

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2023-24/- 1222-30

Dated: 18-6-24

To

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

Subject: Publishing of Tender Notice.

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

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

DA/NIT,SQs

Executive Engineer
Electrical Division
HP PWD Palampur

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

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

Executive Engineer
Electrical Division
HP PWD Palampur

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

"Notice Inviting Tenders"

Sealed percentage rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP.PWD. (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act, 1968 so as to reach in his office on or before **01-07-2024** up to 11.00 AM, and the same shall be opened on the same day at 11.30 A.M. in the presence of intending contractors or their authorized representatives. The tender documents can be had from his office against cash payment (Non-refundable) on **29-06-2024** up to 4.00 P.M. and the application for issue of tender form shall be received on **28-06-2024** up to 12.00 noon.

Conditions:

1. The contractor should have the EPF registration certificate should be attached with application.
2. The GST registration certificate.
3. The contractor should produce a copy of latest enlistment/renewal.
4. The latest ITR filed should be attached with application.
5. The bidders enlisted in a particular class shall be eligible to tender for his own class or one step below.
6. The bidder should attach authorization and work done certificate with application for Specialized Jobs.
7. The FDR duly pledged should be attached separately with each tender.
8. Only two number tender forms will be issued to the eligible contractor.
9. The Executive Engineer, Electrical Division, HP PWD Palampur reserves the right to reject any tender without assigning any reasons.
10. Conditional/ incomplete tenders & tender without earnest money will be summarily rejected.

Sr. No	Name of Work	Estimated Cost	Earnest Money	Time Limit	Form No.	Cost of Form
1	C/O Govt. Sr. Sec. School at Gharjarot in Tehsil Jawali Distt. Kangra (H.P.) (SH:- Providing E.I. to 2 No. Class rooms, verandah, stair case therein).	119565/-	2400/-	One Year	8	350/-
2	Providing Main E.I. Panel, Cable, LED lights and Street lights in Civil Hospital Kangra in Distt. Kangra (H.P.)	341489/-	6900/-	Three Months	8	350/-
3	R/M of E.I. to various Govt. Non residential building in Distt. Kangra under Electrical Sub-Division HPPWD Palampur Distt. Kangra (H.P.)	229950/-	4600/-	One Year	8	350/-
4	R/M of E.I. to various Govt. Non residential building in Distt. Kangra under Electrical Sub-Division HPPWD Palampur Distt. Kangra (H.P.)	337990/-	6800/-	One Year	8	350/-
5	C/O Additional Accommodation for CHC at Baroh in Tehsil Baroh Distt. Kangra (H.P.) (SH:- Providing Balance E.I. work therein).	498870/-	10000/-	One Year	8	350/-
6	C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH. Providing & laying of SOP to basement area of Critical Care Skill Lab/Simulation Lab therein)	251510/-	5100/-	Three Months	8	350/-
7	C/O Additional Accommodation in Govt. Sr. Sec. School Durgella in Distt. Kangra (H.P.) (SH:- Providing E.I. to 1 No. classroom therein).	106416/-	2200/-	Six Months	8	350/-

8	C/O Additional Accommodation in Govt. Sr. Sec. School at Marhoon in Tehsil Palampur Distt. Kangra (H.P) (SH:- Providing E.I. therein).	379333/-	7600/-	Six Months	8	350/-
9	Providing and Fixing 2 Ton A.C. Hot & Cold in the office of Executive Engineer HPPWD Electrical Division Palampur in Tehsil Palampur Distt. Kangra (H.P).	115941/-	2400/-	One Week	8	350/-
10	C/O HPPWD Rest House at Panchrukhi in Tehsil Jaisinghpur Distt. Kangra (H.P)(SH:- Providing E.I. therein).	411702/-	8300/-	Six Months	8	350/-
11	Replacement of old and damaged sub-main wiring, light fixtures and geysers etc. in Ravi Hostel at Dr. RPGMC Kangra at Tanda.	441755/-	8900/-	Three Months	8	350/-
12	C/O JE Office cum Residence at Baroh in Tehsil Baroh, Distt. Kangra (H.P) (SH:- Providing E.I. therein).	270815/-	5500/-	One Year	8	350/-
13	Replacement of old FTL fixtures, switch/ sockets, geysers and other old/damaged electrical accessories etc. in 09 Nos. Type-V Qtrs. of Dr. RPGMC Kangra at Tanda.	282924/-	5700/-	Three Months	8	350/-
14	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/-
15	Replacement of safety devices and accessories in HPPWD Rest House Daroh in Tehsil Palampur in Tehsil Palampur, Distt. Kangra, HP (SH: Providing and laying armoured cable, street light therein).	397965/-	8000/-	One Month	8	350/-
16	C/O Circuit House at Palampur in Tehsil Palampur, Distt. Kangra, HP (SH: Providing street lighting therein).	438597/-	8800/-	One Month	8	350/-
17	Replacement of safety devices and accessories in (Ground Floor) at 30 Bedded Hospital Chadhar in Tehsil Baijnath, Distt. Kangra, HP.	448643/-	9000/-	One Month	8	350/-
18	C/O Govt. Sr. Sec. School at Chawara, Tehsil Jawali, Distt. Kangra, HP (SH: Providing E.I. in Ground Floor and First Floor therein).	499164/-	10000/-	One Year	8	350/-

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SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Govt. Sr. Sec. School at GHARJAROT in Tehsil Jawali Distt. Kangra (HP)(SH:- Providing E.I. to 2 No. class rooms, verandah, stair case therein.)		Job No		ESTIMATED COST: Rs.1,19,565/-only. EARNEST MONEY: Rs.2400/-only TIME ALLOWED: One Year	
SR. NO.	DESCRIPTION	QTY.	RATES		AMOUNT
			FIGURES	WORDS	
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/Plaza/Anchor Anchor (Penta)/ Havells(Reo)/SSK/SCI.				
i)	Group C.	27	1712.00	Rupees One Thousand Seven Hundred Twelve Only	46224
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/Plaza/Anchor Anchor (Penta)/ Havells(Reo)/SSK/SCI.				
i)	Group C.	1	1735.00	Rupees One Thousand Seven Hundred Thirty Five Only	1735
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Plaza/AnchorSCI.				
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	43	335.00	Rupees Three Hundred Thirty Five Only	14405

ii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	8	793.00	Rupees Seven Hundred Ninety Three Only	Meter	6344
4	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK/Schenider	2	290.00	Rupees Two Hundred Ninety Only	each	580
5	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	Single pole (Make:- Schneider/ Legrand/L&T)	4	265.00	Rupees Two Hundred Sixty Five Only	each	1060
6	Supplying and fixing following rating, double pole, 240 V, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	488.00	Rupees Four Hundred Eighty Eight Only	each	488
7	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	40 Amps. (Make:- Schneider/ Legrand/L&T)	1	2715.00	Rupees Two Thousand Seven Hundred Fifteen Only	each	2715
8	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					

ii)	Double door-8 way (Make:- Schneider/ Legrand/L&T)	1	1897.00	Rupees One Thousand Eight Hundred Ninety Seven Only	each	1897
9	Providing, installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i)	Ceiling Fan 1200 mm sweep, (Make: Usha, Model: Energia ISI/Bajaj/Model: Sabse Tezz Kasseels)/Crompton(Model: WWHE). With Not Less than 3 rated Star.	8	2869.00	Rupees Two Thousand Eight Hundred Sixty Nine Only	each	22952
10	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor/SCI					
i)	3 x 1.5 sq. mm	15	111.00	Rupees One Hundred Eleven Only	Meter	1665
11	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i)	LED Batten 20W, 4 feet long Make: (Make: Bajaj, cat no.BCLAB 20W LED P / Philips/Panasonic.	20	975.00	Rupees Nine Hundred Seventy Five Only	each	19500
	Total					119565

draft schedule of quantity checked and approval for ₹ 119565 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Providing Main E.I. Panel, Cable, LED lights and Street lights in Civil Hospital Kangra in Distt. Kangra (H.P.)

Job No 2

ESTIMATED COST: Rs.3,41,489/-only.
EARNEST MONEY: Rs.6900/-only
TIME ALLOWED: Three 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, 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	5	1345.00	Rupees One Thousand Three Hundred Forty Five Only	Per Point	6725
	(Make:-KEI,Anchor,Plaza) Anchor (Roma), L&T (Entice), Schneider (Livia).					
2	Supplying and fixing 40/50/63amps rating, 240/415 volts, 10kA,"C"curve,minature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required					
	63 Amps. Cat-A.	6	1426.00	Rupees One Thousand Four Hundred Twenty Six Only	Each	8556
	Makes:- Legrand/L&T/Schneider.					
3	Supplying and fixing 6 amps to 32 amprating, 240/1416 volts, 10 kA,"C"curve, miniature circuit breaker suitable for inductive load of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	Single Pole	50	268.00	Rupees Two Hundred Sixty Eight Only	Each	13400

4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 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)					
4.1	6 way (6 + 18), TPN Double door	1	3967.00	Rupees Three Thousand Nine Hundred Sixty Seven Only	Each	3967
4.1	8 way (8 + 24), TPN Double door	3	4916.00	Rupees Four Thousand Nine Hundred Sixteen Only	Each	14748
	Makes:- L&T/Legrand/Schneider.					
5	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required.					
	Armoured Cable 10 Sq.mm. (2 core)	210	289.00	Rupees Two Hundred Eighty Nine Only	Per Meter	60690
	(Make:- KEI/Havells/Plaza)					
6	Providing and installation of following wattage LED square/round surface downlighter with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 6000 K, CRI 80. The LED with useful life of 50000 hrs. at L70 with five years warranty . The input voltage range shall be 150V to 270V as required complete in all respects.					
	LED Surface mounting Square/Round downlighter 18 Watt	10	1564.00	Rupees One Thousand Five Hundred Sixty Four Only	Each	15640
	Makes: Wipro/Havells/Panasonic					

7	Providing and fixing of 1200mm x 300mm LED fixture 36W +/- 1W Surface mounted fixture with HET Plastic diffuser with CRCA powder coated housing having minimum system lumen efficacy 100 lm/W with P.F. >0.95 with THD <10%. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.						
	LED Panel 36 Watt, 4'x1'	2	7573.00	Rupees Seven Thousand Five Hundred Seventy Three Only	Each	15146	
8	Makes: Philips/ Wipro/Bajaj Supplying and fixing 45W LED street light made up of die cast aluminium housing with LED street optic LENS, offering uniform light distribution and individual LEDs with IP66 protection including connections, testing etc. as required complete in all respects with 5 years warranty.						
	45W LED Street Light	5	4990.00	Rupees Four Thousand Nine Hundred Ninety Only	Each	24950	
	Makes:- Havells/Wipro/Bajaj						

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9.3	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;					
9.4	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,	1	177667	Rupees One Lacs Seventy Seven Thousand Six Hundred Sixty Seven Only	P/Job	177667
	Make : KSB Electric Co./Tricolite/ISPL					
	Total					341489

Draft Schedule of quantity checked and approved for 341489 only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I. to various Govt. Non residential building in Distt. Kangra under Electrical Sub-Division HPPWD Palampur Distt. Kangra(H.P).		Job No 3		ESTIMATED COST: Rs 2,29,950/-only. EARNEST MONEY: Rs.4600/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing services on temporary basis of Peon in the office of The Executive Engineer, Electrical Division, HPPWD Palampur after working hours 9:00 AM to 5:00 P.M. or as & when required by the office in charge.	365	630.00	Rupees Six Hundred Thirty Only	Per Day	229950
	Total					229950
Terms And Condition:-						
1	The agency shall have to provide services as required in schedule of work.					
2	The services is required during normal working hours i.e. 9:00 AM to 5:00 PM or as required.					
3	The services have to be provided as per the directions of office-in-charge.					
4	The agency shall have to pay /provided minimum wages / rest / holiday as per HP State Govt. labour norms applicable for daily paid workers.					
5	Nothing extra shall have to pay / issued on account of liberties,T&P soap,duster etc.					
6	The services are required temporarily and can be terminated at any time without assigning any reason.					
7	Nothing extra shall have to paid for absent period.					
8	Nothing extra shall be made on monthly basis.					
9	The staff shall have to report daily to concerned office in-charge.					
10	Period of service depends upon the requirement of work and can be increased /decreased / terminated without assigning any reason.					
11	The worker should be fully insured.					

Draft schedule of quantity checked and approved for Rs 22,99,500/- only


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I. to various Govt. Non residential building in Distt. Kangra under Electrical Sub-Division HPPWD Palampur Distt. Kangra(H.P).		Job No. 4		ESTIMATED COST: Rs 3,37,990/-only. EARNEST MONEY: Rs.6800/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Engagement of temporary basis of Computer Operator in the office of The Executive Engineer, Electrical Division, HPPWD Palampur after working hours 10.00 AM to 5.00 P.M. or as & when required by the office in charge.	365	926.00	Rupees Nine Hundred Twenty Six Only	Per Day	337990
	Total					337990
Terms And Condition:-						
1	The agency shall have to provide services as required in schedule of work.					
2	The services is required during normal working hours i.e. 10:00 AM to 5:00 PM or as required.					
3	The services have to be provided as per the directions of office-in-charge.					
4	The agency shall have to pay /provided minimum wages / rest / holiday as per HP State Govt. labour norms applicable for daily paid workers.					
5	Nothing extra shall have to pay / issued on account of liberties, T&P soap, duster etc.					
6	The services are required temporarily and can be terminated at any time without assigning any reason.					
7	Nothing extra shall have to paid for absent period.					
8	Nothing extra shall be made on monthly basis.					
9	The staff shall have to report daily to concerned office in-charge.					
10	Period of service depends upon the requirement of work and can be increased /decreased / terminated without assigning any reason.					
11	The worker should be fully insured.					

Draft Schedule of quantity checked and approved for Rs 337990-/-


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- C/o Additional Accommodation for CHC at Baroh in Tehsil Baroh Distt. Kangra (H.P.) (SH:- Providing Balance E.I work there in)						ESTIMATED COST: Rs. 4,98,870/-only. EARNEST MONEY: Rs.10,000/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT	job No 5	
			FIGURES	WORDS				
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable as required.							
	Group C	13	1893.00	Rupees One Thousand Eight Hundred Ninety Three Only	Per Point	24609		
	(Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Anchor (Roma plus).							
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.							
2.1	2x2.5 Sq. mm.	352	406.00	Rupees Four Hundred Six Only	P/Mtr	142912		
2.2	2x4 Sq. mm.	138	493.00	Rupees Four Hundred Ninety Three Only	P/Mtr	68034		
2.3	4x4 Sq. mm.	265	788.00	Rupees Seven Hundred Eighty Eight Only	P/Mtr	208820		
	(Make:-Havells/ Anchor / Plaza)							
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.							

	3x2.5 Sq. mm.	140	173.00	Rupees One Hundred Seventy Three Only	P/Mtr	24220
	(Make:- Havells / Anchor / Plaza)					
4	Providing & installation of shutter for M.S. Exhaust fan of following size as required complete in all respects:-					
	MS Exhaust Fan Shutter, 300mm²	6	718.00	Rupees Seven Hundred Eighteen Only	Each	4308
5	Providing and fixing Aluminium composite panel Sheet for exhaust fan as required complete in all respects:-					
	Aluminium composite panel Sheet	96	147.00	Rupees One Hundred Forty Seven Only	Each	14112
6	Supplying and fixing of 40 mm dia. M.S. pipe (medium class) bracket for mounting of fluorescent / HPMV/ HPSV/ LED street light fitting on pole including bending the pipe to the required shape, bolts and washer, painting the flat iron with primer and finish paint etc. as required.					
	40mm dia, MS Street light bracket	3	1300.00	Rupees One Thousand Three Hundred Only	Each	3900
7	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.	3	601.00	Rupees Six Hundred One Only	Each	1803
	Makes:- L&T/Legrand/Schneider.					
8	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.	8	769.00	Rupees Seven Hundred Sixty Nine Only	Each	6152
	Makes:- L&T/Legrand/Schneider.					
	Total					498870

Drpt- Schedule of quantity checked & approved for 2 498870/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY						
Name of Work :- C/o School of Nursing at Dr. RPGMC Kangra at Tanda in Distt. Kangra (H.P.) (SH: Providing & laying of SOP to basement area of Critical Care Skill Lab/Simulation Lab therein)			job No 6		ESTIMATED COST: Rs.2,51,510/-only. EARNEST MONEY: Rs.5100/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-					
1.1	Armoured cable 120 sq. mm (3.5 core)	125	1706.00	Rupees One Thousand Seven Hundred Six Only	Per Meter	213250
2	Makes:- KEL/Havells/Plaza 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, sand cushioning, protective covering and refilling the trench etc as required.					
2.1	Armoured cable 120 sq. mm (3.5 core)	20	1913.00	Rupees One Thousand Nine Hundred Thirteen Only	Per Meter	38260
	Makes:- KEL/Havells/Plaza					
	Total					251510

Dr. P. Schedule of quantity checked and approved = Rs. 2,51,510/-only

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- C/O Additional Accommodation in Govt. Sr. Sec.School Durgella in Distt. Kangra (H.P) (SH:- Providing E.I. to 1 No. classroom therein).			job No 8	ESTIMATED COST: Rs.1,06,416/-only. EARNEST MONEY: Rs.2200/-only TIME ALLOWED: Six Months		
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 modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	20	1858.00	Rupees One Thousand Eight Hundred Fifty Eight Only	Per Point	37160
	Makes:- (KEI/Anchor/Plaza , L&T(Entice)/Legrand(Myrius)/Schneider(Livia)					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x1.5 Sq. mm.	20	340.00	Rupees Three Hundred Forty Only	Per Meter	6800
2.2	2x10 Sq. mm.	1	800.00	Rupees Eight Hundred Only	Per Meter	800

	Makes:- KEI / Anchor / Plaza						
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.						
	3x1.5 Sq. mm.	10	112.00	Rupees One Hundred Twelve Only	Per Meter	1120	
	Makes:- KEI / Anchor / Plaza						
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	6	591.00	Rupees Five Hundred Ninety One Only	Each	3546	
	Makes:- L&T / Legrand / Scheneider						
	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.	4	268.00	Rupees Two Hundred Sixty Eight Only	Each	1072	
5	Single Pole. Cat-A.						
	Makes:- L&T / Legrand / Scheneider						

6	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
		1	491.00	Rupees Four Hundred Ninety One Only	Each	491		
7	40 Amp. Double pole. Cat-A. Makes:- L&T / Legrand / Scheneider 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.							
		1	2720.00	Rupees Two Thousand Seven Hundred Twenty Only	Each	2720		
8	40 Amps. Cat-A. Makes:- Legrand/L&T/Schneider. 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, phosphalized and powder painted, including earthing etc. as required:-							
		1	1914.00	Rupees One Thousand Nine Hundred Fourteen Only	Each	1914		

	Makes:- L&T / Legrand / Scheneider						
9	Providing, Installation, testing and commissioning of BLDC ceiling fan with socket type regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with five years warranty.						
	Ceiling Fan 1200mm sweep (BLDC)	6	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only		26316	
	Makes:- Usha/ Bajaj / Crompton						
10	Providing and fixing of IP20 LED Surface mounted CRCA Powder Coated Box type channel system with Pro LED Lamp suitable for mounting 1 x 18 W LED Tube T8 type having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K,CRI 80, Surge Protection range 2 kV. The LED with useful life of 50000 Hrs. at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects.						
	LED 18 Watt Tube fixture						
	Makes:- Phillips/Wipro/Bajaj	13	1499.00	Rupees One Thousand Four Hundred Ninety Nine Only	Each	19487	

11	Supplying and fixing 45W LED street light made up of die cast aluminium housing with LED street optic LENS, offering uniform light distribution and individual LEDs with IP66 protection including connections, testing etc. as required complete in all respects with 5 years warranty.	1	4990.00	Rupees Four Thousand Nine Hundred Ninety Only	Each	4990
	Makes:- Havells/Wipro/Bajaj					
	Total					106416

Deep Shadede 9 quantity checked and approved for ₹ 106416/- (in)

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- C/O Additional Accommodation in Govt Sr. Sec. School at Marhoon in Tehsil Palampur Distt. Kangra HP (Sh:- Pdg. E I there in)			Job No 9		ESTIMATED COST: Rs.3,79,333/-only. EARNEST MONEY: Rs.7600/-only TIME ALLOWED: Six Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C.	57	1858	Rupees One Thousand Eight Hundred Fifty Eight Only	Per point.	105906
	Havells/KEI/Plaza make					
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required					
	Group C.	2	1929.00	Rupees One Thousand Nine Hundred Twenty Nine Only	P/Point	3858
	Havells/KEI/Plaza make					
3	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	591	Rupees Five Hundred Ninety One Only	Each	2364
	Make :- Schenider/L&T/Legrand					

4	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	760	Rupees Seven Hundred Sixty Only	Each.	3040
	Make :- Schenider/L&T/Legrand					
5	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.	34	477	Rupees Four Hundred Seventy Seven Only	P/Mtr.	16218
	Havells/KEI/Plaza make					
6	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.	30	779	Rupees Seven Hundred Seventy Nine Only	P/Mtr.	23370
	Havells/KEI/Plaza make					
7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	70	401	Rupees Four Hundred One Only	P/Mtr.	28070
	2x6Sqmm+ 1 X 6 sq. mm earth wire	10	664	Rupees Six Hundred Sixty Four Only	P/Mtr.	6640
	Havells/KEI/Plaza make					
8	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel PVC conduit as required					
	3x2.5 sq mm	30	172	Rupees One Hundred Seventy Two Only	P/Mtr.	5160
	Havells/KEI/Plaza make					
34	Providing, Installation, testing and commissioning of ceiling fan BLDC 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	12	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	52632
10	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj 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	4	2179	Rupees Two Thousand One Hundred Seventy Nine Only	Each	8716
11	Make:- Usha/Bajaj/Havells Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F ≥ 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V with 5 years warranty					
	LED Surface mounting round downlighter 18 watt	7	1564	Rupees One Thousand Five Hundred Sixty Four Only	Each	10948
12	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Bajaj) Providing and fixing LED Batten of 40 watt of to enhance the delight of with comfortable experience through its classic design & glare free lumination of make as per cat. No. ZD-LTD010-40 Watt complete with connection testing ,commissioning etc. as required in all respect with 5 years warranty					
	LED Batten light 40 W	26	2315	Rupees Two Thousand Three Hundred Fifteen Only	Each	60190
	Make cat. No. ZD-LTD010-40 Watt Clair/ Bajaj/ Wipro					

13	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 with 5 years warranty	8	1415	Rupees One Thousand Four Hundred Fifteen Only	Each	11320
	Makes :-Wipro (Cat. No.:-LW07-141-XXX-57-G1) Philips/ Bajaj					
14	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:- L&T/Legrand/Schneider make					
	12 Way Double Door	2	2326	Rupees Two Thousand Three Hundred Twenty Six Only	Each	4652
15	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.	4	268	Rupees Two Hundred Sixty Eight Only	Each	1072
	16 Amp Single pole. Cat-A.	5	268	Rupees Two Hundred Sixty Eight Only	Each	1340
	L&T/Legrand/Schneider make					
16	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	40 Amps. Cat-A.	2	491	Rupees Four Hundred Ninety One Only	Each	982

	L&T/Legrand/Schneider make								
17	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.								
	40 Amps. Cat-A.	2	2720		Rupees Two Thousand Seven Hundred Twenty Only	Each	5440		
	L&T/Legrand/Schneider make								
18	Supplying, Erection, installation and commissioning of Uniearth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compounding G E C 50 kg. or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of Uniearth Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should having coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 meter length 17.2 mm diameter, Terminal joint 200x25x6mm GI strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30kA short time current test for 1 Sec rms	1	23245		Rupees Twenty Three Thousand Two Hundred Forty Five Only	P/Set	23245		
	As per UniEarth								
19	Supplying and laying 6 SWG G.I wire at 0.50 mtr. Below ground level for earth electrode conductors, including soldering etc. as required.	30	139		Rupees One Hundred Thirty Nine Only	P/Mtr.	4170		
	Total						379333		

Dr. Schedule of quantity checked and approved - for Rs. 379,333 only

Executive Engineer
Electrical Division
HPPWD/Palampur

SCHEDULE OF QUANTITY

Name of Work :- Providing and Fixing 2 Ton A.C. Hot & Cold in the office of Executive Engineer HPPWD Electrical Division Palampur in Tehsil Palampur Distt. Kangra (H.P).			job No 19		ESTIMATED COST: Rs. 1,15,941/-only. EARNEST MONEY: Rs.2400/-only TIME ALLOWED: One week		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT	
				WORDS			
1	Supplying, installation, testing and commissioning of 2 Ton (Hot & Cold) Inverter Split type Air-Conditioning unit of following make conforming 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 2 TR capacity	1	70991	Rupees Seventy Thousand Nine Hundred Ninety One Only	Each	70991	
	Makes:-Voltas (Model No. : Vectra 243v Elegant) /Dakain/O General						
2	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.						
i	Automatic Voltage Stabilizer 5 KVA	1	7000.00	Rupees Seven Thousand Only	Each	7000	
	Makes:-Whirlpool/Godrej/V-Guard						
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.	2	1100.00	Rupees One Thousand One Hundred Only	Each	2200	

iii	Providing & fixing of extra copper tubes for refrigerant and condensate (5/8"-1/4") for 1.5/2 TR Split type AC units and wiring with suitable size of HFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.	15	1400.00	Rupees One Thousand Four Hundred Only	Per Meter	21000
iv	Supplying and fixing of casing and capping (105 mmx 50mm) along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	8	1375.00	Rupees One Thousand Three Hundred Seventy Five Only	Per Meter	11000
v	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.	15	250.00	Rupees Two Hundred Fifty Only	Per Meter	3750
Total						115941

Draft Schedule of quantities checked and approved for 115941/-

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- C/O HPPWD Rest House at Panchrukhi in Tehsil Jaisinghpur Distt. Kangra HP(SH:- Providing E I there in)

ESTIMATED COST: Rs.4,11,702/-only.
EARNEST MONEY: Rs.8300/-only
TIME ALLOWED: Six Months

job No 10

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 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.	64	1808	Rupees One Thousand Eight Hundred Eight Only		Per point.	115712
2	Havells/KEI/Plaza make Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required						
	Group C.	1	1890	Rupees One Thousand Eight Hundred Ninety Only		Per point	1890
	Havells/KEI/Plaza make						
3	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	35	440	Rupees Four Hundred Forty Only		P/Mtr.	15400
	Havells/KEI/Plaza make						

4	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Havells/KEI/Plaza make	32	701	Rupees Seven Hundred One Only	P/Mtr.	22432
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
i	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	40	378	Rupees Three Hundred Seventy Eight Only	P/Mtr.	15120
ii	2x6Sqmm+ 1 X 6 sq. mm earth wire	30	608	Rupees Six Hundred Eight Only	P/Mtr.	18240
iii	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	10	740	Rupees Seven Hundred Forty Only	P/Mtr.	7400
6	Havells/KEI/Plaza make Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel PVC conduit as required					
	3x2.5 sq mm	60	144	Rupees One Hundred Forty Four Only	P/Mtr.	8640
7	Havells/KEI/Plaza make 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.	28	583	Rupees Five Hundred Eighty Three Only	Each.	16324
	Make :- Schenider/L&T/Logrand					

8	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. Make :- Schenider/L&T/Legrand	10	752	Rupees Seven Hundred Fifty Two Only	Each.	7520
9	Providing, Installation, testing and commissioning of ceiling fan BLDC 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	5	4397	Rupees Four Thousand Three Hundred Ninety Seven Only	Each	21985
10	Makes :- Ceiling Fan 1400 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj 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	4	2191	Rupees Two Thousand One Hundred Ninety One Only	Each	8764
11	Make:- Usha/Bajaj/Havells Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F ≥ 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V With 5 year warranty.					

	LED Surface mounting round downlighter 18 watt	20	1567	Rupees One Thousand Five Hundred Sixty Seven Only	Each	31340
	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Bajaj) Providing and installation of LED fixture 600mmx600mm 36 W +/- 1 W LED with Surface Mounted with PMMA diffuser with having minimum system luman system efficacy 100 lm/W with CRCA housing and PMMA Diffuser with P.F ≥ 0.95 with THD <10%, CCT 5700 K,CRI 80, The LED shall be tested with LM80-08 standered with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . With 5 year warranty.					
12		1	5420	Rupees Five Thousand Four Hundred Twenty Only	Each	5420
	Square LED Panel Light 2x2(36W)					
	Makes :-Wipro (Cat. No.:-CRCO10S038HP57G1L1) Philips/Bajaj Providing and fixing LED Batten of 40 watt of to enhance the delight ofwith comfortableexperience through its classic design & glare free lumination of make as per cat. No. ZD-LTD010-40 Watt complete with connection testing ,commissioning etc. as requiredin all respect.					
13						
	LED Batten 40 watt downlight	6	2312	Rupees Two Thousand Three Hundred Twelve Only	Each	13872
	Make Clair/ Bajaj/ Wipro 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 . With 5 year warranty.					
15		8	1719	Rupees One Thousand Seven Hundred Nineteen Only	Each	13752
	Makes :-Wipro (Cat. No.:-LW07-141-XXX-57-G1) Philips/Bajaj Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	4	191	Rupees One Hundred Ninety One Only	Each	764
16						

17	supplying and fixing following type of LED Mirror Light luminaire , white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor> 0.9, Harmonic Distortion < 10% and efficacy> 100 lumens per watt, CRI rating >70 Suitable for input voltage AC 220-240 V , 50 Hz, Complete with all accessories , connections,testing and commissioning etc. as required With 5 year warranty.	4	431	Rupees Four Hundred Thirty One Only	Each	1724
18	Make :- Crompton Cat No.CCS-103-05-65-SL-DP-NWH/ Bajaj 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)	2	1978	Rupees One Thousand Nine Hundred Seventy Eight Only	Each	3956
19	Double door-12 way L&T/Legrand/Schneider make 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.-	10	233	Rupees Two Hundred Thirty Three Only	Each	2330
	6 Amp Single pole. Cat-A.	10	233	Rupees Two Hundred Thirty Three Only	Each	2330
	16 Amp Single pole. Cat-A.					
	L&T/Legrand/Schneider make					

20	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.	2	520	Rupees Five Hundred Twenty Only	Each	1040	
	L&T/Legrand/Schneider make						
21	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.						
	63 Amps. Cat-A.	2	2985	Rupees Two Thousand Nine Hundred Eighty Five Only	Each	5970	
	L&T/Legrand/Schneider make						
22	Supplying, Erection, installation and commissioning of Uniearth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compounding G E C 50 kg. or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of Uniearth Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should having coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 meter length, 17.2 mm diameter, Terminal joint 200x25x8mm GI strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30kaA short time current test for 1 Sec rms	1	23317	Rupees Twenty Three Thousand Three Hundred Seventeen Only	Each	23317	
23	Supplying and laying 6 SWG G.I wire at 0.50 mtr. Below ground level for earth electrode conductor, including soldering etc. as required.	25	48	Rupees Forty Eight Only	Per Mtr	1200	

24	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-						
	Geyser 25 Ltrs	4	10345	Rupees Ten Thousand Three Hundred Forty Five Only	Each	41380	
	Usha, Havells, Recold						
25	Supplying and fixing suitable size G.I 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), including connections, Painting etc. as required.	5	776	Rupees Seven Hundred Seventy Six Only	Each	3880	
	Total					411702	

draft schedule of quantity checked and approved for 411702/07

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Replacement of old and damaged sub-main wiring, light fixtures and geysers etc. in Ravi Hostel at Dr. RPGMC Kangra at Tanda.		Job No 17		ESTIMATED COST: Rs.4,41,755/-only. EARNEST MONEY: Rs.8900/-only TIME ALLOWED: Three Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group C	6	1345.00	Rupees One Thousand Three Hundred Forty Five Only	Per Point	8070
2	(Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia). 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	2x10 Sq. mm.	40	678.00	Rupees Six Hundred Seventy Eight Only	Per Meter	27120
2.2	2x16 Sq. mm.	50	953.00	Rupees Nine Hundred Fifty Three Only	Per Meter	47650
3	Make:- KEI/Anchor/Plaza Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
	3x1.5 Sq. mm.	20	112.00	Rupees One Hundred Twelve Only	Per Meter	2240
	3x4 Sq. mm	25	248.00	Rupees Two Hundred Forty Eight Only	Per Meter	6200

4	Supplying and fixing following rating, one way switch/sockets, piano type ISI on the existing plate switch box including connections but excluding G.I. plate etc. as required.							
4.1	S.P. 5/6 Amps. one way switch, piano type ISI	95	26.00	Rupees Twenty Six Only	Each	2470		
4.2	3 pin 5 Amps. one way socket outlet, piano type ISI	55	67.00	Rupees Sixty Seven Only	Each	3685		
4.3	15/16 Amps. one way switch, piano type ISI	102	138.00	Rupees One Hundred Thirty Eight Only	Each	14076		
4.4	6 pin 15/16 Amps. Socket outlet, piano type ISI	62	149.00	Rupees One Hundred Forty Nine Only	Each	9238		
	Makes:- Anchor/Goldmedal/Greatwhite							
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	10	591.00	Rupees Five Hundred Ninety One Only	Each	5910		
	Makes:- L&T/Legrand/Schneider.							
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	15	760.00	Rupees Seven Hundred Sixty Only	Each	11400		
	Makes:- L&T/Legrand/Schneider.							
7	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:							
	Single pole. Cat-A.	30	268.00	Rupees Two Hundred Sixty Eight Only	Each	8040		
	Makes:- L&T/Legrand/Schneider.							
8	Supplying and fixing following 40/50/63 Amp., double pole, 240/415 volts, 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:-							

	40/50/63 Amp. D.P. Cat-A.	1	1426.00	Rupees One Thousand Four Hundred Twenty Six Only	Each	1426
9	Makes:- L&T/Legrand/Schneider. 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) MCB DB double door - 08 Way					
10	Makes:- L&T/Legrand/Schneider Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required:-	2	1914.00	Rupees One Thousand Nine Hundred Fourteen Only	Each	3828
	35 Liter capacity water heater (CAT-A)	6	16139.00	Rupees Sixteen Thousand One Hundred Thirty Nine Only	Each	96834
11	Makes:- Havells/Usha/Racold Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of approved Make					
	Exhaust Fan, Light duty, (Domestic)	5	2289.00	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	11445
	Makes:- Bajaj/ Wipro/Havells					

12	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required. complete in all respects with five years warranty.	80	566.00	Rupees Five Hundred Sixty Six Only	Each	45280
13	Makes:- Philips Wipro/Bajaj Providing and installation of LED fixture with +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. > 0.95 with THD $< 20\%$, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70 V with five years warranty. The input voltage range shall be 150V as required complete with connections, testing etc.	30	1275.00	Rupees One Thousand Two Hundred Seventy Five Only	Each	38250
14	18 Watt LED round surface Providing and fixing of LED batten having minimum efficacy of 100 lm/W, P.F. > 0.95 with THD $< 10\%$, CCT 6500 K, CRI 80, Surge Protection range 2 kV. The LED with useful life of 50000 Hrs. at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects.	90	614.00	Rupees Six Hundred Fourteen Only	Each	55260
15	LED Batten 20 Watt Supplying and fixing of LED street light luminaire with the use of the latest technology 45 Watt (4500 lumens), 6500K made of CRCA housing and it should be compatible with specifications i.e. power factor ≥ 0.95 , harmonic distortion $\leq 10\%$ and efficacy ≥ 80 lumens per watt, CRI > 70 , suitable for input voltage AC 150-270V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required with five years warranty.					

	LED 45 Watt Street light	6	4990.00	Rupees Four Thousand Nine Hundred Ninety Only	Each	29940
	Makes:- Wipro/Havells/Bajaj					
16	Supplying and fixing of LED floodlight luminaire with pressure diecast housing and toughened glass and individual LED's with secondary lens optics with IP66 ingress protection. 4 kV inbuilt and 10 kV external surge protection. E cacy 120 lm/W as required complete with connections, testing etc..					
	LED 100 Watt Flood light	1	13393.00	Rupees Thirteen Thousand Three Hundred Ninety Three Only	Each	13393
	Makes:- Bajaj/Wipro/Panasonic					
	Total					441755

Self Schedule of quantity checked and approved for 241755 only

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-C/o JE Office cum Residence at Baroh in Tehsil Baroh, Distt. Kangra (H.P.)(SH:- Providing E.I. therein).		Job No 12		ESTIMATED COST: Rs.2,70,815/-only. EARNEST MONEY: Rs.5500/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with 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.	21	1823	Rupees One Thousand Eight Hundred Twenty Three Only	Per Point	38283
	Makes:- (KEI/Anchor/Plaza , L&T(Entice)/Legrand(Myrius)/Schneider(Livia)/SCI					
2	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.					
	Group A	20	1213	Rupees One Thousand Two Hundred Thirteen Only	Per Point	24260
	(Make:-KEI,Anchor,Plaza) Legrand (Myrius), L&T(Entice), Schneider(Livia)/SCI					
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.					

3.1	2x1.5 Sq. mm.	45	335	Rupees Three Hundred Thirty Five Only	Per Meter	15075
3.2	2x4.0 Sq. mm.	65	471	Rupees Four Hundred Seventy One Only	Per Meter	30615
3.3	2x10 Sq. mm.	6	793	Rupees Seven Hundred Ninety Three Only	Per Meter	4758
3.4	4x4 Sq. mm.	40	771	Rupees Seven Hundred Seventy One Only	Per Meter	30840
	(Make:-KEI / Anchor / Plaza/SCI)					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel PVC conduit as required.					
	3x1.5 Sq. mm.	20	111	Rupees One Hundred Eleven Only	Per Meter	2220
	(Make:-KEI / Anchor / Plaza/SCI)					
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	15	582	Rupees Five Hundred Eighty Two Only	Each	8730
	Makes:- L&T / Legrand / Schoneider					
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	10	750	Rupees Seven Hundred Fifty Only	Each	7500
	Makes:- L&T/Anchor/LeGrand/Schneider.					
7	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase,230 volts complete as required:-	2	187	Rupees One Hundred Eighty Seven Only	Each	374
	Makes:- Anchor/Goldmedal /SSK					

8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	19	265	Rupees Two Hundred Sixty Five Only	Each	5035
	Single Pole. Cat-A.					
	Makes:- L&T / Legrand / Scheneider					
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.					
	40 Amp. Double pole. Cat-A.	1	488	Rupees Four Hundred Eighty Eight Only	Each	488
	63 Amps. Cat-A.	1	616	Rupees Six Hundred Sixteen Only	Each	616
	Makes:- L&T / Legrand / Scheneider					
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 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	40 Amps. Cat-A.	1	2715	Rupees Two Thousand Seven Hundred Fifteen Only	Each	2715
	63 Amps. Cat-A.	1	3616	Rupees Three Thousand Six Hundred Sixteen Only	Each	3616
	Makes:- Legrand/L&T/Schneider.					
11	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					

	Double door-12 way	1	2309	Rupees Two Thousand Three Hundred Nine Only	Each	2309
	Double door-16 way	1	2954	Rupees Two Thousand Nine Hundred Fifty Four Only	Each	2954
12	Makes:- L&T / Legrand / Schneider Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1	10244	Rupees Ten Thousand Two Hundred Forty Four Only	Per Set	10244
	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20	30	Rupees Thirty Only	Per Meter	600
13	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens, CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc. with 5 year warranty.					
	LED Bulkhead, 10Watt					
	Makes:- Panasonic (Cat No. PBHM01107)	8	1432	Rupees One Thousand Four Hundred Thirty Two Only	Each	11456
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:-					
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	5	2269	Rupees Two Thousand Two Hundred Sixty Nine Only	Each	11345
	Makes: Usha/Bajaj/Crompton					

15	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- with Not Less than 3 rated star					
	Ceiling Fan 1200 mm sweep, Cat-A	7	3191	Rupees Three Thousand One Hundred Ninety One Only	Each	22337
16	Makes:- Usha/ Bajaj / Crompton Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.					
	Stepped type Modular Fan regulator (2 module) Makes:- L&T / Legrand / Schneider	3	737	Rupees Seven Hundred Thirty Seven Only	Each	2211
17	Supplying and fixing surface mounted circular LED having following wattage, CCT 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 . The LED with Useful life of 50000 Hrs at L70 with five years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.					
	18 Watt LED, Round downlighter surface mounted	2	1562	Rupees One Thousand Five Hundred Sixty Two Only	Each	3124
	Makes:- Panasonic/Wipro/Havells					

18	Providing and fixing of IP20 LED Surface mounted CRCA Powder Coated Box type channel system with Pro LED Lamp suitable for mounting 1 x 18 W LED Tube T8 type having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10%, CCT 6500 K, CRI 80, Surge Protection range 2 kV. The LED with useful life of 50000 Hrs. at L70 with five years warranty. The Input voltage shall be 150V to 270V, 50/60 HZ along with all accessories, including connections, testing etc. as required complete in all respects. with 5 years warranty.					
	LED 18 Watt Tube fixture					
	Makes:- Philips/Wipro/Bajaj	16	1508	Rupees One Thousand Five Hundred Eight Only	Each	24128
19	Supplying and fixing 45W LED street light made up of die cast aluminium housing with LED street optic LENS, offering uniform light distribution and individual LEDs with IP66 protection including connections, testing etc. as required complete in all respects with 5 years warranty					
	45W LED Street Light	1	4982	Rupees Four Thousand Nine Hundred Eighty Two Only	Each	4982
	Makes:- Havells/Wipro/Bajaj					
	Total					270815

Dy. Secy. Schedule of quantity checked and approved for ₹ 270815 only

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY								ESTIMATED COST: Rs.2,82,924/-only. EARNEST MONEY: Rs.5700/-only TIME ALLOWED: Three Months		
Name of Work :- Replacement of old FTL fixtures, switch/sockets, geysers and other old/damaged electrical accessories etc. in 09 Nos. Type-V Qtrs. of Dr. RPGMC Kangra at Tanda.				Job No 19						
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT				
			FIGURES	WORDS						
1	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Make:- KEI/Havells/Plaza									
1.1	2x1.5 Sq. mm.	106	217.00	Rupees Two Hundred Seventeen Only	Per Meter	23002				
1.2	2x4 Sq. mm.	90	353.00	Rupees Three Hundred Fifty Three Only	Per Meter	31770				
2	Make:- KEI/Anchor/Plaza 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	3x1.5 Sq. mm. Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-	41	112.00	Rupees One Hundred Twelve Only	Per Meter	4592				
3.1	2 modules	8	385.00	Rupees Three Hundred Eighty Five Only	Each	3080				
3.2	3 modules	16	406.00	Rupees Four Hundred Six Only	Each	6496				
3.3	6 modules	6	545.00	Rupees Five Hundred Forty Five Only	Each	3270				
3.4	8 modules	11	667.00	Rupees Six Hundred Sixty Seven Only	Each	7337				

	Makes:- L&T/Anchor/Havells								
4	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.								
4.1	5/6 Amps one way Modular switch.	98	133.00	Rupees One Hundred Thirty Three Only	Each	13034			
4.2	6 pin, 5/6 Amps Modular socket outlet.	45	189.00	Rupees One Hundred Eighty Nine Only	Each	8505			
4.3	S.P. 15/16 Amps one way Modular switch.	15	228.00	Rupees Two Hundred Twenty Eight Only	Each	3420			
4.4	6 pin, 15/16 Amps Modular socket outlet.	15	350.00	Rupees Three Hundred Fifty Only	Each	5250			
4.5	Modular Bell Push	5	277.00	Rupees Two Hundred Seventy Seven Only	Each	1385			
	Makes:- L&T/Legrand/Schneider.								
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	8	591.00	Rupees Five Hundred Ninety One Only	Each	4728			
	Makes:- L&T/Legrand/Schneider.								
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	4	760.00	Rupees Seven Hundred Sixty Only	Each	3040			
	Makes:- L&T/Legrand/Schneider.								
7	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required	6	228.00	Rupees Two Hundred Twenty Eight Only	Each	1368			
	Makes:- Anchor/Goldmedal /SSK								
8	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.								

	Stepped type Modular Fan regulator (2 module)	10	740.00	Rupees Seven Hundred Forty Only	Each	7400
	Makes:- L&T/Legrand/Schneider.					
9	Supplying and fixing following 40/50/63 Amp., double pole, 240/415 volts, 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:-					
	63 Amps. Cat-A.	1	1426.00	Rupees One Thousand Four Hundred Twenty Six Only	Each	1426
	Makes:- L&T/Legrand/Schneider.					
10	Providing, installation, testing and commissioning of BLDC ceiling fan with socket type regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with Five star rating and five year warranty.					
	BLDC Ceiling Fan 1200 mm sweep, Cat-A	3	4386.00	Rupees Four Thousand Three Hundred Eighty Six Only	Each	13158
	Makes:- Usha / Bajaj / Crompton					
11	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of approved Make.					
	Exhaust Fan, Light duty, (Domestic)	4	2289.00	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	9156
	Makes:- Bajaj/ Wipro/Havells					
12	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required:-					

	25 Liter capacity water heater (CAT-A)	4	10298.00	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	41192
	Makes:- Havells/Usha/Racold					
13	Providing and fixing of IP20 LED Surface mounted CRCA Powder Coated Box type Channel system with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum efficacy of 100 lm/W, P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80,Surge Protection range 2 KV.The LED with Useful life of 50000 Hrs at L70 with five years warranty.The Input voltage shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections etc. as required.	44	1512.00	Rupees One Thousand Five Hundred Twelve Only	Each	66528
	18 Watt LED Tube fixture with pro LED lamp					
	Makes: Philips/ Wipro/ Bajaj					
14	Providing and fixing LED Mirror Light of IP20 Led fixture 10 W+/- 1W with Surface Mounted 2 feet with Polycarbonate diffuser with extruded aluminium housing having minimum system lumen output 1000 lumens and system lumen efficacy of 100 lm/W with P.F.>0.95 with THD 20%, CRI 80. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 6500 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.	12	566.00	Rupees Five Hundred Sixty Six Only	Each	6792
	LED Mirror Light 10 Watt					
	Makes: Philips/ Wipro/ Bajaj					

15	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 70, surge protection 4 kV. The LED with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required with five years warranty.					
	LED Bulk Head, 10 Watt	3	1415.00	Rupees One Thousand Four Hundred Fifteen Only	Each	4245
16	Makes:- Bajaj/ Wipro/Havells Providing and installation of LED fixture with +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70 V with five years warranty. The input voltage range shall be 150V as required complete with connections, testing etc.					
	18 Watt LED round surface	10	1275.00	Rupees One Thousand Two Hundred Seventy Five Only	Each	12750
	Total					282924

Draft Schedule of quantity checked and approved for 282924 July

Executive Engineer
Electrical Division
HPPWD Palampur

DRAFT 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 15
ESTIMATED COST: Rs. 2,73,594/-only.
EARNED 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	1715	Rupees One Thousand Seven Hundred Fifteen Only	Per point.	68600
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	1782	Rupees One Thousand Seven Hundred Eighty Two Only	Per point.	1782
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	445	Rupees Four Hundred Forty Five Only	P/Mtr.	23585
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	710	Rupees Seven Hundred Ten Only	P/Mtr.	28400
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	371	Rupees Three Hundred Seventy One Only	P/Mtr.	20405
	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	10	746	Rupees Seven Hundred Forty Six Only	P/Mtr.	7460
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	547	Rupees Five Hundred Forty Seven Only	Each.	2188
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	706	Rupees Seven Hundred Six Only	Each.	2824
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	249	Rupees Two Hundred Forty Nine Only	Each	1494
	16 Amp Single pole. Cat-A.	4	249	Rupees Two Hundred Forty Nine Only	Each	996
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	459	Rupees Four Hundred Fifty Nine Only	Each	918
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	2554	Rupees Two Thousand Five Hundred Fifty Four Only	Each	5108

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	1784	Rupees One Thousand Seven Hundred Eighty Four Only	Each	3568
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	17632	Rupees Seventeen Thousand Six Hundred Thirty Two Only	Per set	17632
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	2698	Rupees Two Thousand Six Hundred Ninety Eight Only	Each	32376
	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 ≥ 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	2174	Rupees Two Thousand One Hundred Seventy Four Only	Each	19566
	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Trilux) or any other approved by Engineer-in- Charge.					

SCHEDULE OF QUANTITY

Name of Work :- Replacement of Safety Devices and accessories in HP PWD Rest House Daroh in Tehsil Palampur Distt. Kangra (HP)(SH:- P/L Armoured cable, Street light therein).			job No 15		ESTIMATED COST: Rs.3,97,965/-only. EARNEST MONEY: Rs.8000/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT	
				WORDS			
1	Providing, Installation, testing and commissioning of ceiling fan with BLDC regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.						
	Ceiling Fan 1200 mm sweep, Category-A	4	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	17544	
	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 5 Star,Philips,Bajaj						
2	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	6	2179	Rupees Two Thousand One Hundred Seventy Nine Only	Each	13074	
	Make:- Usha/Bajaj/Havells						
3	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-						

	Make:- Usha/Bajaj/Havells	2	10298	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	20596
4	Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P.F ≥ 0.95 with THD <20%, CCT 6000 K, CRI 80. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V with 5 years warranty					
	LED Surface mounting round downlighter 18 watt	10	1564	Rupees One Thousand Five Hundred Sixty Four Only	Each	15640
5	Makes :- Wipro (Cat No :- LD80-171-xxx-60-SM/Philips/Bajaj) Providing and fixing LED Batten of 40 watt of to enhance the delight of with comfortable experience through its classic design & glare free illumination of make as per cat. No. ZD-LTD010-40 Watt complete with connection testing ,commissioning etc. as required in all respect with 5 years warranty					
	LED Batten light 40 W	6	2315	Rupees Two Thousand Three Hundred Fifteen Only	Each	13890
6	Make cat. No. ZD-LTD010-40 Watt Clair/ Bjaj/ Wipro Supplying of LED fixture 1200mmx300mm 36 w +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100Lm /W with CRCA Housing and PMMA Diffuser with P.F.> 0.95, THD<10% , CCT 5700 K , CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs. at L70 with 5 years warranty					
	Make :- Bajaj Cat no. BZSSLL36L LED WH 1/Wipro/Philips	2	8421	Rupees Eight Thousand Four Hundred Twenty One Only	Each	16842

7	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.	13	268	Rupees Two Hundred Sixty Eight Only	Each	3484	
	L&T/Legrand/Schneider make						
8	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 25 amps modular socket outlet and 25 amps, modular switch, SP, MCB "C" curve including connections, Painting etc. as required.	3	785	Rupees Seven Hundred Eighty Five Only	Each.	2355	
	Make :- Schenider/L&T/Legrand						
9	Providing and erection of LED 45 watt street light luminaries of Crompton Greaves Electric having cat No. /IUX mAX-slb-45, powder coated pressure die-cast aluminium SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 10\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, with 5- years warranty including connection, testing and commissioning etc. as required.						
	LED Street light 45 watt as per Cat/price list Twinkle LuxMax-SLB-40/ Wipro/Phillips	4	4295	Rupees Four Thousand Two Hundred Ninety Five Only	Each	17180	
10	Providing and fixing Present LED post top fixture are made of Die cast alum. Base and apun alum. Top fitted with LED PT Module, Power LED, s are mounted directly on inbuilt extruded alum, Heat Sinks, A UV stabilized Injection moulded Prismatic PC diffuser is provided for Glare Free Lighting with high Visual comfort complete with all accessories, connections, testing and commissioning etc. as required.						

	Makes:- LuxMax-PT-155 40 Watt (Twinkle)/ Wipro/Phillips	9	16145	Rupees Sixteen Thousand One Hundred Forty Five Only	Each	145305
11	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:-	258	480	Rupees Four Hundred Eighty Only	P/Mtrs.	123840
12	Armoured cable 6 sq. mm (twin core) Plaza, Havells, KEL, Grand lay Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with finned 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:-	5	1643	Rupees One Thousand Six Hundred Forty Three Only	Each	8215
	4 Way Double Door					
	L&T/Legrand/Schneider make					
	Total					397965

Draft schedule of quantity checked
and approved by 397965/2

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Construction of Circuit House at Palampur in Tehsil Palampur Distt. Kangra (H.P.) (SH : Providing street Lighting Therein)		ESTIMATED COST: Rs.4,38,597/-only. EARNEST MONEY: Rs.8800/-only TIME ALLOWED: One Month	
SR. NO.		job No	
QTY.	FIGURES	RATES	
		WORDS	AMOUNT
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 Poles are suitable for single/double/triple/four side post top/drop down luminaries. 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 1:3:6 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 1:3:6 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-114-401-Q3),Mayfair/K-Lite			
i	11	24487.00	Each
4 Meter long having 114mm dia at bottom and 60mm dia at top.		Rupees Twenty Four Thousand Four Hundred Eighty Seven Only	269357
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, sand cushioning, protective covering and refilling the trench etc as required. Makes: KEI, Havells, Plaza make.			
i	150	312.00	P/Mtr.
Armoured cable 6 sq. mm (twin core)		Rupees Three Hundred Twelve Only	46800

3	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, sand cushioning, protective covering and refilling the trench etc as required. Makes: KEI, Havells, Plaza make.						
i	Armoured cable 10 sq. mm (twin core)	20	364.00	Rupees Three Hundred Sixty Four Only	P/Mtr.	7280	
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/L&T.						
i	PVC insulated HRRF LS Copper conductor 1.5 Sq. mm.	70	79.00	Rupees Seventy Nine Only	P/Mtr.	5530	
ii	2x1.5 Sq. mm.						
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-8 way	1	1914.00	Rupees One Thousand Nine Hundred Fourteen Only	Each	1914	
ii	Makes: L&T/Legrand/Schneider.						
6	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 existing MCB DB complete with connections, testing and commissioning etc as required.						
i	Single pole. Cat-A.	2	268.00	Rupees Two Hundred Sixty Eight Only	Each	536	
ii	Makes: L&T/Legrand/Schneider.						
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.	1	491	Rupees Four Hundred Ninety One Only	Each	491
ii	Makes: L&T/Legrand/Schneider. Providing and fixing of LED 40 Watt Post top fixture of following capacity are made of Die cast Alum. housing with three nos. die cast Al arms are provided to support the housing power LED's are mounted on metal clad PCB's and LED's & PCB assembly are mounted extruded aluminium heat sinks. A UV stabilized PC diffuser is provided as complete in all respects as required.					
8						
i	LED Post top Luminaire 40 watts.					
ii	Makes: Havells (Cat No.-RUBYPT40WLED757PSYTOPC)/Wipro/ Bajaj.	11	9699	Rupees Nine Thousand Six Hundred Ninety Nine Only	Each	106689
	Total					438597

*Draft schedule of quantity checked and
approved by 438597/-*

Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

Name of Work :- Replacement of Safety Devices and accessories in (Ground Floor) at 30 Bedded Hospital Chadhiar in Tehsil Baijnath Distt. Kangra (H.P.)

ESTIMATED COST: Rs.4,48,643/-only.
EARNEST MONEY: Rs.9000/-only
TIME ALLOWED: One Month

Job No 7

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	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	11	4386	Rupees Four Thousand Three Hundred Eighty Six Only	Each	48246
2	Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 5 Star, Philips, Bajaj 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	10	2289	Rupees Two Thousand Two Hundred Eighty Nine Only	Each	22890
3	Make:- Usha/Bajaj/Havells 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 complete in all respects to the best satisfaction of Engineer-in-charge.					
	Wall fan 400mm sweep Category-A usha Technix Plus 3 Star, Philips, Bajaj or any other approved by Engineer- In-Charge.	3	2931	Rupees Two Thousand Nine Hundred Thirty One Only	Each	8793

4	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required.-							
	Make:- Usha/Bajaj/Havells	3	10298	Rupees Ten Thousand Two Hundred Ninety Eight Only	Each	30894		
5	Providing and installation of LED fixture 18 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F ≥ 0.95 with THD <20%, CCT 6000 K, CRI 80, The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V with 5 year warranty.							
	LED Surface mounting round downlighter 18 watt	17	1564	Rupees One Thousand Five Hundred Sixty Four Only	Each	26588		
	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Bajaj)							
6	Providing and installation of LED fixture 600mmx600mm 36 W +/- 1 W LED with Surface Mounted with PMMA diffuser with having minimum system lumen efficacy 100 lm/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 standered with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V with 5 year warranty.	2	5977	Rupees Five Thousand Nine Hundred Seventy Seven Only	Each	11954		
	Square LED Panel Light 2x2(36W)							
	Makes :-Wipro (Cat. No.:-CRCO10S038HP57G1L1) Philips/Bajaj							
7	Providing and fixing LED Batten of 40 watt of to enhance the delight ofwith comfortableexperience through its classic design & glare free lumination of make as per cat. No. ZD-LTD010-40 Watt complete with connection testing ,commissioning etc. as requiredin all respect with 5 year warranty.							

	LED Batten light 40 W	11	2315	Rupees Two Thousand Three Hundred Fifteen Only	Each	25465
	Make cat. No. ZD-LTD010-40 Watt Clair/ Bajaj/ Wipro					
8	Supplying of LED fixture 1200mmx300mm 36 w+- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm /W with CRCA Housing and PMMA Diffuser with P.F.> 0.95, THD<10% , CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs. at L70 with 5 year warranty.					
	Make :- Bajaj Cat no. BZSSLL36L LED WH 1/Wipro/Philips	9	8421	Rupees Eight Thousand Four Hundred Twenty One Only	Each	75789
9	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 with 5 year warranty.	6	1415	Rupees One Thousand Four Hundred Fifteen Only	Each	8490
	Makes :-Wipro (Cat. No.:-LW07-141-XXX-57-G1) Philips/Bajaj					
10	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	2	189	Rupees One Hundred Eighty Nine Only	Each	378
11	supplying and fixing following type of LED Mirror Light luminaire , white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factore> 0.9, Harmonic Distortion < 10% and efficacy> 100 lumens per watt, CRI rating >70 Suitable for input voltage AC 220-240 V , 50 Hz, Complete with all accessories , connections,testing and commissioning etc. as required with 5 year warranty.					
	Make :- Crompton Cat No.CCS-103-05-65-SL-DP-NWH/ Bajaj	5	406	Rupees Four Hundred Six Only	Each	2030
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/Isolator)					

	TPN tier PPI Distribution Board 12+2 way, MCCB+6+36 Modules							
	L&T/Legrand/Schneider make		2	13885	Rupees Thirteen Thousand Eight Hundred Eighty Five Only	Each	27770	
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.	11	268	Rupees Two Hundred Sixty Eight Only	Each	2948		
	16 Amp Single pole. Cat-A.	22	268	Rupees Two Hundred Sixty Eight Only	Each	5896		
	20 Amp Single pole. Cat-A.	3	268	Rupees Two Hundred Sixty Eight Only	Each	804		
14	L&T/Legrand/Schneider make							
	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.	3	491	Rupees Four Hundred Ninety One Only	Each	1473		
	63 Amps. Cat-A.	3	620	Rupees Six Hundred Twenty Only	Each	1860		
15	L&T/Legrand/Schneider make							
	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.							

	40 Amps. Cat-A.		3	2720	Rupees Two Thousand Seven Hundred Twenty Only	Each	8160
	63 Amps. Cat-A.		3	3620	Rupees Three Thousand Six Hundred Twenty Only	Each	10860
16	L&T/Legrand/Schneider make Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubical panel board including drilling holes cubical panel, making connections etc. as required.						
	63/100 Amp 30 KA		5	6875	Rupees Six Thousand Eight Hundred Seventy Five Only	Each	34375
17	L&T/Legrand/Schneider make Supplying, Erection, installation and commissioning of Uniearth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compounding G E C 50 kg. or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of Uniearth Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should having coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 meter length 17.2 mm diameter, Terminal joint 200x25x6mm GI strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30kaA short time current test for 1 Sec rms		4	23245	Rupees Twenty Three Thousand Two Hundred Forty Five Only	P/Set	92980
	As per UniEarth						
	Total						448643

As per schedule of quantity checked and approved for 448643/-

Executive Engineer
Electrical Division
HPPWD Palampur

	40 Amps. Cat-A.	3	2720	Rupees Two Thousand Seven Hundred Twenty Only	Each	8160
	63 Amps. Cat-A.	3	3620	Rupees Three Thousand Six Hundred Twenty Only	Each	10860
16	L&T/Legrand/Schneider make Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubical panel board including drilling holes cubical panel, making connections etc. as required.					
	63/100 Amp 30 KA	5	6875	Rupees Six Thousand Eight Hundred Seventy Five Only	Each	34375
17	L&T/Legrand/Schneider make Supplying, Erection, installation and commissioning of Uniearth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compounding G E C 50 kg. or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of Uniearth Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should having coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 meter length. 17.2 mm diameter, Terminal joint 200x25x6mm GI strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30kaA short time current test for 1 Sec rms	4	23245	Rupees Twenty Three Thousand Two Hundred Forty Five Only	P/Set	92980
	As per UniEarth					
	Total					448643

*Draft scheduled quantity checked and approved
Tsd, 24/18643/2*

Executive Engineer
Electrical Division
HPPWD Palampur

[Signature]

SCHEDULE OF QUANTITY

Name of Work :- C/O Govt. Sr. Sec. School at Chalwara, Tehsil Jawali, Distt. Kangra (HP) (SH :- Providing E.I. in Ground Floor and First Floor therein.)		job No 18		ESTIMATED COST: Rs.4,99,164/-only. EARNEST MONEY: Rs.10,000/-only TIME ALLOWED: One year		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES		AMOUNT
				WORDS	UNIT	
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/Plaza/Anchor (Penta)/ Havells(Reo)/SSK.					
i)	Group C.	99	1712.00	Rupees One Thousand Seven Hundred Twelve Only	Point	169488
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: KEI/Plaza/Anchor (Penta)/ Havells(Reo)/SSK.					
i)	Group C.	5	1735.00	Rupees One Thousand Seven Hundred Thirty Five Only	Point	8675
3	Wiring for light plug with 2x1.5 Sq. mm. FRLS PVC insulated copper conductor single core cable in surface/recessed steel conduit along with 1 No.1.5 Sq.mm. FRLS/PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor	45	336.00	Rupees Three Hundred Thirty Six Only	Meter	15120

4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: KEI/Plaza/Anchor.					
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	90	335.00	Rupees Three Hundred Thirty Five Only	Meter	30150
ii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	16	793.00	Rupees Seven Hundred Ninety Three Only	Meter	12688
iii)	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	5	2025.00	Rupees Two Thousand Twenty Five Only	Meter	10125
5	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor.	40	473.00	Rupees Four Hundred Seventy Three Only	Meter	18920
6	Wiring for power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make: KEI/Plaza/Anchor.	20	755.00	Rupees Seven Hundred Fifty Five Only	Meter	15100
7	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (Make: Sidharth/BEC)					
i)	25 mm. dia	5	265.00	Rupees Two Hundred Sixty Five Only	Meter	1325
8	Supplying and fixing of following sizes of PVC conduit of medium class with 1.4 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast/Anchor)					

i)	25 mm. dia	3	113.00	Rupees One Hundred Thirteen Only	Meter	339
9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: KEI/Plaza/Anchor.					
i)	3 x 1.5 sq. mm	25	111.00	Rupees One Hundred Eleven Only	Meter	2775
10	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	5	98.00	Rupees Ninety Eight Only	each	490
11	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	Single pole (Make:- Schneider/ Legrand/L&T)	24	265.00	Rupees Two Hundred Sixty Five Only	each	6360
12	Supplying and fixing following rating, double pole, 240 V, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	63 Amps. (Make:- Schneider/ Legrand/L&T)	2	616.00	Rupees Six Hundred Sixteen Only	each	1232
13	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i)	63 Amps. (Make:- Schneider/ Legrand/L&T)	2	3616.00	Rupees Three Thousand Six Hundred Sixteen Only	each	7232
14	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					

i)	Double door-4 way (Make:- Schneider/ Legrand/L&T)	1	1572.00	Rupees One Thousand Five Hundred Seventy Two Only	each	1572
ii)	Double door-12 way (Make:-Schneider/ Legrand/L&T)	1	2309.00	Rupees Two Thousand Three Hundred Nine Only	each	2309
iii)	Double door-16 way (Make:- Schneider/ Legrand/L&T)	1	2954.00	Rupees Two Thousand Nine Hundred Fifty Four Only	each	2954
15	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1	6188.00	Rupees Six Thousand One Hundred Eighty Eight Only	Set	6188
16	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.	31	45.00	Rupees Forty Five Only	Meter	1395
17	Providing, Installation, testing and commissioning of ceiling fan ISI mark with electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
i)	Ceiling Fan 1200 mm sweep, (Make: Usha, Model: Energia ISI)/Bajaj(Model: Sabse Tezz Kassels)/Crompton(Model: WWHE).	22	2869.00	Rupees Two Thousand Eight Hundred Sixty Nine Only	each	63118
18	Supplying & fixing following type of LED Mirror Light luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					

i)	LED Mirror Light 5 Watt (Make: Crompton Cat No. CCS-103-05-65-SL-DP-NWH)/Bajaj	1	389.00	Rupees Three Hundred Eighty Nine Only	each	389
19	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
i)	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD)/Bajaj (Model: Freshee)/Anchor (Model: Anmol).	4	2269.00	Rupees Two Thousand Two Hundred Sixty Nine Only	each	9076
20	Providing and installation of following type of Square/Round type surface mounted LED Downlight luminaire CCT(K)- 6000 white power coated CRCA housing diffuser to avoid glare with specifications i.e. Power factor > 0.9, Harmonic distortion < 10% and efficacy > 100 lumens per watt, CRI rating>80 suitable for input voltage AC 220-240V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc. as required complete in all respects.					
i)	LED Downlighter 15 watt (Jaquar cat no. LNR02R01SC)/Bajaj/Crompton	20	1432.00	Rupees One Thousand Four Hundred Thirty Two Only	each	28640
21	Providing and installation of LED fixture 1200mmX300mm 36 W+/- 1W Surface Mounted with PMMA diffuser with having minimum system lumen efficacy ≥ 100lm/W with CRCA Housing and PMMA Diffuser with P.F.>0.95,THD<10%,CCT 5700 K,CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70, with 5- years warranty. The input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects..					
	LED Panel Light 36 watt 1'x4', (Make: Bajaj, Cat no. BZSSL36L LED WH 1Wipro/Philips).	3	6746.00	Rupees Six Thousand Seven Hundred Forty Six Only	Each	20238

22	Supplying & fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i)	LED Batten 20W, 4 feet long Make: (Make: Bajaj, cat no.BCLAB 20W LED P)/ Philips/Panasonic.	30	1044.00	Rupees One Thousand Forty Four Only	each	31320
23	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK	12	290.00	Rupees Two Hundred Ninety Only	each	3480
24	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required. Make: Anchor/SSK	5	485.00	Rupees Four Hundred Eighty Five Only	each	2425
25	Providing and fixing of LED 20 watt street light luminaires of Bajaj having cat No.ENXT P 20L WH PO PC SD, powder coated pressure die-cast aluminium heat sink and toughened glass SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9, Harmonic Distortion < 10% and efficacy ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz with all accessories, connections, testing and commissioning etc. as required.					
i)	LED Street Light 20 W (Make:- Bajaj Cat no. ENXT P 20L WH PO PC SD)/Wipro/Panasonic.	3	2424.00	Rupees Two Thousand Four Hundred Twenty Four Only	each	7272

26	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with bolt & nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat complete in all respects as required:-	3	787.00	Rupees Seven Hundred Eighty Seven Only	each	2361
i)	40 mm dia. G.I. pipe, heavy class					
27	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. Make: L&T/Legrand/Schneider.					
i)	63 Amp 30KA 4 Pole	1	6848.00	Rupees Six Thousand Eight Hundred Forty Eight Only	each	6848
28	Providing and fixing Enclosure for MCCBs suitable for 3Pole & 4Pole MCCBs etc. as required. Make: L&T/Legrand/ Schneider.					
i)	Enclosure for MCCB Size I	1	2043.00	Rupees Two Thousand Forty Three Only	each	2043
29	Supplying and fixing TP&N copper bus-bar chamber suitable for 415 volts capacity with 4 No. copper strip bus-bars each of length and x-section suitable for following current carrying capacities, enclosure made of sheet steel, dust protected, duly powder painted with detachable gland plate and other accessories including drilling holes on the board, making connections, earthing etc. as required.					
	63 A Copper Busbar Chambers 15"	1	3769.00	Rupees Three Thousand Seven Hundred Sixty Nine Only	each	3769

30	Supplying and erection of wall mounted metal frame structure for switch gear mounting of suitable size, with permissible variation in size of plus minus 5mm, welded frame work made of M.S. angle iron 35mm x 35mm x 5mm, duly welded supporting arrangement of M.S. flats on the front to suit the fixing of SFU including painting and bonding to the existing earth as required:-	0.5	2545.00	Rupees Two Thousand Five Hundred Forty Five Only	Sq. mtr.	1273
31	Supplying and fixing metal box of 200mmX150mmX75mm (nominal size) on surface or on recess with suitable size of phenolic laminated sheet cover, including providing and fixing 3 Nos. 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).	5	495.00	Rupees Four Hundred Ninety Five Only	each	2475
	Total					499164

Draft Schedule of Quantity Checked and approved by 499164/-

Executive Engineer
Electrical Division
HPPWD Palampur