin core) Make :- KEI/Polycab/Anchor	40	318	Rupees Three Hundred Eighteen Only	P/Mtr	12720

3	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.					
1	LED Bulk Head Light 10W	6	1327	Rupees One Thousand Three Hundred Twenty Seven Only	Each	7962
	Makes :Bajaj/ Panasonic/wipro					
4	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections testing and commissioning etc. as required: of Approved Make					
1	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	4	2309	Rupees Two Thousand Three Hundred Nine Only	Each	9236
	Total					105415

Do not schedule of quantity checked and of
upto 105415/-

Executive Engineer
Electrical Division
HPPWD Patampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I in Various Govt. Non Residential Building under ESD Chamba in Tehsil Dalhousie Distt. Chamba H.P (Sub-Head:- Repair of PWD Rest House under B&R Division Dalhousie and Chowari in Distt. Chamba H.P.		Job No 05		ESTIMATED COST: Rs. 1,96,843/-only. EARNEST MONEY: Rs. 4000/-only TIME ALLOWED: Six Months	
DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
		FIGURES	WORDS		
1	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make:- KEI/Anchor/Polycab				
	PVC insulated HRFR L.S Copper conductor 1.5 Sq. mm.				
(i)	3x2.5 Sq. mm.	114	151	Rupees One Hundred Fifty One Only P/Rmt.	17214
(ii)	3x4.0 Sq. mm.	80	220	Rupees Two Hundred Twenty Only P/Rmt.	17600
(iii)	3x10.0 Sq. mm.	82	538	Rupees Five Hundred Thirty Eight Only P/Rmt.	44116
2	Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required. Make:-Anchor(Penta)SSK(Touch				
i	S.P. 5/ 6 Amps one way switch, piano type.	62	42	Rupees Forty Two Only Each	2604
ii	5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.	36	57	Rupees Fifty Seven Only Each	2052
iii	S.P. 15/16 Amps one way switch, porcelain base/ piano type.	35	116	Rupees One Hundred Sixteen Only Each	4060

iv	6 pin 15/16 Amps socket outlet, porcelain base/ piano type.	32	123	Rupees One Hundred Twenty Three Only	Each	3936
3	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 With 5 year Warranty. Make - Panasonic /Mipro/Philips	14	1420	Rupees One Thousand Four Hundred Twenty Only	Each	19880
4	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.-Make:- L&T/ Legrand/ Schneider					
	Double door-12 way	8	2055	Rupees Two Thousand Fifty Five Only	Each	16440
5	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; Make:- L&T/ Legrand/ Schneider					
i	Single pole. Cat-A.	35	239	Rupees Two Hundred Thirty Nine Only	Each	8365

6	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Legrand/Schneider					
i	40 Amps. Cat-A.	13	2272	Rupees Two Thousand Two Hundred Seventy Two Only	Each	29536
ii	63 Amps. Cat-A.	10	3104	Rupees Three Thousand One Hundred Four Only	Each	31040
	Total					196843
The Dismantal metrial deducted from the contractor that is Rs. 1000/- in the Final will						

Boat Schedule of quantity checked and approved for 196843/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Govt. High School at Sarad Dogri in Tehsil Rakkar Distt. Kangra (HP)(3 rooms in Ground Floor and 3 Rooms in First floor alongwith Verandah) (SH: Providing E.I there in).

Job No. 06

ESTIMATED COST: Rs.4,32,624/-only.
EARNEST MONEY: Rs.8700/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm 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.					
1	Group C. Makes:- Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus),L&T(Entice).	84	1650	Rupees One Thousand Six Hundred Fifty Only	P/Pt	138600
2	Wiring for Twin Control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with 2 Way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1	Group C. Makes:- Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus),L&T(Entice).	2	1692	Rupees One Thousand Six Hundred Ninety Two Only	P/Pt	3384
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
1	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: KEI/Anchor/Finolex/Grandlay.	40	262	Rupees Two Hundred Eighty Two Only	P/Mtr	11280

4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: KEI/Anchor/Finolex/GrandLay.	90	332	Rupees Three Hundred Thirty Two Only	P/Mtr	29880
5	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.					
i	Armoured cable 10Sqmm on surface	20	255	Rupees Two Hundred Fifty Five Only	P/mtr	5100
	Make:- Havelis, Polycab, Finolex, GrandLay.					
6	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
i	3X1.5 Sq.mm	15	100	Rupees One Hundred Only	P/Mtr	1500
ii	3X2.5Sq.mm	40	151	Rupees One Hundred Fifty One Only	P/Mtr	6040
	Makes: KEI/Anchor/Finolex/GrandLay					
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.					
i	Makes: Legrand(Myrius), Schlender(Livia), Anchor Roma(Plus)	6	469	Rupees Four Hundred Sixty Nine Only	Each	2814
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					

1	Single pole. Cat-A.	12	239	Rupees Two Hundred Thirty Nine Only	Each	2868
	Makes: L&T, Legrand, Schenider					
9	Supplying and fixing following rating, double pole, 240 volts, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	40 Amps. Cat-A.	2	426	Rupees Four Hundred Twenty Six Only	Each	852
	Makes: L&T, Legrand, Schenider					
10	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	40 Amps. Cat-A.	2	2272	Rupees Two Thousand Two Hundred Seventy Two Only	Each	4544
	Makes: L&T, Legrand, Schenider					
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required (But without MCB/RCCB/Isolator).					
i	Double door-12 way	2	2055	Rupees Two Thousand Fifty Five Only	Each	4110
	Makes: L&T, Legrand, Schenider					
12	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but with charcoal/ coke and salt) as required.	1	5819	Rupees Five Thousand Eight Hundred Nineteen Only	P/Set	5819

13	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	25	33	Rupees Thirty Three Only	P/Mtr	825
14	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 Years Warranty					
i	LED fixture 1x18 Watt Surface Mounted 4 Feet Ultra Bright LED Tubelight					
	Makes: Havells, Bajaj & wipro.	38	867	Rupees Eight Hundred Sixty Seven Only	Each	32946
15	Providing and Fixing of IP20 LED fixture of 18 watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing, pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. With 5 Years Warranty					
i	LED Round Downlighter (Surface) 18Watts	10	1821	Rupees One Thousand Eight Hundred Twenty One Only	Each	18210
ii	Makes: Wipro, Bajaj & Panasonic.					

16	Supplying and fixing of LED Street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP65 protection and impact resistance of IK07 with 10 kV Built-in surge Protection Device. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%, LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V (With 5 Years Warranty)					
i	LED Street Light-30 Watts	2	4112	Rupees Four Thousand One Hundred Twelve Only	Each	8224
ii	Makes: Havells, Wipro & Panasonic.					
17	Providing, installation, testing and commissioning of BLDC 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.					
i	Ceiling Fan 1200 mm sweep, Category-A					
ii	Make: Usha(BLDC),Bajaj,Crompton.	36	4323	Rupees Four Thousand Three Hundred Twenty Three Only	Each	155628
	Total					432624

Schedule of quantity checked and approved for Rs. 432624/- only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK:- C/O 3 Nos. classrooms with verandah at Govt. High School
Upper Bhalwal, Distt Kangra(HP)/SH: Providing E.I there in).

Job No. 097

ESTIMATED COST: Rs.1,58,177/-only.
EARNEST MONEY: Rs.3200/-only
TIME ALLOWED: One Year

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq mm. HFRF/PVC insulated single core copper conductor cable as required. Make:- KEI/SCI/Plaza					
i	Group C Makes:- Legrand(Myrius), Schiender(Livia), Anchor Roma(Plus).	34	1824	Rupees One Thousand Eight Hundred Twenty Four Only	P/Pt	62016
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	20	361	Rupees Three Hundred Sixty One Only	P/Mtr	7220
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: Plaza/KEI/SCI	35	395	Rupees Three Hundred Ninety Five Only	P/Mtr	13825
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 10 sq. mm + 1 X 6 sq. mm earth wire	8	793	Rupees Seven Hundred Ninety Three Only	P/Mtr	6344
	Makes: Plaza/KEI/SCI					
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
i	3X1.5 Sq.mm	10	111	Rupees One Hundred Eleven Only	P/Mtr	1110

ii	3X2.5Sq.mm	15	171	Rupees One Hundred Seventy One Only	P/Mtr	2565
	Makes: Plaza/KE/SCI					
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/8 amps modular socket outlet and 5/8 amps modular switch, connection etc as required.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	3	502	Rupees Five Hundred Two Only	Each	1506
7	Supplying and erection of 6 amps, to 32 amps, rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.-					
i	Single pole. Cat-A.	5	226	Rupees Two Hundred Twenty Six Only	Each	1130
	Makes: Legrand,Schiender,L&T					
8	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	40 Amps. Cat-A.	1	409	Rupees Four Hundred Nine Only	Each	409
	Makes:- Legrand,Schiender,L&T					
9	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	40Amps. Cat-A.	1	2238	Rupees Two Thousand Two Hundred Thirty Eight Only	Each	2238
	Makes: Legrand,Schiender,L&T					
10	Supplying and fixing of following way, single pole and neutral sheet steel MCB, distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.(But without MCB/RCCB/isolator)					
	Makes: Legrand,Schiender,L&T					
i	Double door-12 way	1	1943	Rupees One Thousand Nine Hundred Forty Three Only	Each	1943

11	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc (but with charcoal/ coke and salt) as required.	1	4624	Rupees Four Thousand Six Hundred Twenty Four Only	P/Set	4624
12	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc as required	25	33	Rupees Thirty Three Only	P/Mtr	825
13	Supplying and fixing of LED Tube Light 22watts ,5700K ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required. (With Five years warranty)					
i	LED Tube Light 4Feet Long					
i	Makes: Jaquar, Havells, wipro	18	721	Rupees Seven Hundred Twenty One Only	Each	12978
14	Providing and installation of following type of surface mounting square/round type LED panel Light with aluminium die cast housing in white finish with anti glare polycarbonate diffuser and seprated energy efficient constant current, nonintegral, electronic driver, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing etc as required (With Five years warranty)					
i	LED Downlighter 18Watts					
ii	Makes: Bajaj/Cat No- BPSLR Surface 18W LED WH RD SDI/Panasonic/Havells ,wipro	4	1254	Rupees One Thousand Two Hundred Fifty Four Only	Each	5016
15	Providing, installation, testing and commissioning of ceiling fan without regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted (flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc as required. (With Five years warranty)					
i	Ceiling Fan 1200 mm sweep, Category-A					
ii	Make:- Usha(Technix Plus),Bajaj,Havells with 3 rated star	12	2869	Rupees Two Thousand Eight Hundred Sixty Nine Only	Each	34426
						158177

Schedule of Quantity checked and approved for Rs. 158177 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Construction of Government Ayurvedic Dispensary Building at Batot in Tehsil Bharmour Dist. Chamba H.P (Sub-Head:- Providing E.I therein.)		Job No 08		ESTIMATED COST: Rs. 94,203/-only. EARNEST MONEY: Rs.1900/-only TIME ALLOWED: Six Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Make: Anchor (Panta)/ SSK(Touch)	16	1588	Rupees One Thousand Five Hundred Eighty Eight Only	P/Point	25408
Group C.						
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRRLS/PVC insulated single core copper conductor cable of same size for earthing as required.Make:- KEI/Anchor/Polycab/Finolex/Grandlay					
2.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	20	332	Rupees Three Hundred Thirty Two Only	P/mtr.	6640
2.2	2 X 4.0 sq. mm + 1 X 4.0 sq. mm earth wire	30	395	Rupees Three Hundred Ninety Five Only	P/mtr	11850
2.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	2	564	Rupees Five Hundred Sixty Four Only	P/mtr.	1128

3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCConduit as required. Make:- KEI/Anchor/Polycab/Finolex/Grandlay					
3.1	S/D 3 X 2.5 sq. mm	10	151	Rupees One Hundred Fifty One Only	P/mt	1510
4	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. Make:- KEI/Anchor/Polycab/Finolex/Grandlay					
4.1	4 X 4 sq. mm	12	703	Rupees Seven Hundred Three Only	P/mt	8436
5	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps plano type switch, connection, painting etc. as required. Make: Anchor (Panta)/ SSK(Touch)	2	469	Rupees Four Hundred Sixty Nine Only	Each	938
6	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps plano type switch, connection, painting etc. as required. Make: Anchor (Panta)/ SSK(Touch)	4	621	Rupees Six Hundred Twenty One Only	Each	2484
6.1	Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required. Make :- Anchor/GoldMedal/SSK	1	206	Rupees Two Hundred Six Only	Each	206

7	Supplying & fixing following type of Surface mounted luminaires Aluminium Batten Tubes, while power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating> 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required, with 5- years warranty. Make- Jaquar, Panasonic, Wipro					
7.1	LED Tube Fixture 22Watt					
7.2	Cat No: LGLZU1X022XC	4	639	Rupees Six Hundred Thirty Nine Only	Each	2556
8	Providing and Fixing of IP20 LED fixture of 12 watt +/- 1 W LED Surface Mounted Downlighter Square Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing, pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects, with 5- years warranty					
	Make:-Panasonic/ Wipro/Philips					
8.1	LED 12 Watt Square	2	1412	Rupees One Thousand Four Hundred Twelve Only	Each	2824

9	Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy ≥ 110 lm/W with CRCA Housing and PMMA Diffuser with P.F.>0.95, THD<10%, CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70, with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					
9.1	LED Panel Light 36 watt 1'x4' ,cat no. CRCO18S036HP57 (Make: Wipro/Panasonic/Philips).	2	3934	Rupees Three Thousand Nine Hundred Thirty Four Only	Each	7868
10	Supplying and fixing batten/ angle holder including connection etc. as required. Make :- Anchor/SSK/GoldMedal	2	88	Rupees Eighty Eight Only	Each	176
11	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects. Make- Tisya, Panasonic, Wipro					
11.1	9 Watt LED, B-22	2	99	Rupees Ninety Nine Only	Each	198
12	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- years warranty. Make- Panasonic, Wipro, Philips.					

12.1	LED Bulk Head Light 10W Makes:- Wipro	4	1420	Rupees One Thousand Four Hundred Twenty Only	Each	5680
13	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: Make :- Crompton/Bajaj/Havells					
13.1	Exhaust Fan, Light duty, (Domestic)	1	2567	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	2567
14	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) Make :- L&T/Legrand/Schenider					
14.1	12 way, Double door	1	2055	Rupees Two Thousand Fifty Five Only	Each	2055
15	Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/ Legrand/ Schneider					
15.1	Single pole	6	239	Rupees Two Hundred Thirty Nine Only	Each	1434

16	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/ Legrand/ Schneider					
16.1	40 Amps	1	426	Rupees Four Hundred Twenty Six Only	Each	426
17	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/ Legrand/ Schneider					
17.1	40 Amps	1	2272	Rupees Two Thousand Two Hundred Seventy Two Only	Each	2272
18	Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt) as required.	1	6487	Rupees Six Thousand Four Hundred Eighty Seven Only	P/Set	6487
19	Supplying and laying 8 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	20	53	Rupees Fifty Three Only	P/Set	1060
	Total					94203

Do not schedule of quantity by checked and approved by 4/4/2031

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Providing point wiring, power wiring and computer wiring in HP PWD B&R Division Office Building Shahpur, Dist. Kangra (H.P.)

Job No **229**

ESTIMATED COST: Rs.3,04,997/-only.
EARNEST MONEY: Rs.6100/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC Insulated copper conductor single core cable in surface /recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC Insulated copper conductor single core cable etc. as required.					
	Group C	22 ✓	1345	Rupees One Thousand Three Hundred Forty Five Only	Per Point	29590 ✓
	Makes:- (KEI/Anchor/Plaza , L&T(Entice)/Legrand(Myrtus)/Schneider(Livia)					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC Insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
2.1	2x1.5 Sq. mm.	50 ✓	217	Rupees Two Hundred Seventeen Only	Per Meter	10850 ✓
2.2	2x2.5 Sq. mm.	180 ✓	277	Rupees Two Hundred Seventy Seven Only	Per Meter	49860 ✓
2.3	2x4 Sq. mm.	180 ✓	353	Rupees Three Hundred Fifty Three Only	Per Meter	67070 ✓
2.4	2x10sq.mm	43.367 ✓	678	Rupees Six Hundred Seventy Eight Only	Meter	29403 ✓
	Make:- KEI/Anchor/Plaza					

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	75	133	Rupees One Hundred Thirty Three Only	Each	9975
3.2	15/20 Amps. Modular switch	25	228	Rupees Two Hundred Twenty Eight Only	Each	5700
3.3	5/6 amp modular socket outlet	65	189	Rupees One Hundred Eighty Nine Only	Each	12285
3.4	15/16 amp modular socket outlet	25	343	Rupees Three Hundred Forty Three Only	Each	8576
3.5	Bell push	10	234	Rupees Two Hundred Thirty Four Only	Each	2340
	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.					
4.1	2 Module	5	385	Rupees Three Hundred Eighty Five Only	Each	1925
4.2	3 Module	22	406	Rupees Four Hundred Six Only	Each	8932
4.3	4 Module	6	447	Rupees Four Hundred Forty Seven Only	Each	2682
4.4	6 Module	3	545	Rupees Five Hundred Forty Five Only	Each	1635
4.5	8 Module	18	667	Rupees Six Hundred Sixty Seven Only	Each	12006

4.6	12 Module	4	813	Rupees Eight Hundred Thirteen Only	Each	3252
	Makes:- L&T/Legrand/Schneider.					
5	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
	Stepped type Modular Fan regulator (2 module)	6	740	Rupees Seven Hundred Forty Only	Each	4440
	Makes:- L&T/Legrand/Schneider.					
6	Supplying and erection of MCB of following rating, 10 KA breaking capacity, 240 volts / 415 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					
6.1	Single pole. 6 Amp - 32 Amp. Cat-A.	27	268	Rupees Two Hundred Sixty Eight Only	Each	7236
6.2	MCB DP 63 Amp.	3	1426	Rupees One Thousand Four Hundred Twenty Six Only	Each	4278
	Makes:- L&T/Legrand/Schneider.					
7	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:-					
7.1	Double door-4 way	1	1548	Rupees One Thousand Five Hundred Forty Eight Only	Each	1548
7.2	Double door-6 way	1	1878	Rupees One Thousand Eight Hundred Seventy Eight Only	Each	1878

7.3	Double door-8 way	1	1914	Rupees One Thousand Nine Hundred Fourteen Only	Each	1914 ✓
7.4	Double door-16 way	1	2971	Rupees Two Thousand Nine Hundred Seventy One Only	Each	2971 ✓
	Makes:- L&T/Legrand/Schneider.					
8	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	10	228	Rupees Two Hundred Twenty Eight Only	Each	2280 ✓
	Makes:- Anchor/Goldmedal /SSK					
9	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 complete with all accessories, including connections etc. as required.					
	18 Watt LED Tube fixture with pro LED lamp	6	1512	Rupees One Thousand Five Hundred Twelve Only	Each	9072 ✓
	Makes: Philips/ Wipro/ Bajaj					

10	Providing and fixing LED Mirror Light of IP20 Led fixture 10 W+/- 1W with Surface Mounted 2 feet with Polycarbonate diffuser with extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F.>0.95 with THD 20%, CRI 80. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 6500 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
	LED Mirror Light 10 Watt	2	566	Rupees Five Hundred Sixty Six Only	Each	1132
	Makes: Philips/Wipro/ Bajaj					
11	Providing, installation, testing and commissioning of wall fan, including wiring with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.					
	Wall Mounting Fan 400mm	4	3042	Rupees Three Thousand Forty Two Only	Each	12168
	Makes:- Usha/Anchor/Bajaj					
	Total					304997

Schedule of quantity checked and approved for 30/9/2019

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O War Museum at Dharamshala Distt Kangra
(H.P) (SH: Damaged report of AC Units).

Job No | 0

ESTIMATED COST: Rs. 2,05,037/-only.
EARNEST MONEY: Rs. 4200/-only
TIME ALLOWED: Six Months

	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Providing and installation of outdoor Unit with Power Supply 1 Phase 50 Hz, 230 V, ODU Dimension (H X W X D) (595 X 845 X 300) , Breaker Size 20A , with piping size 12.7-6.4 MM, Operating Ambient Temperature Range Cooling 20-54°CDB, Heating Range -10 -24° CDB with swing compressor, making connections , testing etc.complete in all Respect with best satisfaction of engineer -in- Charge. Makes:- Daikin/ O-General/Mitsubishih					
1.01	1.8 TR Split AC Hot and Cold ODU	3	54049	Rupees Fifty Four Thousand Forty Nine Only	Each	162147
2.00	Providing and fixing of copper tube for refringrent size (15.8 mm -9.52mm) for 1.6/ 2.0 T.R. Split AC unit as required complete in all respects and as per direction and satisfaction of Engineer in charge.	6	1350	Rupees One Thousand Three Hundred Fifty Only	Per metre	8100
3.00	Providing and fixing of Nitrile Tubular Insulation ac indoor to outdoor for COPPER PIPING as required complete in all respects and as per direction and satisfaction of Engineer in charge.	6	480	Rupees Four Hundred Eighty Only	Per metre	2880
4.00	Providing and laying of communication wire 2.5 Sq.mm. (4 core) as required complete in all respects and as per direction and satisfaction of Engineer in charge.	10	225	Rupees Two Hundred Twenty Five Only	Per metre	2250
5.00	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required complete in all respects and as per direction and satisfaction of Engineer in charge.	15	180	Rupees One Hundred Eighty Only	Per metre	2700

6.00	Providing and fixing of Drain Pump as required complete in all respects and as per direction and satisfaction of Engineer in charge.	2	7800	Rupees Seven Thousand Eight Hundred Only	Each	15600
7.00	Providing Refrigerant R-32 for Out door Unit as required complete in all respects and as per direction and satisfaction of Engineer in charge.	8	1420	Rupees One Thousand Four Hundred Twenty Only	Per Kg	11360
	Total					205037

Dr. A. S. Subash of Quality checked and approved for 22/03/24

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O War Museum at Dharamshala Distt Kangra

(H.P) (SH): Damaged report of Surveillance System).

Job No 11

ESTIMATED COST: Rs. 86,159/-only.
EARNEST MONEY: Rs.1800/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Supplying, installation, testing and commissioning of 3MP IP Dome/Bullet Network Camera with Face Detection Specifications as follow: Image Sensor: 1/2.7" 3 Megapixel Progressive Scan CMOS; Image Pixels: Max: 1920 x 1080 Pixels (3.0 MP); Min. Illumination: 0.003 Lux@ (F1.2, AGC ON), 0Lux with IR; Day/Night Auto (ICR) / Color / Black & White; WDR 120db; IR Led: 4 Pcs High Power LED Array; Digital Zoom 16X; IR Distance : 30~40 Meters; Lens Mount: 3.6MM fixed Lens; Network Interface: 10/100 MBPS RJ45 Connector; Intelligent AI Feature: Face Detection; Line Crossing; Active Deterrence; Network Protocol: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, SSL/TLS, PPPoE, SFTP, ARP, SNMP, Open Network Video Interface (PROFILE S, PROFILE T), ISAPI; Electronic Shutter Speed: Manual/Auto (1/25 ~ 1/100000 S); Should support ONVIF; Video Encoding: H.265AI/H.265+/H.265/H.264+/H.264; Video Bitrate: 128kbps ~ 8Mbps; Video Streams: Main Stream : 25 FPS, 1920 x 1080; Operation Temperature: -10°C ~ +50°C; Operation Humidity 0% ~ 90%; Power Supply: DC12V, PoE (IEEE802.3af) (Class 0) 25%; IP Rating: IP67; SD Card Slot should be available(256GB); Certifications: CE,FCC, RoHS, BIS & IEC 60950-1/UL etc. as required complete in all respects. (Make: Axis/Avigilon/Securus/Panasonic)	2	13605	Rupees Thirteen Thousand Six Hundred Five Only	Each	27210

2.00	Supplying, installation, testing and commissioning of 4 Channel NVR with Face Detection Feature; Embedded Linux Operating System; Preview, Record, Playback, Backup, Network; 1 x HDMI; Supports upto 5 Megapixel Network Camera Input; Supports 4 Channels Network Cameras; Audio Compression - G.711a; Audio I/O - 1CH RCA In / 1CH RCA Out; Support H.265A1, H.265+, H.265, H.264 Video Compression; Always/Schedule/Alarm recording/Motion Detection Recording/Face Detection & Vehicle Detection; Supports 1 SATA HDD upto 8 TB on; 1 x RJ45 10M/100M/1000M; 1 x USB 2.0 ; 1 x USB 3.0 for Faster Backup ; Supports Line Crossing, Face Detection, Vehicle Detection & Active Deterrence; Supports Blacklist/Whitelist to prevent unauthorized Network Access; Certifications - CE,FCC, ROHS, BIS etc. as required complete in all respects. (Make: Axis/ Avigilon/ Securus /Panasonic)	1	12093	Rupees Twelve Thousand Niney Three Only	Each	12093
3.00	Supplying, Installation, Testing & Commissioning of 4 Port PoE Network Switch with Network Ports: 4 Ports POE 10/100 Mbps + 2 Ports Uplink 10/100 Mbps; POE Standard: IEEE802.3 at/at Standard; POE Power Supply Method: End Span Method; Power Wattage: 60 Watts; Network Standard: IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az, IEEE802.3z; VLAN Mode: Supported; POE Network Transmission Distance: Max 250 Meters should be supported for POE; Uplink Network Transmission Distance: Max 100 Meters; Power Supply Type: Should supply Power from Adaptor for easier maintenance; Power Supply: 48V DC 2.5 Amps; Reset Button: Should support external reset button to perform hardware reset on device etc. as required complete in all respects. (Makes: Netgear/Securus/Cisco)	1	11085	Rupees Eleven Thousand Eighty Five Only	Each	11085
4.00	Supplying, Installation, Testing & Commissioning of 1TB Surveillance Hard Disk etc. as required complete in all respects. (Makes: WD/Seagate)	1	8969.00	Rupees Eight Thousand Nine Hundred Sixty Nine Only	Each	8969

5.00	Supplying and drawing of UTP 4 Pair CAT-6 cable in existing PVC conduit etc. as required complete in all respects. (Make: Molex/Dlink/Beidon)	200	60	Rupees Sixty Only	Per metre	12000
6.00	Supplying, Installation, Testing & Commissioning of HDMI Cable of Length 3 Metre etc. as required complete in all respects. (Make: Kramer/Manhattan/Creston)	1	2922	Rupees Two Thousand Nine Hundred Twenty Two Only	Each	2922
7.00	Supplying and fixing of 25mm dia medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. (Make: AKG/Kalinga/Diplas/BEC)	120	99	Rupees Ninety Nine Only	Per metre	11880
	Total					86159

*Draft submitted of 24/05/2015
and approved by 14/06/15/1*

Executive Engineer
Electrical Division
HPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O War Museum at Dharamshala Distt Kangra
(H.P) (SH: Damaged report of Fire Fighting System).

job No. 12
ESTIMATED COST: Rs. 57,942/-only.
EARNEST MONEY: Rs.1200/-only
TIME ALLOWED: Six Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Providing & fixing Gun metal fire hydrant single headed landing valve with 80 mm N.B. flanged inlet, s.s spindle controlled 63 mm dia female instantaneous outlet type. SS coupling, blank cap, chain, twist release type lug & all accessories conforming to IS standards as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax/OMEX/ Padmini	1	17979.00	Rupees Seventeen Thousand Nine Hundred Seventy Nine Only	Each	17979
2.00	Providing & Fixing of 63 mm dia 15 m long non-percolating flexible hose (RRL- type A) as per IS : 636. Type A with Gun Metal male & female instantaneous type coupling (IS 903) (For Internal and External hydrant system) as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax/OMEX/ Padmini	2	11045.00	Rupees Eleven Thousand Forty Five Only	Each	22090
3.00	Providing and Fixing Weather proof standard fire hose cabinet made of 18 SWG powder coated fibre. sheet having single or double opening glazed (3.0 mm thick glass) shutter including necessary locking arrangement by allan key, stove enamelled Fire red finish (as per IS : 5, shade no. 536) with " Fire Hose" marked on front, suitable for housing 2 nos. 15m long 63 mm dia Hose pipe, 1 No. branch pipe & nozzle spanner as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax/OMEX/ Padmini	1	7305.00	Rupees Seven Thousand Three Hundred Five Only	Each	7305

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Additional accommodation in Govt. Sr. Sec. School Daulatpur in Distt. Kangra (H.P.)(SH: Providing E.I. to 2 Nos. classrooms therein)

Job No **13**

ESTIMATED COST: Rs.1,45,751/-only.
EARNEST MONEY: Rs.3000/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	27	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	49221
	Makes:- (KEI/Anchor/Plaza, L&T(Entice)/Legrand(Myrius)/Schneider(Lvia)/SCI					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x1.5 Sq. mm.	35	335	Rupees Three Hundred Thirty Five Only	Per Meter	11725
2.2	2x10 Sq. mm.	1	793	Rupees Seven Hundred Ninety Three Only	Per Meter	793
	Makes:- KEI / Anchor / Plaza/SCI					
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					

	3x1.5 Sq. mm.	10	111	Rupees One Hundred Eleven Only	Per Meter	1110
	Makes:- KEI/Anchor/Plaza/SCI					
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	8	582	Rupees Five Hundred Eighty Two Only	Each	4656
	Makes:- L&T/Legrand / Schneider					
5	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.	6	265	Rupees Two Hundred Sixty Five Only	Each	1590
	Single Pole. Cat-A.					
	Makes:- L&T/Legrand / Schneider					
6	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	40 Amp. Double pole. Cat-A.	1	488	Rupees Four Hundred Eighty Eight Only	Each	488
	Makes:- L&T/Legrand / Schneider					
7	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.					
	40 Amps. Cat-A.	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
	Makes:- Legrand/L&T/Schneider.					
8	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					

Double door-12 way		1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
Makes:- L&T/ Legrand / Scheneider						
9	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal coke and salt as required.	1	10244	Rupees Ten Thousand Two Hundred Forty Four Only	Per Set	10244
10	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	15	30	Rupees Thirty Only	Per Meter	450
11	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens, CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc. with 5 year warranty.					
	LED Bulkhead, 10Watt					
	Makes:- Panasonic (Cat No. PBHM01107) /Bajaj/Wipro	2	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	2864
12	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- with Not Less than 3 rated star					
	Ceiling Fan 1200 mm sweep, Cat-A	8	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	25528
	Makes:- Usha/ Bajaj / Crompton					
13	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.					

14	Stepped Type Modular Fan regulator (2 Module) Make:- L&T/Legrand/Schneider.	4	737	Rupees Seven Hundred Thirty Seven Only	Each	2948
	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.					
	LED 18 Watt Tube fixture					
	Makes:- Philips/Wipro/Bajaj	16	1508	Rupees One Thousand Five Hundred Eight Only	Each	24128
15	Supplying and fixing 45W LED street light made up of die cast aluminium housing with LED street optic LENS, offering uniform light distribution and individual LEDs with IP66 protection including connections, testing etc. as required complete in all respects with 5 years warranty.					
	45W LED Street Light	1	4982	Rupees Four Thousand Nine Hundred Eighty Two Only	Each	4982
	Makes:- Havells/Wipro/Bajaj					
	Total					145751

Schedule of quantity checked and approved for 2145751-201008

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I of VIDHAN SABHA Complex at Tapovan Dharamshala Distt Kangra (H.P) (SH : Repair of E.I in Main Building and Minister block therein).

Job No 19

ESTIMATED COST: Rs.4,98,129/-only.
EARNEST MONEY: Rs.10,000/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	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	18	477	Rupees Four Hundred Seventy Seven Only	Per metre	8586
1.02	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	21	664	Rupees Six Hundred Sixty Four Only	Per metre	13944
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	25	112	Rupees One Hundred Twelve Only	Per metre	2800
2.02	3 X 4 sq. mm	27	254	Rupees Two Hundred Fifty Four Only	Per metre	6858
3.00	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. Make:- L&T/Anchor/Legrand					
3.01	S.P. 5/ 6 Amps one way switch, piano type. Make:- L&T/Anchor/Legrand	10	45	Rupees Forty Five Only	Each	450
3.02	Bell push, piano type. Make:- L&T/Anchor/Legrand	2	64	Rupees Sixty Four Only	Each	128
3.03	S.P. 15/16 Amps one way switch, porcelain base/ piano type. Make:- L&T/Anchor/Legrand	10	138	Rupees One Hundred Thirty Eight Only	Each	1380

3.04	5 pin 5/ 6 Amps socket outlet, porcelain base/ plano type.Make:- L&T/Anchor/Legrand	10	73	Rupees Seventy Three Only	Each	730
3.05	6 pin 15/16 Amps socket outlet, porcelain base/ plano type.Make:- L&T/Anchor/Legrand	10	149	Rupees One Hundred Forty Nine Only	Each	1490
4.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
4.03	Bell push, Modular.	5	209	Rupees Two Hundred Nine Only	Each	1045
5.00	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 (Liviat)/ Legrand (Myrius).	5	591	Rupees Five Hundred Ninety One Only	Each	2955
6.00	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 (Liviat)/ Legrand (Myrius)/L&T(Entice).	5	760	Rupees Seven Hundred Sixty Only	Each	3800
7.00	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required Make:- GoldMedal/Anchor/SSK	5	119	Rupees One Hundred Nineteen Only	Each	595
8.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C, single phase, 230 volts complete as required:- Make:- GoldMedal/Anchor/SSK	3	189	Rupees One Hundred Eighty Nine Only	Each	567
9.00	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.					
9.01	Single pole 6 Amp (Make:- Schneider/ Legrand/L&T)	5	268	Rupees Two Hundred Sixty Eight Only	Each	1340
9.02	Single pole 16/32 Amp (Make:- Schneider/ Legrand/L&T)	10	268	Rupees Two Hundred Sixty Eight Only	Each	2680

10.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
10.01	40 Amps. (Make:- Schneider/ Legrand/L&T)	2	491	Rupees Four Hundred Ninety One Only	Each	982		
10.02	63 Amps. (Make:- Schneider/ Legrand/L&T)	2	620	Rupees Six Hundred Twenty Only	Each	1240		
11.00	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-							
11.01	10 Liter capacity water heater (Cat-A) Makes: Usha/Bajaj/Racold	2	8366	Rupees Eight Thousand Three Hundred Sixty Six Only	Each	16732		
11.02	15 Liter capacity water heater (Cat-A) Makes: Usha/Bajaj/Racold	1	9101	Rupees Nine Thousand One Hundred One Only	Each	9101		
11.03	25 Liter capacity water heater (Cat-A) Makes: Usha/Bajaj/Racold	1	10298	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	10298		
12.00	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.							
12.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Makes: Bajaj/Usha/Crompton	2	2289	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	4578		

13.00	Providing and fixing LED tube fixture (including the cost of Batten/channel and LED Lamp) suitable for surface application with the use of the latest technology 18 watt (1800 Lumen) 6000K and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $\leq 10\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty Makes: Havells/ Bajaj/ Philips /Wipro.	10	949	Rupees Nine Hundred Forty Nine Only	Each	9490
14.00	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 ≥ 0.9 , Harmonic Distortion $\leq 10\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty Makes : Panasonic/ Philips/ Bajaj/Wipro.	25	1564	Rupees One Thousand Five Hundred Sixty Four Only	Each	39100
15.00	Providing and fixing LED Mirror Light 10 W+/- 1W with Surface Mounted 2 Feet with Polycarbonate diffuser complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. with 5 year warranty.Makes:- Panasonic/Wipro/Bajaj.	3	566	Rupees Five Hundred Sixty Six Only	Each	1698
16.00	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:-					
16.01	Double door 4 way (Make:- Schneider/ Legrand/L&T)	1	1589	Rupees One Thousand Five Hundred Eighty Nine Only	Each	1589
17.00	Supplying and fixing LED lamps of following watt with polycarbonate diffuser on the existing light point as required complete in all respect.					
17.01	LED Lamp 0.5 watt (Red and Green) Makes: Havells/Wipro/Philips	10	62	Rupees Sixty Two Only	Each	620
17.02	LED Lamp 12 watt Makes: Havells/Wipro/Philips	20	203	Rupees Two Hundred Three Only	Each	4060

18.00	Supplying, erection, testing & commissioning of batteries having following capacity for UPS System etc. as required complete in all respects and to the best satisfaction of Engineer-in-Charge.					
18.01	Tubular Battery 12 Volt 160 Ah Makes: Exide/Quanta/Microtek	5	17000	Rupees Seventeen Thousand Only	Each	85000
18.02	Lead Acid Battery 12 Volt 26 Ah Makes: Exide/Quanta/Microtek	16	4349	Rupees Four Thousand Three Hundred Forty Nine Only	Each	69584
19.00	Supplying and drawing copper conductor, multicore cable in the existing surface/ recessed steel/ PVC conduit as required complete in all respects.					
19.01	Three core 1.5 sqmm	50	104	Rupees One Hundred Four Only	Each	5200
19.02	Two core 1.0 sqmm	50	66	Rupees Sixty Six Only	Each	3300
20.00	Supplying and fixing following type Plug Top on the existing Light Point, Heat Pillar, Room Heater including connections etc. as required complete in all respects.					
20.01	6 amps 3 Pin Plug Top	10	76	Rupees Seventy Six Only	Each	760
20.02	16 amps 3 Pin Plug Top	10	99	Rupees Ninety Nine Only	Each	990
21.00	Supplying and fixing wireless door bell as required complete in all respects:-	3	1166	Rupees One Thousand One Hundred Sixty Six Only	Each	3498
22.00	Providing skilled Electrician-II and unskilled Team-male for electrical maintenance during H.P. Vidhan Sabha session during January 2023.	1	20052	Rupees Twenty Thousand Fifty Two Only	Per Job	20052
23.00	Providing and Fixing of Following type Rods for Heat Pillar and Room Heater as required complete in all respects.					
23.01	Heat Pillar Rod 750 watt	10	440	Rupees Four Hundred Forty Only	Each	4400
24.00	Providing and Fixing of Following material for repair of Water Heater of Different Capacity as required complete in all respects.					

24.01	Geyser Element 2000 Watt Triangular Type	6	880	Rupees Eight Hundred Eighty Only	Each	5280
25.00	Providing and erection of LED Streetlight 100 watt (10000 Lumen) 5700K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required, with 5 year warranty. Makes: Panasonic/Philips/ Bajaj/Wipro.	3	10443	Rupees Ten Thousand Four Hundred Forty Three Only	Each	31329
26.00	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 and refilling the trench etc.as required, but excluding sand cushioning and protective covering:- (Make:- KEI/ Plaza/Havells)					
26.01	Armoured cable 10 sq. mm (twin core) Makes: KEI/Havells/Plaza	200	361	Rupees Three Hundred Sixty One Only	Per Metre	72200
27.00	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plas/Anchor/PolyFit)					
27.01	50 mm. dia	180	265	Rupees Two Hundred Sixty Five Only	Per Metre	47700
	Total					498129

Draft Schedule of Quantity checked and approved - 1st 4/9/2019

Executive Engineer
Electrical Division
HPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Type-V residence of SE (Mechanical) 2nd Circle
Dharmshala(Sh:- Providing wiring Switches,Fan,LED's, therein)

Job No **15**

ESTIMATED COST: Rs 4,59,054/-only.
EARNEST MONEY: Rs.9200/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Re-wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. FRLS PVC insulated copper conductor cable single core cable and 1.5 square mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed Steel / PVC conduit including dismantling of the existing wiring as required. (including Modular switch, modular plate, suitable GI box etc.)					
1.01	Group C.	46	558	Rupees Five Hundred Fifty Eight Only	Per Point	25668
2.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make for wires: KEI/Plaza/Anchor Make for Switches: Schneider (Livia)/ Legrand (Myrius) /L&T(Entice).					
2.01	Group C.	11	1333	Rupees One Thousand Three Hundred Thirty Three Only	Per Point	14663

3.00	Wiring for two way light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make for wires: KEI/Plaza/Anchor Make for Switches: Schneider (Liviat)/ Legrand (Myrius) /L&T(Entice).	5	766	Rupees Seven Hundred Sixty Six Only	Per Point	3830
4.00	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/SSK/Anchor/SCI					
4.01	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	90	332	Rupees Three Hundred Thirty Two Only	Per Metre	29880
4.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	81	395	Rupees Three Hundred Ninety Five Only	Per Metre	31995
4.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	100	564	Rupees Five Hundred Sixty Four Only	Per Metre	56400
4.04	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	66	293	Rupees Two Hundred Ninety Three Only	Per Metre	19338
5.00	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.					
5.01	3 x 1.5 sq. mm	322	100	Rupees One Hundred Only	Per Metre	32200
5.02	3 x 4.0 sq. mm	244	220	Rupees Two Hundred Twenty Only	Per Metre	53680
5.03	4 x 6.0 sq. mm	24	340	Rupees Three Hundred Forty Only	Per Metre	8160

6.00	Supplying and fixing following rating Modular switch /socket in the existing switch box excluding cover plate connections etc. as required.					
6.01	S.P. 5/ 6 Amps one way Modular switch.	24	115	Rupees One Hundred Fifteen Only	Each	2760
6.02	S.P. 5/ 6 Amps Modular socket.	24	155	Rupees One Hundred Fifty Five Only	Each	3720
6.03	S.P. 15/16 Amps one way Modular switch.	15	214	Rupees Two Hundred Fourteen Only	Each	3210
6.04	S.P. 15/1 6 Amps Modular socket.	15	306	Rupees Three Hundred Six Only	Each	4590
6.05	S.P.TV socket	4	203	Rupees Two Hundred Three Only	Each	812
7.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 nos. 3 pin 5/6 amps modular socket outlets and 3 nos 5/6 amps modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).	13	469	Rupees Four Hundred Sixty Nine Only	Each	6097
8.00	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).	9	621	Rupees Six Hundred Twenty One Only	Each	5589
9.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- Make: Anchor/Goldmedal /Cona	1	206	Rupees Two Hundred Six Only	Each	206
10.00	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. Make: Schneider/ Legrand/L&T.					
10.01	100 Amp 18KA	1	6868	Rupees Six Thousand Eight Hundred Sixty Eight Only	Each	6868

11.00	Supplying and fixing stepped type Modular fan regulator on the existing modular box including making connections etc. as required.	7	729	Rupees Seven Hundred Twenty Nine Only	Each	5103
12.00	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
12.01	Single pole 6-32 Amp (Make:- Schneider/ Legrand/L&T)	36	239	Rupees Two Hundred Thirty Nine Only	Each	8604
13.00	Supplying and fixing following rating, double pole, 240 V, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
13.01	63 Amps. (Make:- Schneider/ Legrand/L&T)	5	530	Rupees Five Hundred Thirty Only	Each	2650
14.00	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
14.01	63 Amps. (Make:- Schneider/ Legrand/L&T)	4	3104	Rupees Three Thousand One Hundred Four Only	Each	12416
15.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
15.01	Double door-4 way (Make:- Schneider/ Legrand/L&T)	1	1425	Rupees One Thousand Four Hundred Twenty Five Only	Each	1425

16.00	Providing, Installation, testing and commissioning of ceiling fan ISI mark with step type two module electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
17.01	Ceiling Fan 1200 mm sweep (Make: Havells (Model: Trinity BLDC, Enticer BLDC)/ Crompton/Orient.	8	2513	Rupees Two Thousand Five Hundred Thirteen Only	Each	20104
18.00	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
18.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD) /Bajaj (Model: Freshet) /Anchor (Model: Anmol) /Crompton (Model: Drit air Plus) .	5	2567	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	12835
19.00	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 .					
19.01	Wall Fan 400 mm sweep	1	3041	Rupees Three Thousand Forty One Only	Each	3041
20.00	Providing and fixing LED Mirror Light of 10 W+/- 1W with Polycarbonate diffuser having P.F.>0.95 with THD<20%, CRI 80 .The LED with Useful life of 50000 Hrs with five years warranty. The LEDs used in the luminaire shall have CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
20.01	LED Mirror Light 10 watt Makes:- Philips /Wipro/ Panasonic/ Crompton.	4	679	Rupees Six Hundred Seventy Nine Only	Each	2716

21.00	Providing and Fixing LED Downlighter of following watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing,pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
21.01	LED Surface mounting round downlighter 12 watt Makes:- Philips /Mipro/ Panasonic/ Crompton.	8	1412	Rupees One Thousand Four Hundred Twelve Only	Each	11296
22.00	Providing and Fixing LED Downlighter of following watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing,pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
22.01	LED Surface mounting round downlighter 18 watt Makes:- Philips /Mipro/ Panasonic/ Crompton.	38	1821	Rupees One Thousand Eight Hundred Twenty One Only	Each	69198
Total						459054

Schedule of quantity checked and approved for 26/5/2024

Executive Engineer
Electrical Division
HPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Additional Alteration in DEIC (District Early Intervention center) OPD 11 at 500 bedded hospital at Dr. RPGMC Tanda at Kangra .(SH:- Providing light points, LED fixture, Power wiring and AC points therein).

Job No 18

ESTIMATED COST: Rs. 1,80,175/-only.
EARNEST MONEY: Rs.3700/-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.					
1.1	Group C (Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia)	16	1345.00	Rupees One Thousand Three Hundred Forty Five Only	P/Pt	21520
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.	36	217.00	Rupees Two Hundred Seventeen Only	P/Mtr	7812
2.3	2x4 Sq. mm.	40	353.00	Rupees Three Hundred Fifty Three Only	P/Mtr	14120
2.5	2x10 Sq. mm.	26	678.00	Rupees Six Hundred Seventy Eight Only	P/Mtr	17628
2.8	4x4 Sq. mm.	28	612.00	Rupees Six Hundred Twelve Only	P/Mtr	17136
	(Make:-KEI / Anchor / Plaza)					

3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					
3.1	3x1.5 Sq. mm.	10	112.00	Rupees One Hundred Twelve Only	P/Mtr	1120
	(Make:-KEI / Anchor / Plaza)					
4	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-					
4.1	6 Modules	8	545.00	Rupees Five Hundred Forty Five Only	Each	4360
	Makes:- L&T/Legrand (cat. No. 5734 01) / Schneider.					
5	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
5.1	Switch - 6A SP (1 Way) - 1 module	15	133.00	Rupees One Hundred Thirty Three Only	Each	1995
5.2	Socket shuttered 6 Amp 2/3 Pin	15	189.00	Rupees One Hundred Eighty Nine Only	Each	2835
5.3	Switch - 20 Amp 1 way 2 Module	15	228.00	Rupees Two Hundred Twenty Eight Only	Each	3420
5.4	Socket shuttered 6 / 16 Amp 3 Pin	15	343.00	Rupees Three Hundred Forty Three Only	Each	5145
	Makes:- L&T/Legrand/Schneider.					
6	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
6.1	Single pole, Cat-A.	16	268.00	Rupees Two Hundred Sixty Eight Only	Each	4288

	Makes:- Legrand/L&T/Schneider.						
7	Supplying and fixing following rating, following pole, 240/415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
7.1	63 Amps. Double Pole	2	531.00	Rupees Five Hundred Thirty One Only	Each	1062	
	Makes:- Legrand/L&T/Schneider.						
8	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.						
8.1	63 Amps. Cat-A.	2	2981.00	Rupees Two Thousand Nine Hundred Eighty One Only	Each	5962	
	Makes:- L&T / Legrand/Schneider.						
9	Providing, Installation, testing and commissioning of ceiling fan BLDC 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.						
9.1	Ceiling Fan 1200 mm sweep, Category-A	4	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	17544	
	Makes:- Usha / Bajaj/ Crompton.						
10	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-						

10.1	Double door-12 way	2	2326.00	Rupees Two Thousand Three Hundred Twenty Six Only	Each	4652
	Makes:- L&T/Legrand/Schneider.					
11	Providing and installation of LED fixtures 18 W +/- 1 W LED round/Square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and PF >0.95 with THD <20%, CCT 6000K, CRI 80 the LED with useful life of 50000hrs. At L70. The input voltage range shall be 150 V as required complete with connections testing etc with 5 year warranty.					
11.1	18 Watt LED, fixture round / square	4	1,564.00	Rupees One Thousand Five Hundred Sixty Four Only	Each	6256
	Make: Wipro / Havells/ Bajaj					
12	Providing and fixing of LED fixture 600mm x 600mm 36Watt +/- 1W recess mounted having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs at L70. The input voltage range shall be 150V as required complete with connections, testing etc with 5 year warranty.					
12.1	36 Watt LED 2'x2' Recess panel	8	5415.00	Rupees Five Thousand Four Hundred Fifteen Only	Each	43320
	Makes: Wipro/ Havells/ Panasonic					
	Total					180175

Self Schedule quantity checked and approved for 18/11/2019 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. 17

ESTIMATED COST: Rs 4,96,307/-only.
EARNEST MONEY: Rs.10,000/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT
				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.	6	71432.00	Rupees Seventy One Thousand Four Hundred Thirty Two Only	Each	428592
	A.C. Unit 2 Ton capacity (Split Inverter)					
	Makes:- LG (Model No. : RS-H24VNXE.AN LG (R-32)/Volta/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.	6	5200.00	Rupees Five Thousand Two Hundred Only	Each	31200
	Automatic Voltage Stabilizer 5 KVA					
	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	22 ✓	1250.00	Rupees One Thousand Two Hundred Fifty Only	Per Meter	27500 ✓
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.	17 ✓	195.00	Rupees One Hundred Ninety Five Only	Per Meter	3315 ✓
	Total					496307 ✓

Schedule of quantity checked and approved for 496307 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 ICU, In-Patient Ward, Skill Room and Pantry of Critical Care Skill Lab/Simulation Lab therein)

Job No 18

ESTIMATED COST: Rs 4,95,952/-only.
EARNEST MONEY: Rs.10,000/-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	71432.00	Rupees Seventy One Thousand Four Hundred Thirty Two Only	Each	428592
	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	125000	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	185.80	Rupees One Hundred Ninety Five Only	Per Meter	5460
	Total					495952

Schedule of quantities checked and approved for 495952-2017

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair and Maintenance of E.L. to 500 Bedded Hospital Dr. RPGMC Kangra at Tanda. (SH: Rewinding of ceiling fans, replacement of fan condensers, fan regulators and extra down fan rods etc. in various Wards of ground floor to fourth floor and OPD area therein)

Job No | 9

ESTIMATED COST: Rs. 2,36,185/-only.
EARNEST MONEY: Rs. 4800/-only
TIME ALLOWED: Six Months

	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Rewinding of ceiling fan 1200/1400 mm sweep new model with copper insulated wire HTP-34 number including varnishing, capacitor, ball bearing etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	272	670.00	Rupees Six Hundred Seventy Only	Each	182240
2	Providing and fixing extra conduit down rod of 20mm dia. x 60 cm with 16/0.20 mm twin twisted flexible, cotton braided, copper cable including painting, connections etc. as required.-	49	155.00	Rupees One Hundred Fifty Five Only	Each	7595
3	Replacement of fan condenser 2.5 MFD suitable for 1200/1400 ceiling fans as required complete in all respects and to the best satisfaction of Engineer-in-charge.	248	75.00	Rupees Seventy Five Only	Each	18600
4	Supplying and fixing stepped type fan regulator on the existing modular box including making connections etc. as required.	75	370.00	Rupees Three Hundred Seventy Only	Each	27750
Total						236185

Doct schedule of quantity checked and approved for
236185/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Replacement of old and damaged ceiling fans of various wards at 3rd floor (Male and Female) surgical wards, Children ICU, Anesthesia ICU of 500 Bedded Hospital Dr. RPGMC Tanda.

Job No
2073

ESTIMATED COST: Rs.2,93,156/-only.
EARNEST MONEY: Rs.5900/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing installation testing and commissioning of BLDC ceiling fan with socket type regulator, including wiring the down rods of standard length (yp to 30 cm) with 16/0.20 mm twin twisted flexible cotton braided copper cable including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with five year warranty.	62	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	271932
2	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.	7	3032.00	Rupees Three Thousand Thirty Two Only	Each	21224
Total						293156
The Dismantal metrial deducted from the contractor that is Rs. 2932/- in the Final will						

Draft Schedule Quantity checked and approved for Rs. 293156/- only

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of HVAC System, 500 bedded hospital Dr. RPGMC Kangra at Tanda. (SH: Replacement of burnt out/damaged chiller pump cable, 5 H.P. motor etc. and overhauling of AHU for CSSD area thereof)

Job No 21

ESTIMATED COST: Rs. 2,97,987/60 only.
EARNEST MONEY: Rs. 5000/- only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	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 10 sq. mm (3 Core)	160	298.00	Rupees Two Hundred Ninety Eight Only	Per Meter	47680
	Make:- KEI/Finolex/Havells/Grandlay					
2	Providing & laying of one number copper conductor, PVC insulated and PVC sheathed un-armoured power cable, 1.1 KV grade of following sizes on wall surface as required.					
	Armoured copper cable 6 sq. mm (3 Core)	80	650.00	Rupees Six Hundred Fifty Only	Per Meter	52000
	Make:- KEI/Finolex/Havells/Grandlay					
3	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 KA, "D" 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.					
	MCB 32 Amp., 4 pole "D" Curve	1	1759.00	Rupees One Thousand Seven Hundred Fifty Nine Only	Each	1759
	Makes:- L&T/Legrand/Schneider.					

4	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
	Double door-4 way	1	1425.00	Rupees One Thousand Four Hundred Twenty Five Only	Each	1425
	Makes:- Legrand/L&T/Schneider.					
5	Providing and fixing 5 HP DOL motor starter suitable for AHUs etc. including testing, commissioning and making connections etc. as required complete in all respects.					
	5 HP DOL Motor Starter	3	13800.00	Rupees Thirteen Thousand Eight Hundred Only	Each	41400
	Makes:- Siemens/L&T/Schneider.					
6	Providing and fixing 20 HP condenser water pump head suitable for chiller/cooling tower of HVAC system including testing, commissioning and making connections etc. as required complete in all respects.					
	20HP Water Pump condenser/head	3	14800.00	Rupees Fourteen Thousand Eight Hundred Only	Each	44400
7	Supplying and fixing of 5 H.P. 2900 RPM clear water monobloc pump motor having gland packed arrangement, pump having 65 mm suction, 50 mm delivery, suitable for operation on 415V, 50 hz, 3 phase A.C. supply complete with testing, commissioning & installation as required.					
	5 H.P. Monobloc Water Pump Motor	1	68823.00	Rupees Sixty Eight Thousand Eight Hundred Twenty Three Only	Each	68823
	Makes:- Kirloskar/Siemens/Crompton					

8	Rewinding of motor having following size/rating with SWG copper wire including warmishing and refilling etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
	Rewinding of 5HP 3 Phase Motor	1	8200.00	Rupees Eight Thousand Two Hundred Only	Each	8200 ✓
	Makes:- Siemens/L&T/Schneider.					
9	Providing wet servicing/overhauling of Air Handling Unit (AHU) of Heating, Ventilation and Air Conditioning System (HVAC) as required complete in all respects and to the best satisfaction of Engineer in charge.	1	32300.00	Rupees Thirty Two Thousand Three Hundred Only	Per Job	32300 ✓
	Servicing consists of the following :-					
	Check the operation of dampers.					
	Check the filter frame for proper sealing.					
	Check the access of AHU's door for easy operation.					
	Check the coils and fins condition, washing with chemical spray.					
	Check the motor and fan bearing lubricant.					
	Total					297987 ✓

Schedule of quantity checked and approved for ₹ 297987 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of HVAC System in Super Specialty Block Dr.
RPGMC Kangra at Tanda. (SH: Replacement of damaged water storage tank, butterfly valves, iron net etc. for chiller plant and provide new water storage tank for condensor motor and chiller motor therein)

Job No
22

ESTIMATED COST: Rs 2,49,680/-only.
EARNEST MONEY: Rs.5000/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and installation of water tank of following capacity and sizes having anti-bacterial layer, UV Sun shield layer and enhanced aesthetic layer protection and robust injection moulded threaded lid for secure sealing and certified by IAPMO under NSF/ANSI/CAN 61 standards complete with all accessories as required in all respect and to the best satisfaction of Engineer-in-Charge.					
1.1	1000 ltrs. capacity Water tank (1050mm dia. x 1220mm (H)	2	8200	Rupees Eight Thousand Two Hundred Only	Each	16400
1.2	2000 ltrs. capacity Water tank (1325mm dia. x 1600mm (H)	2	16400	Rupees Sixteen Thousand Four Hundred Only	Each	32800
	Make : Vectus/ Diplas/ Supreme					
2	Providing and fixing of iron stands suitable for water tanks and iron net for cooling tower as required complete in all respects and as per direction and satisfaction of Engineer in charge.	640	195	Rupees One Hundred Ninety Five Only	Per Kg.	124800
3	Providing & fixing brass float valve following size as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
	25mm dia.	4	1680	Rupees One Thousand Six Hundred Eighty Only	Each	6720

	Make: Sant/Zoloto/Audico.						
4	Providing & fixing of Cast iron /steel Butterfly Valve confirming to type P N 1.6 of IS 13095-1991 complete with flanges bolt, nuts, gasket etc. As per table 'E' specification complete in all respect hydraulically test to 20 K/sqcm as required complete in all respects and to the best satisfaction of Engineer-in-charge.						
	80 mm dia.	4	5400	Rupees Five Thousand Four Hundred Only	Each	21600	
	Makes: Zoloto/Sant/Audico						
5	Providing & fixing of G I pipe following size as required complete in all respects and to the best satisfaction of Engineer-in-charge.						
	50 mm dia.	32	1480	Rupees One Thousand Four Hundred Eighty Only	Meter	47360	
	Make: Jinda/Tata/ACME						
	Total					249680	

Booth Schedule of Quantity checked and approved
for 249680/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Providing Installation Testing & Commissioning
Main Control Panel in the office of CMO Chamba in Tehsil &
Distt. Chamba (H.P).

Job No 23

ESTIMATED COST: Rs. 2,22,017/-only.
EARNEST MONEY: Rs.4500/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for circuit / sub-main with 4x10 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.10 Sq.mm. (4x10+2x10) HRRFLS/PVC insulated single core copper conductor cable for earthing as required.	20	1300	Rupees One Thousand Three Hundred Only	Per metre	26000
	Make:- KEI/Polycab/ L&T					
2	Supplying, erection, testing & commissioning of following depth sheet metal cubical main L.T. pannel of suitable dimensions with plus-minus 5 cm variation, made from M.S. CRC 14/16G, Base Frame 75X40X3MM Channel duly painted with Siemens Grey Powder Coated Paint as per specification & Drawings. Approximate Overall size H-1200 X W-1500 X D-350MM. The cubical pedestal shall have cable entry box at one or two sides. The pannel should be complete with following accessories and space for fixing DPMCB's and Isolators, SPMCB's including providing and fixing pannel indicating lamps with base as per drawing including 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. as required complete in all respects. Make:- M.R Power/Power system control/DB Electromatic Pvt. Ltd	1	163699	Rupees One Lacs Sixty Three Thousand Six Hundred Ninety Nine Only	Per Job	163699
	The Panel shall include the following Switchgear & accessories, as per the Make of L & T, Schneider, Legrand.					
	Main Incomers -2					

	MCCB 160A 4P, 36KA -1 No, Extended Rotary Handle Dsine-1 No, Spreader link-1 No, Digital VAF Meter 96sq. mm-1 No, Indicator RYB LED type (3 pcs)-1 No, Control MCB 6A SP 10KA-4 Nos, Current Transformer coil 200/5A CL-1 10 VA-3 Nos.				
	On Load Changeover Switch				
	160A On Load Changeover Switch				
	Indicator R Y B Led Type (3pcs)				
	Outgoing Feeders -1				
	MCCB 100A 3P, 25KA - 2 No, Extended Rotary Handle Dsine-1 No, Spreader link - 1 No, Indicator MCCB On LED Type -1 Nos.				
	Secondary Material				
	Cubical Panel Powder Coated with CRCA Sheet -1No, 160A RYBN Busbar Aluminium (+/-50 HZ, 440 V AC) -1No, Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black, Colour coded - 1No, SMC/DMC Insulator & Supports-1Nos, Power & Control wiring - 1No, Terminal Block Short links & PVC Channels -1Nos, Thimbles ferrules & Din rails -1No, Rubber Gasket, Bakelites -1No, Engraving Name Plates 1No, Doorlocks & Hinges -1No, Lifting hooks, Hardwares -1No, Labour Charges (i.e. Busbar fitting and wiring) -1No				
3	Supplying, erection, testing & commissioning of following depth sheet metal cubical main L.T. pannel of suitable dimensions with plus-minus 5 cm variation, made from M.S. CRC 14/16G, Channel duly painted with Siemens Grey Powder Coated Paint as per specification & Drawings. Approximate Overall size H- 800 X W-700 X D-250MM The cubical pedestal shall have cable entry box at one or two sides. The pannel should be complete with following accessories and space for fixing DPMCB's and Isolators, SPMCB's including providing and fixing pannel indicating lamps with base as per drawing including 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. as required complete in all respects.	1	32318	Rupees Thirty Two Thousand Three Hundred Eighteen Only	Per Job 32318

Panel size (600mm (high) x 700mm (wide) x 250mm (deep)					
The Panel shall include the following Switchgear & accessories, as per the Make of L&T, Schneider, Legrand.					
Main Incomers					
100A MCCB 3P, 25KA-1 No. Cubical Panel Powder Coated with CRCA Sheet -1No. 100A RYBN Busbar Aluminium (+/-50 Hz, 440 V AC) - 1No. Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black. Colour coded -1No. SMC/DMC Insulator & Supports-1Nos. Power & Control wiring -1No. Terminal Block Short links & PVC Channels - 1Nos. Thimbles ferrules & Din rails -1No. Rubber Gasket, Bakelites - 1No. Engraving Name Plates 1No. Doorlocks & Hinges. -1No. Lifting hooks, Hardwares -1No. Labour Charges (i.e. Busbar fitting and wiring) - 1No					
Total					222017

Schedule of quantity checked and Approved for 22.2.2017 - 1 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Replacement of Electrical accessories and old damaged fittings into new one in HPPWD Ist Class Rest-House at Chamba in Tehsil & Distt. Chamba H.P Ground Floor & First Floor.

Job No **26**

ESTIMATED COST: Rs.3,87,234/-only.
EARNEST MONEY: Rs.7800/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed 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.					
1.1	Group C (Make : KEI/Plaza/Anchor/SCI	10	1823	Rupees One Thousand Eight Hundred Twenty Three Only	P/Point	18230
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).	30	395	Rupees Three Hundred Ninety Five Only	P/Mtr	11850
2.2	2x4.0 Sq. mm.	60	471	Rupees Four Hundred Seventy One Only	P/Mtr	28260
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make : KEI/Plaza/Anchor/SCI					
3.1	3x2.5 Sq. mm.	40	171	Rupees One Hundred Seventy One Only	P/Mtr	6840

4	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. Make :- Anchor/L&T/Schenider					
4.1	2 module - Modular GI box with Modular base & cover plate	13	276	Rupees Two Hundred Seventy Six Only	Each	3588
4.2	3 module - Modular GI box with Modular base & cover plate	62	582	Rupees Five Hundred Eighty Two Only	Each	36084
4.3	6 module - Modular GI box with Modular base & cover plate	17	750	Rupees Seven Hundred Fifty Only	Each	12750
5	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). Make :- Anchor/L&T/Schenider					
5.1	Modular G.I box for 12 mudule	2	1366	Rupees One Thousand Three Hundred Sixty Six Only	Each	2732
6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
6.1	TV antenna socket outlet	5	157	Rupees One Hundred Fifty Seven Only	Each	785
	Make :- Anchor/L&T/Schenider					
7	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surfacel recessed steell PVC conduit as required. Make :- Anchor/L&T/Schenider					
7.1	Co-axial Tv cable	50	36	Rupees Thirty Six Only	Each	1800

8	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.					
8.1	PVC conduit 25mm.	50	113	Rupees One Hundred Thirteen Only	P/Mtr	5650
	Makes:- BEC Plast/Anchor/PolyFit					
9	Supplying and Fixing of following size of medium class Steel conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
9.1	Steel conduit 25mm. Makes:- BEC Plast/Anchor/Diplast/Sidharth	40	265	Rupees Two Hundred Sixty Five Only	P/Mtr	10600
10	Supplying&fixing suitable size GI box with modular plate and cover in front surface or in recessible providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, 'C' curve including connection, painting etc. as required. Modular GI box for 3 module Make :- Anchor/Schenider/L&T	10	775	Rupees Seven Hundred Seventy Five Only	Each	7750
11	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections testing and commissioning etc. as required. of Approved Make Usha/Bajaj/Crompton					
11.1	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	10	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	22690

12	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. (Make Bajaj/wipro/Philips					
12.1	LED Tube Fixture 20Watt	10	975	Rupees Nine Hundred Seventy Five Only	Each	9750
13	Providing and fixing LED Mirror Light of IP20 Feet Led fixture 10 W+/- 1W with Surface Mounted 2 with Polycarbonate diffuser with Extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F. >0.95 with THD 20% .CRI 80 .The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 6500 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
13.1	LED Mirror Light 10W Wipro/Bajaj	20	665	Rupees Six Hundred Sixty Five Only	Each	13300
14	Wall light fixture, brushed nickel finish body, opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base. Make:- Philips/Decon/Bajaj					
14.1	Fancy wall bracket.	50	1645	Rupees One Thousand Six Hundred Forty Five Only	Each	82250

15	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/Mipro.					
15.1	LED Panel 2'x2' 36 watt.	1	4834	Rupees Four Thousand Eight Hundred Thirty Four Only	Each	4834
16	Providing and fixing recess mounting LED luminaire of following rating with powder coated CRCA housing with high power LEDs 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 Crompton Cat No. CCR141-24-57-SL-NWH/Wipro/Bajaj. with 5 year warranty.					
16.1	square LED panel Light 1x1 24Watt Surface.	9	1570	Rupees One Thousand Five Hundred Seventy Only	Each	14130
17	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 AES should be compatible with specification i.e. Power Factor> 0.9, Harmonic Distortion efficacy 100 Lumens per watt, CRI rating 80 suitable for input voltage: AC 220-240 OH, complete with all accessories, connections, testing and commissioning etc. as required with 5 year warranty. Makes : Panasonic (Cat No PDL M11206BS)/Philips/ Bajaj/wipro.					

17.1	Square/round LED Panel Light 18 W surface.	8	2870	Rupees Two Thousand Eight Hundred Seventy Only	Each	22960
18	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.					
	Make:-C&S./Panasonic/Wipro.					
18.1	Square/round LED Down light 12 Watt.	12	1050	Rupees One Thousand Fifty Only	Each	12600
19	Supplying and fixing call bell/Ding dong suitable for single phase, 230 volts, complete as required. Make:- SSK /Anchor/GoldMedal	10	117	Rupees One Hundred Seventeen Only	Each	1170
20	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator). Make :- L&T/Legrand/Schenider					
20.1	Double door-16 way	6	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	17724
21	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- Make :- L&T/Legrand/Schenider					

21.1	Single pole.	51	265	Rupees Two Hundred Sixty Five Only	Each	13515
22	Supplying and fixing following rating, double pole, 240 volts, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make :- L&T/Legrand/Schneider					
22.1	63 Amps.	6	616	Rupees Six Hundred Sixteen Only	Each	3696
23	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make :- L&T/Legrand/Schneider					
23.1	63 Amps.	6	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	21696
	Makes:-L&T/Legrand/Schneider					
	Total					387234

Draft Submitted for quantity check and approval
 Date 30/7/23

Executive Engineer
 Electrical Division
 HPPWD, Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Rajeev Gandhi Govt. Engineering College Kangra at Nagrota Bagwan Distt. Kangra (H.P.)
SH:- Providing E.I. to Architecture block therein
SH:- Supplying one no. Computer System in Division office therein)

Job No **25**

ESTIMATED COST: Rs.48,490/-only.
EARNEST MONEY: Rs.1000/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES		UNIT	AMOUNT
				WORDS			
1	Supplying and fixing Desktop Intel core i3 Gen processor,4GB DDR3 RAM expandable upto 16GB,SSD 256G(Solid state drive),antiglare LED display with FHD(1920x1080),Integrated HD graphics,2Xusb 3.0,2Xusb 2.0,Audio port/VGA/HDMI Port,10/100/1Pv6 Lan,USB Keyboard & USB MOUSE USB Multimedia Speaker. One (01) Years onsite warranty.	1	30500.00	Rupees Thirty Thousand Five Hundred Only		Each	30500
2	650 VA Offline UPS system with (Make:-Vertiv Libert-ITON total: 168VAH)SMF batteries to provide 20 minutes battery backup (with 01 years warranty on UPS and batteries from delivery Date).	1	3000	Rupees Three Thousand Only		Each	3000
3	Supplying and fixing Canon LBP 6030B single function laserjet printer with wired connectivity,USB 2.0 Port With One year Warranty.	1	14990	Rupees Fourteen Thousand Nine Hundred Only		Each	14990
Total							48490

Prepared by Schedule of Quantity checked and approved by 48490/-

Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair and Maintenance of Mini Secretariat Building at Dehra in Tehsil Dehra Distt. Kangra(H.P.) (SH):- Providing LAN ,UPS,AC's in CM office therein).

Job No 26
26

ESTIMATED COST: Rs.3,84,171/-only.
EARNEST MONEY: Rs.7700/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT
				WORDS		
1	Supply, Installation, testing and commissioning of 2KVA/2KW True Online. DSP Controlled online UPS with 1 phase AC input and 1 phase AC output with 60 min backup with 12V SMF batteries Bank with Rack. The UPS should be with IGBT Based Rectifier and IGBT based Inverter both and with LCD Screen Display & LED indicators for monitoring of its status along with same OEM make inbuilt Isolation Transformer at input side. The job includes the cost of Supply, installation, commissioning and testing charges including rack, connecting and other petty material required to complete the job. Approved Make: APC-Schneider/ Vertiv - Emerson/EATON/Legrand-Numeric Only.	2	82239	Rupees Eighty Two Thousand Two Hundred Thirty Nine Only	P/Set	164478
	The UPS should have following specification.					
	Capacity in KVA/KW					
	UPS System Description					
	back up on SMF Batteries,MS Rack, interconnection cable and wire from UPS to battery bank					
	Input (Rectifier)					
	Primary source voltage					
	Input Voltage Range					
	Input Frequency Range					
	Input power factor					
	THDI rating					
	Output (Inverter)					
	DC volts					
	Output voltage					
	220/230/240 V) \pm 1%					
	Output frequency					
	50 Hz /60 Hz (+/- 1%)					
	Output Power Factor					
	Unity					
	THD Voltage rating					
	< 2% for Linear load					

	Overall Efficiency	Upto 83%							
	ECO mode Efficiency	Upto 94 %							
	Transfer Time (AC)	Zero							
	Mode to battery mode)								
	Display Panel	CD display along with LED indicators							
	Output Socket	Min 2 no. of programmable IEC 6A socket & 2 Nos 6A Socket & 1No Terminal Block. The IEC output sockets can be programmed and configured to define load priority.							
	Battery Management	Should be inbuilt within the UPS System							
	Back-up	Min 1 Hour backup with atleast min 3200VAH or higher							
	Status on LED & LCD	Normal Mode, Load on Battery, Load on Bypass, System Fault, load %age, output current, battery voltage							
	display								
	Audible Alarm	Mains Failure/Low battery /UPS Warning / Overload/Fault & Bypass Mode etc.							
	Ambient temperature	0 to 40 Deg. C							
	Standards	ISO Standard 9001:2015,ISO 140001, CE, EN-IEC 62040 1,2 & 3 certified product, BIS – make in India & ROHS/PEP complied product							
	Communications & other ports	RS232 and USB and EPO feature							
	Network interface	Optional SNMP card for future up gradation for web monitoring							
	Warranty	3 years on UPS & 3 years on Batteries							
	Approved Make : APC- Schneider / Vertiv -Emerson/ Eaton/Legrand-Numeric Only for UPS & Exide, Quanta & Panasonic for SMF Batteries..								
2	Supplying, erection, testing & commissioning of VRLA-AGM maintenance free Battery 12V SMF batteries for 60 Minutes back up VAH of 3200VAH (12VX8 No. of 34AH) extra lead acid battery with thicker tubes suitable for UPS (Including Battery rack) as required complete in all respects and to the best satisfaction of Engineer-in-Charge								

2	Makes:- Exide Power Safe/ Quanta 12V SMF (12VX8 No. of 34Ah) Batteries for 60 Minutes backup or any other make approved by Engineer-in-Charge.	2	52035	Rupees Fifty Two Thousand Thirty Five Only	P/Set	104070
3	Providing and Fixing of LED fixture 600mmX800mm 36 Watt +/- 1W Surface/Recessed 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. 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.					
3.1	LED Panel 2'x2' 36 watt	2	5313	Rupees Five Thousand Three Hundred Thirteen Only	P/Set	10626
	Makes:- Panasonic,Bajaj,Wipro					
4	Providing and drawing LAN cable Cat 6, in existing PVC conduit/ casing and capping as required complete in all respects matching specs give in Bidding Document.	80	65	Rupees Sixty Five Only	P/Mtr.	5200
	(Makes:- Belden /Panduit /Corning /Molex/Dlink)					
5	Providing and fixing Face plate Single Port with plug in icons icon tree, write on labels in transparent plastic window- supplied with plate, should be UL listed, making connection, testing etc as required complete in all respects.	5	130	Rupees One Hundred Thirty Only	P/Set	650
	(Makes:- Belden /Panduit /Corning /Molex/Dlink)					
6	Supplying, Installation and fixing information outlet of following colours as required complete in all respects matching specs given in Bidding Document.					
	White	5	315	Rupees Three Hundred Fifteen Only	P/Set	1575
	(Makes:- Belden /Panduit /Corning /Molex/Dlink)					
7	Providing and patching CAT 6 patch cord UTP 2 meter of following colours as required complete in all respects matching specs given in Bidding Document.					

	Grey	5	310	Rupees Three Hundred Ten Only	Each	1550
	(Makes:- Belden /Panduit /Corning /Molex/Dlink)					
8	Providing and fixing of 4U Wall Mount Rack made of MS sheet as required complete in all respects matching specs given in Bidding Document	1	4254	Rupees Four Thousand Two Hundred Fifty Four Only	Each	4254
	(Makes:- Comrack /Rittal /APC President /Dlink)					
9	Supplying, Installation Testing and commissioning of RJ-45 jacks as required to have complete solution in all respects and to best satisfaction of engineer in charge.	5	55	Rupees Fifty Five Only	Each	275
	(Makes:- Standard Make					
10	Supply, Installation, Testing and Commissioning of 8 Port GE PoE Switch web managed as required complete in all respects matching specs given in Bidding Document	1	6950	Rupees Six Thousand Nine Hundred Fifty Only	Each	6950
	(Makes:- Quantum/ Cisco/ ATN/ Dlink)					
11	Supplying and fixing of following sizes of heavy class FRPS PVC conduit having wall thickness 2.0mm along with accessories insurface/recess including painting in case of surface conduit, or cutting the walland making good the same in case of recessed conduit as required.	65	99	Rupees Ninety Nine Only	P/Mtr.	6435
	(Makes:- Deepplast,BEC.					
12	Supplying, Installing, Testing and Commissioning of Split Type Air Conditioner 1.8/2 TR 3 Star inverter SPLIT AIR CONDITIONER (Hot and Cold) conforming to I.S.I -1391 Part-1992 with ammendment No. 1(expect power consumptions norms) fitted with Hermatically shielded Air Conditioner with installation & testing and commissioning etc. as required in all respects.					
	A.C. Unit 1.8/2 Ton capacity	1	67267	Rupees Sixty Seven Thousand Two Hundred Sixty Seven Only	Each	67267
	Makes: Daikin (Model No. FTHT60 3* HOT & COLD INVERTER 1.8 TR),O-General / velfal.					

13	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130volt to 280volts and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 2 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects. Makes: Godrej, Whirlpool, Microtek.					
	Automatic Voltage Stabilizer 5KVA	1	5426	Rupees Five Thousand Four Hundred Twenty Six Only	Each	5426
14	P/F of M.S out door heavy duty stand powder coated suitable to hang 1.8/2 TR split A.C with six Nos. Anchor bolts as required complete in all respects and as per direction of Engineer - In-charge.	1	950	Rupees Nine Hundred Fifty Only	Each	950
15	S/F of Copper tube with insulation for A.C 1.8/2 TR capacity complete in all respects as required	1	1350	Rupees One Thousand Three Hundred Fifty Only	P/ mtr	1350
16	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, 2.5Sq. mm 3Core cable in the existing surface/ recessed steel/PVCconduit as required	3	280	Rupees Two Hundred Eighty Only	P/Mtr	840
17	S/F of Drain pipe of size 1" Dia (25mm) complete with elbows tees, socket etc. of superior quality as per satisfaction of Engineer-In-Charge.	5	195	Rupees One Hundred Ninety Five Only	P/ mtr	975
18	Providing and fixing PVC Trunking for covering of copper pipe of following size 105X50mm as required complete in all respects. Makes: Polyplast, Deepplast, BEC.	1	1300	Rupees One Thousand Three Hundred Only	P/Mtr	1300
	Total					384171

Schedule of quantity checked and approved for ₹ 384171 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of burnt and damaged AMF Controller for 250 KVA D.G Set installed in the Complex of H.P Board of School Education Dharamshala in District Kangra (H.P.)

Job No **27**

ESTIMATED COST: Rs. 64,731/-only.
EARNEST MONEY: Rs. 1300/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing AMF controller suitable for 250 KVA D G Set including the Labour charges for callibration, repairing and rectifying the problem of DG Set making connections, etc. as required complete in all respects.	1	64731	Rupees Sixty Four Thousand Seven Hundred Thirty One Only	Each	64731
Total						64731

Schedule of quantity checked and approved for 64731/-only

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Centre of Excellence in Mental Health for Dr. RPGMC Kangra at Tanda. (SH:-Providing and fixing steel work, Aluminium work, Plastering and Painting work in Lift room area of staff lift and Patient lift therein).

Job No **28**

ESTIMATED COST: Rs.2,80,103/-only.
EARNEST MONEY: Rs.5700/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:2:4 (1 cement : 2 coarse sand) : 4 graded stone aggregate 20 mm nominal size)	9.22	5954.35	Rupees Five Thousand Nine Hundred Fifty Four and Thirty Five Paisas Only	Per Cum	54899
2	15mm thick cement plasters in single coat on rough side of brick/concrete/stone walls for interior plastering upto all floor level including anises, internal rounded angles, channfers and or rounded angles not exceeding 80mm in girth and finished even and smooth with cement mortar 1:6 (1 cement: 6 sand) upto floor two level	18.08	241.20	Rupees Two Hundred Forty One and Twenty Paisas Only	Per Sqm.	4361
3	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mited and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-In-charge. (Glazing, paneling and dash fasteners to be paid for separately) : Powder coated aluminium (minimum thickness of powder coating 50 micron)					
(i)	For doors windows and ventilators and glazed partitions frames.	56.16	560.00	Rupees Five Hundred Sixty Only	Per Kg.	31450

For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)						
(ii)		56.16	540.00	Rupees Five Hundred Forty Only	Per Kg.	30326
4	Providing and fixing anodized aluminium sliding door bolts anodized transparent or dyed to required colour and shade with necessary screws etc. complete.					
I	300x10mm	2.00	112.45	Rupees One Hundred Twelve and Forty Five Paisas Only	Each	225
II	250x10mm	2.00	99.20	Rupees Ninety Nine and Twenty Paisas Only	Each	198
5	Providing and fixing anodized aluminium tower bolts (barrel type anodized transparent or dyed to required shade and colour with screws etc. Complete.					
I	200x10mm	2.00	296.35	Rupees Two Hundred Ninety Six and Thirty Five Paisas Only	Each	593
II	250x10mm	2.00	370.15	Rupees Three Hundred Seventy and Fifteen Paisas Only	Each	740
6	Providing and fixing aluminium handles anodized transparent or dyed to required colour & shade with necessary screws etc.					
I	125mm	2.00	57.55	Rupees Fifty Seven and Fifty Five Paisas Only	Each	115
II	100 mm	2.00	50.75	Rupees Fifty and Seventy Five Paisas Only	Each	102

7	Providing and fixing 12mm (Twelve millimetres) thick prelaminated board both side bwp phenol bonded exterior/interior grade panelled shutters including bright finished/black enamelled iron butt hinges with necessary screws complete	10.08	1400.00	Rupees One Thousand Four Hundred Only	Per Sqm.	14112
8	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	278.88	107.45	Rupees One Hundred Seven and Forty Five Paises Only	Per kg	29966
9	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	595.28	85.10	Rupees Eighty Five and Ten Paises Only	Per Sqm.	50658
10	Wall painting (Two coat) with plastic emulsion paint of approved brand and manufacture on undecorated wall surfaces to give an even shade including thoroughly bushing the surface free from mortar droppings and other foreign matter and sand papered smooth including applying of putty as required for marking the surface.	595.28	74.80	Rupees Seventy Four and Eighty Paises Only	Per Sqm.	44527
11	Supplying and fixing expended metal to wood or steel members in partitions etc. Weight exceeding 3kg and not exceeding 5kg Per Square metre complete as directed by the Engineer-in-charge including entire carriage of materials within all leads, lifts and other incidentals.	17.14	950.00	Rupees Nine Hundred Fifty Only	Per Sqm.	16283
12	Painting two coats (excluding priming coat) on new steel and steel based surface under coat with enamel and finishing coating with flat oil paint, brushing to give an even shade including cleaning of all dirt, dust and other foreign matter, sand papering and stopping:- With paint other than white	28.74	53.85	Rupees Fifty Three and Eighty Five Paises Only	Per Sqm.	1548
	Total					280103

Schedule Quantity checked and Approved for P.O. 280103-1004

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Centre of Excellence in Mental Health for Dr. RPGMC Kangra at Tanda. (SH:-Providing and fixing steel and grill work in Fire Fighting pump Room at Basement floor therein).

Job No **29**

ESTIMATED COST: Rs.2,20,912/-only.
EARNEST MONEY: Rs.4500/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES		UNIT	AMOUNT
				WORDS			
1	Providing and fixing of M.S. grills of required patterns in wooden frames of windows etc. with M.S. Flats, square or round bars with round headed bolts and nuts or by screws fixed to steel windows by welding as required complete in all respects.	280.00	188.00	Rupees One Hundred Eighty Eight Only		P/Kgs.	52640
2	Steel work welded in built up sections / frame work including cutting hoisting fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gratings frames, guard bar, ladder, railings, brackets, gates and similar works	772.00	117.60	Rupees One Hundred Seventeen and Sixty Paises Only		P/Kgs.	90787
3	Providing and fixing 0.60 mm thick pre painted plain steel sheet in partition with hot dipped metallic zinc coated sheet with top coat of regular modified polyester (RNP) organic coating of 20 microns over 5 microns primer coating to black coat of polyester of 5 microns over 5 microns primer coating i/c fixing with pre painted iron J or L hooks bolts and nuts 6mm Dia meter with pre painted limpet and rubber washers complete with all accessories as required complete in all respects.	52.00	1490.10	Rupees One Thousand Four Hundred Ninety and Ten Paises Only		P/Sq.mtr	77485
Total							220912

Schedule of Quantity checked and approved for 22-09-2012 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of E.I. to Vivekanand Hostel, Dr. RPGMC Kangra at Tanda. (Sh: Replacement of old and damaged switch-sockets, LEDs, fans etc. (room no. 201 to 216) and campus lights thereof)

Job No 30

ESTIMATED COST: Rs 2,23,492/-only.
EARNEST MONEY: Rs.4500/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCconduit as required.					
1.1	3x1.5 Sq. mm.	60	100.00	Rupees One Hundred Only	Per Meter	6000
	Make:- Finolex/Anchor/Polycab					
2	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
2.1	5/10 Amps. Modular switch	15	93.00	Rupees Ninety Three Only	Each	1395
2.2	15/20 Amps. Modular switch	15	164.00	Rupees One Hundred Sixty Four Only	Each	2460
2.3	5/6 amp modular socket outlet	15	136.00	Rupees One Hundred Thirty Six Only	Each	2040
2.4	15/16 amp modular socket outlet	15	231.00	Rupees Two Hundred Thirty One Only	Each	3465
	Makes:- Legrand/L&T/Schneider					
3	Supplying and erection of MCB of following rating, 10 KA breaking capacity, 240 volts / 415 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					

3.1	Single pole. 6-32 Amp.	20	239.00	Rupees Two Hundred Thirty Nine Only	Each	4780
	Makes:- Legrand/L&T/Schneider					
4	Providing, Installation, testing and commissioning of BLDC 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.					
4.1	BLDC Ceiling Fan 1200 mm sweep	3	4323.00	Rupees Four Thousand Three Hundred Twenty Three Only	Each	12969
	Makes:- Usha/Havells/Bajaj					
5	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.					
5.1	Exhaust Fan, Light duty, (Domestic)	6	2567.00	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	15402
	Makes:- Usha/Havells/Bajaj					
6	Providing and Fixing of IP20 LED fixture of 18 watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing, pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. With 5 year warranty					

6.1	LED Surface mounting round downlighter 18 Watt	20 ✓	1821.00	Rupees One Thousand Eight Hundred Twenty One Only	Each	36420 ✓
	Makes: Panasonic/Havells/ Wipro					
7	Providing and fixing LED Batten Light of IP40 LED fixture 20 W+/- 1W with Surface Mounted 4 Feet with Polycarbonate diffuser with Extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F.>0.95 with THD<20% ,CRI 80 .The LED with Useful life of 50000 Hrs at L70 . The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. With 5 year warranty					
7.1	LED Batten Light of IP40 20W	20 ✓	1138.00	Rupees One Thousand One Hundred Thirty Eight Only	Each	22760 ✓
	Makes: Wipro/Panasonic/Havells					
8	Supplying and fixing of LED street light luminaire with the use of the latest technology 70 Watt (7000 lumens), 6500K made of CRCA housing and it should be compatible with specifications i.e. power factor ≥ 0.95 , harmonic distortion $\leq 10\%$ and efficacy ≥ 80 lumens per watt, CRI > 70 , 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					
8.1	LED Street Light 70 Watt	7 ✓	5573.00	Rupees Five Thousand Five Hundred Seventy Three Only	Each	39011 ✓
	Makes: Panasonic/Wipro/Havells					
9	Supplying and fixing following size SMC Junction box suitable for pole mounting arrangement etc. as required.					

9.1	SMC Junction box (230 x 170 x 105)	7	570.00	Rupees Five Hundred Seventy Only	Each	3990
	Makes: Sintex/Havells/ Schneider					
10	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.					
10.1	Armoured cable 6 sq. mm (Twin Core)	350	208.00	Rupees Two Hundred Eight Only	Each	72600
	Makes: Polycab/Havells/ Finolex					
	Total					223492

Schedule of quantity checked and approved for Rs. 223492-00 only

Executive Engineer
Electrical Division
HPPWB, Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Annual repair and comprehensive Maintenance contract of 1 No. 13 Passenger lift (Johnson make) in Administration Block of Rajeev Gandhi Govt. Engineering college Nagrota Bagwan in Distt. Kangra (HP). (MIC No. L-08066) for three years.

Job No. 31/32

ESTIMATED COST: Rs.4,83,594/-only.
EARNEST MONEY: Rs.9700/-only
TIME ALLOWED: Three Years

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Regular examination, lubrication and Adjustment of the equipment and planned maintenance in the systematic manner and replacement of parts as detailed below:-					
	(i) Renew all wires ropes and chain to maintain an adequate factor of safety, to equalize tension on all hoisting ropes, repair or replace conductor cables and hoist way and machine room elevator wiring.					
	(ii) Systematic examining and adjustment of following machine, worn gear, Thrust bearings Drives sheaves, Drive shelves bearings, brake contract, linings and components, Motor generator, motor, Motor generator, Motor windings, rotating elements, commutator, brushes brush holder, bearings, coils, resistance for operating and Motor circuit, magnet frames and other mechanical parts, controller, selector leveling, devices cams, relays, solid state components e.g PCB's transducers, resistance, condensers, power amplifier, transformers, contract, leads, dashpots timing devices, Steel selector tapes and mechanical and electrical driving equipment Governor, governor sheave, shaft assembly bearings and Governors jaws, cr and hall mechanical button, car and hall position indicators hall lanterns, car direction indicators and all other car and landings as installed bny OTIS. Deflector or secondary sheave, bearing, car counter weight and counterweight guide rails and buffers, top and button limit switches, Governor tension sheaves assembly, counter compensating sheaves assembly car, counter weight and counter overweight guide shows including rollers or gibs, interlock on Hoist way.					

(iii) Examine periodically all safety devices and governor and all customary safety test.					
(iv) The firm will provide emergency minor adjustment all back services 24 hours as all working days as well as holidays/ Sunday. The firm will maintain the lift in reliable and efficient operating connections.					
(v) Cost of lift attendant of Johnson company required on urgent basis during VVIP's visit on demand.					
(Machine No. L-08066)					
(i) For 1st Year. i.e. 2024-25	1	153400	Rupees One Lacs Fifty Three Thousand Four Hundred Only	Per Year	153400
(ii) For 2nd year. i.e. 2025-26	1	161070	Rupees One Lacs Sixty One Thousand Seventy Only	Per Year	161070
(iii) For 3rd year. i.e. 2026-27	1	169124	Rupees One Lacs Sixty Nine Thousand One Hundred Twenty Four Only	Per Year	169124
Total					483594

Schedule of quarterly check and approval for 183594000

Executive Engineer
Electrical Division
HPPWD, Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing wiring for AE residence converted to Superintending Engineer Office(B&R) (First Floor) at Dehra in Tehsil Dehra, Distt. Kangra(H.P.)

Job No **30**

ESTIMATED COST: Rs.1,97,927/-only.
EARNEST MONEY: Rs.4000/-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 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.					
i	Group C. Makes: Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus),L&T(Entice).	30	1202	Rupees One Thousand Two Hundred Two Only	P/Pt	36060
2	Wiring for Twin Control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with 2 Way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
i	Group C. Makes: Legrand(Myrius),Schlender(Livia),Anchor Roma(Plus),L&T(Entice).	1	1274	Rupees One Thousand Two Hundred Seventy Four Only	P/Pt	1274
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: KEI/Anchor/Finolex/GrandLay.	30	198	Rupees One Hundred Ninety Eight Only	P/Mtr	5940
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.					

1	2X2.5Sq.mm+1X2.5Sq.mm Earth wire	15	249	Rupees Two Hundred Forty Nine Only	P/Mtr	3735
	Makes: KEI/Anchor/Polycab/Grandlay.					
5	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required					
1	Makes: KEI/Anchor/Polycab/Grandlay.	25	311	Rupees Three Hundred Eleven Only	P/Mtr	7775
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.					
1	Makes: KEI/Anchor/Polycab/Grandlay.	15	524	Rupees Five Hundred Twenty Four Only	P/Mtr	7860
7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	20	432	Rupees Four Hundred Thirty Two Only	P/Mtr	8540
1	Makes: KEI/Anchor/Polycab/Grandlay.					
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					
1	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	1	571	Rupees Five Hundred Seventy One Only	P/Mtr	571
	Makes: KEI/Anchor/Polycab/Grandlay.					
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	40	100	Rupees One Hundred Only	P/Mtr	4000
ii	3X2.5Sq.mm	30	151	Rupees One Hundred Fifty One Only	P/Mtr	4530
iii	3X4Sq.mm	20	220	Rupees Two Hundred Twenty Only	P/Mtr	4400
	Makes: KEI/Anchor/Polycab/GrandLay.					
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	8	469	Rupees Four Hundred Sixty Nine Only	Each	3752
i	Makes: Legrand(Myntus),Schlender(Livia),Anchor Roma(Plus)					
11	Supplying and fixing suitable size GI box with modular plate and cover in FRL Sont on surface or in recess, including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc as required	5	621	Rupees Six Hundred Twenty One Only	Each	3105
i	Makes: Legrand(Myntus),Schlender(Livia),Anchor Roma(Plus)					
12	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3Nos 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc as required (For light plugs to be used in NR Buildings)					
i	12 Module (200mmX150mm)	4	1191	Rupees One Thousand One Hundred Ninety One Only	Each	4764
	Makes:- Legrand(Myntus),L&T(Oris),Anchor Roma(Plus),L&T(Entice).					
13	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(Myrius),Schneider(Livia),Anchor Roma(Plus),L&T(Entice).	1	705	Rupees Seven Hundred Five Only	Each	705
14	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.					
1	Single pole. Cat-A.	12	239	Rupees Two Hundred Thirty Nine Only	Each	2868
	Makes: L&T, Legrand,Schneider					
15	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
1	63 Amps. Cat-A.	2	530	Rupees Five Hundred Thirty Only	Each	1060
	Makes: L&T, Legrand,Schneider					
16	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
1	63 Amps. Cat-A.	2	3104	Rupees Three Thousand One Hundred Four Only	Each	6208
	Makes: L&T, Legrand,Schneider					
17	Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.	4	206	Rupees Two Hundred Six Only	Each	824
1	Makes: Anchor/Goldmeda/SSK					
18	Supplying and fixing batten/ angle holder including connection etc. as required.	2	88	Rupees Eighty Eight Only	Each	176
1	Makes: Anchor/Goldmeda/SSK					
19	Supplying and fixing Fan Regulator on the existing switch box including connection etc. as required.	3	728	Rupees Seven Hundred Twenty Eight Only	Each	2184
1	Makes: L&T/Legrand/Schneider.					

20	Supplying and fixing LED bulb 0.5 Watts on the existing batten holder as required complete in all respects.	2	45	Rupees Forty Five Only	Each	90
i	Makes: Anchor/Goldmedal,Havells.					
21	Supplying and fixing of LED Baton/LED Mirror Light 10Watts, 6500K (Five YEAR WARRANTY) and it should be compatible with specification e.i Power Factor > 9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required of Approved Makes.(Including 5 Years Warranty).					
i	LED Mirror Light 10Watts	1	224	Rupees Two Hundred Twenty Four Only	Each	224
	Makes:-Havells,Wipro,Bajaj.					
22	Providing and Fixing of IP20 LED fixture of 18 watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing,pressure die cast heat sink and P.F.>0.95 with THD<10% ,CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. with 5 year warranty					
i	LED Round Downlighter (Surface) 18Watts	6	1821	Rupees One Thousand Eight Hundred Twenty One Only	Each	10926
ii	Makes:-Wipro,Bajaj & Panasonic.					

23	Providing and Fixing of 1200 mm X 300 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 with Useful life of 50000 Hrs at L70. 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 with 5 year warranty					
i	LED Panel 4'x1' 36 watt	2	3964	Rupees Three Thousand Nine Hundred Sixty Four Only	Each	7928
ii	Makes:Wipro,Bajaj & Panasonic.					
24	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 & commissioning etc.as required complete in all respects, with 5 year warranty					
i	LED 10 Watt Bulk Head	2	1420	Rupees One Thousand Four Hundred Twenty Only	Each	2840
ii	Makes:Wipro,Bajaj & Panasonic.					
25	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					

i	LED Tube Light 18 Watts	4	867	Rupees Eight Hundred Sixty Seven Only	Each	3468
ii	Makes: Wipro, Bajaj & Havells. 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.					
26						
i	Wall fan 400mm Sweep	4	3041	Rupees Three Thousand Forty One Only	Each	12164
ii	Makes: Usha, Bajaj & Cromptons. 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.					
27						
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2	2567	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	5134
ii	Makes: Usha/AEROCLEAN PLUS DBB, Bajaj, Crompton Supplying and fixing of following way triple pole and neutral, sheet steel MCB distribution board, 415 volts, on surface / recess, with provision to mount 4 pole MCB incomer, 2 module sub-incomer and SP MCBs as outgoing, complete with tinned copper bus-bar, wire-sets, neutral link, earth bar, din-bar, detachable gland plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.					
28						
i	Double door 2+12 way (MCB+6+36) module.	1	13628	Rupees Thirteen Thousand Six Hundred Twenty Eight Only	Each	13628
	Makes: L&T, Legrand, Schneider					


29	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.					
i	100 A - 125A 18 KA	1	6868	Rupees Six Thousand Eight Hundred Sixty Eight Only	Each	6868
	Makes: L&T, Legrand, Schneider					
30	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1	18856	Rupees Eighteen Thousand Eight Hundred Fifty Six Only	P/Set	18856
31	Providing and fixing 4mm dia Cu wire on surface or in recess for loop earthing as required.	30	179	Rupees One Hundred Seventy Nine Only	P/Mtr	5370
	Total					197927
The Dismantal metrial deducted from the contractor that is Rs.1315/- in the Final will.						

Sechedule Quantity checked and Approved for Rs 197927/- only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of old accessory to modular accessory, LED fittings, exhaust fan, ceiling fan etc. at Court Complex building and Civil Judge -cum- JMFC residence, Indora, Distt Kangra (HP).

Job No 

ESTIMATED COST: Rs. 1,67,520/-only.
EARNEST MONEY: Rs. 3400/-only
TIME ALLOWED: One year

	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make: KEI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&T(Entice).					
i) Group B.		5	1522.00	Rupees One Thousand Five Hundred Twenty Two Only	Per Point	7610
2	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&T(Entice).	6	601.00	Rupees Six Hundred One Only	each	3606
3	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: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&T(Entice).	3	769.00	Rupees Seven Hundred Sixty Nine Only	each	2307
4	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Finolex/Anchor.	40	484.00	Rupees Four Hundred Eighty Four Only	Per Meter	19360

5	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Finolex/Anchor.	25	767.00	Rupees Seven Hundred Sixty Seven Only	Per Meter	19175
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Finolex/Anchor.					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	22	346.00	Rupees Three Hundred Forty Six Only	Per Meter	7612
ii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	8	808.00	Rupees Eight Hundred Eight Only	Per Meter	6464
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. Make: KEI/Finolex/Anchor.					
i)	3 x 1.5 sq. mm	20	112.00	Rupees One Hundred Twelve Only	Per Meter	2240
8	Supplying and fixing PVC batten/angle holder including connection etc. as required. Make :-GoldMedal/SSK/Anchor	3	99.00	Rupees Ninety Nine Only	each	297
9	Providing, installation, testing and commissioning of ceiling fan BLDC ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i)	Ceiling Fan 1200 mm sweep (Make: Usha, Model: Technix Plus)/Bajaj(Model: Sabse Tez Kassels)/Crompton(Model: WWHE).	1	4397.00	Rupees Four Thousand Three Hundred Ninety Seven Only	Each	4397

10	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.				
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD/Bajaj (Model: Freshnee)/Anchor (Model: Anmol).	3	2309.00	Rupees Two Thousand Three Hundred Nine Only	Each 6927
11	Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy ≥ 110 lm/W with Aluminium housing P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..				
	LED Batten 20W, 4 feet long (Make: Jaquar, cat no. LGLZ01X020XC)/Bajaj/Panasonic.	18	574.00	Rupees Five Hundred Seventy Four Only	Each 10332
12	Providing and installation of Back Light (Non slim model)15 W +/- 1 W LED round Surface/recess Mounted Downlighter with minimum system lumen efficacy of ≥ 110 lm/W with and P.F.>0.95 with THD<10% ,CCT 5700 K,CRI 80.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V , 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.				
	LED Down Light 15 watt, (Make: Jaquar Cat no. LNRP02R015SC/Bajaj/Crompton.	11	882.00	Rupees Eight Hundred Eighty Two Only	Each 9702

13	Supplying and fixing of LED wall Bracket having luminous flux 150 lumens, colour temp. 3000K, 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 220-240V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respect, with 5- years warranty Make- Havells/Philips/Jaques.					
	LED Wall Bracket 9W (Make: Havells cat no. LHFOFUE1T71W012)/ Philips/Jaques.	8	812.00	Rupees Eight Hundred Twelve Only	Each	6496
14	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 110 Lumens per watt, CRI rating > 70 with 5- years warranty, suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. Make:-Jaques/Bajaj/Panasonic.					
	Mirror light 10 Watt, 2 Feet Long Surface Mounted (at par with (Make: Jaques, cat no. LGLZ01X010XC)/Bajaj/Panasonic.	2	473.00	Rupees Four Hundred Seventy Three Only	each	946
15	Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy \geq 110lm/W with CRCA Housing and PMMA Diffuser with P.F.>0.95, THD<10%, CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70, with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects..					
	LED Panel Light 36 watt '1'x4' . (Make: Bajaj, Cat no. BZSSL136L LED WH 1W/pro/Panasonic).	4	6754.00	Rupees Six Thousand Seven Hundred Fifty Four Only	Each	27016

16	Providing and fixing of LED 20 watt street light luminaries of Havells having cat No. LHEXAYP7PN6K020, powder coated pressure die-cast aluminium heat sink and toughened glass SMD LED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 110 Lumens per watt, CRI rating > 70 with 5-years warranty, suitable for input voltage: AC 220-240 V, 50 Hz with all accessories, connections, testing and commissioning etc. as required. Make:- Havells/Bajaj/Jaquar.					
1)	LED Street Light 20 W (Make:- Havells Cat no. LHEXAYP7PN6K020)/Bajaj/Jaquar.	1	1616.00	Rupees One Thousand Six Hundred Sixteen Only	Each	1616
17	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:- Make:- Tata/Jindal/Surya	1	814.00	Rupees Eight Hundred Fourteen Only	Each	814
18	Supplying & fixing following size modular base and cover plate on the existing modular metal boxes as required:- Make :- L&T/Anchor/Schenider					
18.1	Modular base and cover plate, 3 module	6	90	Rupees Ninety Only	Each	540
18.2	Modular base and cover plate, 4 module	1	110	Rupees One Hundred Ten Only	Each	110
18.3	Modular base and cover plate, 6 module	15	130	Rupees One Hundred Thirty Only	Each	1950
18.4	Modular base and cover plate, 8 module	2	180	Rupees One Hundred Eighty Only	Each	360
18.5	Modular base and cover plate, 18 module	7	290	Rupees Two Hundred Ninety Only	Each	2030
	Supplying & fixing Modular blanking plate on the existing modular metal box as required:- Make :- L&T/Anchor/Schenider	6	20	Rupees Twenty Only	Each	120

19	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. Make :- L&T/Anchor/Schneider					
19.1	S.P. 5/ 6 Amps one way Modular switch.	60	30.00	Rupees Thirty Only	Each	1800
19.2	5 pin, 5/ 6 Amps Modular socket outlet.	24	85.00	Rupees Eighty Five Only	Each	2040
19.3	S.P. 15/ 16 Amps one way Modular switch.	12	130.00	Rupees One Hundred Thirty Only	Each	1560
19.4	6 pin, 15/16 Amps Modular socket outlet.	12	180.00	Rupees One Hundred Eighty Only	Each	2160
19.5	S.P. 5/ 6 Amps two way Modular switch.	2	105.00	Rupees One Hundred Five Only	Each	210
19.6	Bell push, Modular.	1	150.00	Rupees One Hundred Fifty Only	Each	150
19.7	2 pin Modular Socket	2	90.00	Rupees Ninety Only	Each	180
20	Supplying and fixing stepped type Modular fan regulator on the existing modular box including making connections etc. as required. Make :- L&T/Legrand/Schneider	7	465.00	Rupees Four Hundred Sixty Five Only	Each	3255
21	Supplying and fixing 2C PVC wire 10 sq. mm. including making connections etc. as required.	55	40.00	Rupees Forty Only	Per Meter	2200
22	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	Single pole (Make:- Schneider/ Legrand/L&T)	11	272.00	Rupees Two Hundred Seventy Two Only	Each	2992
23	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					

i)	63 Amps. (Make:- Schneider/ Legrand/L&T)	2	623.00	Rupees Six Hundred Twenty Three Only	Each	1246
24	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	63 Amps. (Make:- Schneider/ Legrand/L&T)	2	3625.00	Rupees Three Thousand Six Hundred Twenty Five Only	Each	7250
25	Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect	3	150.00	Rupees One Hundred Fifty Only	each	450
	Total					167520
	The Dismental metrial deducted from the contractor that is Rs. 1400/- in the Final will					

Schedule of quantity checked and approved for Rs. 167520 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing replacement of E.I. to Civil Judge-cum-JMFC at Indora, LED fittings etc. to Civil Judge-cum-JMFC residence (No. II) and providing of DG supply to Additional District and Sessions Court at Nurpur, Distt. Kangra (HP)

Job No
34

ESTIMATED COST: Rs. 99,737/-only.
EARNEST MONEY: Rs.2000/-only
TIME ALLOWED: Two Years

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel conduit including earthing the light point with 1.5sq.mm. HRFRLS/PVC insulated single core copper conductor cable including dismantling as required (including switch & bakelite sheet etc.) Make: KEI/Polycab/GrandLay/ Anchor (Roma Penta/ Havells/Reo)/SSK					
1)	Group C. Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLS/Sort including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). Make: KEI/Polycab/GrandLay/ Anchor (Roma Penta/ Havells/Reo)/SSK	6	831.00	Rupees Eight Hundred Thirty One Only	Per Point	4986
2	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required. Make: KEI/Polycab/ GrandLay/Anchor (Roma Penta/ Havells/Reo)/SSK	2	300.00	Rupees Three Hundred Only	each	600
3	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required. Make: KEI/Polycab/ GrandLay/Anchor (Roma Penta/ Havells/Reo)/SSK	2	494.00	Rupees Four Hundred Ninety Four Only	each	988

4	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Polycab/Anchor/GrandLay	22	478.00	Rupees Four Hundred Seventy Eight Only	Per Meter	10516
5	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor/SCI.	15	761.00	Rupees Seven Hundred Sixty One Only	Per Meter	11415
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Polycab/Anchor/GrandLay					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	58	340.00	Rupees Three Hundred Forty Only	Per Meter	19720
ii)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	10	401.00	Rupees Four Hundred One Only	Per Meter	4010
iii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	5	800.00	Rupees Eight Hundred Only	Per Meter	4000
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. Make: KEI/Polycab/Anchor/GrandLay					
i)	3 x 1.5 sq. mm	18	112.00	Rupees One Hundred Twelve Only	Per Meter	2016
8	Supplying and fixing bakelite batten/angle holder including connections etc. as required.- Make: Anchor/Gold Medal/SSK	2	105.00	Rupees One Hundred Five Only	each	210
9	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) 225 mm sweep (Make: Usha, Model: Aeroclean LD/Bajaj (Model: Freshlee)/Crompton	1	1964.00	Rupees One Thousand Nine Hundred Sixty Four Only	Each	1964
10	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 110 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:-Jaquar/Bajaj/Panasonic.					
i)	Mirror light 10 Watt, 2 Feet Long Surface Mounted (at par with (Make: Jaquar, cat no. LGLZ01X010XC)/Bajaj/Panasonic.	2	470.00	Rupees Four Hundred Seventy Only	each	940
11	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (Make: Sidharth/BEC)					
i)	25 mm. dia	4	270.00	Rupees Two Hundred Seventy Only	Per Meter	1080
12	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. - (Make: BEC Plast/Anchor/Polyfit) -					
i)	25 mm. dia	4	116.00	Rupees One Hundred Sixteen Only	Per Meter	464
13	Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect. Make:- OSRAM/Philips/Bajaj	2	150.00	Rupees One Hundred Fifty Only	each	300

14	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as require (Make:- KEI Polycab/Havells/Grandlay).					
	Armoured cable 6 sq. mm (Twin core)	19	480.00	Rupees Four Hundred Eighty Only	Per R.Mtr.	9120
15	Providing and fixing following rating, two pole, 240 volts, On- Load change over switch unit, in sheet steel enclosure, with side handle operation, including drilling holes on the board, making connections, etc. as required. Make :- L&T/Legrand/Schenlder					
i)	32 A DP, On Load Change over switch (SS Enclosure type)	1	2800.00	Rupees Two Thousand Eight Hundred Only	each	2800
16	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, unarmoured cable, working voltage 1100 volts grade on surface etc. of the required size:-Make :- KEI/Havells/Polycab					
i)	Unarmoured cable 10 sq. mm (twin core)	90	50.00	Rupees Fifty Only	Per R.Mtr.	4500
17	Providing and fixing of following sizes of PVC casing and capping on surface as required:-Make:- PolyFit/Deplast					
i)	20 mmx 12 mm	2	30.00	Rupees Thirty Only	Per meter	60
18	Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No./ordering code LSTS-20-CDL-M, powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, including connection, testing and commissioning etc. as required. with 5 year warranty.					

i)	Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M)/Bajaj/Wipro	4	1905.00	Rupees One Thousand Nine Hundred Five Only	each	7620
19	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:-					
i)	40 mm dia. G.I. pipe, heavy class	4	801.00	Rupees Eight Hundred One Only	each	3204
20	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required, with 5 year warranty.					
i)	LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro	2	764.00	Rupees Seven Hundred Sixty Four Only	each	1528
21	Supplying and fixing following plano type switch/ socket on the existing switch box/ cover including connections etc. as required. Make :- Anchor/L&T/LeGrand					
i)	15/16 amps switch	2	138.00	Rupees One Hundred Thirty Eight Only	each	276
ii)	3 pin 5/6 amps socket outlet	2	45.00	Rupees Forty Five Only	each	90
iii)	6 pin 15/16 amps socket outlet	2	149.00	Rupees One Hundred Forty Nine Only	each	298

22	Providing and erection of LED Post Top 20 watt Street light luminaires powder coated pressure die-cast aluminium with heat resistant toughened glass including connections, testing and commissioning etc. as required. Twinkle/K-Lite					
i)	LED Post Top light - 20 watt (Moon Opal, 250), Make:- Havells (Cat. No. LHFXBON1TN5Q020) / Twinkle/K-Lite	4	1343.00	Rupees One Thousand Three Hundred Forty Three Only	each	5372
23	Providing and fixing LED Bulb 20 watt, B22 base in the existing fixture as required complete in all respect. Make:- Philips/Bajaj/Havells	4	415.00	Rupees Four Hundred Fifteen Only	each	1660
	Total					99737

Schedule of Quantity checked and approved for R.S 99737-1 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing and fixing Split type 1.5 Ton Air Conditioner (Hot & Cold type) in the office of Assistant Director Fisheries, Division Pong Dam in Tehsil Fatehpur Distt. Kangra HP.

Job No
35

ESTIMATED COST: Rs.2,48,597/-only.
EARNEST MONEY: Rs.5000/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.0	Supplying, installation, testing and commissioning of 1.5 Ton (Hot & Cold) 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 as required complete in all respects.					
i)	A.C. Unit 1.5 Ton capacity					
	Makes: Daikin 1.5 Ton (Hot & Cold) Inverter Split type (Model No. : FTHT50, 3 star/Mitsubishi/Voltas	3	56857	Rupees Fifty Six Thousand Eight Hundred Fifty Seven Only	Each	170571
2.0	S/F wall mounting voltage stabilizer 4 KVA (Whirlpool make) automatic type with output 240 Volts with voltage regulator range from 130 volts to 280 volts and Auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity Split AC making connections etc. as required.					
i)	Make: Whirlpool (CAT No. WPLM 1340S Digital 12 Amp, 130 to 280 Volty/ Voltas/V-Guard.	3	5327	Rupees Five Thousand Three Hundred Twenty Seven Only	Each	15981
3.0	P/F of M.S out door heavy duty stand powder coated suitable to hang 1.5/2 TR split A.C with six Nos. Anchor bolts as required complete in all respects and as per direction of Engineer - in-charge.	3	950	Rupees Nine Hundred Fifty Only	Each	2850
4.0	S/F of Copper tube (1/4"X 1/2") with insulation for A.C 1.5 TR capacity complete in all respects as required.	15	1250	Rupees One Thousand Two Hundred Fifty Only	p/Mtr.	18750

5.00	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. - (Make: BEC Plas/Anchor)					
(i)	25 mm. dia					
6.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC Insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required. Make: KEI/Polycab/Anchor/GrandLay	17	99	Rupees Ninety Nine Only	P/Mtr.	1683
i)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	40	311	Rupees Three Hundred Eleven Only	P/Mtr.	12440
7.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC Insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required. Make: KEI/Polycab/Anchor/GrandLay					
i)	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	25	524	Rupees Five Hundred Twenty Four Only	P/Mtr.	13100
8.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC Insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required. Make: KEI/Polycab/Anchor/GrandLay					
i)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	15	432	Rupees Four Hundred Thirty Two Only	P/Mtr.	6480

9.00	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.					
(i)	Single pole (Make:- Schneider/ Legrand/L&T)	3	239.00	Rupees Two Hundred Thirty Nine Only	each	717
10.00	Supplying and fixing following rating, double pole, 240 V, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
(i)	63 Amps. (Make:- Schneider/ Legrand/L&T)	2	530.00	Rupees Five Hundred Thirty Only	each	1060
11.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
(i)	Double door-4 way (Make:- Schneider/ Legrand/L&T)	2	1425	Rupees One Thousand Four Hundred Twenty Five Only	each	2850
12.00	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Livit)/ Legrand (Myrius)/L&T(Entice).	3	705.00	Rupees Seven Hundred Five Only	each	2115
Total						248597

Schedule of Quantity checked and approved for 248 SAN-0108

Executive Engineer
Electrical Division
HPPWD, Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing & Fixing Power wiring , geyser , Exhaust fan etc. in in OT Room (3rd Floor) in Additional Block in Civil Hospital at palampur Tehsil Palampur in Distt. Kangra (HP)			Job No 36		ESTIMATED COST: Rs.2,70,950/-only. EARNEST MONEY: Rs.5500/-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 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	14	1588	Rupees One Thousand Five Hundred Eighty Eight Only	Per point	22232
	Havells/KEI/Phinolex 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.	40	395	Rupees Three Hundred Ninety Five Only	P/Mtr.	15800
	Havells/KEI/Phinolex 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.	32	703	Rupees Seven Hundred Three Only	P/Mtr.	22496
	Havells/KEI/Phinolex 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					
1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	25	332	Rupees Three Hundred Thirty Two Only	P/Mtr.	8300

11	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	3	698	Rupees Six Hundred Ninety Six Only	P/Mtr.	2089
	Havells/KEI/Phinolex 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					
1	3x2.5 sq mm	26	151	Rupees One Hundred Fifty One Only	P/Mtr.	3926
	Havells/KEI/Phinolex make					
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
1	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	72	1197	Rupees One Thousand One Hundred Ninety Seven Only	P/Mtr.	86184
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	11	469	Rupees Four Hundred Sixty Nine Only	Each.	5159
	Make :- Schenider/L&T/Legrand					
8	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.	9	621	Rupees Six Hundred Twenty One Only	Each.	5589
	Make :- Schenider/L&T/Legrand					
9	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					

1	Ceiling Fan 1200 mm sweep, Category-A	1	4323	Rupees Four Thousand Three Hundred Twenty Three Only	Each	4323
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 5 Star,Philips,Bajaj					
10	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	8	2267	Rupees Two Thousand Two Hundred Sixty Seven Only	Each	18136
	Make:- Usha/Bajaj/Havells					
11	Providing and installation of LED fixture 12 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F ≥ 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.					
1	LED Surface mounting round downlighter 12 watt	2	1412	Rupees One Thousand Four Hundred Twelve Only	Each	2824
	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Bajaj					
12	Providing and fixing following raling 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 amps 18 k	1	6868	Rupees Six Thousand Eight Hundred Sixty Eight Only	Each	6868

13	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	2055	Rupees Two Thousand Fifty Five Only	Each	2055
	L&T/Legrand/Schneider make					
14	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	239	Rupees Two Hundred Thirty Nine Only	Each	956
II	16 Amp Single pole. Cat-A.	6	239	Rupees Two Hundred Thirty Nine Only	Each	1434
	L&T/Legrand/Schneider make					
15	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
I	63 Amps. Cat-A.	1	530	Rupees Five Hundred Thirty Only	Each	530
	L&T/Legrand/Schneider make					
16	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					

1	63 Amps. Cat-A.	1	3104	Rupees Three Thousand One Hundred Four Only	Each	3104
	L&T/Legrand/Schneider make					
17	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required:-					
1	25 Liter capacity water heater (Cat-A)	1	12806	Rupees Twelve Thousand Eight Hundred Six Only	Each	12806
	Make :- Bajaj / Crompton/Usha					
18	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.	60	769	Rupees Seven Hundred Sixty Nine Only	P/Mtr.	46140
1	Armoured cable 50 sq. mm (3.5 core)					
	Make :- Havells/ KEI/ Phinolex					
	Total					270950

Schedule of Quantity checked and Approved for Rs 270950/- only.

Executive Engineer
Electrical Division
HPPW, Palampur