

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2023-24/- 1765-73

Dated:

09/6/2023

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 **27-06-2023** 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 **26-06-2023** up to 4 00 P.M. and the application for issue of tender form shall be received on **24-06-2023** 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	Annual Repair and Maintenances of 01 No 100 KVA D G Set installed in OPD Block of Civil Hospital at Palampur for the Three years 2022-25.(2022-23,2023-24,2024-25)	267066/-	5400/-	Three Year	8	350/-
2	C/O Govt. Degree College Building at Dadasiba in Tehsil Kasba Kotla Distt Kangra (H.P)(SH- Providing Balance Work therein)	391238/-	7900/-	One Month	8	350/-
3	Replacement of safety devices in Vet Dispensary at Dadh Tehsil Palampur Distt. Kangra (H P)(SH- Providing E I therein)	174014/-	3500/-	Six Months	8	350/-
4	Construction of office Cum residence for C.I.D wing of police Department at Chamba Distt. Chamba (Sub-Head :- Providing Water Heater (Geyser) Therein)	162281/-	3300/-	Three Months	8	350/-
5	Replacement of Electrical Installations and switchgear system into new one HPPWD (B&R) Division(Drawing Branch) in Tehsil & Distt. Chamba (H.P)	492377/-	9900/-	One Year	8	350/-
6	Construction of 4 Nos. Additional Rooms in Govt Senior Secondary School Building at Kohlr in Tehsil & Distt. Chamba (H.P)(SH:- Providing E I therein).	390437/-	7900/-	Six Months	8	350/-
7	Replacement of Electrical Installation and switch gear system into new one in HPPWD (B&R) Division Chamba(N.H Sub- Division & A.E TO E E) in Tehsil & Distt Chamba.(H.P)	427151/-	8600/-	One Year	8	350/-

8	Replacement of damaged Street Lights near Vivekananda Hostel Dr RPGMC Kangra at Tanda	149705/-	3000/-	One Month	8	350/-
9	Repair and maintenance of E I to various Govt Residential Buildings in Dr RPGMC Kangra at Tanda (H P)(SH - R/M of E I to 1st Year MBBS Boys Hostel therein)	162433/-	3300/-	One Month	8	350/-
10	Repair and maintenance of E I to various Govt Residential Buildings in Dr RPGMC Kangra at Tanda (H P)(SH - R/M of E I to 1st Year MBBS Girls Hostel therein)	162433/-	3300/-	One Month	8	350/-
11	Repair & Maintenance of HVAC System installed in Super Specialty Block Dr RPGMC Kangra at Tanda	498500/-	10000/-	One Year	8	350/-
12	Repair & Maintenance of HVAC System installed in 500 Bedded Hospital Dr RPGMC Kangra at Tanda	498500	10000/-	One Year	8	350/-
13	Dismantling re-installation, testing and commissioning of 15/20 TR capacity Split /Window type Air- conditioning units and replacement of damaged copper tubes, gas charging etc to various air -conditioning units installed in 500 bedded Hospital Dr RPGMC Kangra at Tanda	214370/-	4300/-	Two Months	8	350/-
14	Replacement of old and damaged light fixtures with LEDs Fixture in Central Sterile Supply Department (CSSD) Area Service Block of 500 bedded hospital Dr RPGMC Kangra at Tanda	190542/-	3900/-	Two Months	8	350/-
15	C/o Ayurvedic Health Center at Salol in Tehsil and Distt. Kangra (H.P)(SH - Providing E.I therein)	184668/-	3700/-	One Year	8	350/-
16	C/o Ayurvedic Health Center at Samirpur in Tehsil and Distt Kangra (H P)(SH - Providing E I therein)	184668/-	3700/-	One Year	8	350/-
17	Replacement of old and damaged light fixtures with LEDs in Stairs area including ramp and corridors of 500 bedded hospital Dr RPGMC Kangra at Tanda	468725/-	9400/-	Two Months	8	350/-
18	C/O Additional accommodation in B&R Sub - Division Office Building at Tanda in Distt Kangra(H P)(SH - Providing E I therein)	325426/-	6600/-	Three Months	8	350/-
19	C/o Health Sub-Centre at Thana Bargran in Tehsil and Distt Kangra (H.P)(SH:- Providing E.I therein)	300367/-	6100/-	One year	8	350/-
20	Replacement of old /damaged FTL fixtures with new LEDs and providing geyser, exhaust fans, fan regulators etc in the Girls Hostel at Govt. Polytechnic Kangra in Distt Kangra (H P)	199464/-	4000/-	One Month	8	350/-
21	Replacement of old and damaged light fixtures with LEDs in 4 th floor of Corridor Area 500 bedded hospital Dr RPGMC Kangra at Tanda	151987/-	3100/-	Two Months	8	350/-

22	Replacement of old and damaged light fixtures with LEDs in 2 nd floor of 500 bedded hospital Dr RPGMC Kangra at Tanda	120550/-	2500/-	Two Months	8	350/-
23	Replacement of old and damaged light fixtures with LEDs in Medicine ICU 4 th floor of 500 bedded hospital Dr RPGMC Kangra at Tanda	141196/-	2900/-	Two Months	8	350/-
24	Replacement of old and damaged light fixtures with LEDs in 3rd floor of 500 bedded hospital Dr RPGMC Kangra at Tanda	114230/-	2300/-	Two Months	8	350/-

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DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- Annual Repair and Maintenance of 01 No.100 KVA D.G.Set installed in OPD Block of Civil Hospital at Palamapur for the Three Years 2022-25(2022-23,2023-24-2024-25).

Job No 12

ESTIMATED COST: Rs.2,67,066/-only.
EARNEST MONEY: Rs. 5400/-only
TIME ALLOWED: Three Years

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Annual repair and maintenance of DG Set 100 KVA along with AMF panel including providing 4 Nos quarterly services or after 250 running hours which ever is earlier for defect liability period of one year including replacement of all types of filters, i.e.separator water filter,pre - filter, lubricant oil filter, coolant, lubricant oil etc., testing commissioning of DG set in manual and auto modes etc. as required including emergency breakdown call attending service with Engineer/Supervisor of authorised company etc. and including the cost of replacements of batteries as per the requirement of site as required complete in all respects as per the requirement of site as required complete in all respects as per satisfaction of Engineer-in-charge.					
4093731	Check Kit for Filter					
	= 1 No.					
3931063	Air Filter Kit					
	= 1 No.					
3937736	Coolant					
	= 1 No.					
3238358	Lubricant Oil					
	= 20 Liters.					
	Labour Charges L-S	1	267066	Rupees Two Lacs Sixty Seven Thousand Sixty Six Only	Per Job	267066
	Total					267066

Draft Schedule of quantity checked and approved for ₹ 267066 only

Executive Engineer
Electrical Division
HPPWD Palamapur

SCHEDULE OF QUANTITY

NAME OF WORK:- C/O Govt. Degree College Building at Dadasiba in Tehsil Kasba Kotta Distt Kangra (HP) (SH:- Providing Balance Work there in).

Job No. 2

ESTIMATED COST: Rs.3,91,238/-only.
EARNEST MONEY: Rs.7900/-only
TIME ALLOWED: One Month

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing LED Recess type 2X2 luminaire to enhance the delight of occupants with comfortable experience through its classic design and glare free soft illumination ,suitable for surface application with the use of the latest technology 36 watt (3600 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.					
i	LED Recess 2X2 Luminaire-36Watts	32	5409	Rupees Five Thousand Four Hundred Nine Only	Each	173088
	Makes: Bajaj/Panasonic/Wipro					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire					
i	Makes: Plaza/KEI/SCI	290	657	Rupees Six Hundred Fifty Seven Only	P/Mtr	190530
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCconduit as required.					
i	S/D 3 X 6 sq. mm	50	368	Rupees Three Hundred Sixty Eight Only	P/Mtr	18400
	Makes: Plaza/KEI/SCI					

4	Providing and drawing LAN cable CAT6 UTP LS0H, UL & ETL Certified, in existing PVC conduit/ casing and capping as required to have complete solution in all respects and to best satisfaction of engineer in charge.					
i	Makes:- Molex/Belden /Panduit / Corning/ Dlink	120	70	Rupees Seventy Only	P/Mtr	8400
5	Providing and fixing Face Plate single Port square plate, 86MMX86MM with plug in icons icon tree, write on labels in transparent plastic window- supplied with plate, should be UL listed, making connection, testing etc or as required complete in all respects and to the best satisfaction of Engineer-in-charge.					
i	1 or 2 Module(75mmX75mm) Makes:- Molex/Belden /Panduit / Corning/ Dlink	2	155	Rupees One Hundred Fifty Five Only	Each	310
6	Supplying, Installation and fixing of CAT6 information outlet(I/O) shuttered of following colours conforming to Cat 6 Standards, as required to have complete solution in all respects and to best satisfaction of engineer in charge.					
i	White					
	Makes:- Molex/Belden /Panduit / Corning/ Dlink	2	255	Rupees Two Hundred Fifty Five Only	Each	510
	Total					391238

Best schedule of all work approved by 391238/2

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK:- Replacement of safety devices in Vet. Dispensary at Dadh in Tehsil Palampur Distt. Kangra HP (SH:- Providing E I therein)						
SCHEDULE OF QUANTITY						
		Job No. 3		ESTIMATED COST: Rs.1,74,014/-only. EARNEST MONEY: Rs.3500/-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 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.	25	1824	Rupees One Thousand Eight Hundred Twenty Four Only	Per point.	45600
	SCI/KEI/Plaza make					
2	supplying and fixing following type of Surface mounted luminaire , white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Fectore> 0.9, Harmonic Distortion < 10% and efficacy> 100 lumens per watt, CRI rating >70 Suitable for input voltage AC 220-240 V , 50 Hz, Complete with all accessories , connections,testing and commissioning etc. as required with 5 years warranty					
	LED Batten light 20 W	8	761	Rupees Seven Hundred Sixty One Only	Each	6088
	Make Crompton Cat. no. CCS-100-20-65-HL2-DP-NWH/ Bajaj/ Wipro					
3	Providing and installation of LED fixture 15 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F > 0.95 with THD <20%, CCT 6000 K,CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V with 5 years warranty					
	LED Surface mounting round downlighter 15 watt	2	1904	Rupees One Thousand Nine Hundred Four Only	Each	3808
	Makes :- Wipro (Cat No :-LL20-281-xxx-AL-1/Philips/Bajaj)					

4	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	Ceiling Fan 1200 mm sweep, Category-A	4	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	12764
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star, Philips, Bajaj					
5	Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P. F \geq 0.95 with THD <10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V .	6	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	8592
	Makes :-Wipro (Cat. No.:-LW07-141-XXX-57-G1) Philips/Bajaj .					
6	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	1	187	Rupees One Hundred Eighty Seven Only	Each	187
	Gold Medal/Anchor make					
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	19	582	Rupees Five Hundred Eighty Two Only	Each.	11058
	L&T/Legrand/Schneider make					
8	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	8	750	Rupees Seven Hundred Fifty Only	Each.	6000
	L&T/Legrand/Schneider make					
9	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	35	473	Rupees Four Hundred Seventy Three Only	P/Mtr.	16555
	SCI/KEI/Plaza make					
10	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	25	755	Rupees Seven Hundred Fifty Five Only	P/Mtr.	18875
	SCI/KEI/Plaza make					

11	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	27	395	Rupees Three Hundred Ninety Five Only	P/Mtr.	10665
	2x6Sqmm+ 1 X 6 sq. mm earth wire	2	657	Rupees Six Hundred Fifty Seven Only	P/Mtr.	1314
	SCI/KEI/Plaza make					
12	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel PVC conduit as required					
	3x2.5 sq mm	15	171	Rupees One Hundred Seventy One Only	P/Mtr.	2565
	SCI/KEI/Plaza make					
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, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required.-(But without MCB/RCCB/Isolator)					
	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
	L&T/Legrand/Schneider make					
14	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts, 10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
	6 Amp Single pole. Cat-A.	3	265	Rupees Two Hundred Sixty Five Only	Each	795
	16 Amp Single pole. Cat-A.	8	265	Rupees Two Hundred Sixty Five Only	Each	2120
	L&T/Legrand/Schneider make					
15	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	63 Amps. Cat-A.	1	616	Rupees Six Hundred Sixteen Only	Each	616
	L&T/Legrand/Schneider make					

16	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	63 Amps. Cat-A.	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616	
	L&T/Legrand/Schneider make						
17	Earthing with G.I. earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. etc. (with charcoal or coke and salt) complete as required.	1	8592	Rupees Eight Thousand Five Hundred Ninety Two Only	Per set	8592	
18	Providing and laying earthing connection from earth electrode with 4.00mm dia G.I. wire in 15mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required	25	40	Rupees Forty Only	Per Mtr	1000	
	L&T/Legrand/Schneider make						
19	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:-						
	25 Liter capacity water heater (Cat-A)	1	10250	Rupees Ten Thousand Two Hundred Fifty Only	Each	10250	
	Make :- Bajaj, Recold, Usha						
	Total					174014	

Def + Sured used quantity checked and approved - July 17/2014

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- construction of office Cum residence for C.I.D. wing of Police Department at Chamba Distt. Chamba (HP) (Sub- Head:- Providing Water Heater (Geyser) therein).					
SR. NO.	DESCRIPTION	QTY.	Job No 4		ESTIMATED COST: Rs 1,62,281/-only. EARNEST MONEY: Rs.3300/-only TIME ALLOWED: Three Months
			FIGURES	RATES WORDS	
1	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:-				
I.1	P/I 25 liter capacity water heater (Cat.-A).	7	12321	Rupees Twelve Thousand Three Hundred Twenty One Only	Each
I.2	P/I 15 liter capacity water heater (Cat.-A).	7	10862	Rupees Ten Thousand Eight Hundred Sixty Two Only	Each
Total					162281

Best schedule of Quantity checked and approved by 162281/T

Executive Engineer
Electrical Division
HPPWD Palampur

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DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:- Replacement of Electrical Installation and switch gear system into new one HPPWD (B&R) Division (Drawing Branch) in Tehsil & Distt. Chamba. (H.P.).

Job No. 5

ESTIMATED COST: Rs.4,92,377/-only.
EARNEST MONEY: Rs.9900/-only
TIME ALLOWED: One Year

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make:- KEI/Anchor/Plaza/SCI					
i	Group C	61	1823.00	Rupees One Thousand Eight Hundred Twenty Three Only	P/Point	111203
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Make:- KEI/Anchor/Plaza/SCI					
2.1	2 X 1.5 sq. mm	80	335.00	Rupees Three Hundred Thirty Five Only	P/Mtr	26800
2.2	2 X 2.5 sq. mm	90	395.00	Rupees Three Hundred Ninety Five Only	P/Mtr	35550
2.3	2x4.0 Sq. mm.	90	471.00	Rupees Four Hundred Seventy One Only	P/Mtr	42390
2.4	2x6 Sq. mm.	2	657.00	Rupees Six Hundred Fifty Seven Only	P/Mtr	1314
3	Wiring for circuit / sub-main wiring alongwith earth wire with the following sizes of FRLSPVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make:- KEI/Anchor/Plaza/SCI					
3.1	4x4 Sq. mm.	70	771.00	Rupees Seven Hundred Seventy One Only	P/Mtr	53970

4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make:- KEI/Anchor/Plaza/SCI					
4.1	3x2.5 Sq. mm.					
5	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.. Makes:- L&T/Legrand/Schneider	20	171.00	Rupees One Hundred Seventy One Only	P/Mtr	3420
5.1	1 or 2 module (75mmx75mm).					
6	Supplying and fixing suitable size, GI box with modular plate base & cover plate for modular switches in recess etc as required.. Makes:- L&T/Legrand/Schneider	12	276	Rupees Two Hundred Seventy Six Only	Each	3312
6.1	3 module - Modular GI box with Modular base & cover plate	3	582.00	Rupees Five Hundred Eighty Two Only	Each	1746
6.2	6 module - Modular GI box with Modular base & cover plate	12	750.00	Rupees Seven Hundred Fifty Only	Each	9000
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).. Makes:- L&T/Legrand/Schneider					
7.1	Modular G.I box for 12 mudule	12	1366.00	Rupees One Thousand Three Hundred Sixty Six Only	Each	16392
8	Supplying and drawing Lan Cable Cat 6 solid copper conductor protected with PVC sheath in the existing surface/recessed, steel/PVC conduit as required.					
8.1	1 Pair.	120	47.00	Rupees Forty Seven Only	Each	5640
9	Supplying and fixing RJ 45 jack with cat 6 in the existing switch box/cover plate including conections etc. as required.					
9.1	RJ 45 Comp. socket Cat-6.	12	489.00	Rupees Four Hundred Eighty Nine Only	Each	5868
10	Supplying and Fixing of following size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
10.1	PVC conduit 25mm..Make:- PolyFit/Sidarth/Diplast.	120	113.00	Rupees One Hundred Thirteen Only	Each	13560

11	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts. complete as required	9	117.00	Rupees One Hundred Seventeen Only	Each	1053
12	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required with 3 rated star. Make:- Usha/Bajaj/Crompton					
12.1	Ceiling Fan 1200 mm sweep	9	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	28719
12.2	Ceiling Fan 1400 mm sweep	4	3252	Rupees Three Thousand Two Hundred Fifty Two Only	Each	13008
13	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. with 3 rated star. Make:- Usha/Bajaj/Crompton					
13.1	Exhaust Fan, light duty 300mm	2	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	4538
14	Providing and installation of following type of surface mounting square type LED down light luminaire CCT(K)-6500 with specifications i.e power factor > 0.9, Harmonic Distortion <20% and efficacy > 100 lumens per watt, CRI rating >80 suitable for Input voltage: AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects with 5 year warranty. Make:Panasonic/Philips/Wipro.					
14.1	Square LED Panel Light 18 W surface.	2	1042	Rupees One Thousand Forty Two Only	Each	2084
15	Providing and Fixing of LED fixture 600mmX600mm 36 Watt +/- 1W Surface mounted fixture with HET Plastic diffuser with minimum system lumen efficacy of 100 lm/W with CRCA housing having P.F.>0.95 with THD<10% ,CRI 80. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc as required complete in all respects with 5 year warranty. Make:Panasonic/Philips/Wipro.					

15.1	LED Panel 2'x2' 36 watt	2	5880.00	Rupees Five Thousand Eight Hundred Eighty Only	Each	11760
16	Providing and erection of LED 45 Watt street light luminaries, powder coated pressure die-cast aluminium SMDLED street light with heat resistant toughened glass including glass including connections, testing and commissioning etc. as required. with 5 year warranty. Make:Panasonic/Philips/Wipro.					
16.1	Street Light LED-45 watt.	3	6168	Rupees Six Thousand One Hundred Sixty Eight Only	Each	18504
17	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty. Make:Panasonic/Philips/Wipro.					
17.1	LED Tube Fixture 20Watt	22	1044	Rupees One Thousand Forty Four Only	Each	22968
18	Wall light fixture, brushed nickel finish body, opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base. Make:Philips/Bajaj/Decon					
18.1	Fancy wall bracket.	3	1642	Rupees One Thousand Six Hundred Forty Two Only	Each	4926
19	Providing and fixing of IP65 system Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F. > 0.95 with THD $< 10\%$, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. with 5 year warranty. Make:Panasonic/Philips/Bajaj.					
19.1	LED Bulk Head Light 10W	5	1736	Rupees One Thousand Seven Hundred Thirty Six Only	Each	8680

20	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects. Make: Panasonic/Philips/Bajaj.						
20.1	7 Watt LED, B-22	8	199	Rupees One Hundred Ninety Nine Only	Each	1592	
21	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator). Makes:- L&T/Legrand/Schneider						
21.1	Double door-4 way	3	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	4716	
21.2	Double door-16 way	3	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	8862	
23	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- Makes:- L&T/Legrand/Schneider						
23.1	Single pole.	36	265	Rupees Two Hundred Sixty Five Only	Each	9540	
24	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider						
24.1	63 Amps.	2	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	7232	
25	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider						
25.1	63 Amps.	2	616	Rupees Six Hundred Sixteen Only	Each	1232	

26	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. Make:- Anchor, Legrand, Schneider. Makes:- L&T/Legrand/Schneider					
26.1	3 pole MCCB-100 Amps. 10KA					
27	Providing and fixing Enclosure for MCCBs suitable for 3Pole & 4Pole MCCBs etc. AR as required complete in all respect. Makes:- L&T/Legrand/Schneider	1	6848	Rupees Six Thousand Eight Hundred Forty Eight Only	Each	6848
28	Supplying and fixing TP&N copper bus bar chamber suitable for 415 volts capacity with 4 No. copper strip bus-bars of length and x-section suitable for following current carrying capacities, enclosure made of steel, dust protected, duly powder painted with detachable gland plate and other accessories including drilling holes on the board, making connections, earthing etc. as required	1	1949	Rupees One Thousand Nine Hundred Forty Nine Only	Each	1949
28.1	Copper Bus-Bar Chambers 15" 100 Amps.	1	4001	Rupees Four Thousand One Only	Each	4001
	Total					492377

Draft Schedule of quantity checked and approved for

492377 only

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:- Construction of 4 Nos. Additional Rooms in Govt Senior Secondary School Building at Kohli in Tehsil & and District Chamba (H.P.). (SH:- Providing E.I. therein.)

Job No. 66

ESTIMATED COST: Rs. 3,90,437/- only.
EARNEST MONEY: Rs. 7900/- only
TIME ALLOWED: Six Months

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
1.1	Group C	76	1823.00	Rupees One Thousand Eight Hundred Twenty Three Only	Point	138548
	Make : KEI/Plaza/Anchor/SCI					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Make : KEI/Plaza/Anchor/SCI					
2.1	2 X 2.5 sq. mm	100	395.00	Rupees Three Hundred Ninety Five Only	P/Mtr	39500
2.2	2x4.0 Sq. mm.	40	471.00	Rupees Four Hundred Seventy One Only	P/Mtr	18840
2.3	2 X 06 sq. mm	10.69	657.00	Rupees Six Hundred Fifty Seven Only	P/Mtr	7020
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make : KEI/Plaza/Anchor/SCI					
3.1	4x4.0 Sq. mm.	20	771.00	Rupees Seven Hundred Seventy One Only	P/Mtr	15420
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make : KEI/Plaza/Anchor/SCI					

3.1	3x2.5 Sq. mm.	14	171.00	Rupees One Hundred Seventy One Only	P/Mtr	2394
	Make : KEI/Plaza/Anchor/SCI					
5	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. Make:- L&T/Legrand/Schneider					
5.2	6 module - Modular GI box with Modular base & cover plate	5	750.00	Rupees Seven Hundred Fifty Only	Each	3750
6	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections testing and commissioning etc. as required. Make:- Crompton/Usha/Bajaj					
6.1	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	6807
7	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on box the fan and earthing etc. as required. with 3 rated star Make:- Crompton/Usha/Bajaj					
7.1	Ceiling Fan 1200 mm sweep	16	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	51056
8	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. with 5 year warranty Make:- Wipro/Panasonic/Philips.					
8.1	LED Tube Fixture 20Watt	30	975	Rupees Nine Hundred Seventy Five Only	Each	29250
9	Providing and erection of LED 45 Watt street light luminaries, powder coated pressure die-cast aluminium SMDLED street light with heat resistant toughened glass including glass including connections, testing and commissioning etc. as required. with 5 year warranty Make:- Wipro/Panasonic/Philips.					

9.1	Street Light LED-45 watt.					
10	Providing and installation of following type of surface mounting Square type LED down light luminaire CCT(K)-6500 with specifications i.e power factor > 0.9, Harmonic Distortion <20% and efficacy > 100 lumens per watt, CRI rating >80 suitable for Input voltage: AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects..with 5 year warranty Make:- Wipro/Panasonic/Philips.	2	6167	Rupees Six Thousand One Hundred Sixty Seven Only	Each	12334
10.1	Square LED Panel Light 12 W surface.	10	782	Rupees Seven Hundred Eighty Two Only	Each	7820
11	Providing and fixing of IP65 system Bulkhead led fixture 10 W +/ 1 W Wall Mounted with minimum lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F. >0.95 with THD<10% , CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..with 5 year warranty Make:- Wipro/Panasonic/Philips.					
11.1	LED Bulk Head Light 10W	15	1736	Rupees One Thousand Seven Hundred Thirty Six Only	Each	26040
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator) Make:- L&T/Legrand/Schneider					
12.1	Double door-4 way	1	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	1572
12.2	Double door-12 way	2	2309	Rupees Two Thousand Three Hundred Nine Only	Each	4618

13	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required. Make:- L&T/Legrand/Schneider						
13.1	Single pole.	18	265	Rupees Two Hundred Sixty Five Only	Each	4770	
14	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Legrand/Schneider						
14.1	40 Amps.	2	488	Rupees Four Hundred Eighty Eight Only	Each	976	
14.2	63 Amps.	1	616	Rupees Six Hundred Sixteen Only	Each	616	
15	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. Make:- L&T/Legrand/Schneider						
15.1	40 Amps.	2	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	5430	
15.2	63 Amps.	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616	
16	Earthing with G.I earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/coke and salt as required.	1	8830	Rupees Eight Thousand Eight Hundred Thirty Only	Per set	8830	
17	Providing and laying earth connection from earth with 4.00mm dia copper wire in 15 mm dia G.I pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	30	41	Rupees Forty One Only	P/Run. Mtrs.	1230	
Total						390437	

Self Schedule of quantity checked and approved for ₹ 390437 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of Electrical Installation and switch gear system into new one in HPPWD (B&R) Division Chamba (N.H Sub-Division & A.E.to E.E.) in Tehsil & Distt. Chamba. (H.P).						
SR. NO.		DESCRIPTION	QTY.	job No 107		ESTIMATED COST: Rs.4,27,151/-only. EARNEST MONEY: Rs.8600/- only TIME ALLOWED: One Year
				FIGURES	RATES WORDS	
1		Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- SC/KEI/Plaza				
1.1		Group C	55	1823.00	Rupees One Thousand Eight Hundred Twenty Three Only	P/Point 100265
2		Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Make :- SC/KEI/Plaza				
2.1		2 X 1.5 sq. mm	20	335.00	Rupees Three Hundred Thirty Five Only	P/Mtr 6700
2.2		2 X 2.5 sq. mm	20	395.00	Rupees Three Hundred Ninety Five Only	P/Mtr 7900
2.3		2x4.0 Sq. mm.	50	471.00	Rupees Four Hundred Seventy One Only	P/Mtr 23550
2.4		2x6 Sq. mm.	7	657.00	Rupees Six Hundred Fifty Seven Only	P/Mtr 4599
3		Wiring for circuit / sub-main wiring alongwith earth wire with the following sizes of FRLSPVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make :- SC/KEI/Plaza				
3.1		4x4 Sq. mm.	90	771.00	Rupees Seven Hundred Seventy One Only	P/Mtr 69390
4		Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make :- SC/KEI/Plaza				

4.1	3x2.5 Sq. mm.	20	171.00	Rupees One Hundred Seventy One Only	P/Mtr	3420
5	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.Make :- L&T/Schender/Legrand					
5.1	1 or 2 module (75mmx75mm).	7	276	Rupees Two Hundred Seventy Six Only	Each	1932
6	Supplying and fixing suitable size, GI box with modular plate base & cover plate for modular switches in recess etc as required.Make :- L&T/Schender/Legrand					
6.1	3 module - Modular GI box with Modular base & cover plate	4	582.00	Rupees Five Hundred Eighty Two Only	Each	2328
6.2	6 module - Modular GI box with Modular base & cover plate	16	750.00	Rupees Seven Hundred Fifty Only	Each	12000
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).Make :- L&T/Schender/Legrand					
7.1	Modular G.I box for 12 module	7	1366.00	Rupees One Thousand Three Hundred Sixty Six Only	Each	9562
8	Supplying and drawing Lan Cable Cat 6 solid copper conductor protected with PVC sheath in the existing surface/recessed, steel/PVC conduit as required.Make :- SCI/KEI/Plaza					
8.1	1 Pair.	94	47.00	Rupees Forty Seven Only	Each	4418
9	Supplying and fixing RJ 45 jack with cat 6 in the existing switch box/cover plate including connections etc. as required.Make :- SCI/KEI/Plaza					
9.1	RJ 45 Comp. socket Cat-6.	7	489.00	Rupees Four Hundred Eighty Nine Only	Each	3423
10	Supplying and Fixing of following size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.Make :- BEC/PolyFit /Diplast.					

10.1	PVC conduit 25mm.	90	113.00	Rupees One Hundred Thirteen Only	Each	10170
11	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required Make :- GoldMedal/Anchor/Havells.	7	117.00	Rupees One Hundred Seventeen Only	Each	819
12	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required. With 3 rated star Make:- Crompton /Usha Bajaj					
12.1	Ceiling Fan 1200 mm sweep	4	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	12764
12.2	Ceiling Fan 1400 mm sweep	6	3252	Rupees Three Thousand Two Hundred Fifty Two Only	Each	19512
13	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:- Crompton /Usha/Bajaj					
13.1	Exhaust Fan, light duty 300mm	3	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	6807
14	Providing and installation of following type of surface mounting square type LED down light luminaire CCT(K)-6500 with specifications i.e power factor > 0.9, Harmonic Distortion <20% and efficacy > 100 lumens per watt, CRI rating >80 suitable for Input voltage: AC 220-240 V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects. with 5 year warranty. Make :- Wipro /Panasonic/Bajaj					
14.1	Square LED Panel Light 18 W surface.	10	1042	Rupees One Thousand Forty Two Only	Each	10420

15	Providing and installation of LED fixture 1200mmx300mm 36 W+/- 1 W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA Diffuser with P.F>0.95, THD<10%, CCT 5700 K, CRI 80, The LED shall be tested with LM80-08 standard with Useful life 50000 Hrs at L70 Bajaj Cat. No. BzSSL 36L LED WH I/Wipro/philips. with 5 year warranty.					
15.1	Rectangular LED panel Light 4x1 36 Watt Surface	6	6219.00	Rupees Six Thousand Two Hundred Nineteen Only	Each	37314
16	Providing and erection of LED 45 Watt street light luminaries, powder coated pressure die-cast aluminium SMDLED street light with heat resistant toughened glass including glass including connections, testing and commissioning etc. as required. with 5 year warranty. Make :- Wipro /Philips/Bajaj					
16.1	Street Light LED-45 watt.	2	6167	Rupees Six Thousand One Hundred Sixty Seven Only	Each	12334
17	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor \geq 0.9, harmonic distortion \leq 10% and efficacy \geq 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required.with 5 year warranty. Make :- Wipro /Philips/Bajaj					
17.1	LED Tube Fixture 20Watt	7	975	Rupees Nine Hundred Seventy Five Only	Each	6825
18	Wall light fixture, brushed nicke liffinish body, opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base.with 5 year warranty Make :-Decon /Philips/Bajaj					
18.1	Fancy wall bracket.	5	1645	Rupees One Thousand Six Hundred Forty Five Only	Each	8225

19	Providing and fixing LED Mirror Light of IP20 Feet Led fixture 10 W+/- 1W with Surface Mounted 2 with Polycarbonate diffuser with Extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F.>0.95 with THD 20% ,CRI 80 .The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 6500 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. with 5 year warranty. Make :- Philips/Bajaj					1
19.1	LED Mirror Light 10W Wipro/Bajaj	1	665	Rupees Six Hundred Sixty Five Only	Each	665
20	Providing and fixing of IP65 system Bulkhead led fixture 10 W +/ 1 W Wall Mounted with minimum lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing. Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% ,CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects. with 5 year warranty. Make :- Wipro /Philips/Bajaj					
20.1	LED Bulk Head Light 10W	5	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	7160
21	Supplying and fixing PVC batten/angle holder including connection etc. as required. Make:- GoldMedal/Anchor/Havells	1	94	Rupees Ninety Four Only	Each	94
22	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects.					
22.1	7 Watt LED, B-22	7	199	Rupees One Hundred Ninety Nine Only	Each	1393

23	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required.-(But without MCB/RCCB/isolator) Make :- L&T/Schender/Legrand					
23.1	Double door-4 way	2	1572	Rupees One Thousand Five Hundred Seventy Two Only	Each	3144
23.2	Double door-12 way	2	2309	Rupees Two Thousand Three Hundred Nine Only	Each	4618
23.3	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
24	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-Make :- L&T/Schender/Legrand					
24.1	Single pole.	34	265	Rupees Two Hundred Sixty Five Only	Each	9010
25	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make :- L&T/Schender/Legrand					
25.1	40 Amps.	2	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	5430
25.2	63 Amps.	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
26	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/Schender/Legrand					

26.1	40 Amps.	2	488	Rupees Four Hundred Eighty Eight Only	Each	976
26.2	63 Amps.	1	616	Rupees Six Hundred Sixteen Only	Each	616
27	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. Make:- Anchor, Legrand, Schneider. Make :- L&T/Schender/Legrand					
27.1	3 pole MCCB-100 Amps. 10KA	1	6848	Rupees Six Thousand Eight Hundred Forty Eight Only	Each	6848
28	Providing and fixing Enclosure for MCCBs suitable for 3Pole & 4Pole MCCBs etc. AR as required complete in all respect. Make :- L&T/Schender/Legrand	1	1949	Rupees One Thousand Nine Hundred Forty Nine Only	Each	1949
29	Supplying and fixing TP&N copper bus bar chamber suitable for 415 volts capacity with 4 No. copper strip bus-bars of length and x-section suitable for following current carrying capacities, enclosure made of steel, dust protected, duly powder painted with detachable gland plate and other accessories including drilling holes on the board, making connections, earthing etc. as required Make :- L&T/Schender/Legrand					
29.1	Copper Bus-Bar Chambers 15" 100 Amps.	1	4001	Rupees Four Thousand One Only	Each	4001
	Total					427151

*Draft schedule of quantity checked and approved
- Jan 4 2015 / C*

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of damaged street lights at double lane near Vivekanand Hostel Dr. RPGMC Kangra at Tanda.

Job No 8

ESTIMATED COST: Rs.1,49,705/-only.
EARNEST MONEY: Rs.3000/- only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and fixing of LED street light luminaire with the use of the latest technology 70 Watt (7000 lumens), 5700K made of preasure die cast aluminium housing with high efficiency light and it should be compatible with specifications i.e. IP 66 protection 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 70 Watt Street light	11	7924.00	Rupees Seven Thousand Nine Hundred Twenty Four Only	Each	87164
	Makes:- Havells/Wipro/Bajaj					
2	Providing and fixing of street light pole box with MCB strip, cable terminal, locking system, cable entry holes as required complete in all respect.	11	1050.00	Rupees One Thousand Fifty Only	Each	11550
3	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 06 Sq.mm. (2 core)	150	202.00	Rupees Two Hundred Two Only	Each	30300
	Makes:- KEI/Plaza/Havells/SCI					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
	3 x 2.5 sq. mm	121	171.00	Rupees One Hundred Seventy One Only	P/mts	20691
	Makes:- KEI/Plaza/Havells/SCI					
	Total					149705

Draft schedule of quantity checked and approved
14/11/2023

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:- Repair and Maintenance of E.I to various Govt. Residential building in Dr. RPGMC Kangra at Tanda (SH:- R/M of E.I to 1st year MBBS Boys hostel therein).

Job No. 09

ESTIMATED COST: Rs.1,62,433/- only.
EARNEST MONEY: Rs.3300/-only
TIME ALLOWED: One Month

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.0	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.					
	2X1.5 sq. mm + 1X1.5 sq. mm earth wire	45	212.00	Rupees Two Hundred Twelve Only	P/meter	9540
	(Make:-KEI / Anchor / Plaza/SCI)					
2.0	Supplying and drawing following sizes of FRLC PVC insulated copper conductor, single core cable in the existing surface recessed steel/PVC conduit as required					
	S/D 2x4 Sq. mm	45	179.00	Rupees One Hundred Seventy Nine Only	P/meter	8055
	(Make:-KEI / Anchor / Plaza/SCI)					
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
3.1	15/20 Amps. Modular switch	40	225.00	Rupees Two Hundred Twenty Five Only	Each	9000
	Makes:-L&T/Legrand/Shenieder					
4.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
4.1	15/16 amp modular socket outlet					
	Makes:-L&T/Legrand/Shenieder	50	340.00	Rupees Three Hundred Forty Only	P/point	17000

5	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects.					
5.1	LED Bulb 9 Watt	70	133.00	Rupees One Hundred Thirty Three Only	Each	9310
	Makes:- Anchor/Havells/Osram					
6.0	Supplying and fixing 7 Watt LED Study Lamp suitable for holder base fittings with full ceramic body CCT 6000K as required complete in all respects. Makes:- Anchor/Havells/Osram					
6.1	Study Lamp 7 Watt	40	279.00	Rupees Two Hundred Seventy Nine Only	Each	11160
7	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required, complete in all respects with 5 year warranty.					
7.1	18/20 Watt LED TubeRod	65	544.00	Rupees Five Hundred Forty Four Only	Each	35360
	Makes:- Havells/wipro/Bajaj					
8	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. > 0.95 with THD $< 10\%$, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with 5 year warranty.					
8.1	LED Bulk Head, 10 Watt	44	1432.00	Rupees One Thousand Four Hundred Thirty Two Only	Each	63008
	Makes: Philips /Wipro/Bajaj.					
	Total					162433

Dr. R. S. Schedule of quantity checked and approved for 162433/008

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:-Repair and maintenance of E.I to various Govt. Residential building in Dr. RPGMC Kangra at Tanda (SH:- R/O of E.I to 1st year MBBS Girls hostel therein).

Job No. 10

ESTIMATED COST: Rs.1,62,433/-only.
EARNEST MONEY: Rs.3300/-only
TIME ALLOWED: One Month

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.0	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.					
	2X1.5 sq. mm + 1X1.5 sq. mm earth wire	45	212.00	Rupees Two Hundred Twelve Only	P/meter	9540
	(Make:-KEI / Anchor / Plaza/SCI)					
2.0	Supplying and drawing following sizes of FRLLC PVC insulated copper conductor, single core cable in the existing surface recessed steel/PVC conduit as required					
	S/D 2x4 Sq. mm	45	179.00	Rupees One Hundred Seventy Nine Only	P/meter	8055
	(Make:-KEI / Anchor / Plaza/SCI)					
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
3.1	15/20 Amps. Modular switch	40	225.00	Rupees Two Hundred Twenty Five Only	Each	9000
	(Make:-L&T/Legrand/Shenieder					
4.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
4.1	15/16 amp modular socket outlet					
	(Make:-L&T/Legrand/Shenieder					
5	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects.	50	340.00	Rupees Three Hundred Forty Only	P/point	17000

5.1	LED Bulb 9 Watt	70	133.00	Rupees One Hundred Thirty Three Only	Each	9310
	Makes:- Anchor/Havells/Osram					
6.0	Supplying and fixing 7 Watt LED Study Lamp suitable for holder base fittings with full ceramic body CCT 6000K as required complete in all respects. Makes:- Anchor/Havells/Osram					
6.1	Study Lamp 7 Watt	40	279.00	Rupees Two Hundred Seventy Nine Only	Each	11160
7	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required, complete in all respects, with 5 year warranty.					
7.1	18/20 Watt LED TubeRod	65	544.00	Rupees Five Hundred Forty Four Only	Each	35360
	Makes:- Havells/wipro/Bajaj					
8	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. > 0.95 with THD $<10\%$, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required, with 5 year warranty.					
8.1	LED Bulk Head, 10 Watt	44	1432.00	Rupees One Thousand Four Hundred Thirty Two Only	Each	63008
	Makes: Philips /Wipro/Bajaj					
	Total					162433

Draft Schedule of quantity checked and approve for 162433 only

[Signature]
Executive Engineer
Electrical Division
HPPWD/Palampur

DRAFT SCHEDULE OF QUANTITY

DRAFT SCHEDULE OF QUANTITY						
NAME OF WORK :- Repair & Maintenance of HVAC System installed in Super Specialty Block Dr. RPGMC Kangra at Tanda.		job No 11		ESTIMATED COST: Rs.4,98,500/-only. EARNEST MONEY: Rs.10,000/- only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT
				WORDS		
1	Repair and Maintenance of HVAC system of Carrier Make with following equipmenting maintenance, servicing of AHU's of different capacity, chillers 250 T.R. capacity, hot water generators, humidifiers, all water pumps, cooling towers, compressors as and when required, descaling of condensers etc. and and interlocking with control valves, dechoking of water pipes etc. and, power control , fuses, contactors relay, timers, transducers, HP switches, flow switches, oil rings, rubber coupling, main coupling, mechanical switch, bearings, all types of motor rewinding etc. and maintenance of console panel, AC main supply panel, selector switches, Ampere Meter, Voltmeter including its wiring, minor spare parts and AHU's Belt replacement with alignment of motors etc. as required complete in all respects so as to keep the system functional round the clock with 04 Nos. comprehensive quarterly services in one year and also emergency break down call attending services to the best satisfaction of Engineer-in-charge.	1	498500	Rupees Four Lacs Ninety Eight Thousand Five Hundred Only	Per Job	498500
The detail of HVAC system:						
1.1	Carrier make Chillers of 250 T.R. capacity					
1.2	Cooling Tower					
1.3	Hot Water Generator 200KW					
1.4	Hot Water Generator 75KW					
1.5	Condenser Pump And Motor 25 HP					
1.6	Primary Pump And Motor 10 HP					
1.7	Secondary Pump And Motor 20 HP					
1.8	Pumps & Motor Hot Water Generator					
1.9	AHU, CSU And FCU					
2	Electrical Panel Of Chiller Plant					498500
Total						

Draft Schedule of Quantity checked

Draft Schedule of Quantity checked and approved for Rs. 4,98,500/-

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of HVAC System installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.

job No 18

ESTIMATED COST: Rs.4,98,500/-only.
EARNEST MONEY: Rs.10,000/- only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair and Maintenance of HVAC system of Blue Star Make with following equipmentingd maintenance, servicing of AHU's of different capacity, chillers 120 T.R. capacity, hot water generators, humidifiers, all water pumps, cooling towers, descaling of condensers etc. and and interlocking with control valves, dechoking of water pipes etc. and, power control , fuses, contactors relay, timers, transducers, HP switches, flow switches, oil rings, rubber coupling, main coupling, mechanical switch, bearings, all types of motor rewinding etc. and maintenance of console panel, AC main supply panel, selector switches, Ampere Meter, Voltmeter including its wiring, minor spare parts and AHU's Belt replacement with alignment of motors etc. as required complete in all respects so as to keep the system functional round the clock with 04 Nos. comprehensive quarterly services in one year and also emergency break down call attending services to the best satisfaction of Engineer-in-charge.	1	498500	Rupees Four Lacs Ninety Eight Thousand Five Hundred Only	Per Job	498500
	The detail of HVAC system:					
1.1	Blue star make Chilliers of 120 T.R. capacity					
1.2	Cooling Tower					
1.3	Hot Water Generator 75KW					
1.4	Condenser/ Chiller Pump And Motor 20 HP					
1.5	Pumps & Motor Hot Water Generator					
1.6	AHU, CSU And FCU					
1.7	Electrical Panel Of Chiller Plant					
	Total					498500

Doct's reviewed quantity checked and approved
fully 498500/-

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- Dismantling, re-installation, testing and commissioning of 1.5/2.0 TR capacity Split / Window type Air-conditioning units and replacement of damaged copper tubes, gas charging etc. to various air-conditioning units installed in 500 bedded Hospital, Dr. RPGMC Kangra at Tanda.

job No 13

ESTIMATED COST: Rs 2,14,370/- only.
EARNEST MONEY: Rs.4300/- only
TIME ALLOWED: Two Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Dismantling, re-installation, testing and commissioning of 1.5/2 Ton capacity split / Window type air-conditioning outdoor units as required complete in all respects and as per directions of Engineer-in-charge.	18	3200.00	Rupees Three Thousand Two Hundred Only	Each	57600
2	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 directions of Engineer-in-charge.	59	230.00	Rupees Two Hundred Thirty Only	Per Meter	13570
3	Supplying & fixing of extra copper tubes for refrigerant and condensate in following capacity A.C. units of following required size with insulation and wiring with suitable size of HRFRLS copper conduction single core as required complete in all respects.					
3.1	Copper tubing 5/8" - 1/4"	54	1300.00	Rupees One Thousand Three Hundred Only	Per Meter	70200
4	Replenishment/charging/topping-up of refrigerant R-22(Gas) in 1.5/2 Ton capacity split type air-conditioning outdoor units as required complete in all respects and as per directions of Engineer-in-charge.	9	2200.00	Rupees Two Thousand Two Hundred Only	Per Kg	19800
5	Nitrogen testing and vacuumization as required complete in all respects and to the best satisfaction of Engineer-in-charge.	14	3800.00	Rupees Three Thousand Eight Hundred Only	Each	53200
Total						214370

Draft Schedule of Quantity checked and approved for 21/4/2014

us
 Executive Engineer
 Electrical Division
 HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of old and damaged light fixtures with LEDs fixture in Central Sterile Supply Department (CSSD) Area, Service Block of 500 bedded hospital Dr. RPGMC Kangra at Tanda.

job No 14

ESTIMATED COST: Rs.1,90,542/-only.
EARNEST MONEY: Rs.3900/-only
TIME ALLOWED: Two Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	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.					
	24 Watt LED 1'x1' Surface panel	40	1919.00	Rupees One Thousand Nine Hundred Nineteen Only	Each	76760
	Makes:- Panasonic/Mipro/Havells					
2	Providing and installation of IP65 Bulkhead LED fixture 10W +/- 1W LED Wall mounted with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD <10%, CRI 80. The LED Shall be tested with LM80-08 Standred with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc					
	LED 10W Bulk Head	4	1736.00	Rupees One Thousand Seven Hundred Thirty Six Only	Each	6944
	Makes:- Panasonic/Mipro/Havells					
3	Providing and fixing of LED fixture 1200mm x 300mm 36Watt +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with 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					
	36 Watt LED 1'x4' Recess panel	10	7568.00	Rupees Seven Thousand Five Hundred Sixty Eight Only	Each	75680
	Makes:- Panasonic/Mipro/Havells					

4	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling in the cubical panel making connections etc. as required.					
	MCCB 250 Amp. 65 kA	1	15203.00	Rupees Fifteen Thousand Two Hundred Three Only	Each	15203
	Makes:- L&T/Schneider/Legrand					
5	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	Ceiling Fan 1200mm sweep	5	3191.00	Rupees Three Thousand One Hundred Ninety One Only	Each	15955
	Makes:- Usha (Technix plus, 3 Star)					
	Total					190542

Best Schedule of Quantity checked and approved for ₹ 190542-00/007

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK : C/o Ayurvedic Health Centre at Saloi in Tehsil and Distt. Kangra (H.P)(SH:- Providing E.I. therein).

Job No 15

ESTIMATED COST: Rs. 1,84,668/-only.
EARNEST MONEY: Rs. 3700/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C	26	1824	Rupees One Thousand Eight Hundred Twenty Four Only	Per Point	47424
	Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x2.5 Sq. mm.	38	395	Rupees Three Hundred Ninety Five Only	Per Meter	14840
2.2	2x4.0 Sq. mm.	40	473	Rupees Four Hundred Seventy Three Only	Per Meter	18920
2.3	2x10 Sq. mm.	1	793	Rupees Seven Hundred Ninety Three Only	Per Meter	793
	Makes:- KEI / Anchor / Finolex/SCI					
3	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRRFRLS/PVC insulated single core copper conductor cable for earthing as required.	20	755	Rupees Seven Hundred Fifty Five Only	Per Meter	15100
	Makes:- KEI / Anchor / Finolex/SCI					
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.	9	171	Rupees One Hundred Seventy One Only	Per Meter	1530
	3x2.5 Sq. mm.					

	Makes:- KEI / Anchor / Finolex/SCI					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	7	582	Rupees Five Hundred Eighty Two Only	Each	4074
	Makes:- L&T / Legrand / Schneider					
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	5	750	Rupees Seven Hundred Fifty Only	Each	3750
	Makes:- L&T / Legrand / Schneider					
7	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1	336	Rupees Three Hundred Thirty Six Only	Each	336
	Makes:- Anchor / Havells / Goldmedal					
8	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-					
8.1	8 modules	2	696	Rupees Six Hundred Ninety Six Only	Each	1392
9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
9.1	S.P. 5/ 6 Amps one way Modular switch.	4	151	Rupees One Hundred Fifty One Only	Each	604
9.2	5 pin, 5/ 6 Amps Modular socket outlet.	6	220	Rupees Two Hundred Twenty Only	Each	1320
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:-	7	265	Rupees Two Hundred Sixty Five Only	Each	1855
	Single Pole. Cat-A.					
	Makes:- L&T / Legrand / Schneider					
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.					
	40 Amp. Double pole	1	488	Rupees Four Hundred Eighty Eight Only	Each	488
	Makes:- L&T / Legrand / Schneider					

12	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	40 Amps. Cat-A					
	Makes:- L&T / Legrand / Schneider	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
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:-					
	Double door-12 way	1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
	Makes:- L&T / Legrand / Schneider					
14	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	1	10244	Rupees Ten Thousand Two Hundred Forty Four Only	Per Set	10244
15	Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20	30	Rupees Thirty Only	Per Meter	600
16	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:-	2	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	4538
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep					
	Makes: Usha / Bajaj / Crompton Greaves					
17	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.					
	LED Bulk Head 10 Watt	5	2103	Rupees Two Thousand One Hundred Three Only	Each	10515

18	Makes: Wipro/ Havells/Panasonic Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-						
	Ceiling Fan 1200 mm sweep, Cat-A	4	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	12764	
19	Makes: Usha / Bajaj / Crompton Greaves Providing and installation of LED fixture 18W +/- 1W LED square/round surface downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD<20%, CCT 6000 K, CRI 80. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.						
	LED Surface mounting Square/Round downlighter 18 Watt	4	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	6248	
20	Makes: Wipro/ Panasonic/ Havells Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required.						
	18 Watt LED Tube Fixture	5	1139	Rupees One Thousand One Hundred Thirty Nine Only	Each	5695	
21	Makes:- Bajaj/ Wipro/ Havells Providing and fixing decorative LED mirror light having high quality design suitable for LED tube up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
	10 Watt LED Mirror Light, 2 feet	2	564	Rupees Five Hundred Sixty Four Only	Each	1128	

	Makes: Havells/ Bajaj/ Osram					
22	Providing and installation of LED fixture 1200mm x 300mm, 36W +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100 lm/W with CRCA housing and P.F. >0.95 with THD<10%. CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.					
	36 Watt LED 1'x4' Surface panel	2	5190	Rupees Five Thousand One Hundred Ninety Only	Each	10380
	Makes: Wipro/ Panasonic/ Havells					
23	Supplying and fixing 45W LED street light made up of pressure die cast housing with TOUGHENED GLASS and IP66 protection including connections, testing etc. as required complete in all respects.					
	45W LED Street Light	1	5106	Rupees Five Thousand One Hundred Six Only	Each	5106
	Makes: Panasonic/Bajaj/Wipro					
	Total					184668

Detail schedule of quantity ordered and approved for Rs. 184668 only

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK : C/o Ayurvedic Health Centre at Samirpur in Tehsil and Distt. Kangra (H.P.)(SH:- Providing E.I. therein).

SR. NO.	DESCRIPTION	QTY.	Job No 16		ESTIMATED COST: Rs.1,84,668/-only. EARNEST MONEY: Rs.3700/-only.	TIME ALLOWED: One Year
			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 steel conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C	26	1824	Rupees One Thousand Eight Hundred Twenty Four Only	Per Point	47424
	Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFSL/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x2.5 Sq. mm.	38	395	Rupees Three Hundred Ninety Five Only	Per Meter	14840
2.2	2x4.0 Sq. mm.	40	473	Rupees Four Hundred Seventy Three Only	Per Meter	18920
2.3	2x10 Sq. mm.	1	793	Rupees Seven Hundred Ninety Three Only	Per Meter	793
	Makes:- KEI / Anchor / Finolex/SCI					
3	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRRFSL/PVC insulated single core copper conductor cable for earthing as required.	20	755	Rupees Seven Hundred Fifty Five Only	Per Meter	15100
	Makes:- KEI / Anchor / Finolex/SCI					
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.	9	171	Rupees One Hundred Seventy One Only	Per Meter	1530
	3x2.5 Sq. mm.					

	Makes:- KEI / Anchor / Finolex/SCI					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	7 ✓	582	Rupees Five Hundred Eighty Two Only	Each	407/4
	Makes:- L&T / Legrand / Schneider					
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	5 ✓	750	Rupees Seven Hundred Fifty Only	Each	3750 ✓
	Makes:- L&T / Legrand / Schneider					
7	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1	336	Rupees Three Hundred Thirty Six Only	Each	336 ✓
	Makes:- Anchor / Havells / Goldmedal					
8	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-					
8.1	8 modules	2	696	Rupees Six Hundred Ninety Six Only	Each	1392 ✓
9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
9.1	S.P. 5/ 6 Amps one way Modular switch.	4 ✓	151	Rupees One Hundred Fifty One Only	Each	604 ✓
9.2	5 pin, 5/ 6 Amps Modular socket outlet.	6 ✓	220	Rupees Two Hundred Twenty Only	Each	1320 ✓
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:-	7 ✓	265	Rupees Two Hundred Sixty Five Only	Each	1855 ✓
	Single Pole. Cat-A.					
	Makes:- L&T / Legrand / Schneider					
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.					
	40 Amp. Double pole	1 ✓	488	Rupees Four Hundred Eighty Eight Only	Each	488 ✓
	Makes:- L&T / Legrand / Schneider					

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 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	40 Amps, Cat-A					
	Makes:- L&T / Legrand / Schneider	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
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:-					
	Double door-12 way	1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
	Makes:- L&T / Legrand / Schneider					
14	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal coke and salt as required.	1	10244	Rupees Ten Thousand Two Hundred Forty Four Only	Per Set	10244
15	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20	30	Rupees Thirty Only	Per Meter	600
16	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:-	2	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	4538
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep					
	Makes: Usha / Bajaj / Crompton Greaves					
17	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.					
	LED Bulk Head 10 Watt	5	2103	Rupees Two Thousand One Hundred Three Only	Each	10515

	Makes: Wipro/ Havells/Panasonic						
18	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-						
	Ceiling Fan 1200 mm sweep, Cat.-A						
	Makes: Usha / Bajaj / Crompton Greaves						
19	Providing and installation of LED fixture 18W +/- 1W LED square/round surface downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD<20%, CCT 6000 K, CRI 80. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.						
	LED Surface mounting Square/Round downlighter 18 Watt	4	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	6248	
	Makes: Wipro/ Panasonic/ Havells						
20	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required.						
	18 Watt LED Tube Fixture	5	1139	Rupees One Thousand One Hundred Thirty Nine Only	Each	5695	
	Makes:- Bajaj/ Wipro/ Havells						
21	Providing and fixing decorative LED mirror light having high quality design suitable for LED tube up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
	10 Watt LED Mirror Light, 2 feet						

DRAFT SCHEDULE OF QUANTITY

DRAFT SCHEDULE OF QUANTITY						
NAME OF WORK : Replacement of old and damaged light fixtures with LEDs in Stairs area including ramp and corridors of 500 bedded hospital Dr. RPGMC Kangra at Tanda.		Job No 17		ESTIMATED COST: Rs.4,68,725/-only. EARNEST MONEY: Rs.9400/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
1.1	Square/round LED 18W Surface	151	1764	Rupees One Thousand Seven Hundred Sixty Four Only	Each	266364
1.2	Square/round LED 18W Recess	8	2500	Rupees Two Thousand Five Hundred Only	Each	20000
	Makes:- Panasonic/Mipro/Havells					
2	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with 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.					
	24 Watt LED 1'x1' Surface panel	57	3113	Rupees Three Thousand One Hundred Thirteen Only	Each	177441
	Makes:- Panasonic/Mipro/Havells					

3	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. complete in all respects.					
	18 Watt LED Tube fixture	4	1230	Rupees One Thousand Two Hundred Thirty Only	Each	4920
	Makes:- Bajaj/Wipro/Havells					
	Total					468725

Bill Schedule of quantity enclosed and proved for ₹ 468725/-

Executive Engineer
Electrical Division
HPPWD Palampur

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DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Additional accommodation in B&R Sub-Division office building at Tanda in Distt. Kangra (H.P.) (SH: Providing E.I. therein)				job No 18		ESTIMATED COST: Rs.3,25,426/-only. EARNEST MONEY: Rs.6600/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT	
			FIGURES	WORDS			
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.						
	Group C	40	1823.00	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	72920	
2	(Make:-KEI,Anchor,Plaza)/SCI/ Legrand (Myrius), L&T(Oris), Anchor (Roma plus). Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.						
2.1	2x1.5 Sq. mm.	60	335.00	Rupees Three Hundred Thirty Five Only	Per Meter	20100	
2.2	2x4 Sq. mm.	80	473.00	Rupees Four Hundred Seventy Three Only	Per Meter	37840	
2.3	2x10sq.mm	1	837.00	Rupees Eight Hundred Thirty Seven Only	Per Meter	837	
2.4	4 X 4 sq. mm	40	773.00	Rupees Seven Hundred Seventy Three Only	Per Meter	30920	

	(Make:-KEI / Anchor / Plaza/SCI)					
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel PVC conduit as required.					
	3x1.5 Sq. mm.	20	111.00	Rupees One Hundred Eleven Only	Per Meter	2220
	(Make:-KEI / Anchor / Plaza/SCI)					
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	2 Module (75mmX75mm)	4	276.00	Rupees Two Hundred Seventy Six Only	Each	1104
4.2	6 Module (200mmX75mm)	16	536.00	Rupees Five Hundred Thirty Six Only	Each	8576
4.3	8 Module (125mmX125mm)	5	659.00	Rupees Six Hundred Fifty Nine Only	Each	3295
4.4	12 Module (200mmX150mm)	3	805.00	Rupees Eight Hundred Five Only	Each	2415
	Makes:- L&T/Legrand/Schneider.					
5	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
5.1	S.P. 5/ 6 Amps one way Modular switch.	72	130.00	Rupees One Hundred Thirty Only	Each	9360
5.3	5 pin, 5/ 6 Amps Modular socket outlet.	40	187.00	Rupees One Hundred Eighty Seven Only	Each	7480
	Makes:- L&T/Legrand/Schneider.					

6	Supplying and fixing suitable size G lbox with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	18	750.00	Rupees Seven Hundred Fifty Only	Each	13500
	Makes:-Legrand/L&T/Schneider.					
7	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase,230 volts complete as required:-	4	187.00	Rupees One Hundred Eighty Seven Only	Each	748
	Makes:- Legrand/L&T/Schneider.					
8	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)	8	737.00	Rupees Seven Hundred Thirty Seven Only	Each	5896
	Makes:- L&T/Legrand/Schneider.					
9	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.					
	TV antenna socket outlet	4	157.00	Rupees One Hundred Fifty Seven Only	Each	628
	Makes:- L&T/Legrand/Schneider.					
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:-					
	Single pole. Cat-A.	19	265.00	Rupees Two Hundred Sixty Five Only	Each	5035
	Makes:-Legrand/L&T/Schneider.					
11	Supplying and fixing 40/50/63amps rating, 240/415 volts, 10KA,"C"curve,minature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					

	63 Amps. Cat-A.	1	1423.00	Rupees One Thousand Four Hundred Twenty Three Only	Each	1423
	Makes:- Legrand/L&T/Schneider.					
12.1	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 30 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	63 Amps. Cat-A.	1	3616.00	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
	Makes:- L&T/Legrand/Schneider.					
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)					
13.1	Double door-8 way	1	1897.00	Rupees One Thousand Eight Hundred Ninety Seven Only	Each	1897
13.2	Double door-16 way	1	2954.00	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
	Makes:- Legrand/L&T/Schneider.					
14	Providing, Installation, testing and commissioning of ceiling fan with two module modular step type electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					

	Ceiling Fan 1200 mm sweep, Category-A	5	3191.00	Rupees Three Thousand One Hundred Ninety One Only	Each	15955
	Makes:- Usha / Bajaj/ Crompton.with 3 rated star					
15	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	5	2269.00	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	11345
	Makes: Usha/Bajaj/Crompton					
16	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	21	1508.00	Rupees One Thousand Five Hundred Eight Only	Each	31668
	Makes: Philips/ Wipro/ Bajaj					
17	Providing and installation of following wattage LED square/round surface downlighter with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 6000 K, CRI 80. The LED with useful life of 50000 hrs. at L70 with five years warranty. The input voltage range shall be 150V to 270V as required complete in all respects.					
	LED Surface mounting Square/Round downlighter 18 Watt	9	1562.00	Rupees One Thousand Five Hundred Sixty Two Only	Each	14058

	Makes: Wipro/Havells/Panasonic					
18	Providing and fixing of IP65 Bulkhead led fixture 10 W +/-1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminium housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% , CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, testing and commissioning etc. as required complete in all respects. with 5 year warranty.					
	LED Bulk Head 10 Watt	5	1432.00	Rupees One Thousand Four Hundred Thirty Two Only	Each	7160
	Makes: Philips/ Wipro/ Bajaj					
19	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	4	665.00	Rupees Six Hundred Sixty Five Only	Each	2660
	Makes: Philips/ Wipro/ Bajaj					

20	Providing and Fixing of LED fixture 600mmX600mm 36 Watt +/- 1W Surface mounted fixture with HET Plastic diffuser with minimum system lumen efficacy of 100 lm/W with CRCA housing having P.F.>0.95 with THD<10% ,CRI 80. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
	LED Panel 2'x2' 36 watt	1	4834.00	Rupees Four Thousand Eight Hundred Thirty Four Only	Each	4834
	Makes:- Philips Wipro/Bajaj					
21	Supplying and fixing 45W LED street light made up of die cast aluminium housing with LED street optic LENS, offering uniform light distribution and individual LEDs with IP66 protection including connections, testing etc. as required complete in all respects.with 5 year warranty.					
	45W LED Street Light					
	Makes:- Havells/Wipro/Bajaj	1	4982.00	Rupees Four Thousand Nine Hundred Eighty Two Only	Each	4982
	Total					325426

Do not schedule of quantity checked and approved
for Rs 325426/-

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:- C/o Health Sub-Centre at Thana Bargran in Tehsil and Distt. Kangra (H.P.) (SH: Providing E.I. therein)

Job No. 109

ESTIMATED COST: Rs.3,00,367/-only.
EARNEST MONEY: Rs.6100/-only
TIME ALLOWED: One Year

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
1.1	Group A	17	1213	Rupees One Thousand Two Hundred Thirteen Only	Per Point	20621
1.2	Group C	22	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	40106
	(Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Oris), Anchor (Roma plus)/SCI					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x1.5 Sq. mm.	60	335	Rupees Three Hundred Thirty Five Only	Per Meter	20100
2.2	2x4 Sq. mm.	80	471	Rupees Four Hundred Seventy One Only	Per Meter	37680
2.3	2x10 Sq. mm.	2	793	Rupees Seven Hundred Ninety Three Only	Per Meter	1586
2.4	4x4 Sq. mm.	40	771	Rupees Seven Hundred Seventy One Only	Per Meter	30840
	Makes:- KEI / Anchor / Plaza/SCI					

3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed. Steel/PVC conduit as required.	20	111	Rupees One Hundred Eleven Only	Per Meter	2220
	3x1.5 Sq. mm.					
	Makes:- KEI / Anchor / Plaza/SCI					
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps. modular switch, connections etc. as required.	19	582	Rupees Five Hundred Eighty Two Only	Each	11058
	Makes:- Legrand/L&T/Schneider.					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps. modular switch, connections etc. as required.	10	750	Rupees Seven Hundred Fifty Only	Each	7500
	Makes:- Legrand/L&T/Schneider.					
6	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase. 230 volts complete as required:-	2	187	Rupees One Hundred Eighty Seven Only	Each	374
	Makes:- Legrand/L&T/Schneider.					
7	Supplying and erection of 6 amps. to 32 amps. rating. 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	15	265	Rupees Two Hundred Sixty Five Only	Each	3975
	Single Pole. Cat-A.					
	Makes:- Legrand/L&T/Schneider.					
8	Supplying and fixing following rating. double pole. 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required					
	63 Amps. DP Cat-A.	2	616	Rupees Six Hundred Sixteen Only	Each	1232
	Makes:- Legrand/L&T/Schneider.					
9	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	63 Amps. Cat-A.	2	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	7232
	Makes:- Legrand/L&T/Schneider.					

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:-					
	Double door-12 way	2	2309	Rupees Two Thousand Three Hundred Nine Only	Each	4618
	Makes:- Legrand/L&T/Schneider.					
11	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1	10244	Rupees Ten Thousand Two Hundred Forty Four Only	Per Set	10244
12	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	30	30	Rupees Thirty Only	Per Meter	900
13	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:-	4	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	9076
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep					
	Makes:- Usha/ Bajaj / Crompton					
14	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-					
	Ceiling Fan 1200 mm sweep, Cat.-A	7	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	22337
	Makes:- Usha/ Bajaj / Crompton with 3 rated star					

15	Providing and fixing of IP65 Bulkhead led fixture 10 W +/-1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing. Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% , CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, testing and commissioning etc. as required complete in all respects.					
	LED Bulk Head 10 Watt	6	1431	Rupees One Thousand Four Hundred Thirty One Only	Each	8586
	Makes: Philips/ Wipro/ Bajaj					
16	Providing and installation of following wattage LED square/round surface downlighter with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 6000 K, CRI 80. The LED with useful life of 50000 hrs. at L70 with five years warranty. The input voltage range shall be 150V to 270V as required complete in all respects.					
	LED Surface mounting Square/Round downlighter 18 Watt	7	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	10934
	Makes: Wipro/Havells/Panasonic					
17	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	11	1508	Rupees One Thousand Five Hundred Eight Only	Each	16588
	Makes: Philips/ Wipro/ Bajaj					

18	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	1	801	Rupees Eight Hundred One Only	Each	801
	Makes: Philips/Wipro/Bajaj					
19	Supplying and fixing 45W LED street light made up of die cast aluminium housing with LED street optic LENS, offering uniform light distribution and individual LEDs with IP66 protection including connections, testing etc. as required complete in all respects with 5 years warranty.					
	45W LED Street Light	1	4982	Rupees Four Thousand Nine Hundred Eighty Two Only	Each	4982
	Makes:- Havells/Wipro/Bajaj					
20	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 expansionbolts in the wall, making good the damages, electrical connections, testing etc. complete as required.Makes:- Racold/Usha/Bajaj					
20.1	15 Liter capacity water heater (Cat-A)	1	12557	Rupees Twelve Thousand Five Hundred Fifty Seven Only	Each	12557
20.1	25 Liter capacity water heater (Cat-A)	1	14220	Rupees Fourteen Thousand Two Hundred Twenty Only	Each	14220
	Total					300367

Cost schedule of quantity checked and approved
for 300367/-

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:- Replacement of old/damaged FTL fixtures with new LEDs and providing geysers, exhaust fans, fan regulators etc. in the Girls Hostel at Govt. Polytechnic Kangra in Distt. Kangra (H.P.)

Job No. 20

ESTIMATED COST: Rs.1,99,464/-only.
EARNEST MONEY: Rs.4000/-only
TIME ALLOWED: One Month

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	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.					
1.1	3x1.5 Sq. mm.	20	111.00	Rupees One Hundred Eleven Only	P/Mtr	2220
1.2	3x4 Sq. mm.	25	247.00	Rupees Two Hundred Forty Seven Only	P/Mtr	6175
	(Make:-KEI / Anchor / Plaza/SCI)					
2	Supplying and fixing S.P. 5/6 amps, one way switch, piano type ISI on the existing plate switch box including connections but excluding G.I. plate etc. as required.					
	S.P. 5/6 amps, one way switch, piano type ISI	10	41.00	Rupees Forty One Only	Each	410
	(Make:-Anchor-Penta/Goldmedal/Greatwhite					
3	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLS including providing and fixing 6 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required.					
	Metal box with 5/6 Amp. Switch & Socket outlet	15	236.00	Rupees Two Hundred Thirty Six Only	Each	3540
	(Make:-Anchor-Penta/Goldmedal/Greatwhite					
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 FRLSont including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.					
	Metal box with 15/16 Amp. Switch & Socket outlet	15	359.00	Rupees Three Hundred Fifty Nine Only	Each	5385

Make:-Anchor-Penta/Goldmedal/Greatwhite						
5	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. complete in all respects. with 5 Year warranty.					
	18 Watt LED Tube fixture	42	1562.00	Rupees One Thousand Five Hundred Sixty Two Only	Each	65604
	Makes:- Bajaj/Mipro/Havells					
6	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. > 0.95 with THD $< 20\%$, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc. with 5 years warranty.					
	LED 18W Surface, square/round	8	1894.00	Rupees One Thousand Eight Hundred Ninety Four Only	Each	15152
	Makes:- Panasonic/Mipro/Havells					
7	Providing and fixing decorative LED mirror light having high quality design suitable for LED tube up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required with 5 years warranty.					
	10 Watt LED Mirror Light, 2 ft.	4	804.00	Rupees Eight Hundred One Only	Each	3204
	Makes:- Bajaj/Osram/Havells					
8	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					
	Exhaust Fan, Heavy Duty, 300mm sweep	5	4347.00	Rupees Four Thousand Three Hundred Forty Seven Only	Each	21735

	Makes: Usha / Bajaj / Crompton Greaves					
9	Supplying and fixing stepped type electronic fan regulator on the existing plate switch box including connections but excluding G.I. plate etc. as required.					
	Stepped type Fan regulator - 5 Step	24	294.00	Rupees Two Hundred Ninety Four Only	Each	7056
	Makes:- Anchor-Penta/Goldmedal/Greatwhite					
10	Providing and fixing LED Lamp 9 Watt B22 suitable for Wall Bracket, Batten holder etc. as required complete in all respects.	20	206.00	Rupees Two Hundred Six Only	Each	4120
	Makes:- Havells / C&S / Bajaj					
11	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:-					
	35 Liter capacity water heater	3	19919.00	Rupees Nineteen Thousand Nine Hundred Nineteen Only	Each	59757
	Makes:- Havells/Bajaj/Racold					
12	Supply of IP66 45 W+/- 1W LED Streetlight, Pole Mounted, Al Die cast Housing, PC lens optics with street light optics distribution with lumen efficacy of 120lm/W, The luminaire shall have CCT of 5700K and CRI of minimum 70. The luminaire shall have IP66 and IK08 protection. The LED shall be compliant with Useful L70 life of 50000 Hrs with 4 KV surge protection with THD<10%, PF>0.95, Voltage range 150V-300V, driver efficiency 85% or more with 5 years warranty.					
	45 W+/- 1W LED Streetlight	1	5106.00	Rupees Five Thousand One Hundred Six Only	Each	5106
	Makes:- Wipro/Panasonic/Bajaj					
	Total					199464

Deft Schedule of quantity checked and approved for Rs 199464/-

Executive Engineer
Electrical Division
HPPW, Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :Replacement of old and damaged light fixtures with LEDs in 4th floor Corridor area of 500 bedded hospital Dr. RPGMC Kangra at Tanda.					
SR. NO.		DESCRIPTION		Job No 201	
				ESTIMATED COST: Rs.1,51,987/-only. EARNEST MONEY: Rs.3100/-only TIME ALLOWED: Two Months	
1			QTY.	RATES	
				FIGURES	WORDS
					UNIT
					AMOUNT
1		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.			
		24 Watt LED 1'x1' Surface panel	59	1586.00	Rupees One Thousand Five Hundred Eighty Six Only
					Each
					93574
2		Provides and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.			
		Square/round LED 18W Surface	6	1562.00	Rupees One Thousand Five Hundred Sixty Two Only
					Each
					9372
3		Makes:- Panasonic/Wipro/Havells Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.			
		Ceiling Fan 1200mm sweep	2	3191.00	Rupees Three Thousand One Hundred Ninety One Only
					Each
					6382
		Makes:- Usha/Bajaj/Havells			

4	Providing and fixing of LED fixture 1200mm x 300mm 36Watt +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	36 Watt LED 1'x4' Surface panel	8	5190.00	Rupees Five Thousand One Hundred Ninety Only	Each	41520
	Makes:- Panasonic/Wipro/Havells					
5	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. complete in all respects.					
	18 Watt LED Tube fixture	1	1139.00	Rupees One Thousand One Hundred Thirty Nine Only	Each	1139
	Makes:- Bajaj/Wipro/Havells					
	Total					151987


Deptt. Schedule of quantity checked and approved for 15/12/2014

[Signature]
 Executive Engineer
 Electrical Division
 HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK :Replacement of old and damaged light fixtures with LEDs in 2nd floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.		Job No. 22		ESTIMATED COST : Rs.1,20,550/-only. EARNEST MONEY: Rs.2500/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	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.					
	24 Watt LED 1'x1' Surface panel	71	1586.00	Rupees One Thousand Five Hundred Eighty Six Only	Each	112606
	Makes:- Panasonic/Wipro/Havells					
2	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	Square/round LED 18W Surface	1	1562.00	Rupees One Thousand Five Hundred Sixty Two Only	Each	1562
	Makes:- Panasonic/Wipro/Havells					
3	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	Ceiling Fan 1200mm sweep	2	3191.00	Rupees Three Thousand One Hundred Ninety One Only	Each	6382
	Makes:- Usha/Bajaj/Havells					
	Total					120550

Draft Schedule of quantity checked and approved for Rs. 120550 only


 Executive Engineer
 Electrical Division
 HPPWDP, Palampur

DRAFT SCHEDULE OF QUANTITY

DRAFT SCHEDULE OF QUANTITY						
NAME OF WORK : Replacement of old and damaged light fixtures with LEDs in Medicine ICU, 4th floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.			Job No. 22 23		ESTIMATED COST: Rs.1,41,196/-only. EARNEST MONEY: Rs.2900/-only TIME ALLOWED: Two Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with 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.					
	24 Watt LED 1'x1' Surface panel	10	1586.00	Rupees One Thousand Five Hundred Eighty Six Only	Each	15860
	Makes:- Panasonic/Wipro/Havells					
2	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
2.1	Square/round LED 18W Surface	3	1562.00	Rupees One Thousand Five Hundred Sixty Two Only	Each	4686
2.2	Square/round LED 18W Recess	14	2071.00	Rupees Two Thousand Seventy One Only	Each	28994
	Makes:- Panasonic/Wipro/Havells					

3	Providing and fixing of LED fixture 1200mm x 300mm 36Watt +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with 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.					
3.1	36 Watt LED 1'x4' Surface panel	8	5190.00	Rupees Five Thousand One Hundred Ninety Only	Each	41520
3.2	36 Watt LED 1'x4' Recess panel	8	6267.00	Rupees Six Thousand Two Hundred Sixty Seven Only	Each	50136
	Makes:- Panasonic/Mipro/Havells					
	Total					141196

Dept Schedule of quantity checked and approved for 14/11/2014

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK: Replacement of old and damaged light fixtures with LEDs in 3rd floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.

Job No. 25

ESTIMATED COST: Rs.1,14,230/-only.
EARNEST MONEY: Rs.2300/-only
TIME ALLOWED: Two Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with 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.					
	24 Watt LED 1'x1' Surface panel	68	1586.00	Rupees One Thousand Five Hundred Eighty Six Only	Each	107848
	Makes:- Panasonic/Wipro/Havells					
2	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	Ceiling Fan 1200mm sweep	2	3191.00	Rupees Three Thousand One Hundred Ninety One Only	Each	6382
	Makes:- Usha/Bajaj/Havells					
	Total					114230

Self Schedule of quantity checked and approved for Rs. 114230/- only

Executive Engineer
Electrical Division
HPWD Palampur