

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2024-25/- 3298-3306

Dated: 17-7-2024

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 percentage rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP PWD, (Elect) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act. 1968 so as to reach in his office on or before **04-10-2024** 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 **03-10-2024** up to 4 00 P.M. and the application for issue of tender form shall be received on **01-10-2024** 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	Repair and Maintenance of E.I. to Vivekanand Hostel, Dr. RPGMC Kangra at Tanda.(SH:- Replacement of old and damaged switch-socket, LEDs, fans etc.(room no. 201 to 216) and campus lights thereof)	223492/-	4500/-	Three Months	8	350/-
3	Additional Alteration in DEIC (District Early Intervention Center) OPD 11 at 500 Bedded Hospital at Dr. RPGMC Tanda at Kangra.(SH:- Providing light points, LED fixture, Power Wiring and AC points therein).	180175/-	3700/-	Two Months	8	350/-
4	Replacement of damaged water supply double impeller motors with accessories, Basement Area at 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.	269311/-	5400/-	One Month	8	350/-
5	Providing replacement of wiring to Assistant Fisheries Department at Pong Dam in Tehsil Fatehpur Distt. Kangra (HP).	178968/-	3600/-	Three Months	8	350/-
6	C/O School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P)(SH:- Providing Air-Conditioning units to Conference Room, Faculty Room, Director Room, Emergency Room, Store, Maternal & Newborn PICU of Critical Care Skill Lab/Simulation Lab therein).	496307/-	10000/-	Three Months	8	350/-

7	Providing Point wiring, Power wiring and Computer wiring in HP PWD B&R Division Office Building Shahpur Distt. Kangra (H.P)	304997/-	6100/-	Three Months	8	350/-
8	Repair & Maintenance of HVAC System, 500 bedded hospital Dr. RPGMC Kangra at Tanda (SH:- Replacement of burnt out/damaged chiller pump cable, 5 H.P. motor etc. and overhauling of AHU for CSSD area thereof).	297987/-	6000/-	Three Months	8	350/-
9	C/O School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P)(SH:- Providing Air-Conditioning units to ICU, In-Patient Ward, Skill Room and Pantry of Critical Care Skill Lab/Simulation Lab therein).	495952/-	10000/-	Three Months	8	350/-
10	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/-
11	R/M of HVAC System in Super Specialty Block Dr. RPGMC Kangra at Tanda.(SH:- Replacement of damaged water storage tank, butterfly valves, iron net etc. for chiller plant and provide new water storage tank for condenser motor and chiller motor therein).	249680/-	5000/-	Three Months	8	350/-
12	Repair and Maintenance of E.I. to HP PWD Sub-Division Office and Rest House at Lunj in Distt. Kangra (H.P)(SH:- Providing indoor and outdoor LED lighting along with Inverter and modular accessories therein).	160622/-	3300/-	Three Months	8	350/-
13	Repair and Maintenance of E.I. to Maternity O.T. & OPD-11 of 500 Bedded Hospital, Dr. RPGMC Kangra at Tanda.(SH:- Replacement of old and damaged LEDs, fans etc. therein).	407106/-	8200/-	Three Months	8	350/-
14	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/-
15	Repair and Maintenance of E.I. to 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.(SH:- Rewinding of ceiling fans, replacement of fan condensers, fan regulators and extra down fan road etc. in various Wards of ground floor to fourth floor and OPD area therein).	236185/-	4800/-	Six Months	8	350/-
16	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/-
17	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/-

18	C/O Additional accommodation building of Chief Engineer (KZ) HP PWD Dharamshala Distt. Kangra (HP) (SH: Providing LED Solar Lights for campus lighting therein).	347728/-	7000/-	Two years	8	350/-
19	R/M of E.I. Vidhan Sabha Complex at Tapovan Dharamshala Distt. Kangra (HP) (SH: Repair of E.I. in Main building and Minister block therein).	498129/-	10000/-	Six Months	8	350/-
20	C/O War Museum at Dharamshala Distt. Kangra (HP) (SH: Damaged report of AC Units).	205037/-	4200/-	Six Months	8	350/-
21	R/M of E.I. Vidhan Sabha Complex at Tapovan Dharamshala Distt. Kangra (HP) (SH: Providing UPS/Inverter for Vidhan sabha complex).	494091/-	9900/-	Six Months	8	350/-
22	C/O War Museum at Dharamshala Distt. Kangra (HP) (SH: Damaged report of Fire fighting system).	57942/-	1200/-	Six Months	8	350/-
23	C/O War Museum at Dharamshala Distt. Kangra (HP) (SH: Damaged report of Surveillance system).	86159/-	1800/-	Six Months	8	350/-
24	C/O Govt. Veterinary Dispensary building at Lilh Tehsil Bharmour Distt. Chamba (HP) (SH: Providing E.I. therein).	75364/-	1600/-	Six Months	8	350/-

HIM SUCHNA AVAM JAN SAMPARK VIBHAG

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	9700	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 calculations approved for 19/12/2019


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

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

Job No 2

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

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

3.1	Single pole. 6-32 Amp.	20	239.00	Rupees Two Hundred Thirty Nine Only	Each	4780
	Makes:- Legrand/L&T/Schneider					
4	Providing, Installation, testing and commissioning of BLDC ceiling fan (5 star rating), including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:					
4.1	BLDC Ceiling Fan 1200 mm sweep	3	4323.00	Rupees Four Thousand Three Hundred Twenty Three Only	Each	12969
	Makes:- Usha/Havells/Bajaj					
5	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:					
5.1	Exhaust Fan, Light duty, (Domestic)	6	2567.00	Rupees Two Thousand Five Hundred Sixty Seven Only	Each	15402
	Makes:- Usha/Havells/Bajaj					
6	Providing and Fixing of IP20 LED fixture of 18 watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing, pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. With 5 year warranty					

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

9.1	SMC Junction box (230 x 170 x 105)	7	570.00	Rupees Five Hundred Seventy Only	Each	3990
	Makes: Sintex/Havells/ Schneider					
10	Providing & laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required.					
10.1	Armoured cable 6 sq. mm (Twin Core)	350	208.00	Rupees Two Hundred Eight Only	Each	72800
	Makes: Polycab/Havells/ Finolex					
	Total					223492

Schedule of quantity checked and approved for ₹ 223492/- only


 Executive Engineer
 Electrical Division
 HPPWB, Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
Name of Work :- Additional Alteration in DEIC (District Early Intervention center) OPD 11 at 500 bedded hospital at Dr. RPGMC Tanda at Kangra .(SH:- Providing light points, LED fixture, Power wiring and AC points therein).		Job No 3		ESTIMATED COST: Rs. 1,80,175/-only. EARNEST MONEY: Rs.3700/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1.1	Group C (Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia)	16	1345.00	Rupees One Thousand Three Hundred Forty Five Only	P/Pt	21520
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required					
2.1	2x1.5 Sq. mm.	36	217.00	Rupees Two Hundred Seventeen Only	P/Mtr	7812
2.3	2x4 Sq. mm.	40	353.00	Rupees Three Hundred Fifty Three Only	P/Mtr	14120
2.5	2x10 Sq. mm.	26	678.00	Rupees Six Hundred Seventy Eight Only	P/Mtr	17628
2.8	4x4 Sq. mm.	28	612.00	Rupees Six Hundred Twelve Only	P/Mtr	17136
(Make:-KEI / Anchor / Plaza)						

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

	Makes:- Legrand/L&T/Schneider.					
7	Supplying and fixing following rating, following pole, 240/415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
7.1	63 Amps. Double Pole	2 ✓	531.00	Rupees Five Hundred Thirty One Only	Each	1062 ✓
	Makes:- Legrand/L&T/Schneider.					
8	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
8.1	63 Amps. Cat-A.	2 ✓	2981.00	Rupees Two Thousand Nine Hundred Eighty One Only	Each	5962 ✓
	Makes:- L&T / Legrand/Schneider.					
9	Providing, Installation, testing and commissioning of ceiling fan BLDC with two module modular step type electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
9.1	Ceiling Fan 1200 mm sweep, Category-A	4 ✓	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	17544
	Makes:- Usha / Bajaj/ Crompton.					
10	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					

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

Bill Schedule quantity checked and approved for 18/05/2019

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Replacement of damaged water supply double impeller motors with accessories, Basement Area at 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.

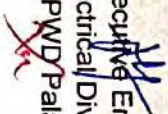
job No **4**

ESTIMATED COST: Rs.2,69,311/-only.
EARNEST MONEY: Rs.5400/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and fixing of 5 HP Capacity Double impellor Motors of water supply system complete with all accessories including testing, commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
1.1	5 HP Capacity Double impellor Motors	2	83611.00	Rupees Eighty Three Thousand Six Hundred Eleven Only	Each	167222
	Makes:-Kirloskar / Crompton					
2	Supplying and fixing of 5 HP Capacity Starter for double impellor Motors complete with all accessories including testing, commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge. Makes:-Kirloskar / Crompton					
2.1	5 HP water pump motor starter	1	11200.00	Rupees Eleven Thousand Two Hundred Only	Each	11200
3	Supplying and fixing of Vibration Bellows complete with all accessories including testing, commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	4	5500.00	Rupees Five Thousand Five Hundred Only	Each	22000
4	Supplying and fixing of Non return Valves 100 mm Dia complete with all accessories including testing, commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	4	9859.00	Rupees Nine Thousand Eight Hundred Fifty Nine Only	Each	39436

5	Supplying and fixing of Pressure Gauge Stainless steel complete with all accessories including testing, commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1	2985.00	Rupees Two Thousand Nine Hundred Eighty Five Only	Each	2985
6	Supplying and fixing of Butterfly Valve 100 mm Dia. complete with all accessories including testing, commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	4	6617.00	Rupees Six Thousand Six Hundred Seventeen Only	Each	26468
Total						269311

Schedule of quantity checked and approved for it 269311 on 10/07


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Providing replacement of wiring to Assistant Director Fisheries Department at Pong Dam in Teh- Fatehpur, Distt- Kangra (HP).			Job No. 5		ESTIMATED COST: Rs. 1,78,968/-only. EARNEST MONEY: Rs. 3600/-only TIME ALLOWED: Three Months	
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 (HRRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required. Make:- Legrand(Myritus), 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 (HRRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make:- Legrand(Myritus), 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 (HRRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 2 No.4 Sq.mm. HRRFRLS/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 (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.10 Sq.mm. (4x10+2x10) HRRFRLS/PVC insulated single core copper conductor cable for earthing as required.	5 ✓	512 ✓	Rupees Five Hundred Twelve Only	Meter	2560 ✓

ESTIMATED COST: Rs. 1,78,968/-only.
EARNEST MONEY: Rs. 3600/-only
TIME ALLOWED: Three Months

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.HRRFLS/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 ✓
i)	63 Amps. Cat-A.	1 ✓	402 ✓	Rupees Four Hundred Two Only	each	402 ✓
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 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make: Legrand, L&T, Schneider.					
i)	40 Amps. Cat-A.	2 ✓	1940 ✓	Rupees One Thousand Nine Hundred Forty Only	each	3880 ✓
ii)	63 Amps. Cat-A.	1 ✓	2225 ✓	Rupees Two Thousand Two Hundred Twenty Five Only	each	2225 ✓
13	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.					
i)	Double door-8 way	1 ✓	899 ✓	Rupees Eight Hundred Ninety Nine Only	each	899 ✓

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 SMD LED 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. LHFOFUE1TZ1W012}	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)	28	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 disconnecter 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
	Total				1212
					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 proved for Rs. 178,968-00/only

Executive Engineer
Electrical Division
HP PWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing Air-conditioning units to Conference Room, Faculty Room, Director Room, Emergency Room, Store, Maternal & Newborn PICU of Critical Care Skill Lab/Simulation Lab therein)			Job No 6		ESTIMATED COST: Rs 4,96,307/-only. EARNEST MONEY: Rs.10,000/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying, installation, testing and commissioning of following capacity (Hot & Cold) 3 star Inverter Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with ammendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor having one year standard warranty on machine, five years warranty on PCB and 10 years warranty on compressor as required complete in all respects.					
	A.C. Unit 2 Ton capacity (Split Inverter)	6	71432.00	Rupees Seventy One Thousand Four Hundred Thirty Two Only	Each	428592
	Makes:- LG (Model No. : RS-H24VNXE.AN LG (R-32)/Voltas/Bluestar/O-General					
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130 volt to 270 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.					
	Automatic Voltage Stabilizer 5 KVA	6	5200.00	Rupees Five Thousand Two Hundred Only	Each	31200
	Makes:- V-Guard/Godrej/Whirlpool					

3	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	6 ✓	950.00	Rupees Nine Hundred Fifty Only	Each	5700 ✓
4	Providing & fixing of extra copper tubes for refrigerant and condensate of following sizes different capacity split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.					
	1/4" x 5/8" for 2 TR capacity AC Unit	22 ✓	1250.00	Rupees One Thousand Two Hundred Fifty Only	Per Meter	27500 ✓
5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	17 ✓	195.00	Rupees One Hundred Ninety Five Only	Per Meter	3315 ✓
	Total					496307 ✓

Schedule of quantity checked and approved for 496307 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Providing point wiring, power wiring and computer wiring in HP PWD B&R Division Office Building Shahpur, Distt. Kangra (H.P.)							ESTIMATED COST: Rs.3,04,997/-only.	
							EARNEST MONEY: Rs.6100/-only	
							TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	Job No 7					
			FIGURES	RATES	WORDS	UNIT	AMOUNT	
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.							
	Group C	22	1345	Rupees One Thousand Three Hundred Forty Five Only		Per Point	29590	
	Makes:- (KEI/Anchor/Plaza, L&T(Entice)/Legrand(Myrius)/Schneider(Livia)							
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.							
2.1	2x1.5 Sq. mm.	50	217	Rupees Two Hundred Seventeen Only		Per Meter	10850	
2.2	2x2.5 Sq. mm.	180	277	Rupees Two Hundred Seventy Seven Only		Per Meter	49860	
2.3	2x4 Sq. mm.	190	353	Rupees Three Hundred Fifty Three Only		Per Meter	67070	
2.4	2x10sq.mm	43.367	678	Rupees Six Hundred Seventy Eight Only		Meter	29403	
	Make:- KEI/Anchor/Plaza							

3	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
3.1	5/10 Amps. Modular switch	75	133	Rupees One Hundred Thirty Three Only	Each	9975
3.2	15/20 Amps. Modular switch	25	228	Rupees Two Hundred Twenty Eight Only	Each	5700
3.3	5/6 amp modular socket outlet	65	189	Rupees One Hundred Eighty Nine Only	Each	12285
3.4	15/16 amp modular socket outlet	25	343	Rupees Three Hundred Forty Three Only	Each	8575
3.5	Bell push	10	234	Rupees Two Hundred Thirty Four Only	Each	2340
	Makes:- L&T/Legrand/Schneider.					
4	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
4.1	2 Module	5	385	Rupees Three Hundred Eighty Five Only	Each	1925
4.2	3 Module	22	406	Rupees Four Hundred Six Only	Each	8932
4.3	4 Module	6	447	Rupees Four Hundred Forty Seven Only	Each	2682
4.4	6 Module	3	545	Rupees Five Hundred Forty Five Only	Each	1635
4.5	8 Module	18	667	Rupees Six Hundred Sixty Seven Only	Each	12006

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

7.3	Double door-8 way	1	1914	Rupees One Thousand Nine Hundred Fourteen Only	Each	1914
7.4	Double door-16 way	1	2971	Rupees Two Thousand Nine Hundred Seventy One Only	Each	2971
	Makes:- L&T/Legrand/Schneider.					
8	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	10	228	Rupees Two Hundred Twenty Eight Only	Each	2280
	Makes:- Anchor/Goldmedal/SSK					
9	Providing and fixing of IP20 LED Surface mounted CRCA Powder Coated Box type Channel system with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K,CRI 80, Surge Protection range 2 KV.The LED with Useful life of 50000 Hrs at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections etc. as required.					
	18 Watt LED Tube fixture with pro LED lamp	6	1512	Rupees One Thousand Five Hundred Twelve Only	Each	9072
	Makes: Philips/ Wipro/ Bajaj					

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

Schedule of quantity checked and approved for 304997 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

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

Job No 8

ESTIMATED COST: Rs. 2,97,987/-only.
EARNEST MONEY: Rs.6000/-only
TIME ALLOWED: Three Months

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

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

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

Schedule of quantity checked and approved for ₹ 297987 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing Air-conditioning units to ICU, In-Patient Ward, Skill Room and Pantry of Critical Care Skill Lab/Simulation Lab therein)

Job No 9

ESTIMATED COST: Rs 4,95,952/-only.
EARNEST MONEY: Rs.10,000/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying, installation, testing and commissioning of following capacity (Hot & Cold) 3 star Inverter Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with ammendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor having one year standard warranty on machine, five years warranty on PCB and 10 years warranty on compressor as required complete in all respects.					
	A.C. Unit 2 Ton capacity (Split Inverter)	6	71432.00	Rupees Seventy One Thousand Four Hundred Thirty Two Only	Each	428592
	Makes:- LG (Model No. : RS-H24VNXE.AN LG (R-32)/Voltas/Bluestar/O-General					
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130 volt to 270 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.					
	Automatic Voltage Stabilizer 5 KVA	6	5200.00	Rupees Five Thousand Two Hundred Only	Each	31200
	Makes:- V-Guard/Godrej/Whirlpool					

3	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	6	950.00	Rupees Nine Hundred Fifty Only	Each	5700
4	Providing & fixing of extra copper tubes for refrigerant and condensate of following sizes different capacity split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.					
	1/4" x 5/8" for 2 TR capacity AC Unit	20	1250.00	Rupees One Thousand Two Hundred Fifty Only	Per Meter	25000
5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	28	195.00	Rupees One Hundred Ninety Five Only	Per Meter	5460
	Total					495952

Schedule of quantities and prices for 495952-01-18

Executive Engineer
Electrical Division
HPPWD Palampur

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 10		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 FRLSort 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: Freshsee)/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 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 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 bent 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 Plas/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/KE/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/KE/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 quantities checked and approved for ₹ 2,92,292 only

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

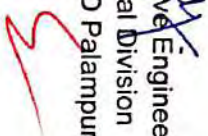
SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of HVAC System in Super Specialty Block Dr. RPGMC Kangra at Tanda. (SH: Replacement of damaged water storage tank, butterfly valves, iron net etc. for chiller plant and provide new water storage tank for condensor motor and chiller motor therein)			Job No 12 11		ESTIMATED COST: Rs 2,49,680/-only. EARNEST MONEY: Rs.5000/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and installation of water tank of following capacity and sizes having anti-bacterial layer, UV Sun shield layer and enhanced aesthetic layer protection and robust injection moulded threaded lid for secure sealing and certified by IAPMO under NSF/ANSI/CAN 61 standards complete with all accessories as required in all respect and to the best satisfaction of Engineer-in-Charge.					
1.1	1000 ltrs. capacity Water tank (1050mm dia. x 1220mm (H))	2	8200	Rupees Eight Thousand Two Hundred Only	Each	16400
1.2	2000 ltrs. capacity Water tank (1325mm dia. x 1600mm (H))	2	16400	Rupees Sixteen Thousand Four Hundred Only	Each	32800
	Make : Vectus/ Diplast/ Supreme					
2	Providing and fixing of iron stands suitable for water tanks and iron net for cooling tower as required complete in all respects and as per direction and satisfaction of Engineer in charge.	640	195	Rupees One Hundred Ninety Five Only	Per Kg.	124800
3	Providing & fixing brass float valve following size as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
	25mm dia.	4	1680	Rupees One Thousand Six Hundred Eighty Only	Each	6720

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

*Draft Schedule of Quantity checked and approved
for 249680/-*

Executive Engineer
Electrical Division
HPPWD Palampur



SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of E.I. to HP PWD Sub-Division office and Rest House at Lunj in Distt. Kangra (H.P.) (SH: Providing indoor and outdoor LED lighting along with Inverter and modular accessories therein)		Job No <u>19</u>		ESTIMATED COST: Rs. 1,60,622/-only. EARNEST MONEY: Rs. 3300/-only TIME ALLOWED: Three Months	
	DESCRIPTION	QTY.	RATES		AMOUNT
			FIGURES	WORDS	
1	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCconduit as required.				
	1 x 1.5 Sq.mm. in existing	70	42.00	Rupees Forty Two Only	2940
	Make:- KEI/Anchor/Finolex /Grandlay				
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required.				
	2x1.5 Sq. mm.	20	198.00	Rupees One Hundred Ninety Eight Only	3960
	Make:- KEI/Anchor/Finolex /Grandlay				
3	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.				
	25 mm dia.	20	87.00	Rupees Eighty Seven Only	1740
	Make:- BEC/Anchor/Finolex /Grandlay				
4	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required.				

	Armoured cable 6 sq. mm (Twin Core)	35	208.00	Rupees Two Hundred Eight Only	Per Meter	7280
	Makes:- Havells/KEI/Finolex /Grandlay					
5	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
5.1	5/10 Amps. Modular switch	8	93.00	Rupees Ninety Three Only	Each	744
5.2	15/20 Amps. Modular switch	6	164.00	Rupees One Hundred Sixty Four Only	Each	984
5.3	5/6 amp modular socket outlet	8	136.00	Rupees One Hundred Thirty Six Only	Each	1088
5.4	15/16 amp modular socket outlet	6	231.00	Rupees Two Hundred Thirty One Only	Each	1386
	Makes:- Legrand/L&T/Schneider.					
6	Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required.					
6.1	Ding Dong bell	1	206.00	Rupees Two Hundred Six Only	Each	206
	Makes:- Legrand/L&T/Schneider.					
7	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
7.1	6 Module	3	214.00	Rupees Two Hundred Fourteen Only	Each	642
7.2	12 Module	1	301.00	Rupees Three Hundred One Only	Each	301
	Makes:-Legrand/L&T/Schneider.					

8	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.					
	Single pole. 6-32 Amp. Cat-A.	3	239.00	Rupees Two Hundred Thirty Nine Only	Each	717
	Makes:-Legrand/L&T/Schneider.					
9	Providing and fixing of LED batten having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K,CRI 80, Surge Protection range 2 kV. The LED with useful life of 50000 Hrs. at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects. With 5 year warranty.					
	20W LED Batten	8	623.00	Rupees Six Hundred Twenty Three Only	Each	4984
	Makes: Wipro/Havells/Panasonic					
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.					
	LED Bulk Head Light 10W	4	1420.00	Rupees One Thousand Four Hundred Twenty Only	Each	5680
	Makes: Wipro/Havells/ Bajaj					

11	Providing and Fixing of LED fixture 600mmX600mm 36 Watt +/- 1W Recess mounted fixture with HET Plastic diffuser with minimum system lumen efficacy of 100 lm/W with CRCA housing having P.F.>0.95 with THD<10%, CRI 80. The LED with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. With 5 year Warranty.									
	LED Panel 2'x2' 36 Watt					1	3397.00	Rupees Three Thousand Three Hundred Ninety Seven Only	Each	3397
	Makes:- Panasonic/Mipro/Havells									
12	Supplying and fixing of 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 specifications i.e. power factor ≥ 0.95 , harmonic distortion $\leq 10\%$ and efficacy ≥ 80 lumens per watt, CRI > 70 , suitable for input voltage AC 150-270V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.as required. With 5 year Warranty.									
	LED 45 Watt Street light					2	5049.00	Rupees Five Thousand Forty Nine Only	Each	10098
	Makes:- Havells/Panasonic/Mipro									
13	Supplying and fixing of 35 Watt LED Post Top lantern energy saving. Pure polyester UV resistant powder coated, die-cast aluminium housing with PMMA clear diffuser, for uniform illumination with high power LEDs suitable for input voltage: AC 220-240V, 50/60Hz, complete with all accessories, including lamps and making connections, testing, commissioning etc. as required. With 5 year Warranty.									
	35W LED Post Top Lantern					5	8198.00	Rupees Eight Thousand One Hundred Ninety Eight Only	Each	40990

	Makes: Wipro/Havells/ Bajaj								
14	Supplying and fixing following size SMC Junction box suitable for pole mounting arrangement etc. as required.								
	SMC Junction box (230 x 170 x 105)	1	576.00		Rupees Five Hundred Seventy Six Only	Each	576		
	Makes: Sintex/Havells/ Schneider								
15	Providing & fixing of G.I. pipe following size as required complete in all respects and to the best satisfaction of Engineer-in-charge.								
	80 mm dia.	4	1840.00		Rupees One Thousand Eight Hundred Forty Only	Each	7360		
	Make: Jindal/Tata/ACME								
16	Supplying, installation, testing and commissioning of 2.5 KVA INVERTER along with 200 Ah 12V 02 nos. batteries and MS rack with top covered & interlink cables as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1	65549.00		Rupees Sixty Five Thousand Five Hundred Forty Nine Only	Each	65549		
	2.5 KVA Inverter/UPS System								
	Makes:- Microtek/Luminous/Livguard								
	Total						160622		

*Best schedule of quantity checked and approved
- July 160622/.*

Executive Engineer
Electrical Division
HPPWD Palampur

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SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of E.I. to Maternity O.T. & OPD-11 of 500 bedded hospital, Dr. RPGMC Kangra at Tanda. (SH: Replacement of old and damaged LEDs, fans etc. therein)		Job No 44 13		ESTIMATED COST: Rs. 4,07,106/-only. EARNEST MONEY: Rs.8200/-only TIME ALLOWED: Three Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required.					
	2x1.5 Sq. mm.	50	198.00	Rupees One Hundred Ninety Eight Only	Per Meter	9900
	Make:- KEI/Anchor/Finox					
2	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	10	469.00	Rupees Four Hundred Sixty Nine Only	Each	4690
	Makes:- Anchor-Roma/L&T/Schneider					
3	Providing, Installation, testing and commissioning of wall fan of following size by means of suitable rag-bolt/ nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer-in-charge.					
	Wall Fan 400 mm sweep	4	3041.00	Rupees Three Thousand Forty One Only	Each	12164
	Makes:- Usha/Havells/Bajaj					
4	Providing, Installation, testing and commissioning of BLDC ceiling fan (5 star rating), including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					

	BLDC Ceiling Fan 1200 mm sweep	4	4323.00	Rupees Four Thousand Three Hundred Twenty Three Only	Each	17292
	Makes:- Usha/Havells/Bajaj					
5	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.					
	Modular fan regulator - 2 Module	4	258.00	Rupees Two Hundred Fifty Eight Only	Each	1032
	Makes:- Anchor-Panasonic/Usha/Havells					
6	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.					
	LED Bulk Head Light 10W	4	1174.00	Rupees One Thousand One Hundred Seventy Four Only	Each	4696
	Makes: Wipro/Havells/ Bajaj					
7	Providing and Fixing of IP20 LED Surface mounted CRCA Powder Coated Box Type Channel with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv.The LED with Useful life of 50000 Hrs at L70 . The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. With 5 year Warranty.					

	LED fixture 1x18 Watt Surface Mounted 4 Feet Ultra Bright LED Tubelight	12	867.00	Rupees Eight Hundred Sixty Seven Only	Each	10404
	Makes: Havells/Wipro/Panasonic					
8	Providing and fixing of IP20 LED fixture of following +/- 1 W LED Surface/Recess 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.					
8.1	LED Recess mounting round downlighter 15 Watt	16	1273.00	Rupees One Thousand Two Hundred Seventy Three Only	Each	20368
8.2	LED Recess mounting round downlighter 18 Watt	10	1812.00	Rupees One Thousand Eight Hundred Twelve Only	Each	18120
8.3	LED Surface mounting round downlighter 18 Watt	40	1821.00	Rupees One Thousand Eight Hundred Twenty One Only	Each	72840
	Makes: Panasonic/Havells/ Wipro					
9	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc. With 5 year Warranty.					

	24 Watt LED 1'x1' Surface panel	4	2319.00	Rupees Two Thousand Three Hundred Nineteen Only	Each	9276
	Makes: Wipro/Havells/Bajaj					
10	Providing and fixing of 1200 mm x 300 mm LED fixture 36 W +/- 1W Surface/Recess mounted fixture with HET Plastic diffuser with CRCA Powder Coated housing having minimum system lumen efficacy 100lm/W with P.F.>0.95 with THD<10%. The LED with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V , 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. With 5 year Warranty.					
10.1	36 Watt LED Panel 4'x1' Surface panel	25	3964.00	Rupees Three Thousand Nine Hundred Sixty Four Only	Each	99100
10.2	36 Watt LED Panel 4'x1' Recess panel	24	5301.00	Rupees Five Thousand Three Hundred One Only	Each	127224
	Makes: Wipro/Panasonic/Havells					
	Total					407106

*Cost schedule of quantity checked and approved
 Date 4/07/16*

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 15 14		ESTIMATED COST: Rs 3,97,992/-only. EARNEST MONEY: Rs.8000/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		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 Font- 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 14/397992/e

Executive Engineer
Electrical Division
HPPWD Palampur

3

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY					ESTIMATED COST: Rs. 2,36,185/-only. EARNEST MONEY: Rs. 4800/-only TIME ALLOWED: Six Months	
NAME OF WORK :- Repair and Maintenance of E.I. to 500 Bedded Hospital Dr. RPGMC Kangra at Tanda. (SH: Rewinding of ceiling fans, replacement of fan condensers, fan regulators and extra down fan rods etc. in various Wards of ground floor to fourth floor and OPD area therein)			Job No 15			
	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Rewinding of ceiling fan 1200/1400 mm sweep new model with copper insulated wire HTP-34 number including varnishing, capacitor, ball bearing etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	272	670.00	Rupees Six Hundred Seventy Only	Each	182240
2	Providing and fixing extra conduit down rod of 20mm dia. x 60 cm with 16/0.20 mm twin twisted flexible, cotton braided, copper cable including painting, connections etc. as required:-	49	155.00	Rupees One Hundred Fifty Five Only	Each	7595
3	Replacement of fan condenser 2.5 MFD suitable for 1200/1400 ceiling fans as required complete in all respects and to the best satisfaction of Engineer-in-charge.	248	75.00	Rupees Seventy Five Only	Each	18600
4	Supplying and fixing stepped type fan regulator on the existing modular box including making connections etc. as required.	75	370.00	Rupees Three Hundred Seventy Only	Each	27750
Total						236185

Draft schedule of quantity checked and approved
for dt. 23/6/18 SL

Executive Engineer
Electrical Division
HPPWD Palampur

3

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 1		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, Corrision register, Coolent, 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.				
Corrision Register	01 No.				
Lubricant Oil Filter	01 No.				
Air Cleaner	01 No.				
Corrision 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	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

Defect Schedule of Quantity checked and approved
for Rs 239337/-

Executive Engineer
Electrical Division
HPPWD Palampur

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 <u>18</u> <u>17</u>		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 additional accommodation building of Chief Engineer (Kangra Zone) HPPWD Dharamshala, District Kangra (H.P.) (Providing LED Solar Lights for campus Lighting therein).				ESTIMATED COST: Rs.3,47,728/-only. EARNEST MONEY: Rs.7000/-only TIME ALLOWED: Two Year	
SR. NO.	DESCRIPTION	QTY.	job No /8		AMOUNT
			FIGURES	RATES WORDS	
1	Supplying and fixing 30 Watt All in One Smart Integrated Solar Street light (150 Lm/watt) with Five years on-site warranty, built in Mono Crystalline Panel, Lithium Ion Battery (LiFePO4), MPPT (Maximum Power Point Tracking) Charge Controller and PIS (Passive Infrared Sensor) Sensor with colour Temperature > 5500K including connections, testing etc. as required complete in all respects. Makes: Panasonic/Bajaj/Wipro.	8	35540.00	Rupees Thirty Five Thousand Five Hundred Forty Only	Each 284320
2	Supplying and erection of Galvanized Iron (G.I.) pipe pole 'C' Class of suitable length and dia. 4.47 mm thickness, including fixing up to a given depth below G/L. The hole of excavation about 30 cm dia. and given depth to be filled in up to 15 cm below G/L with 1:3:6 cement concrete and there above plinth with 1:2:4 cement concrete up to a height of 45 cm from G/L. The radial thickness of the plinth above G/L should not be less than 6.35 cm, the outer surface of the plinth to be finished with 1:3 cement plaster 6 mm thick, including painting of pole with two coats of approved color, brand and manufacture of paint over a priming coat complete in all respects as required:- Makes: Jindal/Tata				
	5 Meter long having nominal bore dia. 65 mm planting depth 80 cm with pit depth 95 cm.	8	7926.00	Rupees Seven Thousand Nine Hundred Twenty Six Only	Each 63408
	Total				347728

Draft Schedule of quantity checked and approved
- 24/11/2024 347728/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

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

Job No 19

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

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make: KEI/Plaza/Anchor.					
1.01	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	18	477	Rupees Four Hundred Seventy Seven Only	Per metre	8586
1.02	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	21	664	Rupees Six Hundred Sixty Four Only	Per metre	13944
2.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required Make: KEI/Plaza/Anchor.					
2.01	3 X 1.5 sq. mm	25	112	Rupees One Hundred Twelve Only	Per metre	2800
2.02	3 X 4 sq. mm	27	254	Rupees Two Hundred Fifty Four Only	Per metre	6858
3.00	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. Make:- L&T/Anchor/Legrand					
3.01	S.P. 5/6 Amps one way switch, piano type. Make:- L&T/Anchor/Legrand	10	45	Rupees Forty Five Only	Each	450
3.02	Bell push, piano type. Make:- L&T/Anchor/Legrand	2	64	Rupees Sixty Four Only	Each	128
3.03	S.P. 15/16 Amps one way switch, porcelain base/ piano type. Make:- L&T/Anchor/Legrand	10	138	Rupees One Hundred Thirty Eight Only	Each	1380

3.04	5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.Make:- L&T/Anchor/Legrand	10	73	Rupees Seventy Three Only	Each	730
3.05	6 pin 15/16 Amps socket outlet, porcelain base/ piano type.Make:- L&T/Anchor/Legrand	10	149	Rupees One Hundred Forty Nine Only	Each	1490
4.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required					
4.03	Bell push, Modular.	5	209	Rupees Two Hundred Nine Only	Each	1045
5.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: L&T (Entice)/Schneider (Livia)/ Legrand (Myrius).	5	591	Rupees Five Hundred Ninety One Only	Each	2955
6.00	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make: Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	5	760	Rupees Seven Hundred Sixty Only	Each	3800
7.00	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.Make:- GoldMedal/Anchor/SSK	5	119	Rupees One Hundred Nineteen Only	Each	595
8.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- Make:- GoldMedal/Anchor/SSK	3	189	Rupees One Hundred Eighty Nine Only	Each	567
9.00	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
9.01	Single pole 6 Amp (Make:- Schneider/ Legrand/L&T)	5	268	Rupees Two Hundred Sixty Eight Only	Each	1340
9.02	Single pole 16/32 Amp (Make:- Schneider/ Legrand/L&T)	10	268	Rupees Two Hundred Sixty Eight Only	Each	2680

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

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

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

24.01	Geyser Element 2000 Watt Triangular Type	6	880	Rupees Eight Hundred Eighty Only	Each	5280
25.00	Providing and erection of LED Streetlight 100 watt (10000 Lumen) 5700K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty Makes: Panasonic/Philips/ Bajaj/Wipro.	3	10443	Rupees Ten Thousand Four Hundred Forty Three Only	Each	31329
26.00	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering:- (Make:- KEI/ Plaza/Havells)					
26.01	Armoured cable 10 sq. mm (twin core) Makes: KEI/Havells/Plaza	200	361	Rupees Three Hundred Sixty One Only	Per Metre	72200
27.00	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast/Anchor/PolyFit)					
27.01	50 mm. dia	180	265	Rupees Two Hundred Sixty Five Only	Per Metre	47700
	Total					498129

Self checked and quantity checked and approved by 498129/2

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

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

Job No **20**

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

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

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

Booth schedule of quantity checked and approved to 205037/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I of VIDHAN SABHA Complex at Tapovan Dharamshala Distt Kangra (H.P) (SH : Providing UPS/Inverter for Vidhansabha complex					
SR. NO.		DESCRIPTION	QTY.	job No 2/	
				FIGURES	RATES WORDS
1.00		Supplying, erection, testing & commissioning of Pure sine wave Inverter and Online UPS of Following capacity suitable for back-up of power supply as required complete in all respects and to the best satisfaction of Engineer-in-Charge. Makes - Microtek/Delta power/V-guard			
1.01		Inverter/UPS sinewave 2350 +24V with Plastic trolley	1	24616	Rupees Twenty Four Thousand Six Hundred Sixteen Only
1.02		Inverter/UPS sinewave 3750 +24V without trolley and rack	1	34049	Rupees Thirty Four Thousand Forty Nine Only
1.03		Online UPS 6 KVA with MS rack and interlink cables	1	129419	Rupees One Lacs Twenty Nine Thousand Four Hundred Nineteen Only
1.04		Online UPS 10 KVA	1	191047	Rupees One Lacs Ninety One Thousand Forty Seven Only
2.00		Supplying and fixing the MS open Rack for mounting Batteries and Inverter/UPS with top covered as required complete in all respect.	1	26550	Rupees Twenty Six Thousand Five Hundred Fifty Only
				UNIT	AMOUNT

3.00	Supplying, erection, installation & commissioning of unearth maintenance free chemical earthing system consisting of environment friendly ground enhancing compound GEC 50 Kg or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of unearth copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should have coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 metre length, 17.2 mm diameter, terminal joint 200x25x6mm Copper strip with exothermic welds. The electrodes should be duly tested and certified by CPRI for 30 KAS short time current for 1 second r.m.s.as required complete in all respects and to the best satisfaction of Engineer-in-Charge.	2	23475	Rupees Twenty Three Thousand Four Hundred Seventy Five Only	Per Metre	46950
4.00	Providing and fixing 20mm x 3mm copper strip on surface or in recess for earth connections etc. as required.	60	691	Rupees Six Hundred Ninety One Only	Per Metre	41460
	Total					494091

Cost schedule of earthing checked and approved for Rs 494091/-

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- C/O War Museum at Dharamshala Distt Kangra (H.P) (SH: Damaged report of Fire Fighting System).			job No 22		ESTIMATED COST: Rs. 57,942/-only. EARNEST MONEY: Rs.1200/-only TIME ALLOWED: Six Month	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Providing & fixing Gun metal fire hydrant single headed landing valve with 80 mm N.B. flanged inlet, s.s spindle controlled 63 mm dia female instantaneous outlet type. SS coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS standards as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax/OMEX/ Padmini	1	17979.00	Rupees Seventeen Thousand Nine Hundred Seventy Nine Only	Each	17979
2.00	Providing & Fixing of 63 mm dia 15 m long non-percolating flexible hose (RRL- type A) as per IS : 636. Type A with Gun Metal male & female instantaneous type coupling (IS 903) (For internal and External hydrant system) as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax/OMEX/ Padmini	2	11045.00	Rupees Eleven Thousand Forty Five Only	Each	22090
3.00	Providing and Fixing Weather proof standard fire hose cabinet made of 18 SWG powder coated fibre. sheet having single or double opening glazed (3.0 mm thick glass) shutter including necessary locking arrangement by allan key, stove enamelled Fire red finish (as per IS : 5, shade no. 536) with "Fire Hose" marked on front, suitable for housing 2 nos. 15m long 63 mm dia Hose pipe, 1 No. branch pipe & nozzle spanner as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax/OMEX/ Padmini	1	7305.00	Rupees Seven Thousand Three Hundred Five Only	Each	7305

4.00	Providing Cast iron /steel Butterfly Valve Confirming to type P.N 1.6 of I.S 13095-1991 Complete with Flanges bolt, nuts, gasket etc. As per table 'E' specification complete in all respect hydraulically test to 20 K./sqcm. as required complete in all respects and to the best satisfaction of Engineer-in-charge. Makes:-Zoloto/Sant/Audco					
4.01	80 mm Dia	2	5284.00	Rupees Five Thousand Two Hundred Eighty Four Only	Each	10568
	Total					57942

Barishankar of all work checked and approved by 57942

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

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

Job No **23**

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

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

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

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

Dr. H. S. Subudhi, Executive Engineer, Electrical Division, HPPWD Palampur

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.						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 (Pantay/ 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.HRRFLS/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/rmt.	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/rmt	8690	
2.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	2	564	Rupees Five Hundred Sixty Four Only	P/rmt	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/Finox/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 (Pantay) 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 (Pantay) 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 batten/ angle holder including connection etc. as required. Make :- GoldMedal/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

Work sheet with quantity checked and approved by 75364/-

Executive Engineer
Electrical Division
HPPWD Palampur