

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2022-23/-6134-42

Dated: 7/10/2022

To

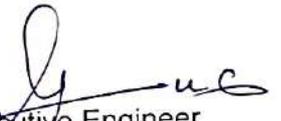
The Executive Engineer (IT Cell),
Nigam Vihar, Shimla-2.

Subject: Publishing of Tender Notice.

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

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

DA/NIT,SQs


Executive Engineer
Electrical Division
HP PWD Palampur

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

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


Executive Engineer
Electrical Division
HP PWD Palampur

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

"Notice Inviting Tenders"

Sealed item rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP PWD. (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act. 1968 so as to reach in his office on or before **18-10-2022** 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 hppwd.gov.in

The earnest money in the shape of FDR/saving account of the Post office/Bank in H.P. duly pledged in favour of the XEN and the cost of tender in shape of Bank Draft must accompany with each tender. Conditional/ incomplete tenders & tender without earnest money will be summarily rejected. The XEN reserves the right to accept or reject any or all tenders or drop the proposal of tenders without assigning any reasons.

Conditions:

1. The contractor should have the EPF No. from the competent authority, failing which no tender form will be issued.
2. The contractor should be registered as a dealer under GST and should produce GST registration certificate.
3. The contractor should produce a copy of latest enlistment/renewal.
4. The bidders enlisted in a particular class shall be eligible to tender for his own class or one step below.
5. The bidder should attach authorization and work done certificate with application for Specialized Jobs.

Sr. No	Name of Work	Estimated Cost	Earnest Money	Time Limit	Form No.	Cost of Form
1	Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers with machine room elevator to Combined office Building Kangra in Tehsil & Distt. Kangra w.e.f. 2022-23 to 2024-2025	410711/-	7200/-	Three Year	8	350/-
2	Replacement of old accessory to modular accessory. Shifting & reinstallation of AC in the HPPWD rest house set no 3 at Fatehpur, in Tehsil Fatehpur Distt. Kangra (H.P).	116407/-	2400/-	Six Months	8	350/-
3	C/o Ayurvedic Health Centre Building at Bagga Tehsil Jawali Distt. Kangra (HP)(SH:- Providing E.I. therein).	179923/-	3600/-	Two Year	8	350/-
4	C/o Ayurvedic Health Centre Building at Beanie Tehsil Jawali Distt. Kangra (HP)(SH:- Providing E.I. therein).	179923/-	3600/-	Two Year	8	350/-
5	C/o Additional accommodation in Govt. Sen. Sec. School Harchakiyan in Distt. Kangra (H.P)(SH:- Providing 2 Nos. classroom Therein).	136252/-	2800/-	One Year	8	350/-
6	C/o Health Sub-Center at Kairi in Tehsil Shahpur Distt. Kangra (H.P)(SH:- Providing E.I. therein).	128365/-	2600/-	Six Months	8	350/-
7	C/o Health Sub Center Building with delivery room at Mohli in Tehsil Fatehpur, Distt. Kangra (H.P)(SH:- Providing E.I. therein).	308477/-	6200/-	One Year	8	350/-
8	C/o Cow Sanctuary at Kudan Dehal (Jia) in Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. therein.)	104913/-	2100/-	One Month	8	350/-
9	Providing & Laying Armoured cable in Govt. Polytechnic college Talwar Tehsil Jaisinghpur Distt. Kangra (H.P).	134640/-	2700/-	Two Months	8	350/-
10	C/o Ayurvedic Health Sub- Center at Sarsava in Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. therein).	301057/-	6100/-	Six Months	8	350/-

11	Providing and installation of Energy Recovery Ventilation System (ERVS) in Anesthesia ICU, 1st floor and Medicine ICU 4 th floor of 500 Bedded Hospital Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P)(SH:-Providing additional aluminum spiral duct pipe and duct taping / rods etc. therein).	253000/-	5100/-	Two Months	8	350/-
12	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/-
13	C/o Ayurvedic Health Sub- Center at Sansai Ground Floor)in Tehsil Bajjnath Distt. Kangra (H.P)(SH:- Providing E.I. therein).	165695/-	3400/-	Six Months	8	350/-
14	Replacement and Repair of Motor starter panel of Condenser , Chiller, Hot water pump and cooling tower fan motor of HVAC system installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.	391800/-	7900/-	One Month	8	350/-

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SCHEDULE OF QUANTITY

NAME OF WORK :- : Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers with machine room elevator to Combined Office Building Kangra in Tehsil & Distt. Kangra w.e.f. 2022-23 to 2024-25		Job No 1		ESTIMATED COST: Rs. 4,10,711/-only. EARNEST MONEY: Rs. 8300/-only TIME ALLOWED: Three Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers with machine room elevator "ThyssenKrupp" make i.e. routine services at the regular interval of one month, regular systematic examination adjustment, lubrication of machines, motors controller parts including replacement of worn-out parts gears etc., bearing break shoe, rotating element, contact coils, resistance for operating motors, magnetic frames etc. and other mechanical as well as electrical parts etc. as required to maintain the elevator and safe operating conditions including emergency break down all attending services and sudden damages of mechanical parts etc. and best satisfaction of the Engineer-in-charge.	1			Per Year	
2	1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2022-23.	1			Per Year	
3	1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2023-24.	1			Per Year	
4	1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2024-25.	1			Per Year	
Make : ThyssenKrupp						
Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of old accessory to modular accessory,
Shifting & reinstallation of AC in the HPPWD rest house set no 3 at Fatehpur,
in Tehsil Fatehpur Distt. Kangra (H.P.).

Job No 2

ESTIMATED COST: Rs. 1,16,407/-only.
EARNEST MONEY: Rs. 2400/-only
TIME ALLOWED: Six Months

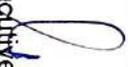
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make: KEI/Plaza/SCI/Anchor/ Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius) /L&T(Entice).					
i)	Group C.	10			Per Point	
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required. Make: KEI/SCI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius) /L&T(Entice).					
j)	Group C.	2			Per Point	
3	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	5			each	
4	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	3			each	

5	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Liviva)/ Legrand (Myrius)/L&T(Entice).	1			each	
6	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor.	25			Per Meter	
7	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor.	15			Per Meter	
8	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/SCI/Plaza/Anchor.					
	i) 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	35			Per Meter	
	ii) 2 X 10 sq. mm + 1 X 6 sq. mm earth wire	20			Per Meter	
9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/SCI/Plaza/Anchor.					
	i) 3 x 1.5 sq. mm	20			Per Meter	
10	Supplying and fixing PVC batten/angle holder including connection etc. as required.	1			each	
11	Providing, Installation, testing and commissioning of ceiling fan with 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. Make: Orient Wendy/Topaz White / Usha, Bajaj or any other as approved by Engineer-in-charge.					
i) j) y	Ceiling Fan 1200 mm sweep (Make: Orient, Model: Wendy/Topaz White)	1			Each	

12	Supplying and fixing of LED Bed side Bracket having luminous flux 150 lumens, colour temp. 3000K, should be compatible with specification i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating>80, suitable for Input voltage AC 220-240V, 50/60 HZ complete with all accessories, including connections,testing and commissioning etc.as required complete in all respect. Make- Philips, Jaquar, Wipro.					Each	
	LED Bed side bracket 3 watt (Metal & Synthetic, Colour: White)	4					
	Makes:-Philips, Jaquar, Wipro {at par with Philips cat no. 48042/30/31}						
13	Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy $\geq 100\text{lm/W}$ with Aluminium housing P.F.>0.95 with THD<10%, CCT 6500 K,CRI 80, Surge Protection 2 Kv.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.						
	LED Batten 20W, 4 feet long (Make: Wipro, cat no. LL20-281-XXX-ALNE3)/ Philips/Trilux.	1				Each	
14	Providing and installation of Back Light (Non slim model)15 W +/- 1 W LED Square Surface Mounted Downlighter with minimum system lumen efficacy of $\geq 100\text{lm/W}$ 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 5- years warranty.The Input voltage range shall be 150V to 270V , 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.						
	LED Down Light 15 watt, (Make: Wipro, Cat no LD06-171XXX 57SM)/ Philips/Trilux.	2				Each	

15	Supplying and fixing of LED wall Bracket having luminous flux 150 lumens, colour temp. 3000K, should be compatible with specification i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating > 80, suitable for Input voltage AC 220-240v, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respect. Make- Philips, Jaquar & wipro.					
	LED Wall Bracket 9W (Make: Philips, cat no. 40937)/ Jaquar/Wipro.	1			Each	
16	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (Make: Sidharth/BEC)					
	25 mm. dia	10			Per Meter	
17	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. (Make: BEC Plast/Anchor)					
	25 mm. dia	10			Per Meter	
18	Supplying and fixing following sizes/modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).					
	1or 2 Module(75mmX75mm)	2			each	
19	Supplying and fixing following rating Modular switch/socket in the existing switch box/cover plate including connections etc as required.					
	Telephone socket outlet modular type	1			each	
	TV socket outlet modular type	1			each	
20	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	20			Per Meter	

21	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
	1 Pair	20				Per Meter	
22	Providing and fixing LED Bulb 9 watts in the existing fixture as required complete in all respect.	1				each	
23	Supplying and fixing of Copper tube with insulation for AC 1.5 TR capacity complete in all respects as required.	3				Per Meter	
24	Refilling of Gas in split type AC unit	1				each	
25	Supplying and fixing of PVC Drain pipe of size 1" dia. (25mm) complete with elbows, tees, socket etc. of superior quality as per satisfaction of Engineer-in-charge.	6				Per Meter	
26	Dismantled & Reinstallation of split AC unit	1				each	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Ayurvedic Health Centre Building at Bagga Tehsil
Jawali Distt. Kangra (HP)(SH:- Providing EI there in).

Job No 3

ESTIMATED COST: Rs. 1,79,923/-only.
EARNEST MONEY: Rs. 3600/-only
TIME ALLOWED: Two Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/SCI/Plaza/Anchor & Anchor/SSK					
i)	Group C.	43			Pt	
2	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor.	20			Meter	
3	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor.	28			Meter	
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/SCI/Plaza/Anchor.					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	37			Mtr.	
ii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	2			Mtr.	

i)	3 x 1.5 sq. mm	24			Mtr.	
6	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. (Make: BEC Plast/Anchor/Finox)					
i)	50 mm. dia	3			Mtr.	
7	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK	5			each	
8	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 including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK	4			each	
9	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥100 Lumens per watt, CRI rating >70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i)	LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro	20			Each	
10	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i)	Ceiling Fan 1200 mm sweep, Cat-A (Make: Crompton Model: WWHE ISI/Usha/Bajaj)	7			each	
11	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					

i)	Exhaust Fan, Light duty, (Domestic) 225 mm sweep (Make: Crompton, Model : Flux Air metal)/Ushal Bajaj	5			each	
12	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	Single pole (Make:- Anchor/Schneider/Legrand/L&T)	10			each	
13	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	40 Amps. (Make:- Anchor/Schneider/Legrand/L&T)	1			each	
14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	40 Amps. (Make:- Anchor/Schneider/Legrand/L&T)	1			each	
15	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
i)	Double door-16 way (Make:- Anchor/Schneider/Legrand/L&T)	1			each	
16	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1			Set.	
17	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			Mtr.	
18	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	9			each	

19	Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No. for ordering code LSTS-20-CDL-M , powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, including connection, testing and commissioning etc. as required.					
i)	Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M)/Bajaj/Wipro	2			each	
20	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required.-					
i)	40 mm dia. G.I. pipe, heavy class	2			each	
21	Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect.	9			each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Ayurvedic Health Centre Building at Bhanai Tehsil Jawail Distt Kangra (HP) (SH:- Providing EI there in)		Job No 4		ESTIMATED COST: Rs. 1,79,923/-only. EARNEST MONEY: Rs. 3600/-only TIME ALLOWED: Two Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/SCI/Plaza/Anchor & Anchor/SSK					
i)	Group C.	43			Pl	
2	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor.	20			Meter	
3	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/SCI/Plaza/Anchor.	28			Meter	
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/SCI/Plaza/Anchor.					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	37			Mtr.	
ii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	2			Mtr.	
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/SCI/Plaza/Anchor.					

	i)	3 x 1.5 sq. mm	24			Mtr.	
6		Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. (Make: BEC Plast/Anchor/Finolex)					
	i)	50 mm. dia	3			Mtr.	
7		Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required.	5			each	
8		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 including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.	4			each	
9		Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy \geq 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.					
	i)	LED Batten 20W, 4 feet long Make: Crompton (Cat no. CCS-100-20-65-HL2-DP-NWH)/Bajaj/Wipro	20			Each	
10		Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	i)	Ceiling Fan 1200 mm sweep, Cat-A (Make: Crompton Model: WWHE ISI)/Usha/Bajaj	7			each	
11		Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					

	i)	Exhaust Fan, Light duty, (Domestic) 225 mm sweep (Make: Crompton, Model : Flux Air metal)/Usha/Bajaj	5			each	
	12	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	i)	Single pole (Make:- Anchor/ Schneider/ Legrand/L&T)	10			each	
	13	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	i)	40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1			each	
	14	Supplying and fixing following rating, double pole. (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	i)	40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1			each	
	15	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/isolator)					
	i)	Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T)	1			each	
	16	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1			Set	
	17	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			Mtr.	
	18	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	9			each	

19	Providing and erection of LED 20 watt street light luminaries of Crompton Greaves Electric having cat No. /ordering code LSTS-20-CDL-M , powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion < 10% and efficiency ≥ 100 Lumens per watt, CRI rating> 70 suitable for input voltage: AC 220-240 V, 50 Hz.including connection, testing and commissioning etc. as required.					
i)	Street light fixture 20 watt LED with Lens, Make: Crompton (cat No. LSTS-20-CDL-M/Bajaj/Wipro	2			each	
20	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:-					
i)	40 mm dia. G.I. pipe, heavy class	2			each	
21	Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect.	9			each	
Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Additional accommodation in Govt. Sen. Sec. School Harchakiya in Distt. Kangra (H.P.)(SH: Providing 2 Nos. classroom Therein.)

Job No 5

ESTIMATED COST: Rs. 1,36,252/-only.
EARNEST MONEY: Rs.2800/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	27			Per Point	
	Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x1.5 Sq. mm.	35			Per Meter	
2.2	2x10 Sq. mm.	1			Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI					
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					
	3x1.5 Sq. mm.	10			Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI					

4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	8			Each	
	Makes:- L&T / Legrand / Schneider					
5	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:- Single Pole. Cat-A.	6			Each	
	Makes:- L&T / Legrand / Schneider					
6	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Double pole. Cat-A.	1			Each	
	Makes:- L&T / Legrand / Schneider					
7	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 Amps. Cat-A.	1			Each	
	Makes:- L&T / Legrand / Schneider					
8	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
	Makes:- L&T / Legrand / Schneider					

	Double door-12 way	1			Each	
	Makes:- L&T / Legrand / Schneider					
9	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1			Per Set	
10	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20			Per Meter	
11	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens,CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc. LED Bulkhead, 10 Watt					
	Makes:- Panasonic /Havells/Philips/Usha tishva	2			Each	
12	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- Ceiling Fan 1200 mm sweep, Cat.-A	8			Each	

13	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						
	Makes:- Bajaj Havells/Philips/Usha tishva	16				Each	
14	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						
	{Makes: Panasonic /Bajaj/Havells	1				Each	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- : C/o Health Sub-Centre at Kairi in Tehsil Shahpur Distt. Kangra (H.P.) (SH: Providing E.I. therein)		Job No 6		ESTIMATED COST: Rs. 1,28,365/-only. EARNEST MONEY: Rs.2600/-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.	20			Per Point	
	Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI					
2	Wiring for circuits/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.	25			Per Meter	
2.2	2x4.0 Sq. mm.	16			Per Meter	
2.3	2x10 Sq. mm.	1			Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI					
3	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	10			Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI					

4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.	15			Per Meter	
	3x1.5 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.	6			Each	
	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.	3			Each	
	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			Each	
	Makes:- Anchor / Havells / Goldmedal					
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	7			Each	
	Single Pole. Cat-A.					
	Makes:- L&T / Legrand / Schneider					
9	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	Double pole. Cat-A.	1			Each	
	Makes:- L&T / Legrand / Schneider					
10	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.	1			Each	
	Makes:- L&T / Legrand / Schneider					
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
	Double door-12 way	1			Each	
	Makes:- L&T / Legrand / Schneider					
12	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			Per Set	
13	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	20			Per Meter	
14	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			Each	
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep					
	Makes:- Usha / Bajaj / Crompton Greaves					
15	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens, CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc.					
	LED Bulkhead, 10 Watt					
	Makes:- Panasonic / Havells/Philips/Usha tishva	3			Each	

16	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:- Make:- Usha/Havells/Bajaj/Techniplus 3 star.						
	Ceiling Fan 1200 mm sweep, Cat.-A	4				Each	
17	Supplying and fixing surface mounted circular LED 18 Watt (1800 lumen), 6000K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.						
	18 Watt LED, Round downlighter surface mounted						
	Makes:- Panasonic/Wipro/Havells	6				Each	
18	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						
	Makes:- Bajaj /Havells/Philips/Usha tishva.	3				Each	

19	Providing and fixing high efficiency 2 Feet LED Extruded aluminium housing (enhances safety) with high quality polycarbonate diffuser for optimum light output with in built LED driver, designed suitable for 10 Watt (1150 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 140-270V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
	LED 10 Watt, 2 feet long (Smartwrite Batten)					
	Makes:- Philips /Panasonic/bajaj	1			Each	
20	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					
	Makes: Panasonic /Bajaj/Havells	1			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Health Sub Center Building with delivery room at Mohli in Tehsil Fatehpur, Distt. Kangra (H.P.) (Sh:- Pdg. EI in there in).

Job No 7

ESTIMATED COST: Rs. 3,08,477/-only.
EARNEST MONEY: Rs.6200/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK / SCI	16			Per Point	
i)	Group A.					
ii)	Group C.	27			Per Point	
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK /SCI.	1			Per Point	
i)	Twin Control					
3	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK /SCI	8			each	

4	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/Havells(Reo)/SSK	9			each	
5	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Livial)/ Legrand (Myrius)/L&T(Entice).	1			each	
6	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor /SCI	84			Per Meter	
7	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor./SCI	33			Per Meter	
8	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Plaza/Anchor./SCI					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	86			Per Meter	
ii)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	6			Per Meter	
iii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	6			Per Meter	
9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor./SCI					
i)	3 x 1.5 sq. mm	20			Per Meter	

10	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase. 230 volts complete as required:-	2				each	
11	Supplying and fixing PVC batten/angle holder including connection etc. as required.	9				each	
12	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.						
i)	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD)/Bajaj (Model: Freshsee)/Anchor (Model: Anmol)/Crompton(Model: Drift air Plus .	5				Each	
13	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.						
i)	Ceiling Fan 1200 mm sweep (Make: Usha, /Bajaj/Crompton.	5				Each	
14	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.						
i)	Ceiling Fan 1400 mm sweep (Make: Bajaj Model:Speedster/ Crompton Model:WWHE) /Anchor (Model: XL).	1				Each	
15	Providing and installation of IP20 Led fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy $\geq 100lm/W$ with Aluminium housing P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70 with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..						
i)	LED Batten 20W, 4 feet long (Make: Bajaj / Philips/Panasonic.	7				Each	

16	Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy \geq 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 of 50000 Hrs at L70, with 5- years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					
	i) LED Panel Light 36 watt 1'x4' , (Make: Bajaj, / Wipro/Philips).	4			Each	
17	Providing and fixing of IP65 LED Bulk head 10 W+/- 1W with with system efficacy \geq 100lm/W with Aluminium housing P.F.>0.95 with THD<10% ,CCT 5700 K,CRI 70,Surge Protection 4 Kv.The LED with Useful life of 50000 Hrs at L70 with 5- years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
	i) Bulk Head Light LED 10 W (Make:- Bajaj /Wipro/Panasonic.	4			Each	
	Supplying and fixing of LED wall Bracket having luminous flux 150 lumens, colour temp. 3000K, should be compatible with specification i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating>80. suitable for Input voltage AC 220-240V, 50/60 HZ complete with all accessories, including connections,testing and commissioning etc.as required complete in all respect. Make- Philips, Jaquar & Wipro.					
	LED Wall Bracket 9W (Make: Jaquar / Philips / Wipro.	3			Each	
	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing. diffuser to avoid glare,it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating> 70 suitable for input voltage: AC 220-240 V, 50 Hz. complete with all accessories, connections, testing and commissioning etc. as required. Make:-Wipro, Bajaj.					
19	Mirror light 10 Watt, 2 Feet Long Surface Mounted (at par with Wipro Cat no.LL20-111-XXX-65NE3**)	1			each	

	Providing and fixing of LED 20 watt street light luminaries of Bajaj having cat No. PSTM27208, powder coated pressure die-cast aluminium heat sink and toughened glass SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz with all accessories, connections, testing and commissioning etc. as required. Make:- Bajaj, Wipro Panasonic.					
	i) LED Street Light 20 W (Make:- Bajaj Cat no. PSTM27208) / Wipro/Panasonic.	3				Each
	21 Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:-	3				Each
	22 Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	i) Single pole (Make:- Anchor/ Schneider/ Legrand/L&T)	17				Each
	23 Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	i) 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1				each
	ii) 63 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1				Each
	24 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	i) 40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1				each
	ii) 63 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1				Each

25	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
	i) Double door-12 way (Make:- Anchor/ Schneider/ Legrand/L&T)	1			each	
	ii) Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T)	1			each	
26	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit or cutting the conduit and fitting into the same in case of recessed conduit as required. (Make: Sidharth/BEC)					
	i) 25 mm. dia	5			Per Meter	
27	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. (Make: BEC/Plast/Anchor)					
	50 mm. dia	5			Per Meter	
28	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.					
	1 or 2 Module(75mmX75mm X 60mm)	2			each	
29	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
	Telephone socket outlet piano type	1			each	
	TV socket outlet piano type	1			each	
30	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	15			Per Meter	

31	annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
	1 Pair	15				Per Meter	
32	Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt as required.	1				Set	
	4.00 m of Flying and laying 6 SW/G G.I. wire at 0.50 mtr. below ground level for conductor earth electrode, including connection/termination with GI thimble 1.25 diameter.	65				Per Meter	
	Providing & installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required.						
	25 Liter capacity water heater (Cat-A) Make:- Usha, Bajaj, Recold.	1				each	
35	Providing and fixing LED Bulb 9 watts to 10 watt in the existing fixture as required complete in all respect.	9				each	
	Total						


Executive Engineer
 Electrical Division
 HPPWD, Palampur

SCHEDULE OF QUANTITY

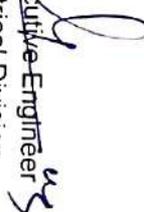
NAME OF WORK :-C/O Cow Sanctuary at Kudan Dehal (Jia) in Tehsil Palampur
Distt. Kangra (H.P.) (S.H:- Providing E.I. therein.)

Job No 8

ESTIMATED COST: Rs.1,04,913/-only.
EARNEST MONEY: Rs. 2100/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / 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/SCI/Plaza.					
	Group C.					
2	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 1400 mm sweep, Category-A	9			Each	
	Makes :- Ceiling Fan 1200 mm sweep, Category-A usha /Technix Plus 3 Star/Philips/Bajaj /Crompton					
3	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 .	12			Each	
	Makes :- Wipro Philips/Trilux					
4	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:- Make:- L&T/Anchor/Schneider.					

	6 Amp Single pole. Cat-A.						
5	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/Anchor/Schneider.	3				Each	
	40 Amps. Cat-A.						
6	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Anchor/Schneider.	1				Each	
	40 Amps. Cat-A.						
		1				Each	
7	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:-(But without MCB/RCCB/isolator)Make:- L&T/Anchor/Schneider.						
	Double door-8 way	1				Each	
	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.Make:- KEI/SCI/Havells/Plaza.						
	2x2.5 Sq. mm.	45				Per Mtr.	
	Total						


 Executive Engineer
 Electrical Division
 HPPW, Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-Providing & laying Armoured cable in Govt. Polytechnic college Talwar Tehsil Jaisinghpur Distt.Kangra (H.P).		Job No 9		ESTIMATED COST : Rs. 1,34,640/-only. EARNEST MONEY : Rs. 2700/-only TIME ALLOWED: Two Months		UNIT	AMOUNT
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES		UNIT	AMOUNT
				WORDS			
1	Providing and laying of one No.aluminium conductor,PVC insulated and PVC sheathed,armoured /XLPE power cable,working voltage 1100 volts grade of following size on wall of the required size:- Make: KEI/SCI/Anchor/Plaza						
	Armoured cable 35sqmm sqmm(3.5 core)	220				P/Mtr	
Total							


Executive Engineer
 Electrical Division
 HPPWD/Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-C/O Ayurvedic Health Sub Centre at Sarsaya with residence Tehsil Palampur Distt. Kangra (H.P.) (S.H.- Providing E.I. therein.)

Job No 10

ESTIMATED COST: Rs.3,01,057/-only.
EARNEST MONEY: Rs. 6100/-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			Per point.	
	SCI/KEI/Plaza make					
2	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 A.	21			Per point.	
	SCI/KEI/Plaza make					
3	Wiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required					
	Group C.	1			Per point.	
	SCI/KEI/Plaza make					
4	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	53			P/Mtr.	
	SCI/KEI/Plaza make					

5	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.	40			P/Mtr.	
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	55			P/Mtr.	
	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	2			P/Mtr.	
	SC/KEI/Plaza 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.	11			Each.	
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			Each.	
9	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:- Make:- L&T/Anchor/Schneider.					
	6 Amp Single pole. Cat-A.	6			Each	
	16 Amp Single pole. Cat-A.	8			Each	
10	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 Amps. Cat-A.	1			Each	
	63 Amps. Cat-A.	1			Each	

11	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Anchor/Schneider.							
	40 Amps. Cat-A.	1					Each	
	63 Amps. Cat-A.	1					Each	
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, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:-(But without MCB/RCCB/isolator) Make:- L&T/Anchor/Schneider.							
	Double door-12 way	2					Each	
13	Earthing with copper earthing 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					Per set	
14	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	9					Each	
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star,Philips,Bajaj							
15	Providing and installation of LED fixture 15 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F \geq 0.95 with THD <20%, CCT 6000 K,CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V							
	LED Surface mounting round downlighter 15 watt	16					Each	

	Makes :-Wipro / Philips /Trilux					
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. Make:- UshaBajaj/Compton					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3			Each	
17	Providing and installation of IP65 LED fixture 20 W +/- 1 W LED with surface Surface Mounted 4 feet Batten fixture with system with efficacy 100 lm/W with Aluminium housing and P. F \geq 0.95 with THD <20%, CCT 6000 K,CRI 80, Surge protection 2 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V .					
	LED Batten light 20 W	9			Each	
	Makes :-Wipro / Philips /Trilux					
18	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 .	9			Each	
	Makes :-Wipro / Philips /Trilux					
19	Providing and installation of LED fixture 600mmx600mm 36 W +/- 1 W LED with Surface Mounted with PMMA diffuser with having minimum system luman system efficacy 100 lm/W with CRCA housing and PMMA Diffuser with P. F \geq 0.95 with THD <10%, CCT 5700 K,CRI 80, The LED shall be tested with LM80-08 standered with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V .	1			Each	
	Makes :-Wipro / Philips /Trilux					
	Total					

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing and installation of Energy Recovery Ventilation System (ERVS) in Anesthesia ICU, 1st floor and Medicine ICU 4th floor of 500 Bedded Hospital Dr. RPGMC Kangra at Tanda in Distt. Kangra H.P. (SH: Providing additional aluminium spiral duct pipe and duct taping/rods etc. therein)		Job No 11		ESTIMATED COST: Rs.2,53,000/-only. EARNEST MONEY: Rs. 5100/-only TIME ALLOWED: Six Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and fixing Aluminium Spiral Duct pipe of 120mm dia for connection with energy recovery ventilator as required complete in all respects and to the best satisfaction of Engineer-in-Charge.	220			Per Meter	
2	Supplying and fixing aluminium Duct Taping/Thread Rod/Clams/Rods & other accessories for making the ERV system safe from monkey menace as required complete in all respects and to the best satisfaction of Engineer-in-Charge.	1			Each	
Total						


 Executive Engineer
 Electrical Division
 HPPWD/Palampur

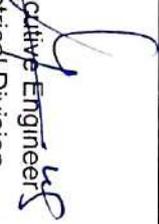
SCHEDULE OF QUANTITY

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 replacent 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			Per Job	
	Total					


Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-C/O Ayurvedic Health Sub Centre (Ground Floor) at Sansai with Tehsil Bajinath Distt. Kangra (H.P.) (S.H.- Providing E.I. therein.)		Job No 13		ESTIMATED COST: Rs.1,65,695/-only. EARNEST MONEY: Rs. 3400/-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				Per point.	
	SC/KEI/Plaza make					
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required					
	1				Per point.	
	SC/KEI/Plaza make					
3	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.	25			P/Mtr.	
	SC/KEI/Plaza make					
4	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	18			P/Mtr.	
	SC/KEI/Plaza make					
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					

	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	30			P/Mtr.	
	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	2			P/Mtr.	
	SC/KEI/Plaza make					
6	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. Makes: L&T/Legrand/Schneider/Anchor	4			Each.	
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. Makes: L&T/Legrand/Schneider/Anchor	3			Each.	
8	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. Makes: Legrand/Schiender/Anchor.					
	6 Amp Single pole. Cat-A.	3			Each	
	16 Amp Single pole. Cat-A.	3			Each	
9	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes: Legrand /Schiender/Anchor.					
	40 Amps. Cat-A.	1			Each	
10	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. Makes: Legrand/Schiender/Anchor.					
	40 Amps. Cat-A.	1			Each	

11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:-(But without MCB/RCCB/Isolator) Makes: Legrand/Schiender/Anchor.						
	Double door-12 way	1				Each	
12	Earthing with copper earthing 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				Per set	
13	Supplying and laying 8 SWG Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	20				Per Mtr	
14	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	5				Each	
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star, Philips,Bajaj .						
15	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 LED Surface mounting round downlighter 15 watt	6				Each	
	Makes :-Wipro / Philips/Trilux)						
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:-						

	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	1			Each	
	(As per cat. /price list Make:- Usha /Bajaj/Crompton					
17	Providing and installation of IP65 LED fixture 20 W +/- 1 W LED with surface Surface Mounted 4 feet Batten fixture with system with efficacy 100 lm/W with Aluminium housing and P. F \geq 0.95 with THD <20%, CCT 6000 K, CRI 80, Surge protection 2 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V .					
	LED Batten light 20 W	6			Each	
	Makes :-Wipro / Philips /Trilux					
18	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 .	7			Each	
	Makes :-Wipro /Philips /Trilux					
19	Providing and installation of LED fixture 600mmx600mm 36 W +/- 1 W LED with Surface Mounted with PMMA diffuser with having minimum system luman system efficacy 100 lm/W with CRCA housing and PMMA Difuser with P. F \geq 0.95 with THD <10%, CCT 5700 K, CRI 80, The LED shall be tested with LM80-08 standered with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V .	1			Each	
	Makes :-Wipro / Philips/Trilux					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK : Replacement and Repair of Motor starter panel of Condensor , Chiller, Hot water pump and cooling tower fan motor of HVAC system installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda.		Job No 14		ESTIMATED COST: Rs.3,91,800/-only. EARNEST MONEY: Rs. 7900/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair / Replacement of motor starter panel with spare parts for 20 HP capacity motor of Chiller/ Condensor Pump motor (star/delta) starter which includes MCCB 100 / 125 Amp, Single Phase preventor (SPPR) , Contactor with axulary contacts , Overload relay, star delta timer, MCB, Indicating lamps, wire connectors and wire etc.as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make :- L&T /Schneider/Legrand .	8			per job	
2	Repair / Replacement of motor starter panel with spare parts for 2.0/7.5 HP capacity hot water / cooling tower fan motor starter panel (Direct online starter) which includes MCCB , Single Phase preventor (SPPR) , Contactor with axulary contacts, overload relay, MCB, Indicating lamps, wire connector and wire etc.as required complete in all respects and to the best satisfaction of Engineer-in-charge.Make :- L&T /Schneider/Legrand .	6			per job	
Total						


 Executive Engineer
 Electrical Division
 HPPMB Palampur