

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2024-25/- 3430-38

Dated: 26-9-2024

To

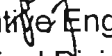
The Executive Engineer (IT Cell),
Nigam Vihar, Shimla-2.

Subject: Publishing of Tender Notice.

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


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

DA/NIT,SQs


Executive Engineer
Electrical Division
HP PWD Palampur

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

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


Executive Engineer
Electrical Division
HP PWD Palampur

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

"Notice Inviting Tenders"

Sealed item 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 **09-10-2024** 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 **08-10-2024** up to 4.00 P.M. and the application for issue of tender form shall be received on **07-10-2024** 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	Replacement of defective spare parts of High Mast into new one Bus Stand at Patti Bharmour in Tehsil Bharmour Distt. Chamba (H.P).	194262/-	3900/-	Two Months	8	350/-
2	Providing replacement of wiring to Assistant Fisheries Department at Pong Dam in Tehsil Fatehpur Distt. Kangra (HP).	178968/-	3600/-	Three Months	8	350/-
3	C/O Health Sub Center Building with residence at Nagal in Tehsil Fatehpur, Distt. Kangra,(HP) (SH:- Providing E.I. therein)	292292/-	5900/-	Two Years	8	350/-
4	Supplying, Installation, Testing and Commissioning of Adhar enabled Biometric Machines in SE 2 nd Electrical Circle and All Electrical Sub Division HPPWD under control of Executive Engineer Electrical Division HPPWD Palampur.	397992/-	8000/-	Three Months	8	350/-
5	Repair & Maintenance of 01 No. 250 KVA D.G. Set installed in Auditorium Building Dr. RPGMC Tanda for the year 2024-25.	239337/-	4800/-	One Year	8	350/-
6	Repair and Maintenance of 01 No. 5 KVA D.G. Set installed in Judicial Court Complex at Kangra in Distt. Kangra (H.P) for three years i.e. 2024-25 to 2026-27	120362/-	2500/-	Three Year	8	350/-

7	Construction of Government Veterinary Dispensary Building at Lilh Tehsil Bharmour Distt. Chamba (H.P)(SH:- Providing E.I. therein).	75364/-	1600/-	Six Months	8	350/-
8	Repair and Maintenance of Mini-Secretariat Building at Dehra in Tehsil Dehra Distt. Kangra (H.P)(SH:-Providing E.I. in CM Office herein).	499266/-	10000/-	Two Months	8	350/-
9	Construction of Veterinary Dispensary Building at Annanahar in Tehsil Bharmour Distt. Chamba (H.P)(SH:- Providing E.I. therein).	113777/-	2300/-	One Year	8	350/-
10	Strengthening of Existing infrastructure of 4 Nos. Class Room Govt. Sr. Sec. School Building at Lyh in Tehsil Bharmour and District Chamba (H.P).Under RMSA (SH:- Providing E.I. in 4 No. Classroom, Store, Verandah i.e Stair case.).	273343/-	5500/-	One Year	8	350/-
11	C/O 4 Nos.Class Room Govt. Middle School Building at Sehli in Tehsil Bharmour and Distt. Chamba (H.P).Under RMSA (SH:- Providing E.I. in 4 No. Classroom, Verandah i.e. Stair case.)	168493/-	3400/-	One Year	8	350/-
12	Construction of Government High School building at Siyur in Tehsil Bharmour Distt. Chamba (H.P)(SH:- Providing E.I. therein Two Nos. Class Room, Verandah in Ground Floor and Two Nos. Class Room, Verandah in First Floor).	160596/-	3300/-	One Year	8	350/-

HIM SUCHNA AVAM JAN SAMPARK VIBHA

SCHEDULE OF QUANTITY

NAME OF WORK :-Replacement of defective spare parts of High Mast into new one Bus Stand at Patti Bharmour in Tehsil Bharmour Distt.Chamba (H.P.)		Job No 1		ESTIMATED COST: Rs. 1,94,262/-only. EARNEST MONEY: Rs. 3900/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and installation of Spare Parts 12.5 Metre High Mast including making good the damages, connections, testing and commissioning etc. as required: of Approved Make- Panasonic/Bajaj	1	178572.00	Rupees One Lacs Seventy Eight Thousand Five Hundred Seventy Two Only	each	178572
i	Winch and Rope -1No.					
ii	Led 200w Light (Set of 9 Light)					
iii	1HP Motor - 1No.					
2	Supplying and drawing copper conductor, multicore cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Finolex/Anchor/SCI/Grandlay					
i)	3 core x 1.5 sq. mm	30	97.00	Rupees Ninety Seven Only	Per mtr.	2910
3	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, unarmoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- Make: KEI/Finolex/Anchor/SCI/Grandlay					
i)	Armoured cable 25 sq. mm (3.5 core)	30	426.00	Rupees Four Hundred Twenty Six Only	Per mtr.	12780
	Total					194262
The Dismantal metrial deducted from the contractor that is Rs. 1030/- in the Final will						

Schedule of quantity checked and approved for ₹ 194262 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing replacement of wiring to Assistant Director Fisheries Department at Pong Dam in Teh- Fatehpur, Distt- Kangra (HP).					ESTIMATED COST: Rs. 1,78,968/-only. EARNEST MONEY: Rs. 3600/-only TIME ALLOWED: Three Months		
					Job No. 2		
Sr. No.		DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
				FIGURE S	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 PVC casing & capping and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. Make:- Legrand(Myrius), L&T(Oris), Havells(Roma Plus)					
Group C.			88 ✓	362	Rupees Three Hundred Sixty Two Only	Point	31856 ✓
2		Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make:- Legrand(Myrius), L&T(Oris), Havells(Roma Plus)	70 ✓	117 ✓	Rupees One Hundred Seventeen Only	Meter	8190 ✓
3		Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	40 ✓	220 ✓	Rupees Two Hundred Twenty Only	Meter	8800 ✓
4		Wiring for circuit / sub-main with 4x10 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.10 Sq.mm. (4x10+2x10) HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	5 ✓	512 ✓	Rupees Five Hundred Twelve Only	Meter	2560 ✓

5	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 PVC casing & capping along with 1 No.HRRFR/S/PVC insulated single core copper conductor cable of same size for earthing as required. Make:- Legrand(Myrius), L&T(Oris), Havells(Roma Plus)					
i)	2x2.5 Sq. mm.	160 ✓	87 ✓	Rupees Eighty Seven Only	Meter	13920 ✓
ii)	2x10 Sq. mm.	40 ✓	253 ✓	Rupees Two Hundred Fifty Three Only	Meter	10120 ✓
6	Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required. (Make:- Legrand (Myrius), L&T(Oris), Havells (Roma Plus)					
i)	S.P. 5/ 6 Amps one way switch, piano type.	12 ✓	23 ✓	Rupees Twenty Three Only	each	276 ✓
ii)	5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.	12 ✓	31 ✓	Rupees Thirty One Only	each	372 ✓
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required.	24 ✓	189 ✓	Rupees One Hundred Eighty Nine Only	each	4536 ✓
8	Supplying and fixing electrical switch board having 4 no's of 5 Amps. Switches and sockets on suitable size metal box of 200mm x100mm deep (nominal size) on surface or in recess with suitable size phenolic laminated sheet cover in the front I/O providing and fixing 4 nos. 5 pin 5/6 amp. socket outlet and piano type switch, connection, painting etc as required.	7 ✓	447 ✓	Rupees Four Hundred Forty Seven Only	each	3129 ✓
9	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.					
i)	3x1.5 Sq. mm.	60 ✓	51 ✓	Rupees Fifty One Only	Meter	3060 ✓

10	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: Legrand, L&T, Schneider.					
	Single pole, Cat-A.	41	153	Rupees One Hundred Fifty Three Only	each	6273
11	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: Legrand, L&T, Schneider.					
	40 Amps. Cat-A.	2	323	Rupees Three Hundred Twenty Three Only	each	646
12	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: Legrand, L&T, Schneider.	1	402	Rupees Four Hundred Two Only	each	402
13	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required Make: Legrand, L&T, Schneider.	2	1940	Rupees One Thousand Nine Hundred Forty Only	each	3680
	40 Amps. Cat-A.	1	2225	Rupees Two Thousand Two Hundred Twenty Five Only	each	2225
	63 Amps. Cat-A.					
	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: Legrand, L&T, Schneider.	1	899	Rupees Eight Hundred Ninety Nine Only	each	899
	Double door-8 way					

ii)	Double door-16 way	3	1299	Rupees One Thousand Two Hundred Ninety Nine Only	each	3897
14	Earthing with G.I earth pipe 4.5 mtr. long and 40mm dia, 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	2679	Rupees Two Thousand Six Hundred Seventy Nine Only	Set	2679
15	Extra for using salt and charcoal for pipe earth electrode complete as required.	1	904	Rupees Nine Hundred Four Only	Set	904
16	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor. including soldering etc. as required.	60	24	Rupees Twenty Four Only	Meter	1440
17	Providing and fixing of LED 36 watt street light luminaries of Jaquar having cat No. LSRT01S036XC, powder coated pressure die-cast aluminium heat sink and toughened glass SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion < 20% and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, including P/F GI pipe 35 mm dia bracket bended to give an angle of 100 to 110 degree fitted with nuts and bolts i/c painting the pipe with two coats of approved paint over priming coat complete with all accessories, connections, testing and commissioning etc. as required. Make:- Jaquar, Panasonic, Philips, Bajaj, or any other approved by Engineer-In-Charge.					
	Street light fixture 36 watt LED with toughened Glass cover , Make Jaquar (Cat No. LSRT01S036XC) , 5700K	3	2852	Rupees Two Thousand Eight Hundred Fifty Two Only	each	8556
18	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- Make: Usha/Bajaj/Philips					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	4	1457	Rupees One Thousand Four Hundred Fifty Seven Only	each	5828

19	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 > 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. Make: Jaquar, Panasonic, Philips or any other approved by Engineer-in-charge.					
	LED Batten 24W, 4 feet long (at par with Jaquar Cat no. LGLZ01X024XN)	18	586	Rupees Five Hundred Eighty Six Only	each	10548
20	Providing and Fixing Following type of LED Wall bracket light coated CRCA Sheet steel housing, diffuser to avoid glare, with specifications 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, prewired with starter trigger circuit, surge protection circuit including S/F of LED bulb 10 watt B22 base complete in all respect with all accessories, connections, testing and commissioning etc. as required.					
	Wall Light 9 W x1 LED					
	Makes:- Havells, Jaquar, Philips {at par with Havells cat no. LHOFUE1TZ1W012}	9	683	Rupees Six Hundred Eighty Three Only	each	6147
21	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	23	32	Rupees Thirty Two Only	each	736
	Providing and fixing LED Bulb 9 watt, B22 base CDL in the existing fixture as required complete in all respect (Havells cat no. LHLDEUEEML8R009)	23	150	Rupees One Hundred Fifty Only	each	3450
	Make:- Havells, Jaquar, Philips or any other approved by Engineer-in-charge.					
	Supplying and fixing call bell / buzzer, suitable for D.C./A.C. single phase, 230 volts complete as required:-	3	68	Rupees Sixty Eight Only	each	204
22	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1	143	Rupees One Hundred Forty Three Only	each	143

23	Supplying and erection of wall mounted metal boards for switch gear mounting of suitable size, with permissible variation in size of plus minus 5mm, welded frame work made of M.S. angle iron (50 mm x 50 mm x 6 mm thick) with sufficient numbers of horizontal and vertical intermediate members (25mm x 6mm thick) flat iron including painting and bonding to the existing earth as required:-	0.5	1410	Rupees One Thousand Four Hundred Ten Only	Sq. mtr.	705
24	Providing and fixing TP&N switch disconnector fuse unit cubical type, 415/500 volts with 3 No. HBC/HRC fuses, in sheet steel enclosure including drilling holes on the board, connections, earthing the body etc. as required. Make: Legrand, L&T, Schneider.					
	63 Amp. Category-A	1	4140	Rupees Four Thousand One Hundred Forty Only	each	4140
25	Supplying and fixing sheet metal bus-bar chamber suitable for 63 Amp. 415 volts capacity with 4 No. copper strip bus-bars each of length 300mm & cross-sectional area (16mmx3.17mm), enclosure made from 1.6 mm thick M.S. sheet having overall dimensions (380mmx350mmx150mm) nominal with all accessories including connections, earthing the body etc. as required:-	1	1301	Rupees One Thousand Three Hundred One Only	each	1301
26	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/Bajaj/Crompton					
	25 Liter capacity water heater (Cat-A)	2	8083	Rupees Eight Thousand Eighty Three Only	each	16166
27	Supplying & fixing following type of Circular type Surface mounted luminaires, white powder 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.					
	LED Downlighter 12 watt, (Make: Jaquar)	12	814	Rupees Eight Hundred Fourteen Only	each	9768

	Makes:-Jaquar, Panasonic, Bajaj, (at par with Jaquar cat no. LNRO02R012SN)					
28	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 > 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. Make: Jaquar, Panasonic, Bajaj, Philips or any other approved by Engineer-in-charge.					
	LED Mirror Light 10 Watt, 2 feet long (at par with Jaquar Cat no. LGLZ01X010XN)	3	404	Rupees Four Hundred Four Only	each	1212
	Total					178968-

NOTE:- Less Credit of useful dismantled material Rs. 2600/- Only may be deducted from the final bill of the contractor.

Schedule of quantity checked and approved for Rs. 178,968-00 (only)

Executive Engineer
Electrical Division
HP PWD, Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- C/O Health Sub Center Building with residence at Nagal in Tehsil Fatehpur, Distt. Kangra (H.P.) (SH:- Prov. E.I. therein).			Job No 3		ESTIMATED COST: Rs.2,92,292/-only. EARNEST MONEY: Rs.5900/-only TIME ALLOWED: Two Years	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/SCI/ Anchor (Roma Penta)/ Havells(Reo)/SSK/SCI	16	1101.00	Rupees One Thousand One Hundred One Only	Per Point	17616
i)	Group A.	27	1712.00	Rupees One Thousand Seven Hundred Twelve Only	Per Point	46224
ii)	Group C.					
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, 2 way 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: Plaza/KEI/Polycab/SCI/ Anchor (Roma Penta)/ Havells(Reo)/SSK					
i)	Twin Control	1	1735.00	Rupees One Thousand Seven Hundred Thirty Five Only	Per Point	1735

3	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK	8	290.00	Rupees Two Hundred Ninety Only	each	2320 ✓
4	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK	9 ✓	485.00	Rupees Four Hundred Eighty Five Only	each	4365 ✓
5	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 (Livia)/ Legrand (Myrius)/L&T(Entice).	1 ✓	775.00	Rupees Seven Hundred Seventy Five Only	each	775 ✓
6	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor/SCI.	82 ✓	473.00	Rupees Four Hundred Seventy Three Only	Per Meter	38786 ✓
7	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.	24,738 ✓	749.00	Rupees Seven Hundred Forty Nine Only	Per Meter	18529 ✓
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. Make: KEI/Plaza/Anchor/SCI.					

i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	86 ✓	335.00	Rupees Three Hundred Thirty Five Only	Per Meter	28810 ✓
ii)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	5 ✓	657.00	Rupees Six Hundred Fifty Seven Only	Per Meter	3285 ✓
iii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	5 ✓	793.00	Rupees Seven Hundred Ninety Three Only	Per Meter	3965 ✓
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. Make: KEI/Plaza/Anchor/SCI.					
i)	3 x 1.5 sq. mm	30 ✓	111.00	Rupees One Hundred Eleven Only	Per Meter	3330 ✓
10	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- Make: Anchor/Gold Medal/SSK	2 ✓	187.00	Rupees One Hundred Eighty Seven Only	each	374 ✓
11	Supplying and fixing bakelite batten/angle holder including connections etc. as required:- Make: Anchor/Gold Medal/SSK	9 ✓	94.00	Rupees Ninety Four Only	each	846 ✓
12	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
i)	Exhaust Fan, Light duty, (Domestic) 225 mm sweep (Make: Usha, Model: Aeroclean LD)/Bajaj (Model: Freshnee)/Crompton	5 ✓	1945.00	Rupees One Thousand Nine Hundred Forty Five Only	Each	9725 ✓
13	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wining the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. With Not Less Than 3 Rated Star					

i)	Ceiling Fan 1200 mm sweep (Make: Usha, Model: Technix Plus)/Bajaj(Model: Sabse Tezz Kassels).	5	2547.00	Rupees Two Thousand Five Hundred Forty Seven Only	Each	12735
14	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. With Not Less Than 3 Rated Star					
i)	Ceiling Fan 1400 mm sweep (Make: Bajaj Model:Speedster/Crompton	1	2869.00	Rupees Two Thousand Eight Hundred Sixty Nine Only	Each	2869
15	Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy $\geq 100\text{lm/W}$ with Aluminium housing P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80,Surge Protection 2 Kv.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty .The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					
i)	LED Batten 20W, 4 feet long (Make: Jaquar, cat no. LGLZ01X020XC)/Bajaj/Panasonic.	7	569.00	Rupees Five Hundred Sixty Nine Only	Each	3983
16	Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy $\geq 100\text{lm/W}$ with CRCA Housing and PMMA Diffuser with P.F.>0.95,THD<10%,CCT 5700 K ,CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70, with 5- years warranty . The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					

i)	LED Panel Light 36 watt 1'x4' , (Make: Bajaj, Cat no. BZSSL36L LED WH 1/Wipro/Panasonic).	4	6746.00	Rupees Six Thousand Seven Hundred Forty Six Only	Each	26984 ✓
17	Providing and fixing of IP65 LED Bulk head 10 W+/- 1W with with system efficacy \geq 100lm/W with Aluminium housing P.F.>0.95 with THD<10% ,CCT 5700 K,CRI 70,Surge Protection 4 Kv.The LED with Useful life of 50000 Hrs at L70 with 5-years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
i)	Bulk Head Light LED 10 W (Make:- Jaquar Cat no. LBLK02X010XC/Bajaj/Panasonic.	4	1265.00	Rupees One Thousand Two Hundred Sixty Five Only	Each	5060 ✓
18	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/Jaquar.					
	LED Wall Bracket 9W (Make: Havells cat no. LHFOFUE1TZ1W012)/ Philips/Jaquar.	3	612.00	Rupees Six Hundred Twelve Only	Each	1836 ✓
19	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- years warranty Make:-Jaquar/Bajaj/Panasonic.					
	Mirror light 10 Watt, 2 Feet Long Surface Mounted (at par with (Make: Jaquar, cat no. LGLZ01X010XC)/Bajaj/Panasonic.	1	468.00	Rupees Four Hundred Sixty Eight Only	each	468 ✓

20	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 SMDLED 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 suitable for input voltage: AC 220-240 V, 50 Hz with all accessories, connections, testing and commissioning etc. as required. with 5- years warranty Make:- Havells/Bajaj/Jaquar.					
i)	LED Street Light 20 W (Make:- Havells Cat no. LHEXAYP7PN6K020)/Bajaj/Jaquar.	3	1328.00	Rupees One Thousand Three Hundred Twenty Eight Only	Each	3984
21	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:-	3	787.00	Rupees Seven Hundred Eighty Seven Only	Each	2361
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)	17	265.00	Rupees Two Hundred Sixty Five Only	Each	4505
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)	40 Amps. (Make:-Schneider/ Legrand/L&T)	1	488.00	Rupees Four Hundred Eighty Eight Only	each	488
ii)	63 Amps. (Make:- Schneider/ Legrand/L&T)	1	616.00	Rupees Six Hundred Sixteen Only	Each	616

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)	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	2715.00	Rupees Two Thousand Seven Hundred Fifteen Only	each	2715
ii)	63 Amps. (Make:- Schneider/ Legrand/L&T)	1	3616.00	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
25	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-12 way (Make:- Schneider/ Legrand/L&T)	1	2309.00	Rupees Two Thousand Three Hundred Nine Only	each	2309
ii)	Double door-16 way (Make:- Schneider/ Legrand/L&T)	1	2954.00	Rupees Two Thousand Nine Hundred Fifty Four Only	each	2954
26	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (Make: Sidharth/BEC)					
i)	25 mm. dia	5	265.00	Rupees Two Hundred Sixty Five Only	Per Meter	1325
27	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).					

	25 mm. dia	5	113.00	Rupees One Hundred Thirteen Only	Per Meter	565
28	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required. Make:- Anchor/Havells/SSK					
	1 or 2 Module(75mmX75mm X 60mm)	2	121.00	Rupees One Hundred Twenty One Only	each	242
29	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. Make:- Anchor/Havells/SSK					
	Telephone socket outlet piano type	1	122.00	Rupees One Hundred Twenty Two Only	each	122
	TV socket outlet piano type	1	90.00	Rupees Ninety Only	each	90
30	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required. Make :- SC/KEI/Plaza	20	36.00	Rupees Thirty Six Only	Per Meter	720
31	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. Make :- SC/KEI/Plaza					
	1 Pair	20	22.00	Rupees Twenty Two Only	Per Meter	440
32	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	1	6188.00	Rupees Six Thousand One Hundred Eighty Eight Only	Set	6188

33	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for conductor earth electrode, including connection/termination with GI thimble etc. as required.	52	41.00	Rupees Forty One Only	Per Meter	2132
34	Providing & installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required.					
	25 Liter capacity water heater (Cat-A) Make:- Usha, Bajaj, Recold.	2	10250.00	Rupees Ten Thousand Two Hundred Fifty Only	each	20500
35	Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect. Make:- OSRAM/Philips/Havells	12	150.00	Rupees One Hundred Fifty Only	each	1800
	Total					292292

Schedule of Quantity checked and approved for ₹ 2,92,292/- only

[Signature]
 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Supplying, Installation, Testing and Commissioning of Aadhar enabled Biometric Machines in SE 2nd Electrical Circle and All Electrical Sub Divisions HPPWD under control of Executive Engineer Electrical Division HPPWD Palampur.

Job No
4

ESTIMATED COST: Rs 3,97,992/-only.
EARNEST MONEY: Rs.8000/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying, Installation, Testing and Commissioning of Aadhar Enabled Biometric machine. Finger print based OS Version- Android 11.0, CPU Model- MEDIATEK, CPU Speed- 1.5GHz, RAM/Type- 2 GB, ROM/Type - 16 GB, Screen Size - 7 Inch, Communication- WiFi, 4G LTE, Bluetooth, USB, Micro USB, LAN, Screen Resolution - 1024x600, Screen Brightness (cd/sqm)- 250cd/sqm, WiFi Mode - 802.11 b/g/n, WiFi Hotspot - Yes, WiFi Direct- Yes, Bluetooth Support- Yes 2.0, GPS - Yes, Internal Modem - 2G/3G/4G LTE, Support Bands - All Indian SIM CARD, SIM Port - 2x2FF (mini), USB Port (Micro/Mini/A)- MicroUSMX2 (Optional), Charger Port - DC 2.5mm, Sensor Accelerometer, Camera Front- 5.0 MP Auto Focus, Battery Capacity - 5600mAh etc. as required complete in all respects. Makes: Secureye/Realtime	7	56051	Rupees Fifty Six Thousand Fifty One Only	Each	392357
2	Supplying and drawing LAN cable Cat 6 in existing PVC conduit casing and capping or as required to have end-to-end solution complete in all respects and to the best satisfaction of Engineer in Charge. Makes:- Belden/ Dlink/ Molex/KEI	35	74	Rupees Seventy Four Only	Per Metre	2590
3	Supplying and fixing of medium class PVC conduit 25mm dia 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	35	87	Rupees Eighty Seven Only	Per Metre	3045
Total						397992

Draft Schedule of Quantity checked and approved
for Rs 3,97,992/-

Executive Engineer
Electrical Division
HPPWD Palampur

5

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of 01 No. 250 KVA D.G.
Set installed in Auditorium Building Dr.RPGMC Tanda for the year
2024-25.

Job No
5

ESTIMATED COST: Rs. 2,39,337/-only.
EARNEST MONEY: Rs. 4800/-only
TIME ALLOWED: One Year

	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair and maintenance of DG Set 250 KVA with providing servicing and replacing of all types of filters, i.e. Separator fuel filter water, Fuel filter, Lubricating oil filter Air Filter, Corrosion register, Coolant, Lubricating oil etc. including minor parts replacement during emergency and AMF panel breakdown complete in all respects as required testing, commissioning etc. and to the best satisfaction of Engineer-in-charge.					
	Separator Water Filter	01 No.				
	Corrosion Register	01 No.				
	Lubricant Oil Filter	01 No.				
	Air Cleaner	01 No.				
	Corrosion Register	01 No.				
	Coolant	05 Ltrs.				
	Lubricant Oil	40 Ltrs.				
	Labour Charges L-S	L-S				
	Engine:- Minor Repair of engine such as changing of fuel pipes, V-belts, level indicators, pipes oil filters, battery leads, battery thimbles, self & alternators (battery charger) repairs etc. including emergency visits/labour.					
		1	239337	Rupees Forty Two Thousand Ninety Three Only	Per Job	239337

Panel:- Minor repair of panel such as selector switch, Ampere meter, Volt meter, starting switch, stopping switch, MCB for control wiring, OEN relays, fuse's etc. including labour charges.						
Battery:- Replacement of battery as per the requirement of site of Exide make (as per conforming standard) including labour charges.						
Total						239337

Do not Schedule of Quantity checked and approved
for 239337/E

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 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Repair & Maintenance of 01 No. 5 KVA D.G. Set installed in Judicial Court Complex at Kangra in Distt. Kangra (H.P.) for three years i.e. 2024-25 to 2026-27.			Job No 6		ESTIMATED COST: Rs. 1,20,362-only. EARNEST MONEY: Rs. 2500/-only TIME ALLOWED: Three Year	
	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair and maintenance of DG Set 5 KVA with providing servicing and replacing of various types of filters, i.e. fuel filter, lubricating oil filter, Air Filter, lubricating oil etc. including minor parts replacement during emergency and AMF panel breakdown complete in all respects as required testing, commissioning etc. and to the best satisfaction of Engineer-in-charge.					
	Fuel Filter	01 No.				
	Lubricant Oil Filter	01 No.				
	Air Filter	01 No.				
	Lubricant Oil	05 Ltrs.				
	Labour Charges L-S	L-S				
	Engine:- Minor Repair of engine such as changing of fuel pipes, V-belts, level indicators, pipes oil filters, battery leads, battery thimbles, self & alternators (battery charger) repairs etc. including emergency visits/labour.					
	Panel:- Minor repair of panel/emergency breakdown including labour charges.					
Battery:- Replacement of 12V battery as per the requirement of site of Exide make (as per conforming standard) including labour charges.						
1.1	For 1st Year AMC Period (2024-25)	1	38180.00	Rupees Thirty Eight Thousand One Hundred Eighty Only	Per Job	38180

1.2	For IInd Year AMC Period (2025-26)	1	40089.00	Rupees Forty Thousand Eighty Nine Only	Per Job	40089
1.3	For IIIrd Year AMC Period (2026-27)	1	42093.00	Rupees Forty Two Thousand Ninety Three Only	Per Job	42093
	Total					120362

Draft Schedule of quantity checked and approved for 120362

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Construction of Government Veterinary Dispensary Building at Lilh Tehsil Bharmour Distt. Chamba H.P Sub-Head:- Providing E.I therein.				job No 7		ESTIMATED COST: Rs. 75,364/-only. EARNEST MONEY: Rs.1600/-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)	14	1588	Rupees One Thousand Five Hundred Eighty Eight Only	P/Point	22232	
Group C.							
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.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/mnt.	6640	
2.2	2 X 4.0 sq. mm + 1 X 4.0 sq. mm earth wire	22	395	Rupees Three Hundred Ninety Five Only	P/mnt	8690	
2.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	2	564	Rupees Five Hundred Sixty Four Only	P/mnt	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	6	151	Rupees One Hundred Fifty One Only	P/rmt	906
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	8	703	Rupees Seven Hundred Three Only	P/rmt	5624
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)	2	351	Rupees Three Hundred Fifty One Only	Each	702
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	406	Rupees Four Hundred Six Only	Each	1218
7	Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required. Make :- Anchor/SSK/GoldMedal	1	206	Rupees Two Hundred Six Only	Each	206
8	Supplying & fixing following type of Surface mounted luminaires Aluminium Batten Tubes, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. Make- Jaquar, Panasonic, Wipro					

8.1	LED Tube Fixture 22Watt	4	639	Rupees Six Hundred Thirty Nine Only	Each	2556
	Cat No: LGLZU1X022XC Make :- Panasonic/Philips/Wipro					
9	Supplying and fixing batter/ angle holder including connection etc. as required. Make :- GoldMeda/SSK/Anchor	3	88	Rupees Eighty Eight Only	Each	264
10	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% ,CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 . The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. with 5 year warranty. Make- Panasonic,Wipro,Philips					
10.1	LED Bulk Head Light 10W Makes:- Wipro/Panasonic/Philips	3	1420	Rupees One Thousand Four Hundred Twenty Only	Each	4260
11	Providing, Installation, testing and commissioning of ceiling fan (1 star rating), including wiring 1the 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:					
11.1	Ceiling Fan 1200 mm sweep Usha(Energia ISI Marked and 1 Star ISI)Bajaj/Crompton	2	2438	Rupees Two Thousand Four Hundred Thirty Eight Only	Each	4876
12	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: Make:-Usha/Bajaj/Crompton					

12.1	Exhaust Fan, Light duty, (Domestic)	1	2567	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	2567
13	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/ Schneider					
13.1	12 way, Double door	1	2055	Rupees Two Thousand Fifty Five Only	Each	2055
14	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					
14.1	Single pole	5	239	Rupees Two Hundred Thirty Nine Only	Each	1195
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. Make:- L&T/ Legrand/ Schneider					
15.1	40 Amps	1	426	Rupees Four Hundred Twenty Six Only	Each	426

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. Make:- L&T/ Legrand/ Schneider					
16.1	40 Amps	1	2272	Rupees Two Thousand Two Hundred Seventy Two Only	Each	2272
17	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
18	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	Per Meter	1060
	Total					75364

Draft schedule of quantity checked and approved by 75364

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 E.I. in CM office therein).							SCHEDULE OF QUANTITY		
SR. NO.	DESCRIPTION	QTY.	job No 2		ESTIMATED COST: Rs.4,99,266/-only. EARNEST MONEY: Rs.10,000/-only. TIME ALLOWED: Two Months				
			FIGURES	RATES WORDS	UNIT	AMOUNT			
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.								
i	Group C. Makes:- Legrand(Myrius),Schieder(Livia),Anchor Roma(Plus),L&T(Entice).	18	1650	Rupees One Thousand Six Hundred Fifty Only	P/Pt	29700			
2	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm.FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required.								
	Group C. Makes:- Legrand(Myrius),Schieder(Livia),Anchor Roma(Plus),L&T(Entice).	24	766	Rupees Seven Hundred Sixty Six Only	P/Pt	18384			
3	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulatedcopper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor singlecore cable etc as required.								
i	Group C. Makes:- Legrand(Myrius),Schieder(Livia),Anchor Roma(Plus),L&T(Entice).	18	908	Rupees Nine Hundred Eight Only	P/Pt	16344			

4	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),Schneider(Livia),Anchor Roma(Plus),L&T(Entice).	2	1692	Rupees One Thousand Six Hundred Ninety Two Only	P/Pt	3384
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: KEI/Anchor/Polycab/Grandlay	10	282	Rupees Two Hundred Eighty Two Only	P/Mtr	2820
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: KEI/Anchor/Polycab/Grandlay	30	332	Rupees Three Hundred Thirty Two Only	P/Mtr	9960
7	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.					
i	Makes: KEI/Anchor/Polycab/Grandlay	12	395	Rupees Three Hundred Ninety Five Only	P/Mtr	4740
8	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					

i	3X1.5 Sq.mm	30	100	Rupees One Hundred Only	P/Mtr	3000
ii	3X2.5Sq.mm	55	151	Rupees One Hundred Fifty One Only	P/Mtr	8305
iii	3X4Sq.mm	29	220	Rupees Two Hundred Twenty Only	P/Mtr	6380
iv	6X4Sq.mm	47	428	Rupees Four Hundred Twenty Eight Only	P/Mtr	20116
v	3X6Sq.mm	36	340	Rupees Three Hundred Forty Only	P/Mtr	12240
	Makes: KEI/Anchor/Polycab/Grandlay					
9	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3Nos 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required (For light plugs to be used in NR Buildings).					
i	12 Module (200mmX150mm)					
	Makes:- Legrand(Myrius),L&T(Oris),Anchor Roma(Plus),L&T(Entice).	3	1191	Rupees One Thousand One Hundred Ninety One Only	Each	3573
10	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	13	469	Rupees Four Hundred Sixty Nine Only	Each	6097

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.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	11	621	Rupees Six Hundred Twenty One Only	Each	6831
12	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required					
i	5/6 amp Modular switch	9	93	Rupees Ninety Three Only	Each	837
ii	3 pin 5/6 amp socket outlet	9	136	Rupees One Hundred Thirty Six Only	Each	1224
	Makes:- Legrand(Myrius),L&T(Oris),Anchor Roma(Plus),L&T(Entice).					
13	Supplying and fixing extra down rod of 60cm length G.I. pipe 15mm dia heavy gauge including painting etc. as required.(Note:-More than 5cm length shall be rounded to the nearest 10cm and 5cm or less shall be ignored.) Makes:-Jindal Hissar.	9	169	Rupees One Hundred Sixty Nine Only	Each	1521
14	Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.	3	206	Rupees Two Hundred Six Only	Each	618
	Makes: Anchor/Goldmedal/SSK					
15	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.	20	239	Rupees Two Hundred Thirty Nine Only	Each	4780
	Makes:- Legrand,Schneider,L&T.					

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.					
i	63 Amps. Cat-A.	2	530	Rupees Five Hundred Thirty Only	Each	1060
	Makes:- Legrand,Schiender,L&T.					
17	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i	63 Amps. Cat-A.	2	3104	Rupees Three Thousand One Hundred Four Only	Each	6208
	Makes:- Legrand,Schiender,L&T.					
18	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-12way	2	2055	Rupees Two Thousand Fifty Five Only	Each	4110
19	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
20	Providing and fixing 4mm dia Cu wire on surface or in recess for loop earthing as required.	45	181	Rupees One Hundred Eighty One Only	P/Mtr	8145

21	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2	2567	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	5134
	Make: Usha(AEROCLEAN PLUS DBB), Bajaj, Crompton					
22	Supplying and fixing of LED Batton/LED Mirror Light 10Watts, 6500K, (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required of Approved Makes. (Including 5 Years Warranty).					
i	LED Mirror Light 10Watts	2	646	Rupees Six Hundred Forty Six Only	Each	1292
	Makes:- Havells, Wipro, Bajaj.					
23	Providing, Installation, testing and commissioning of ceiling fan with fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i	Ceiling Fan 1200 mm sweep, Category-A	9	3157	Rupees Three Thousand One Hundred Fifty Seven Only	Each	28413
	Make:- Usha(Technix), Bajaj, Crompton.					
24	Supplying and fixing of LED color Changing Downlighter 8 watts complete with all accessories, connections, testing and commissioning etc. as required complete in all respects.					

i	LED color Changing Downlighter 8 watt	36	600	Rupees Six Hundred Only.	Each	21600
	Makes: Bajaj ,Wipro.					
25	Supplying and fixing of Surface mounting LED Batten 40Watt with housing Aluminium diecast and Virgin Polycarbonates diffuser for best diffused light (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Makes: Clair ,Havells ,wipro or as approved by Engineer-in-Charge					
i	LED Tube Light 4Feet Long,40 Watts					
	Makes: Clair,Bajaj,wipro.	4	2736	Rupees Two Thousand Seven Hundred Thirty Six Only	Each	10944
26	Providing and fixing surface/Recess mounted Round/Square downlighter with die cast Al housing in white powder coated finish, anti glare diffuser and and energy efficient electronic driver ,suitable for surface application with the use of the latest technology 18watt (1800 Lumen) 6000K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required, with 5 year warranty					
i	Round/Square LED Surface/Recess Panel Light 18/20 Watts	11	1606	Rupees One Thousand Six Hundred Six Only	Each	17666
	Makes:-Bajaj ,Havells,wipro,Panasonic.					

27	Supplying and fixing of bulk head fitting LED 10 watt+/-1W with minimum system Lumen efficiency of 100lm/W with and P.F. 0.95 with THD, 10%, CCT 5700K, CRI 70, Surge protection 4KV. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V to 270V complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty					
i	LED 10 Watt Bulk Head	2	1291	Rupees One Thousand Two Hundred Ninety One Only	Each	2582
	Makes: Bajaj, Havells, wipro.					
28	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:-					
i	10 Liter capacity water heater (Cat-A)	2	10507	Rupees Ten Thousand Five Hundred Seven Only	Each	21014
	Makes: Bajaj, Crompton, Usha.					
29	Supplying, Installing, Testing and Commissioning of Split Type Air Conditioner 1.5 TR 3 Star Inverter SPLIT AIR CONDITIONER (Hot and Cold) confirming to I.S.I -1391 Part-1992 with amendment No. 1 (expect power consumptions norms) fitted with Hermetically shielded Air Conditioner with installation & testing and commissioning etc. as required in all respects.					
i	A.C. Unit 1.5 Ton capacity					
ii	Makes: Daikin (Model No. FTH150 3* HOT & COLD INVERTER 1.5 TR).	2	60615	Rupees Sixty Thousand Six Hundred Fifteen Only	Each	121230

30	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 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects. Makes: Godrej, Whirlpool, Microtek.					
i	Automatic Voltage Stabilizer 4KVA	2	6500	Rupees Six Thousand Five Hundred Only	Each	13000
31	P/F of M.S out door heavy duty stand powder coated suitable to hang 1.5 TR split A.C with six Nos. Anchor bolts as required complete in all respects and as per direction of Engineer - in- charge.	2	950	Rupees Nine Hundred Fifty Only	Each	1900
32	S/F of Copper tube with insulation for A.C 1.5 TR capacity complete in all respects as required.	2	1150	Rupees One Thousand One Hundred Fifty Only	P/ mtr	2300
33	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.	8	280	Rupees Two Hundred Eighty Only	P/Mtr	2240
34	S/F of Drain pipe of size 1" Dia (25mm) complete with elbows tees,socket etc. of superior quality as per satisfacation of Engineer-In-Charge.	10	195	Rupees One Hundred Ninety Five Only	P/ mtr	1950
35	Providing and fixing PVC Trunking for covering of copper pipe of following size 105X50mm as required complete in all respects. Makes: Polyplast,Deeplast,BEC.	4	1300	Rupees One Thousand Three Hundred Only	P/Mtr	5200
36	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	20	40	Rupees Forty Only	Each	800
	Makes:-Anchor Roma,L&T.					

37	Providing and fixing LED fixture 300mmX300mm 24 Watt+/-1Watt with surface mounted having minimum system lumen output 100lumens/Watt with CRCA housing and diffuser with pf>0.95 with THD,20%, CCT 5700K, CRI>80. The LED shall be tested with LM80-08 standard with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V to 270V, 50 Hz with all accessories, connections, testing and commissioning etc as required complete in all respects. with 5 year warranty					
i	LED Surface 1X1 Luminaire-24Watts	8	3871	Rupees Three Thousand Eight Hundred Seventy One Only	Each	30968
	Makes: Bajaj, Panasonic, wipro.					
38	Supplying and fixing of LED Strip with optimum brightness and uniformity of light for perfect cove lighting complete with all accessories, connections, testing and commissioning etc. Makes: Bajaj, Havells.	65	149	Rupees One Hundred Forty Nine Only	P/Mtr	9685
39	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25 amps modular socket outlet and 25 amps modular SP MCB "C" curve including connection, painting etc. as required.					
i	Makes: Legrand, Schiender, L&T.	3	705	Rupees Seven Hundred Five Only	Each	2115
	Total					499266
	The Dismental metrial deducted from the contractor that is Rs. 3590/- in the Final will.					

Schedule of quantity checked and approved for Rs. 499266 only

Executive Engineer
Electrical Division
HPPWD, Palampur

SCHEDULE OF QUANTITY

Name of Work :- Construction of Veterinary Dispensary Building at Annanahar In Tehsil Bharmour Distt. Chamba (H.P) (S.H:-Providing E.I. therein).

Job No 1

ESTIMATED COST: Rs.1,13,777/-only.
EARNEST MONEY: Rs.2300/-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 (Panta)/ SSK(Touch) /Legrand/Plaza/Havells					
	Group C.	15	1746	Rupees One Thousand Seven Hundred Forty Six Only	Per point	26190
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make: Plaza/ Anchor/KEI.					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	30.498	401	Rupees Four Hundred One Only	Per metre	12230
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	34	477	Rupees Four Hundred Seventy Seven Only	Per metre	16218
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	2	664	Rupees Six Hundred Sixty Four Only	Per metre	1328
4	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: Plaza/ KEI/ Anchor.					

i	3x2.5 Sq. mm.	5	172	Rupees One Hundred Seventy Two Only	Per metre	860
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)	4	494	Rupees Four Hundred Ninety Four Only	Each	1976
7	Supplying and fixing metal box of 200mm X 150mm X 75mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 nos. 3 pin 5/6 amps piano type socket outlets and 3 nos 5/6 amps piano type switches, connection etc. as required. Make: Anchor (Panta) SSK(Touch)	1	580	Rupees Five Hundred Eighty Only	Each	580
8	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.					
	25 mm. dia	12	116	Rupees One Hundred Sixteen Only	Per mtr	1392
9	Supplying and fixing call bell / buzzer, suitable for D.C./A.C. single phase,230 volts complete as required:- Make: Anchor (Panta) SSK(Touch) /GoldMedal.	1	195	Rupees One Hundred Ninety Five Only	Each	195
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:- Make:- Usha/Bajaj/Crompton					

	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	1	2721	Rupees Two Thousand Seven Hundred Twenty One Only	Each	2721
11	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 flexible, 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)	3	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	13158
13	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 22Watt (L x W:1135 x22mmHeight:37mm)					
	Cat No: BCLAB 20W LED P	2	978	Rupees Nine Hundred Seventy Eight Only	Each	1956
14	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					

	Sauver (Surface)-42W/1ft.x4ft.	2	5571	Rupees Five Thousand Five Hundred Seventy One Only	Each	11142
	Cat No:LSVR003S042XC					
15	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 Square (L x W: 175 mm x 175MM. Height: 35 mm) Cat no. LNRO02S012SC	2	784	Rupees Seven Hundred Eighty Four Only	Each	1568
16	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 warrenty as required as Make:-Jaquar/Panasonic/ Wipro,Philips					
	LED Bulk head 10Watt Cat No: BIBWP 10W LED	3	1324	Rupees One Thousand Three Hundred Twenty Four Only	Each	3972

17	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 \geq 0.9, harmonic distortion \leq 10% and efficacy \geq 100 lumens per watt, CRI $>$ 80, suitable for input voltage AC 220-240V, 50/60 Hz, including one no tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required With 5 year warranty. Make- Panasonic, Bajaj/Wipro					
	Mirror light LED 10Watt	1	534	Rupees Five Hundred Thirty Four Only	Each	534
i	Cat No: LL20-111-111-XXX-65NE3					
16	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, 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.					
ii	Double door-12 way	1	2326	Rupees Two Thousand Three Hundred Twenty Six Only	Each	2326
19	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.	7	268	Rupees Two Hundred Sixty Eight Only	Each	1876
20	Supplying and fixing 40 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 - Cat-A. Make: L&T, Legrand, Schneider.	1	2719	Rupees Two Thousand Seven Hundred Nineteen Only	Each	2719

21	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.	1	491	Rupees Four Hundred Ninety One Only	Each	491
22	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
23	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	41	Rupees Forty One Only	Per metre	615
	Total					113771

Schedule of quantity checked and approved for 113771/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Strengthening of Existing Infrastructure of 4 Nos.
Class Room Govt. SR. SEC. School Building at Lyih in Tehsil
Bhamour and District Chamba (H.P.) Under RMSA (Sh:- Providing E.I.
in 4 No. Classroom, Store, Verandah i.e Stair case.)

Job No 10

ESTIMATED COST: Rs.2,73,343/-only.
EARNEST MONEY: Rs.5500/-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 (Pantay) SSK(Touch)					
	Group C.	51	1746	Rupees One Thousand Seven Hundred Forty Six Only	Per point	89046
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. Make: KEI/Plaza/Anchor	60	401	Rupees Four Hundred One Only	Per metre	24060
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire					
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	48	477	Rupees Four Hundred Seventy Seven Only	Per metre	22896
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	8	664	Rupees Six Hundred Sixty Four Only	Per metre	5312
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. Make:KEI/Plaza/Anchor					

1	3x2.5 Sq. mm.	8	172	Rupees One Hundred Seventy Two Only	Per metre	1376
4	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5A6 amps socket outlet and 5A6 amps piano type switch, connection, painting etc. as required. Make: Anchor (Pantay) SSK(Touch)	4	300	Rupees Three Hundred Only	Each	1200
5	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 5A6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor (Pantay) SSK(Touch)	4	494	Rupees Four Hundred Ninety Four Only	Each	1976
6	Providing installation, Testing and commissioning of Ceiling Fan with BLDC step electronic fan regulator paino type, including wiring the down rod of standard 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.					
1	1200 mm sweep Make:- Usha (Technix Plus 3 Star) / (Bajaj (Ultima) (minimum 3-star rating).	16	4448	Rupees Four Thousand Four Hundred Forty Eight Only	Each	71168
7	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 ≤ 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	23	978	Rupees Nine Hundred Seventy Eight Only	Each	22494
	Cat No: BCLAB 20W LED P					

8	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					
	LED 12 Watt Square	8	784	Rupees Seven Hundred Eighty Four Only	Each	6272
	Cat No: PPAM17127R1					
9	Providing and fixing LED Bulk head of following rating with pressure die casting aluminium housing and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $< 20\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. Make:- Bajaj, Panasonic, Wipro					
	LED Bulk head 10Watt Cat No: BIBWP 10W LED	4	1324	Rupees One Thousand Three Hundred Twenty Four Only	Each	5296
	Cat No: PSTM27458					
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:- (Make:-L&T/ Legrand/ Schneider)					
ii	Double door-8 way	2	1914	Rupees One Thousand Nine Hundred Fourteen Only	Each	3828

11	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
12	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 milliampers 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
13	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: Anchor, Legrand, Schneider.	2	491	Rupees Four Hundred Ninety One Only	Each	982
14	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
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25	41	Rupees Forty One Only	Per metre	1025
	Total					273343

Schedule of quantity checked and approved for 27/3/2015

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- C/O 4 Nos. Class Room Govt. Middle School
 Building at Sehli in Tehsil Bhammour and District Chamba (H.P.) Under
 RMSA (Sh:- Providing E.I. in 4 No. Classroom, Verandah i.e Stair
 case.)

Job No (1)

ESTIMATED COST: Rs. 1,58,493/-only.
EARNEST MONEY: Rs. 3400/-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 (Panta)/ SSK(Touch)					
	Group C.	33	1772	Rupees One Thousand Seven Hundred Seventy Two Only	Per point	58475
2	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. HFRF/PVC insulated single core copper conductor cable of same size for earthing as required. Make: Havells/Plaza/Anchor					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	40	406	Rupees Four Hundred Six Only	Per metre	16240
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	48	482	Rupees Four Hundred Eighty Two Only	Per metre	23136
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	8	669	Rupees Six Hundred Sixty Nine Only	Per metre	5352
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make: Havells/Plaza/Anchor					

1	3x2.5 Sq. mm.	8	173	Rupees One Hundred Seventy Three Only	Per metre	1384
4	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required Make: Anchor (Panta) SSK(Touch)	4	309	Rupees Three Hundred Nine Only	Each	1236
5	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)	4	504	Rupees Five Hundred Four Only	Each	2016
6	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	21	981	Rupees Nine Hundred Eighty One Only	Each	20601
	Cat No: BCLAB 20W LED P					
7	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					

	LED 12 Watt Square	8	787	Rupees Seven Hundred Eighty Seven Only	Each	6296
	Cat No: PPAM17127R1					
8	Providing and fixing LED Bulk head of following rating with pressure die casting aluminium housing and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $< 20\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc as required. With 5 year warranty. Make- Bajaj, Panasonic, Wipro					
	LED Bulk head 10Watt Cat No: BIBWP 10W LED	4	1327	Rupees One Thousand Three Hundred Twenty Seven Only	Each	5308
	Cat No: PSTM27458					
9	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					
	LED Street Light, 45 Watt	1	5506	Rupees Five Thousand Five Hundred Six Only	Each	5506
	Cat No: PSTM27458					
10	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tuned 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)					

ii	Double door-8 way	2	1931	Rupees One Thousand Three Hundred Thirty One Only	Each	3862
11	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	272	Rupees Two Hundred Seventy Two Only	Each	2176
12	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	2724	Rupees Two Thousand Seven Hundred Twenty Four Only	Each	5448
13	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	494	Rupees Four Hundred Ninety Four Only	Each	988
14	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	9268	Rupees Nine Thousand Two Hundred Sixty Eight Only	Set	9268
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25	48	Rupees Forty Eight Only	Per metre	1200
	Total					168493

Schedule of quantities checked and approved for ₹ 168493 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Construction of Government High School building at Siyur in Tehsil Bhammour Distt. Chamba (HP) (Sub-Head:- Providing E.I therein Two Nos Class Room, Verandah in Ground Floor and Two Nos Class Room, Verandah in First floor.)		Job No 12		ESTIMATED COST: Rs. 1,50,596/-only. EARNEST MONEY: Rs. 3300/-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 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/Finolex/Grandlay	34	1650	Rupees One Thousand Six Hundred Fifty Only	P/Point	56100
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, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- KEI/Finolex/Grandlay					
2.1 Twin control	1	1692	Rupees One Thousand Six Hundred Ninety Two Only	P/Point	1692
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 Make :- KEI/Finolex/Grandlay					
3.1 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	51	332	Rupees Three Hundred Thirty Two Only	P/mt.	16932

4	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/Finolex/Grandlay					
4.1	S/D 3 X 2.5 sq. mm	20	151	Rupees One Hundred Fifty One Only	P/mmt	3020
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make :- KEI/Finolex/Grandlay					
5.1	2 X 4.0 sq. mm + 1 X 4.0 sq. mm earth wire	48	395	Rupees Three Hundred Ninety Five Only	P/mmt	18960
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/Grandlay					
6.1	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	7	564	Rupees Five Hundred Sixty Four Only	P/mmt	3948
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. Make:- Anchor/Legrand/Schneider	4	469	Rupees Four Hundred Sixty Nine Only	Each	1876
8	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make:- Anchor/Legrand/Schneider	4	621	Rupees Six Hundred Twenty One Only	Each	2484

9	Supplying & fixing following type of Surface mounted luminaires Aluminium Batten Tubes, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required with 5 year warranty. Make:- Wipro/Panasonic/Havells					
9.1	LED Aluminium Batten Light 22 W	20	639	Rupees Six Hundred Thirty Nine Only	Each	12780
10	Providing and Fixing of IP20 LED fixture of 12 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.					
10.1	LED Surface mounting round downlighter 12 watt Makes:- Panasonic/Wipro/Havells	9	1412	Rupees One Thousand Four Hundred Twelve Only	Each	12708
11	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F. > 0.95 with THD < 10%, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc as required complete in all respects with 5 year warranty.					

15.1	40 Amps	2	426	Rupees Four Hundred Twenty Six Only	Each	852
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. Make :- L&T/Legrand/Schneider					
16.1	40 Amps	2	2272	Rupees Two Thousand Two Hundred Seventy Two Only	Each	4544
17	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
18	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					160596

Schedule of quantity checked and approved for Rs. 160596 only

Executive Engineer
Electrical Division
HPPWD Palampur