

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2022-23/- 4937-45

Dated: 03/9/2022

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.

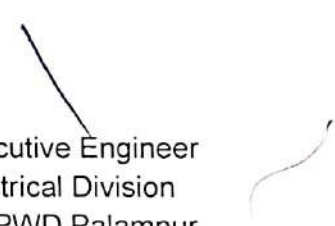
It is certified that the works mentioned in the Notice Inviting Tenders are urgent in nature and in public Interest.

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 19-09-2022 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	Construction of Veterinary Dispensary at Gehra in Tehsil Bharmour Distt. Chamba (SH:- Providing E.I. therein).	103411/-	2100/-	One Year	8	350/-
2	Construction of Home Guard 8/4 Company office & Store at Mehla in Tehsil Bharmour Distt. Chamba (H.P)(SH:- Providing E.I. therein)	212702/-	4300/-	One Year	8	350/-
3	Providing and Fixing AC 1.5 ton in the O/O Assistant Director Jursey Cattle Breeding Farms at Palampur in Tehsil Palampur Distt. Kangra (H.P)(SH:- P/F LED fittings, Geyser, LED tubes etc. therein).	473946/-	9500/-	One Year	8	350/-
4	Providing and Installation of 1 No. split type 1.8/2 Ton (Hot & Cold) Air conditioner in the dining room at HPPWD Rest house Haripur in Tehsil Haripur Distt. Kangra (H.P).	116265/-	2400/-	Three Months	8	350/-
5	Providing & fixing of split type air- conditioning units in skill Centre Room No. I,II,III& IV and Faculty Room, 1st Floor in Anatomy Block of Dr. RPGMC Kangra at Tanda.	441872/-	8900/-	One Months	8	350/-
6	C/o Executive Engineer (B&R) Division HPPWD Bhawarna in Tehsil Palampur Distt. Kangra (H.P)(SH:- Balance Work).	112843/-	2300/-	Two Week	8	350/-
7	C/o Additional Accommodation over Examination Hall of R.M.C.M Govt. Sen. Sec. School at Sullah in Tehsil Dheera Distt. Kangra (H.P) (SH:- Providing E.I. therein).	153189/-	3100/-	Six Months	8	350/-
8	C/o Additional Accommodation to Govt. Sr. Sec. School at Saloh in Tehsil Palampur Distt. Kangra (H.P)(SH:-Providing E.I. therein).	273594/-	5500/-	Six Months	8	350/-
9	C/o Police Station Building at Dehra in Tehsil Dehra Distt. Kangra (H.P)(SH:- Providing Campus Lighting therein).	391715/-	7900/-	Six Months	8	350/-
10	Providing Electrical Installation in the court of JMTC Tissa in Tehsil Churah Distt. Chamba (H.P)	107715/-	2200/-	Two Months	8	350/-

11	C/o Health Sub Centre at Bhoura With delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I in 1 st floor therein.)	123451/-	2500/-	One Year	8	350/-
12	C/O Health Sub Centre at Gadiara with delivery room & residence Tehsil Palampur Distt. Kangra (HP) (SH: Providing 1 st floor therein).	109607/-	2200/-	One year	8	350/-
13	C/o Health Sub Centre at Bhoda With delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I.in 1 st floor therein.)	123451/-	2500/-	One Year	8	350/-
14	C/o Health Sub Centre at Dai With delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I.in 1 st floor therein.)	123451/-	2500/-	One Year	8	350/-
15	C/O Health Sub Centre at Chander with delivery room & residence Tehsil Palampur Distt. Kangra (HP) (SH: Providing 1 st floor therein).	109607/-	2200/-	One year	8	350/-
16	C/O Health Sub Centre at Chambi with delivery room & residence Tehsil Palampur Distt. Kangra (HP) (SH: Providing 1 st floor therein).	109607/-	2200/-	One year	8	350/-
17	Providing & laying Armoured cable, Up-gradation of Sub Panel of SCVB Govt. Degree College Palampur Distt. Kangra (HP).	493669/-	9900/-	One Month	8	350/-
18	Repair and Maintenance of Tower type A.C. in ICU, Ward – I,II and split AC in Dr. Duty room etc. installed in makeshift Covid hospital Dr. RPGMC Kangra at Tanda for the year 2022-23.	233980/-	4700/-	One Month	8	350/-

HIM SUCHNA AVAM JAN SAMPARK VIBHAG

SCHEDULE OF QUANTITY

NAME OF WORK :- Construction of Veterinary Dispensary Building at Gehra In Tehsil Bharmour Distt. Chamba (H.P) (S.H.-Providing E.I. therein).

Job No 1

ESTIMATED COST: Rs. 1,03,411/-only.
EARNEST MONEY: Rs. 2100/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	FIGURES		RATES		UNIT	AMOUNT
						WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Anchor (Panta)/ SSK(Touch) or any other as approved by Engineer-in-Charge.							
	Group C.	15					Per point	
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.HRRFRS/PVC Insulated single core copper conductor cable of same size for earthing as required. Make: Plaza/ KEI/ Anchor/SCI							
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	30					Per metre	
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	34					Per metre	
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	2					Per metre	
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make: Plaza/ KEI/ Anchor/SCI							
i	3x2.5 Sq. mm.	5					Per metre	
5	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor (Panta)/ SSK(Touch) or any other as approved by Engineer-in-Charge.	3					Each	

6	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor (Panta)/SSK(Touch) or any other as approved by Engineer-in-Charge.	4			Each	
7	Supplying and fixing metal box of 200mm X 150mm X 75mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 nos. 3 pin 5/6 amps piano type socket outlets and 3 nos 5/6 amps piano type switches, connection etc. as required. Make: Anchor (Panta)/SSK(Touch) or any other as approved by Engineer-in-Charge.	1			Each	
8	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Make: BEC/ Diplast/ Anchor.					
	25 mm. dia	12			Per mtr	
9	Supplying and fixing call bell / buzzer, suitable for D.C./A.C. single phase,230 volts complete as required:- Make: Anchor (Panta)/SSK(Touch) or any other as approved by Engineer-in-Charge.	1			Each	
10	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- Make:- Usha/Orient/Crompton					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	1			Each	
11	Providing installation, Testing and commissioning of Ceiling Fan with step electronic fan regulator paino type, including wiring the down rod of standred length (up to 30 Cm) with 16/0.20 mm twin twisted fixible, cotton braided cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	1400 mm sweep Make:- Bajaj (Speedter 3 Star)	3			Each	
13	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required.					
	Make:-Panasonic/Bajaj/Mipro.					

i	LED Tube Fixture 22Watt (L x W:1135 x22mmHeight:37mm)					
	Cat No: BCLAB 20W LED P	2			Each	
14	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 42 Watt (4200 lumen) 6000K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. Make:-Panasonic/ BAJAJ/Wipro					
	Sauver (Surface)-42W/1ft.x4ft.	2			Each	
	Cat No:LSVR003S042XC					
15	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 12/18 Watt (1200/1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.including 5 year warrenty as required.					
	Make:-Panasonic/Bajaj/ Wipro/					
	LED 12 Watt Square (L x W: 175 mm x 175MM. Height: 35 mm) Cat no. LNRO02S012SC	2			Each	
16	Providing and fixing Bulk Head Fitting with high efficacy up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. including 5 year warrenty as required.as .Make:-Jaquar/Panasonic/ Wipro,Philips.					
	LED Bulk head 10Watt Cat No: BIBWP 10W LED	3			Each	
17	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 10Watt (Mirror Light)(1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 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. Make:-Panasonic,Bajaj/Wipro					

	Mirror light LED 10Watt							
i	Cat No: LL20-111-111-XXX-65NE3	1					Each	
18	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Make: Anchor, Legrand, Schneider.							
ii	Double door-12 way							
19	Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required Make: Anchor, Legrand, Schneider.	1					Each	
20	Supplying and fixing 40 Amps. rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required:- Cat-A. Make: Anchor, Legrand, Schneider.	1					Each	
21	Supplying and fixing 40 Amps. rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required : Cat-A. Make: Anchor, Legrand, Schneider.	1					Each	
22	Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1					Set	
23	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required	15					Per metre	
	Total							

Executive Engineer
 Electrical Division
 HPPWD, Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Construction of Homeguard 8/4 Company office & Store at Mehla In Tehsil Bharmour Distt. Chamba (H.P) (S.H.-Providing E.I. therein).

Job No 2

ESTIMATED COST: Rs. 2,12,702/-only.
EARNEST MONEY: Rs.4300/-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.					
	Make:- Legrand (Mytrius)/ Schneider(Livia)/Anchor Roma (Plus)					
	Group C.					
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.	34			Per point	
	Make:- Legrand (Mytrius)Schneider(Livia)/Anchor Roma (Plus)					
	Group c.					
		1			Per point	
3	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make KEI/SCI/Anchor/Plaza					
i	2x1.5 Sq. mm.+ 1 X 1.5 sq. mm earth wire	20			Per metre	
ii	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	40			Per metre	
iii	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	35			Per metre	

iv	2x10 Sq. mm. + 1 X 10 sq. mm earth wire	2			Per mtr.	
4	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HFRFLS/PVC insulated single core copper conductor cable for earthing as required. Make KEI/SCI/Anchor/Plaza	12			Per metre	
5	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make:- KEI/SCI/Anchor/Plaza					
	PVC insulated HFRF LS Copper conductor 1.5 Sq. mm.					
i	3x2.5 Sq. mm.	16			Per mtr.	
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	6			Each	
	Make:- Legrand (Myrius)/Schneider(Livia) /Anchor Roma (Plus)					
7	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	5			Each	
	Make:- Legrand (Myrius)/Schneider(Livia) /Anchor Roma (Plus)					
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 nos. 3 pin 5/6 amps modular socket outlets and 3 nos 5/6 amps modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).	2			Each	
	Make:- Legrand (Myrius)/ Schneider(Livia)/Anchor Roma (Plus)					
9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. Makes:- Legrand (Myrius)/Schneider(Livia)/Anchor Roma (Plus)					
i	Telephone Socket outlet, modular.	1			Each	
	Supplying and fixing RJ 45 Jack with cat 6 in the existing switch box / cover plate including connections etc. as required.					
	RJ 45 Jack with cat 6 (1 moudule) Makes:- Legrand (Myrius)/Schneider(Livia)/And	2			Each	

	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required.				
	2 modules (78mmx78mmx50mm)	2		Each	
10	Supplying and drawing LAN cable CAT 6, solid copper conductor protected with PVC sheath in the existing surface / recessed, steel / PVC conduit as required. Make:- KEI/SCI/Anchor/Plaza	30		Per mtr	
11	Supplying and drawing following pair of Fire Retardant, PVC insulated 0.5 sq. mm. (FR-Flexible) copper conductor, flat, unarmoured, telephone cable in existing surface / recessed, steel / PVC conduit as required. Make:- Anchor/KEI/Plaza /SCI or its equivalent make.				
	1 Pair				
12	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- Make:- Anchor/BEC/Diplast	15		Per mtr.	
i	25 mm. dia	40			
13	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase 230 volts complete as required:-	2		Each	
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:- Make Usha/Bajaj/Anchor				
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3		Each	
15	Providing installation, Testing and commissioning of Ceiling Fan with step electronic fan regulator paino type, including wiring the down rod of standard length (up to 30 Cm) with 16/0.20 mm twin twisted flexible, cotton braided cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.				
i	1200 mm sweep Anchor	3		Each	
ii	1400 mm sweep ISI Anchor	1		Each	

16	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 6/12/18 Watt (600/1200/1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. Make:-Bajaj/Panasonic/ Wipro					
i	LED 12 Watt Square Cat No: PPAM17127R1	6			Each	
ii	LED 18 Watt Square Cat No:PPAM17187R1	1			Each	
17	Supplying and fixing surface mounting following size LED solution suitable for surface application with the use of the latest technology 42 Watt (4200 lumen) 6000K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. Make:-Panasonic/ BAJAJ/Wipro					
i	Sauver (Surface)-42W/1ft.x4ft. Cat No:LSVR003S042XC	2			Each	
18	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. Make:-Bajaj/Panasonic/Wipro.					
i	LED Tube Fixture 20Watt Cat No: BCLAB 20W LED P	5			Each	
19	Providing and fixing Bulk Head Fitting with high efficacy up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including with all accessories, connections, testing and commissioning etc. as required.as Make:-Bajaj/Panasonic/ Wipro					

i	LED Bulk head 10Watt Cat No: BIBWP 10W LED	8			Each	
20	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 10Watt (Mirror Light)(1000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 10 Watt complete with all accessories, connections, testing and commissioning etc. as required. Make:- Jaguar, Panasonic, Wipro					
i	Mirror light LED 10Watt	2			Each	
	Cat No: LL20-111-111-XXX-65NE3					
21	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	2			Each	
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.					
	9 Watt LED, B-22	2			Each	
	Makes:- Tisva (Cat.No.AL916611R 9W/ B22) / Panasonic / Osram.					
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, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- (Make:- Anchor/ Legrand/ Schneider)					
iii	Double door-16 way	1			Each	
24	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of Single pole in the existing MCB DB complete with connections etc. as required:- Cat-A. (Make:- Anchor/ Legrand/ Schneider)	11			Each	
25	Supplying and fixing 63 Amps. rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- Anchor/ Legrand/ Schneider)	1			Each	

26	Supplying and fixing 63 Amps. rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make:- Anchor/Legrand/Schneider)	1			Each	
27	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1			Set	
28	Supplying and laying 8 SWG Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	30			Per metre	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing and fixing AC 1.5 Ton in the O/O Assistant Director Jursej Cattle Breeding Farms at Palampur (Sh.- P/F LED Fittings, Geyser ,LED tubes there in)			Job No 3		ESTIMATED COST: Rs. 4,73,946/-only. EARNEST MONEY: Rs. 9500/-only TIME ALLOWED: One Year	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying, installation, testing and commissioning of 1.5 Ton hot & cold (Inverter) Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with ammendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor as required complete in all respects.					
	A.C. Unit 1.5 TR capacity	4			Each	
2	Makes: Daikin /Recold / Volts.					
	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 170 volt to 250 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.8 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.					
	Automatic Voltage Stabilizer 5 KVA	4			Each	
	Makes:- V-Guard /Godrej / whirlpool / Mitushbhi.					
ii	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	4			Each	
	Providing & fixing of extra copper tubes for refrigerant and condensate (5/8" - 1/4") for 1.5/2 T.R. split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.	4			Per Meter	
iv	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.	30			Per Meter	

V	Dismantling and re-installation of split type AC unit as required .	1				Each	
3	Providing and installation of LED Fixture 600mmx600mm 36W+/- 1W with 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 WITH THD, <10% , CCT 5700 K, CRI 80, The LED shall be tested with LM80-08 standard with uses full life of 50000 Hrs. at L70. . Wipro Cat No. CRCO10S038HP57G1L1 Make:-Philips/ Trilux / Bajaj.						
	Square LED Panel Light 2x2 (36W)	6				Each	
4	Providing and installation of following type of IP20W+/- 1W with surface mounted 4 feet batten fixture with system efficacy 100lm/W with Aluminium housing P.F > 0.95 WITH thd, 20% , CCT 6500 K, CRI 80, Surge Protection 2Kv. The LED with uses full life of 50000 Hrs. at L70. . The Input voltage range shall be 150v to 270v. Wipro Cat No. LL20-281-XXX-AL 1/ Make:- Philips/ Trilux / Bajaj.						
	LED Batten Light 20 Watt	3				Each	
5	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)	2				Each	
	Makes: JAQUAR ELENA VERTICAL MANUAL RANGE / Recold/ Bajaj						

6	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:-					
	10 Liter capacity water heater (Cat-A)	1			Each	
	Makes: JAQUAR ELENA VERTICAL MANUAL RANGE/ Recold/ Bajaj					
7	Providing , Installation , testing and commissioning of wall fan of following size by means of suitable rag-bolts / nuts , connections , testing , and commissioning etc. as required in all respect to the best satisfaction of Engineer-in-charge					
	Wall fan 400mm sweep	1			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 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	2			Each.	
9	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.	10			Each.	
10	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 . Make:- SC/IKEL/Bajaj.	50			P/Mtr.	
11	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 . Make:- SC/IKEL/Bajaj.	50			P/Mtr.	
12	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					

	2X6 sqmm+1X6 sq mm earth wire Make:- SC/KEI/Bajaj.	30				P/Mtr.	
13	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:-						
	16 Amp Single pole. Cat-A.	10				Each	
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.						
	63 Amps. Cat-A.	1				Each	
15	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	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing and Installation of 1 No. split type 1.8/2Ton(Hot & Cold) Air conditioner in the dining room at HPPWD Rest house Haripur.

Job No 4

ESTIMATED COST: Rs. 1,16,265/-only.
EARNEST MONEY: Rs. 2400/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	supplying, Installing, Testing and Commissioning of Split Type Air Conditioner 1.5/2 TR 4 star inverter SPLIT AIR CONDITIONER (Hot and Cold) conforming to I.S.I - 1391 Part-1992 with ammendment No. 1 (expect power consumptions norms) fitted with Hermetically shielded Air Conditioner with installation & testing and commissioning etc. as required in all respects. Makes:- Daikin/O General/ Voltas /whirepool.					
	A.C. Unit 1.8/2 Ton capacity	1			Each	
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 150 volt to 290volts and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5/2 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects. Makes: V-Guard / whirepool / Godrej.					
	Automatic Voltage Stabilizer 4 KVA	1			Each	
3	P/F of M.S out door heavy duty stand powder coated suitable to hang 1.5/2 TR split A.C with six Nos. Anchor bolts as required complete in all respects and as per direction of Engineer - in- charge.	1			Each	
4	S/F of Copper tube with insulation for A.C 1.8/2 TR capacity complete in all respects as required.	10			P/ mtr.	
5	S/F of Drain pipe of size 1" Dia (25mm) complete with elbows tees,socket etc. of superior quality as per satisfaction of Engineer-In-Charge.	10			P/ mtr.	
6	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCconduit as required.					
	S/D 3 X 2.5 sq. mm	8			P/ mtr.	
	Makes: Plaza/KEI/Anchor/RR/SCI					

7	Providing and fixing PVC covering for copper pipe of following size 100X50mm as required complete in all respects.	10				P / mtr.	
	Makes:-Polypplast,Deeplast,BEC.						
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25 amps modular socket outlet and 25 amps modular SP MCB "C" curve including connection,painting etc. as required.						
i	Makes: Legrand,Schiender,Anchor.	1				Each	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Providing and fixing of split type air-conditioning units in Skill Centre Room No. I, II, III & IV and Faculty Room, 1st floor in Anatomy Block of Dr. RPGMC Kangra at Tanda.		Job No 5		ESTIMATED COST: Rs. 4,41,872/-only. EARNEST MONEY: Rs. 8900/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying, installation, testing and commissioning of following capacity (Hot & Cold) 4 star Inverter Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with ammendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor as required complete in all respects.					
1.1	A.C. Unit 1.5 Ton capacity (Split Inverter)	1			Each	
	Makes:- Daikin (Model No. : FTH150U (R-32)/4 Star)/Mistubishi/Bluestar					
1.2	A.C. Unit 1.8 Ton capacity (Split Inverter)	4			Each	
	Makes:- Daikin (Model No. : FTH160U (R-32)/4 Star)/Mistubishi/Bluestar					
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130 volt to 270 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.					
2.1	Automatic Voltage Stabilizer 4 kVA	1			Each	
2.2	Automatic Voltage Stabilizer 5 kVA	4			Each	
	Makes:- V-Guard/Godrej/Whiripool					
3	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	5			Each	
4	Providing & fixing of extra copper tubes for refrigerant and condensate of following sizes different capacity split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.					
4.1	1/4" x 1/2" for 1.5 TR capacity AC Unit	2			Per Meter	

4.2	1/4" x 5/8" for 2 TR capacity AC Unit	8				Per Meter	
5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	30				Per Meter	
	Total						



 Executive Engineer
 Electrical Division
 HPPWD/Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Executive Engineer (B&R) Division HPPWD Bhawarna in Teshil Palampur Distt. Kangra (H.P.) (SH:- Balance Work)			Job No 6		ESTIMATED COST: Rs. 1,12,843/-only. EARNEST MONEY: Rs. 2300/-only TIME ALLOWED: Two Week	
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. HFRFLS/PVC insulated single core copper conductor cable as required.Makes: Legrand(Myrtius),Schlender(Livia),Anchor Roma(Plus).					
	Group c.	12			Per Point	
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 1200 mm sweep, Category-A	1			Each	
	Makes:-Bajaj,Usha,Crompton, Panasonic or equivalent make					
3	Providing and installation of following type of IP20W+/- 1W with surface mounted 4 feet batten fixture with system efficacy 100lm/W with Aluminium housing P.F > 0.95 WITH thd. 20% , CCT 6500 K, CRI 80, Surge Protection 2Kv. The LEDwith ues full life of 50000 Hrs. at L70. . The Input voltage range shall be 150v to 270v. Wipro Cat No. LL20-281-XXX-AL 1/Philips/ Trilux					
	20 Watt ,4 Feet Long LED	15			Each	
	Makes:- Philips, Bajaj, Halonex ,C&S.					
4	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)/ L&T	5			Each	

ESTIMATED COST: Rs. 1,12,843/-only.
EARNEST MONEY: Rs. 2300/-only
TIME ALLOWED: Two Week

5	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)/ L&T	5				Each	
6	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase. 230 volts complete as required:-	4				Each	
7	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. HFR/LSPVC insulated single core copper conductor cable of same size for earthing as required.						
i	2x2.5 Sq. mm. Make:- SC/KEI/Plaza.	32				Per Mtr.	
ii	2x4.0 Sq. mm. Make:- SC/KEI/Plaza.	40				Per Mtr.	
8	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No. 4 Sq. mm. HFR/LSPVC insulated single core copper conductor cable for earthing as required. Make:- SC/KEI/Plaza.	42				Per Mtr.	
9	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. Makes:- Legrand, Schiender, Anchor.	8				Each	
	Single pole. Cat-A.						
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. Makes: Legrand, Schiender, Anchor.	1				Each	
	40 Amps. Cat-A.						
	Total						

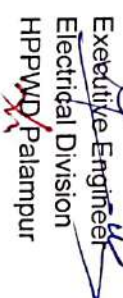

 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-C/O Additional Accommodation over Examination Hall of R.M.C.M Govt Sen. Sec. School at Sullah in Teshil Palampur Distt. Kangra (H.P.) (Sh:- Pdg. E.I therein)						
SR. NO.		DESCRIPTION		Job No 7		ESTIMATED COST: Rs. 1,53,189/-only. EARNEST MONEY: Rs. 3100/-only TIME ALLOWED: Six Months
			QTY.	RATES		UNIT
				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. Make:-KEI/Plaza/Anchor/SCI/Havels.				
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.	28			Per point.
		Group C. Make:-KEI/Plaza/Anchor/SCI/Havels.				
3		Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required	1			Per point.
		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	18			P/Mtr.
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				
		3X2.5 sqmm Make:-KEI/Plaza/Anchor/SCI/Havels.	12			P/Mtr.
5		Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	4			Each.
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 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	2			Each.

7	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make:-KEI/Plaza/Anchor/SCI/Havels.	12			P/Mtr.	
8	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. Make:-KEI/Plaza/Anchor/SCI/Havels.	17			P/Mtr.	
9	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/Havels.					
	2X6 sqmm+1X6 sq mm earth wire	2			P/Mtr.	
10	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	8			Each	
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star,Philips,Bajaj or any other approved by Engineer-in-Charge.					
11	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 ≥ 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	13			Each	
	Makes :-Wipro (Cat. No. LL20-281-XXX-ALI) Philips/Trilux any other approved by Engineer-in-Charge.					
12	Providing and installation of LED Fixture 18W+/- 1W with LEDround surface mounted Downlighter round shape with minimum system lumen efficacy of 85lm/W with and P F > 0.95 WITH THD, <20% , CCT 6000 K, CRI 80, The LED with full life of 50000 Hrs. at L70. . The Input voltage range shall be 150v to 270v. Wipro Cat No. Ld80-171-XXX-60-SM 1/Philips/ Trilux					
	Square/round LED Panel Light 18 Watt	4			Each	

13	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.	5			Each	
	16 Amp Single pole. Cat-A.	2			Each	
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.					
	40 Amps. Cat-A.	1			Each	
15	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	
16	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal or coke and salt complete as required.	1			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- C/O Additional Accommodation to Govt. Sr.Sec. School in Saloh in Tehsil Palampur Distt. Kangra (H.P.) in Tehsil Jaisinghpur Distt. Kangra (H.P.).		Job No 8		ESTIMATED COST: Rs. 2,73,594/-only. EARNEST MONEY: Rs. 5500/-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:- SC/KE/Plaza.					
	Group C.	40			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:- SC/KE/Plaza.					
	Group C.	1			Per point.	
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. Make:- SC/KE/Plaza.	53			P/Mtr.	
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. Make:- SC/KE/Plaza.	40			P/Mtr.	
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make:- SC/KE/Plaza.					

	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	10			P/Mtr.	
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. Make:- Anchor/Legrand/Schneider.	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.	4			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:- Make:- Anchor/Legrand/Schneider.					
	6 Amp Single pole. Cat-A.	6			Each	
	16 Amp Single pole. Cat-A.	4			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. Make:- Anchor/Legrand/Schneider.					
	40 Amps. Cat-A.	2			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. Make:- Anchor/Legrand/Schneider.					
	40 Amps. Cat-A.	2			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)						
	Double door-8 way Make:- Anchor/Legrand/Schneider.	2				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	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	12				Each	
	Makes :-Ceiling Fan 1400 mm sweep, Category-A usha Technix Plus 3 Star, Philips, Bajaj or any other approved by Engineer- in- Charge.						
14	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	9				Each	
	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Trilux) or any other approved by Engineer- in- Charge.						
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	2				Each	
16	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 ≥ 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	12				Each	
	Makes :-Wipro (Cat. No. LL20-281-XXX-AL1) Phillips/Trilux any other approved by Engineer-in- Charge.						
17	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 ≥ 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 .	10				Each	
	Makes :-Wipro (Cat. No.:-LW07-141-XXX-57-G1) Phillips/Trilux or any other approved by Engineer-in- Charge.						
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur
 11

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Police Station Building at Dehra in Tehsil Dehra Distt. Kangra (H.P.) (S.H:- Providing Campus Lighting therein).

Job No 9

ESTIMATED COST: Rs. 3,91,715/-only.
EARNEST MONEY: Rs. 7900/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and erection of Decorative Lighting Pole of length 4 mtr. The pole made out of Galvanised Mild Steel Tubes with base plate 250x250x12mm. The poles to be primer coated and painted with polyurethane paint. The pole has a sevic window at the bottom profile comprising 4-way 25 Amp connector terminal and a MCB etc. The pole to be mounted on a 1:2:4 cement concrete base (pedestal) of 450X450 mm and 300 mm L-Type foundation bolts 4x16 mm dia. with nuts, templates and all complete as per approved drawing. Foundation RCC 1:2:4 shall be of size 450x450mm and depth 900 mm c/c as per approved drawing. The foundation shall extend above surrounding ground/driveway level for 200 mm and have slant 63mm dia. PVC sleeve cast insitu foundation for cable entry as per the drawing. complete in all respects as required. Make: Twinkle (Cat No LuxMax-SP-114-402), K-Lite or its equivalent as per best satisfaction on Engineer-in-charge.					
i	4 Meter long having 114mm dia at bottom and 60/75mm dia at top.	7			Each	
2	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. Makes: KEI/Havells/ Plaza /SCI or Equivalent make.					
i	Armoured cable 6 sq. mm (twin core)	306			P/Mtr.	
3	Providing & Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Makes: KEI/Havells/ PLAZA /SCI or its equivalent as approved by Er-in-charge					
i	Armoured cable 6 sq. mm (twin core)	96			P/Mtr.	
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. Makes: Plaza/KEI/Anchor/SCI.					

i	PVC insulated HRFR LS Copper conductor 1.5 Sq. mm.						
ii	2x1.5 Sq. mm.	28				P/Mtr.	
5	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).						
i	Double door-4 way						
ii	Double door-6 way	6				Each	
iii	Double door-12 way	1				Each	
	Makes: Anchor/Legrand/Schneider.	1				Each	
6	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 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. Cat-A.						
ii	Makes: Anchor/Legrand/Schneider.	11				Each	
7	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
i	40 Amps. Cat-A.	2					
ii	Makes: Anchor/Legrand/Schneider.					Each	
8	Supplying and fixing of LED Flood light Luminaire comprises of Al Die cast Housing with frame , High Purity PC lens Diffuser,crade mounting, minimum system lumens of 5000. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. The luminaire shall have IP66 and IK08 protection. The LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V (nominal rated voltage – 240V) with 4 KV internal surge protection.						
i	LED Post top Luminaire 50 watts						

ii	Makes: Bajaj (Cat No: GLEAM F 55L WH SY PC SD V2-50W),Panasonics, Wipro or Equivalent.	3			Each	
9	Providing and erection of LED Post top 40 Watts 5700 K luminaries having powder coated pressure die-cast aluminium Post top light with heat resistant toughened glass including connections, testing and commissioning etc. as required complete in all respects.					
i	LED Post top Luminaire 40 watts.					
ii	Makes: Bajaj (Cat No: BGCTNP 40W LED WH-40Watts)/Wipro/ Panasonics or equivalent.	8			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-Providing Electrical Installation in the court of JMJC Tissa in Tehsil Churah Dist. Chamba H.P.			Job No 10		ESTIMATED COST: Rs. 1,07,715/-only. EARNEST MONEY: Rs. 2200/-only TIME ALLOWED: Two Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
	Group C	7			Point	
	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.					
2.1	2 X 2.5 sq. mm	10			P/Mtr	
2.2	2x4.0 Sq. mm.	50			P/Mtr	
2.3	2 X 06 sq. mm	9			P/Mtr	
2.6	4x4.0 Sq. mm.	15			P/Mtr	
	Make : KEI/Plaza/BEC/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.					
3.1	3x2.5 Sq. mm.	10			P/Mtr	
	Make : KEI/Plaza/Anchor/SCI					
4	Supplying and fixing suitable size G.I box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 15/16 Amps modular socket outlet and 15/16 Amps modular Switch connection etc. as required.	5			Each	

5	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).					
5.1	Modular G.I box for 12 module	3			Each	
6	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
6.1	3 module - Modular GI box with Modular base & cover plate	4			Each	
6.2	6 module - Modular GI box with Modular base & cover plate	1			Each	
7	Makes:- Anchor (Roma plus)					
7.1	Providing and installation of following type of IP-20 LED fixture 20 W+/-1W with surface mounted 4 Feet Batten Fixture with system efficacy 100lm/W with Aluminium housing P.F->0.95 with THD<20%, CCT 6500 K, CRI 80, Surge Protection 2 KV. The LED with Useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V Wipro Cat. No. LL20-281-XXX-AL-1/Philips/Trilux.					
8	LED Batten Light 20 Watt.	4			Each	
	Supplying and fixing call/bell/buzzer suitable for single phase,230 volts, complete as required.	1			Each	
9	Makes:- Anchor.					
9.1	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
	Modular bell push, ISI marked	1			Each	
10	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.					
10.1	Ceiling Fan 1400 mm sweep	1			Each	

	Makes:- Usha/Anchor/Bajaj							
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:-							
11.1	Exhaust Fan, light duty 300mm	1				Each		
	Makes:- Usha/Anchor/Bajaj							
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).							
12.1	Double door-12 way							
		1				Each		
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:-							
13.1	Single pole.	8				Each		
	Makes:- Anchor Uno/Legrand/Schneider							
14	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.							
14.1	40 Amps.	1				Each		
	Makes:- Anchor Uno/Legrand/Schneider							
15	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
15.1	40 Amps.	1				Each		
	Makes:- Anchor Uno/Legrand/Schneider							

16	Earthing with copper earth plate 600 mmx600 mm x 3 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				Per set	
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.	25				P/Run. Mtrs.	
Total							


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Health Sub Centre at Bhoura with delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH):- Providing E.I. 1st Floor therein).

Job No 11

ESTIMATED COST: Rs. 1,23,451/-only.
EARNEST MONEY: Rs. 2500/-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. Make:- SC/KEI/Plaza.					
	Group A.	15			Per Point	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable as required. Make:- SC/KEI/Plaza.					
	Group A.	1			Per Point	
3	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	2			Each	
	Makes:-Bajaj,Usha,Crompton, Panasonic or equivalent make					
4	supplying and Fixing of surface mounting 4 Ft long LED solution suitable for surface application with the use for latest technology 20 Watt (2000 lumens) K-6000 and it should be compatible with specifications i.e. Power factor > 0.9 , Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRL>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 respects					
	20 Watt ,4 Feet Long LED	6			Each	
	Makes:- Philips, Bajaj, Halonex, C&S or equivalent make					

5	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	2				Each	
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma)/ L&T	5				Each	
7	Supplying and fixing suitable size GI 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, connection etc. as required. Make: Anchor (Roma)/ L&T	4				Each	
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase. 230 volts complete as required:-	1				Each	
9	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. HFR/LS/PVC insulated single core copper conductor cable of same size for earthing as required.						
	2x2.5 Sq.mm Make:- SCI/KEI/Plaza.	20				Per Mtr.	
	2x4.0 Sq. mm. Make:- SCI/KEI/Plaza.	50				Per Mtr.	
	2x10 Sq. mm. Make:- SCI/KEI/Plaza.	1				Per Mtr.	
10	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. HFR/LS/PVC insulated single core copper conductor cable for earthing as required. Make:- SCI/KEI/Plaza.	19.993				Per Mtr.	
11	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. Make:- Anchor/Legrand/Schneider.	6				Each	
	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1				Each	
12	40 Amps. Cat-A. Make:- Anchor/Legrand/Schneider.						

	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.					
13	40 Amps. Cat-A. Make:- AnchorLegrand/Schneider.					
	Earthing with Copper earth plate 600mm x 600mm x 3mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (with charcoal or coke and salt) complete as required.	1			Each	
14		1			Pset	
16	Supplying and laying 6 SW/G G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25			Per metre	
	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Make:- AnchorLegrand/Schneider.	1			Each	
17	Double door-12 way					
	Providing and fixing surface mounted of LED Bulk Head of following rating 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. Makes :- Havells, Helonix, C&S as per (Cat. No. LTB10WLED), Panasonic					
18		4			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Health Sub Centre at Gadiara with delivery room & residence Tehsil Palampur Distt. Kangra (H.P.)(SH:- Providing E.I. 1st Floor therein).

Job No /2

ESTIMATED COST: Rs. 1,09,607 only.
EARNEST MONEY: Rs. 2200/-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 copper conductor Single core cable in surface / recessed steel conduit ,with piano type Switch , phenolic Laminated sheet suitable MS box and earthing the point plates, suitable and earthing the light point with 1.5 Sq. mm. FRLS/PVC insulated copper conductor single core cable ets. as required. Make:- Anchor/ (Panta) /SSK (touch)SCI/KEI/Plaza.					
	Group A.	15			Per Point	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable as required. Make:- SCI/KEI/Plaza.					
		1			Per Point	
3	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	2			Each	
	Makes:-Bajaj,Usha,Crompton, Panasonic.					
4	supplying and Fixing of surface mounting 4 Ft. long LED solution suitable for surface applicationwith the use for latest technology 20 Watt (2000 lumens) K-6000 and it should be compatible with specifications i.e. Power factor > 0.9 , Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRL>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 respects					
	20 Watt ,4 Feet Long LED	6			Each	
	Makes:- Philips, Bajaj, Halonex ,C&S					

5	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:- Bajaj /Usha/Crompton.					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2			Each	
6	Supplying and fixing metal box of 150mmx75mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required. Make Anchor(Panta)/SSK (Touch)	5			Each	
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required. Make Anchor(Panta)/SSK (Touch)	4			Each	
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1			Each	
9	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. HRRF/LS/PVC insulated single core copper conductor cable of same size for earthing as required. Make :- Plaza /KEI /Anchor /SCI					
	2x2.5 Sq.mm Make:- SCI/KEI/Plaza.	20			Per Mtr.	
	2x4.0 Sq. mm. Make:- SCI/KEI/Plaza.	50			Per Mtr.	
	2x10 Sq. mm. Make:- SCI/KEI/Plaza.	1			Per Mtr.	
10	Wiring for power plug 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. HRRF/LS/PVC insulated single core copper conductor cable for earthing as required. Plaza /KEI /Anchor /SCI	20			Per Mtr.	
11	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	6			Each	
	Single pole. Cat-A. Make:- L&T/Anchor/Legrand/Schneider.					
12	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1			Each	
	40 Amps. Cat-A. Make:- L&T/Anchor/Legrand/Schneider.					

13	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	40 Amps. Cat-A. Make:- L&T/Anchor/Legrand/Schneider.				
14	Earthing with GI earth plate 600mm x 600mm x 6mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (with charcoal or coke and salt) complete as required.	1		Each	
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25		Per metre	
16	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.- Make:- Anchor/Legrand/Schneider.	1		Each	
17	Double door-12 way Providing and fixing surface mounted of LED Bulk Head of following rating 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. Makes :- Havells, Helonix, C&S as per , Panasonic with five year warranty.				
		4		Each	
	Total				

Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Health Sub Centre at Bhoda with delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. 1st Floor therein).

Job No 13

ESTIMATED COST: Rs. 1,23,451/-only.
EARNEST MONEY: Rs. 2500/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HFRF/PVC insulated single core copper conductor cable as required. Make:- SC/KEI/Plaza.					
	Group A.	15			Per Point	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq.mm. HFRF/PVC insulated single core copper conductor cable as required. Make:- SC/KEI/Plaza.					
	Group A.	1			Per Point	
3	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	2			Each	
	Makes:-Bajaj,Usha,Crompton, Panasonic or equivalent make					
4	supplying and Fixing of surface mounting 4 Ft. long LED solution suitable for surface application with the use for latest technology 20 Watt (2000 lumens) K-6000 and it should be compatible with specifications i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRL>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 respects					
	20 Watt ,4 Feet Long LED	6			Each	
	Makes:- Philips, Bajaj, Halonex ,C&S or equivalent make					

5	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	2				Each	
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma) L&T	5				Each	
7	Supplying and fixing suitable size GI 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, connection etc. as required. Make: Anchor (Roma) L&T	4				Each	
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase 230 volts complete as required:-	1				Each	
9	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HFR/LS/PVC insulated single core copper conductor cable of same size for earthing as required.						
	2x2.5 Sq.mm Make:- SCIKEL/Plaza.	20				Per Mtr.	
	2x4.0 Sq. mm. Make:- SCIKEL/Plaza.	50				Per Mtr.	
	2x10 Sq. mm. Make:- SCIKEL/Plaza.	1				Per Mtr.	
10	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. HFR/LS/PVC insulated single core copper conductor cable for earthing as required. Make:- SCIKEL/Plaza.	19.993				Per Mtr.	
11	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. Make:- Anchor/legrand/Schneider.	6				Each	
12	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1				Each	
	40 Amps. Cat-A. Make:- Anchor/legrand/Schneider.						

13	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc as required					
	40 Amps, Cat-A, Make:- AnchorLegrand/Schneider.	1			Each	
14	Earthing with Copper earth plate 600mm x 600mm x 3mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc (with charcoal or coke and salt) complete as required	1			Pset	
15	Supplying and laying 6 SWG G.I wire at 0.50 mtr. below ground level for earth electrode conductor including soldering etc as required	25			Per metre	
16	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tuned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc as required - Make:- AnchorLegrand/Schneider.	1			Each	
	Double door-12 way					
17	Providing and fixing surface mounted of LED Bulk Head of following rating and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $\leq 10\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc as required Makes :- Havells, Helonix, C&S as per (Cat. No. LTB10WLED), Panasonic	4			Each	
	Total					

Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Health Sub Centre at Dai with delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH):- Providing E.I. 1st Floor therein).

Job No 14

ESTIMATED COST:- Rs. 1,23,451/-only.
EARNEST MONEY:- Rs. 2500/-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 (HRRF) 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. HRRFRLS/PVC insulated single core copper conductor cable as required.Make:- SC/KEI/Plaza.					
	Group A.					
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required.Make:- SC/KEI/Plaza.	15			Per Point	
	Group A.					
3	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-	1			Per Point	
	Group A.					
	Ceiling Fan 1200 mm sweep, Category-A	2			Each	
	Makes:-Bajaj,Usha,Crompton, Panasonic or equivalent make					
4	supplying and Fixing of surface mounting 4 ft. long LED solution suitable for surface application with the use for latest technology 20 Watt (2000 lumens) K-6000 and it should be compatible with specifications i.e. Power factor > 0.9 , Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRL>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 respects					
	20 Watt ,4 Feet Long LED	6			Each	
	Makes:- Philips, Bajaj, Halonex, C&S or equivalent make					

5	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	2			Each	
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma)/L&T	5			Each	
7	Supplying and fixing suitable size GI 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, connection etc. as required. Make: Anchor (Roma)/L&T	4			Each	
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1			Each	
9	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. HRRF/LS/PVC insulated single core copper conductor cable of same size for earthing as required.					
	2x2.5 Sq.mm Make:- SC/KEI/Plaza.	20			Per Mtr.	
	2x4.0 Sq. mm. Make:- SC/KEI/Plaza.	50			Per Mtr.	
	2x10 Sq. mm. Make:- SC/KEI/Plaza.	1			Per Mtr.	
10	Wiring for power plug 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. HRRF/LS/PVC insulated single core copper conductor cable for earthing as required. Make:- SC/KEI/Plaza.	19.993			Per Mtr.	
11	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. Make:- Anchor/Legrand/Schneider.	6			Each	
	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1			Each	
12	40 Amps. Cat-A. Make:- Anchor/Legrand/Schneider.					

	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.					
13	40 Amps. Cat-A. Make:- Anchor/Legrand/Schneider.					
		1			Each	
14	Earthing with Copper earth plate 600mm x 600mm x 3mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (with charcoal or coke and salt) complete as required.	1			Pset	
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25			Per metre	
	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Make:- Anchor/Legrand/Schneider.	1			Each	
16	Double door-12 way					
	Providing and fixing surface mounted of LED Bulk Head of following rating 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. Makes :- Havells, Helonix, C&S as per (Cat. No. LTB10WLED), Panasonic					
17						
		4			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Health Sub Centre at chander with delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH):- Providing E.I. 1st Floor (therein).

Job No 15

ESTIMATED COST: Rs. 1,09,607 only.
EARNEST MONEY: Rs. 2200/-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 copper conductor Single core cable in surface / recessed steel conduit , with piano type Switch , phenolic Laminated sheet suitable MS box and earthing the point plates, suitable and earthing the light point with 1.5 Sq.mm. FRLS/PVC insulated copper conductor single core cable ets. as required,Make:- Anchor/ (Panta) /SSK (touch)SCI/KEI/Plaza.					
	Group A.	15			Per Point	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required,Make:- SCI/KEI/Plaza.					
		1			Per Point	
3	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	2			Each	
	Makes:-Bajaj,Usha,Crompton, Panasonic.					
4	supplying and Fixing of surface mounting 4 Ft. long LED solution suitable for surface application with the use for latest technology 20 Watt (2000 lumens) K-6000 and it should be compatible with specifications i.e. Power factor > 0.9 , Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRL>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 respects					
	20 Watt ,4 Feet Long LED	6			Each	
	Makes:- Philips, Bajaj, Halonex ,C&S					

5	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:- Bajaj /Usha/Crompton.					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2			Each	
6	Supplying and fixing metal box of 150mmx75mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required. Make Anchor(Panta)/SSK (Touch)	5			Each	
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required. Make Anchor(Panta)/SSK (Touch)	4			Each	
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required. -	1			Each	
9	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. HRRF/PVC insulated single core copper conductor cable of same size for earthing as required. Make :- Plaza /KEI /Anchor /SCI					
	2x2.5 Sq.mm Make:- SCI/KEI/Plaza.	20			Per Mtr.	
	2x4.0 Sq. mm. Make:- SCI/KEI/Plaza.	50			Per Mtr.	
	2x10 Sq. mm. Make:- SCI/KEI/Plaza.	1			Per Mtr.	
10	Wiring for power plug 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. HRRF/PVC insulated single core copper conductor cable for earthing as required. Plaza /KEI /Anchor /SCI	20			Per Mtr.	
11	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required. -	6			Each	
	Single pole. Cat-A. Make:- L&T/Anchor/Legrand/Schneider.					
12	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1			Each	
	40 Amps. Cat-A. Make:- L&T/Anchor/Legrand/Schneider.					

13	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	40 Amps. Cat-A. Make:- L&T/Anchor/Legrand/Schneider.	1				Each	
14	Earthing with GI earth plate 600mm x 600mm x 6mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (with charcoal or coke and salt) complete as required.	1				Pset	
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25				Per metre	
16	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Make:- Anchor/Legrand/Schneider.	1				Each	
	Double door-12 way						
17	Providing and fixing surface mounted of LED Bulk Head of following rating 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. Makes :- Havells, Helonix, C&S as per , Panasonic with five year warranty.						
	Total	4				Each	


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Health Sub Centre at Chambi with delivery room & residence Tehsil Palampur Distt. Kangra (H.P)(SH:- Providing E.I. 1st Floor therein).

Job No 16

ESTIMATED COST: Rs. 1,09,607 only.
EARNEST MONEY: Rs. 2200/-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 copper conductor Single core cable in surface / recessed steel conduit ,with plano type Switch , phenolic Laminated sheet suitable MS box and earthing the point plates, suitable and earthing the light point with 1.5 Sq.mm. FRLS/PVC insulated copper conductor single core cable ets. as required. Make:- Anchor/ (Panta) /SSK (touch)SCI/KEI/Plaza.					
	Group A.	15			Per Point	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. plano type switch and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. Make:- SCI/KEI/Plaza.					
		1			Per Point	
3	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	2			Each	
	Makes:- Bajaj,Usha,Crompton, Panasonic.					
4	supplying and Fixing of surface mounting 4 Ft long LED solution suitable for surface application with the use for latest technology 20 Watt (2000 lumens) K-6000 and it should be compatible with specifications i.e. Power factor > 0.9 , Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRL>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 respects					
	20 Watt ,4 Feet Long LED	6			Each	
	Makes:- Philips, Bajaj, Halonex ,C&S					

5	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:- Bajaj /Usha/Crompton. Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2			Each	
6	Supplying and fixing metal box of 150mmx75mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required. Make Anchor(Panta)/SSK (Touch)	5			Each	
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required. Make Anchor(Panta)/SSK (Touch)	4			Each	
8	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase.230 volts complete as required:-	1			Each	
9	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make :- Plaza /KEI /Anchor /SCI					
	2x2.5 Sq.mm Make:- SCI/KEI/Plaza.	20			Per Mtr.	
	2x4.0 Sq. mm. Make:- SCI/KEI/Plaza.	50			Per Mtr.	
	2x10 Sq. mm. Make:- SCI/KEI/Plaza.	1			Per Mtr.	
10	Wiring for power plug 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. HRRFLS/PVC insulated single core copper conductor cable for earthing as required. Plaza /KEI /Anchor /SCI	20			Per Mtr.	
11	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. Make:- L&T/Anchor/Legrand/Schneider.	6			Each	
12	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. Make:- L&T/Anchor/Legrand/Schneider.	1			Each	

	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.					
13	40 Amps, Cat-A. Make:- L&T/Anchor/LeGrand/Schneider.	1			Each	
14	Earthing with GI earth plate 600mm x 600mm x 6mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (with charcoal or coke and salt) complete as required.	1			Pset	
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25			Per metre	
16	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Make:- Anchor/LeGrand/Schneider.	1			Each	
	Double door-12 way					
17	Providing and fixing surface mounted of LED Bulk Head of following rating 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. Makes :- Havells, Helonix, C&S as per , Panasonic with five year warranty.					
	Total	4			Each	


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Providing & laying Armoured cable,Upgradation of Sub-Panel of SCVB Govt. Degree college Palampur District Kangra (H.P.)		Job No 17		ESTIMATED COST: Rs. 4,93,669/-only. EARNEST MONEY: Rs. 9900/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation sand cushioning, protective covering and refilling the trench etc. of the required size:-					
	Armoured cable 400 sqmm (3.5 core) Make:- SCIL/KEI/Plaza/Havlis.	85			P/Mtr	
2	Supplying, Installation, Testing and Commissioning of indoor s/door,Cubical type L.T. Panel. The Panel shall be compartmentalized type having space and arrangement for incoming and outgoing cables/bus ducting, switchgear, insulated and properly supported compartmentalized bus-bars, interconnection between bus bars and switchgear with auxiliary bus bars/insulated conductors/strips etc. It shall be fabricated in 16G duly painted with Siemens Grey Powder Coated paintas per specification Approximate Size of Panel H- 1000 X W-600 X D- 200MM . Assembly of 100 A 4 strip copper Bus-Bar (Vertical /Horizontal) & Earth strip through out the length of panel n(current density) of copper Bus-Bar shall be 1mmx1mm=1.66 Amp) copper shall be Electric grade DMC epoxy insulator . All Busbars links shall be covered / insulated with Heat Shrinkable sleeves of coloured coded Red,Yellow, Blue & Black Assembly Charges of Copper solid/ Copper flexible wire interconnection Busbar to MCCB/MCB to field side for Cable termination duly covered/ insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black. All Interconnections of fields side are supported by conical, L & Finger type insulators of adequate size to support & sustain the weight of cables. Control Wiring with Copper Flexible Wire (size of control wire shall be 2.5 sq. mm copper flexible for C.T. Circuit & 1.0 sq. mm for Control Wiring) with thimbles printed sleeves, tie & belt etc. Assembly Charges of Accessories like Gasket, Doorlocks, Copper Flexible door earth, legend plates etc. as required complete in all respects and panel should be Approved/Tested from CPRI Lab and should confirm IS 61439. (EVA/KSB Approved equivalent make)					

	The panel shall include the following switchgears & Accessories as per the make of Schneider, L&T, Siemens, ABB etc.						
	Material						
	Main Incomer:- MCCB 63/100 A 4P-25 KA TMR with O/L & S/C protection-1No., spreader link 63/100A 4P-1 No. Digitally metering set including Amp meter 96X96mm-1 No., Volt meter 96X96mm-1No., Ampere selector switch-1 No., Voltmeter selector, Phase indicating Lamp-3 Nos.						
	Outgoing:-						
	MCCB 100A 4P 25 KA TMR with O/L & S/C protection=1No, Spreader link MCCB 100A 4P= 1Nos, Indicating Lamps LED type RYB=3 Nos,						
	All interconnections of fields side are supported by conical, L & finger type insulators of adequate size to support & sustain the weight of cables, Control wiring with copper flexible FRLS wire with thimbles, printed sleeves, tie & belt etc;						
	The prices of complete job as per the specifications above shall be inclusive of gasket, doorlocks, reading glass, wooden, copper flexible door earth, legend plates etc.						
	Makes for MCCB : Schneider/L&T/ABB .						
		1				Per Job	
3	Wiring for circuit /Sub-main wiring alongwith the following sizes of FRLS PVC insulated copper conductor , single core cable in surface /Recessed steel conduit as required						
	4X16 sq mm+ 2X6 sq mm earth wire	35				P/Mtr	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur


SCHEDULE OF QUANTITY

NAME OF WORK: Repair and Maintenance of Tower type A.C in ICU, Ward I, II and split AC in Dr. Duty room etc. installed in makeshift covid hospital Dr. RPGMC Kangra at Tanda for the year 2022-23.

Job No. 18

ESTIMATED COST: Rs 2,33,980-only.
EARNEST MONEY: Rs.4700/-only
TIME ALLOWED: One Months

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
			RATE			
1	Repair & Maintenance (Routine and Preventive) of Tower Type Air-Conditioning Units 3.8 T.R. capacity (Panasonic/Daikin make) Hot & Cold including maintenance of accessories extra copper pipes with sleeves, wire, insulation and battens etc. with Drain Pipe, servicing, cleaning the filters, charging/topping up of refrigerant R-410A/R-32 Gas when required throughout the year, but excluding the replacement of the compressor of A.C. Units. The repair and maintenance has been done as per instructions and directions to the best satisfaction of Engineer-in-charge.					
1 1	Tower Type 2.0 T.R.	5			Each	
1 2	Tower Type 3.8 T.R.	8			Each	
2	Repair & Maintenance (Routine and Preventive) of Split / window type Air-Conditioning Units of following capacity 2 T.R. / 1.5 T.R. capacity (LG/Panasonic/Voltas make) Hot & Cold including accessories extra copper pipes with sleeves, wire, insulation and battens etc. with Drain Pipe, servicing, cleaning the filters, charging/topping up of refrigerant/R-22 Gas when required throughout the year, but excluding the replacement of the compressor of A.C. Units. The repair and maintenance has been done as per instructions and directions to the best satisfaction of Engineer-in-charge					
2 1	Split type A.C. 1.5 T.R. capacity	3			Each	
2 2	split type A.C. 2.0 T.R. capacity	2			Each	
2 3	window type A.C. 2.0 T.R. / 1.5 T.R. capacity	2			Each	
	Total					


 Executive Engineer
 Electrical Division
 HP PWD Palampur