

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.:PW/EDP/CB/TA/CONT/2022-23/ 1909-17

Dated: 4/6/2022

To

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

Subject: Publishing of Tender Notice.

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

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

DA/NIT, SQs

Executive Engineer
Electrical Division
HPPWD Palampur

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

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

Executive Engineer
Electrical Division
HPPWD Palampur

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT
"Notice Inviting Tenders"

Sealed item rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP.PWD, (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act. 1968 so as to reach in his office on or before **15/06/2022** up to 11.00 AM, and the same shall be opened on the same day at 11.30 A.M. in the presence of intending contractors or their authorized representatives. The tender documents can be had from his office against cash payment (Non-refundable) on **13/06/2022** up to 4.00 P.M. The earnest money in the shape of FDR/saving account of the Post office/Bank in H.P. duly pledged in favour of the XEN and tender fee in the shape of bank draft must accompany with each tender. Conditional/incomplete tenders & tender without earnest money will be summarily rejected. The XEN reserves the right to accept or reject any or all tenders or drop the proposal of tenders without assigning any reasons.

Conditions:

1. The contractor should attach the valid enlistment certificate in appropriate class in HPPWD (E), GST registration certificate & EPF No. with each tender, failing which the tender will not entertained.
2. The bidders enlisted in a particular class shall be eligible to tender for his own class or one step below.
3. Te bidder should attach similar nature of work done certificate in case of specialized job along with GST registration certificate and EPF registration certificate.

Sr. No	Name of Work	Estimated Cost	Earnest Money	Time Limit	Form No.	Cost of Form
1	C/O 6 Nos Type –II quarter Near CMO Residence at Dharamshala Tehsil Dharamshala Distt Kangra H.P.(SH:-Providing E.I There in)	399366/-	8000/-	One Month	8	350/-
2	Replacement of exiting old and damaged Campus Lighting into new one in the rest House of HPPWD at Durghati in Tehsil Bharmour and Distt Chamba (H.P.)	175788/-	3600/-	Six Months	8	350/-
3	C/O Ayurvedic Health Center building at saleti in Tehsil Rakkar, Distt Kangra (H.P.)(SH: Providing E.I. there in).	153995/-	3100/-	One year	8	350/-
4	Providing and fixing of Inverter 6.5 KVA capacity in HPPWD Rest House at Nurpur in tehsil Nurpur Distt. Kangra(HP)	228027/-	4600/-	Three Months	8	350/-
5	Repair & Maintenance of HYAC system installed in Auditorium Building Dr. RPGMC Kangra at Tanda.(SH:- Replacement of compressor oil, Refrigerant R-22, drier core, oil heater, motherboard card, display card, power contactor, solenoid coil etc.and compressor overhauling of chiller No.-I thereof)	499450/-	10000/-	One Month	8	350/-
6	Providing Campus lighting in Combined Office / Mini Secretariat Building at Shahpur in Tehsil Shahpur Distt. Kangra (H.P)	260586/-	5300/-	One Month	8	350/-
7	C/o Additional accommodation for newly up-graded 100 bedded Civil Hospital at Shahpur in Tehsil Shahpur DISTT. Kangra (H.P) (SH:-Supplying and laying of Conduit pipe therein)	460273/-	10000/-	Six Months	8	350/-
8	Replacément of old and Damaged Campus lights fixture in Circuit house at Dharamshala Distt. Kangra (H.P)	261770/-	5300/-	One Month	8	350/-
9	Providing and fixing of portable fire Extinguishers in HPCA Cricket stadium Dharamshala therein.	319072	6400/-	One Month	8	350/-

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SCHEDULE OF QUANTITY

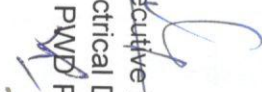
NAME OF WORK: C/O 6 Nos Type -II quarter Near CMO Residence at Dharamshala Tehsil Dharamshala Distt Kangra H.P (SH :- Providing E.I there in)		Job No. 1		ESTIMATED COST: Rs.3,99,366/-only. EARNEST MONEY: Rs. 8000/-only TIME ALLOWED: Six Months		
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required. Make: KEI/SCI/Havells/Plaza	124			P/Point	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable as required. GROUP-A Make: KEI/SCI/Havells/Plaza	12			P/Point	
3	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make: KEI/SCI/Havells/Plaza	150			P/MTR	
4	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make: KEI/SCI/Havells/Plaza	60			P/MTR	
5	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. Make: KEI/SCI/Havells/Plaza					
i	2x1.5 Sq. mm.	300			P/MTR	
ii	2x 10 Sq. mm.	30			P/MTR	
6	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make: KEI/SCI/Havells/Plaza					

	3x1.5 Sq. mm.	108			P/MTR	
7	Supplying and drawing co-axial TV cable, RG-6 grade, 0.7mm (75 Ohms) copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed, steel / PVC conduit as required.	84			P/MTR	
8	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- Make: Diplast/BEC/Finox					
	25 mm dia	60			P/MTR	
9	Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required.					
	TV. Socket outlet, modular.	12			Each	
10	Supplying and fixing metal box of 100mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required. Make:- Legrand (Myrius),L&T(Oris),Anchor(Roma plus)	42			Each	
11	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required.. Make:- Legrand (Myrius),L&T(Oris),Anchor(Roma plus)	30			Each	
12	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	30			Each	
13	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase,230 volts complete as required:-	6			Each	
14	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required: Makes:- L&T/Legrand/Schneider.					
	6 amps. to 16 amps Single pole. Cat-A.	48			Each	
15	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:- Makes:- L&T/Legrand/Schneider.					

	63 Amp MCB DP Double pole. Cat-A.	6				Each	
16	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider.						
	63 Amps.RCCB Cat-A.	6				Each	
17	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Makes:- L&T/Legrand/Schneider.						
	Double door-12 way	6				Each	
18	Earthing with G.I earth pipe 4.5 mtr. long and 40mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	6				P/Set	
19	Extra for using salt and charcoal for pipe earth electrode complete as required.	6				P/Set	
20	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	90				P/Mtr	
21	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, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- Make: Bajaj/Usha/Crompton						
i		6				Each	
	Ceiling Fan 1200 mm sweep, Category-A						
ii		12				Each	
	Ceiling Fan 1400 mm sweep, Category-A						

22	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required Make: Bajaj/Usha/Crompton						
23	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	12				Each	
24	Supplying and fixing of fancy wall bracket containing thread type CFL lamp holder (s) of all sizes and shapes, complete with all accessories but excluding CFL lamp including making connections, testing etc. as required.						
	Fixed type wall bracket 150 dia, single lamp. (Category-A)	6				Each	
24	Providing and fixing LED surface mounting round downlight of following rating and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
	LED Surface mounting round downlighter 9 watt	6				Each	
	Makes:- C&S, Havells, Syska, Bajaj or any other approved by Engineer-in-Charge.						
25	Providing and fixing LED surface mounting round downlight of following rating and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
	LED Surface mounting square downlighter 12 watt	24				Each	
	Makes:- C&S, Havells, Syska, Bajaj or any other approved by Engineer-in-Charge.						
26	Supplying and fixing of following watt LED bulk head fitting die cast aluminium body with IP-65 protection of all sizes and shapes, including making connections, testing etc. as required.						
	10 watt, LED Bulk Head	10				Each	

	Makes:- C&S , Havells, Bajaj or any other approved by Engineer-in-Charge.						
27	Providing and fixing indoor decorative aluminium extruded LED Tube fixture of following rating and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
	LED tube fixture 20 Watt	24				Each	
	Makes:- C&S , Havells, Syska, Bajaj or any other approved by Engineer-in-Charge.						
28	Supplying and fixing LED lamps of 9 watts in the existing fitting's testing commissioning etc. as required complete in all respect .	36				Each	
	LED Lamp 9 Watt						
	Total						


 Executive Engineer
 Electrical Division
 HP PWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK: Replacement of existing old and damaged Campus Lighting into new one in the Rest House of HPPWD at Durghati in Tehsil Bharmour and District Chamba (H.P.).		Job No. 2		ESTIMATED COST: Rs. 1,75,788/-only. EARNEST MONEY: Rs. 3600/-only TIME ALLOWED: Six Months		
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation and refilling the trench etc.as required, but excluding sand cushioning and protective covering:- Make:KEI,SCI,Havells,Plaza					
a	Armoured cable 6 sq. mm (twin core)	65			R.Mtr.	
b	Armoured cable 10 sq. mm (twin core)	30			R.Mtr.	
2	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:- Make:KEI,SCI,Havells,Plaza					
a	Armoured cable 10 sq. mm (twin core)	6			R.Mtr.	
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make:KEI,SCI,Havells,Plaza					
	PVC insulated HRRFR LS Copper conductor 1.5 Sq. mm.					
	3x1.5 Sq. mm.	15			Meter	
4	Wiring for circuit / sub-main with 4x6 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.6 Sq. mm. (4x6+2x6) HRRFR/LS/PVC insulated single core copper conductor cable for earthing as required. Make:KEI,SCI,Havells,Plaza	2			Meter	

5	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- Makes:- L&T/Legrand/Schneider.					
	Double door-8 way	1			each	
6	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:- Makes:- L&T/Legrand/Schneider.					
	Triple pole. Cat-A.	2			each	
7	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider.					
	25 Amps. Cat-A.	1			each	
8	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider.					
	40 Amps. Cat-A.	1			each	
9	Supplying and fixing of integral LED Post Top fixture made of die cast aluminium Base and spun aluminium, conical top fitted with LED PT Module. Power LED's are mounted directly on inbuilt extruded Aluminium, Heat Sinks. A UV stabilized injection molded P.C diffuser is provided for Glare free lighting with high Visual comfort, complete with all accessories including LED lamp and making connections, testing etc. as required.					
	Lomas -Twinkle Lite-521(PT-30) GENIUS LED-30 watt. Twinkle make,w.e.f.01-06-2019	5			each	

10	Supplying and erection of Twinkle Lite Mild Steel Pole (3 mtr. Long)-140 with cast Aluminium/cast iron Q4&Q6 embellishment, made out of Galvanised Steel pipes and has a service window at the bottom consisting of four way, 25 Amp connector terminal and a suitable MCB. The pole along with embellishment should be primer coated and are painted with polyurethane paint. The pole to be mounted on a 1:2:4 cement concrete base (pedestal) of 220 mm dia and 375 mm foundation bolt depth in a hole of excavation about 300 mm dia. and of suitable depth, to be filled with 1:3:6 cement concrete up to a height of 450 mm from bottom and then fitted with M.S. bolts / nuts of 12.5 mm dia; 375 mm length. complete in all respects as required:-						
	(a) Overall length 3 meter, with planting bolt depth 375 mm/12.5 mm dia, length and outer dia of sections 700 mmx150 mm and 2300 mmx90 mm (bottom and top respectively). Twinkle Lite-HRBR-E3-147530 Mild Steel galvanized tubular Pole (3 mtr. Long)	5				each	
	Total						


 Executive Engineer
 Electrical Division
 HP PWD Palampur

SCHEDULE OF QUANTITY

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NAME OF WORK: C/O Ayurvedic Haealth Centre building at Saleti in Tehsil Rakkar, District Kangra (H.P.)(S.H: Providing E.I. there in).		Job No. 3		ESTIMATED COST: Rs. 1,53,995/-only. EARNEST MONEY: Rs. 3100/-only TIME ALLOWED: Six Months		
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (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. (Make:-KEI,Anchor,L&T)Legrand (Myrius),L&T(Oris),Anchor(Roma plus).					
ii	Group C	45			P/Pt.	
2	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make:KEI,SCI,Havells,Plaza.	30			P/Mtr.	
3	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make:KEI,SCI,Havells,Plaza.	30			P/Mtr.	
4	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required. Make:KEI,SCI,Havells,Plaza.	20			P/Mtr.	

5	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.HRFR LS/PVC insulated single core copper conductor cable of same size for earthing as required. Make:KEI,SCI,Havells,Plaza.					
i	2x2.5 Sq. mm.	50			P/Mtr.	
ii	2x10 Sq. mm.	10			P/Mtr.	
6	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. Make:KEI,SCI,Havells,Plaza.					
	PVC insulated HRFR LS Copper conductor 1.5 Sq. mm.					
i	3x1.5 Sq. mm.	15			P/Mtr.	
ii	3x2.5 Sq. mm.	30			P/Mtr.	
iii	3x4.0 Sq. mm.	20			P/Mtr.	
7	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
i	S.P. 5/6 Amps one way Modular switch.	8			Each.	
ii	S.P. 15/ 16 Amps one way Modular switch.	7			Each.	
iii	5 pin, 5/ 6 Amps Modular socket outlet.	8			Each.	
iv	6 pin, 15/16 Amps Modular socket outlet.	7			Each.	
	Makes:- Legrand(Myrius),L&T(Oris),Anchor Roma(Plus)					
8	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-					
i	6 modules(205mmx78mmx50mm)	7			Each.	
	Makes:- Legrand(Myrius),L&T(Oris),Anchor Roma(Plus)					

9	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. (Make: Legrand (Myrius), L&T(Oris), Anchor(Roma plus))	1				Each.	
	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	7				Each.	
10	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required.						
	Makes:- L&T/Anchor/Philips.	1				Each	
11	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-						
i	Single pole. Cat-A.	13				Each	
	Makes:- L&T/Legrand/Schneider.						
12	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
i	63 Amps. Cat-A.	1				Each	
	Makes:- L&T/Legrand/Schneider.						
13	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
i	63 Amps. Cat-A.	1				Each	
	Makes:- L&T/Legrand/Schneider.						
	63 Amps. Cat-A.	1				Each	
	Makes:- L&T/Legrand/Schneider.						

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:-					
i	Double door-6 way	1			Each	
ii	Double door-12 way	1			Each	
	Makes:- L&T/Legrand/Schneider.					
15	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-					
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep					
	Makes: Usha,Bajaj,Crompton or any other approved make.	8			Each	
16	Earthing with G.I earth pipe 4.5 mtr. long and 40mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1			P/Set	
i	Extra for using salt and charcoal for pipe earth electrode complete as required.	1			P/Set	
17	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			P/Mtr.	
18	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20 Watt (2000 lumen) 5700K 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 36 Watt complete with all accessories, connections, testing and commissioning etc. as required.					

i	LED Tube 20 Watts						
ii	Make :- Panasonic (PBTM08204 Tube Light 4 Feet Long)/Wipro/Philips or equivalent.	12				Each	
19	Providing and fixing LED surface 2X2 luminaire to enhance the delight of occupants with comfortable experience through its classic design and glare free soft illumination , suitable for surface application with the use of the latest technology 36 watt (3600 Lumen) 6000K and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion <10% and efficacy > 100 Lumens per watt, CRI rating> 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
i	LED surface 2X2 Luminaire	1				Each	
ii	Makes:- Wipro (Cat No CRC010R038HP57GL1),Bajaj,panasonic or any other equivalent make.						
20	Supplying and fixing Bulk Head LED 10 Watt (1000 lumens), 6500K and it should be compatible with specifications i.e. power factor \geq 0.9, harmonic distortion \leq 10% and efficacy \geq 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.						
i	Make : Panasonic (PBHM01107-10W)(Bulk Head)/Philips/Wipro/Havell or equivalent.	3				Each	
21	Supplying and fixing on surface mounting Round type LED 20 Watt (2000 lumen), 4000K and it should be compatible with specifications i.e. power factor \geq 0.9, harmonic distortion \leq 10% and efficacy \geq 100 lumens per watt, CRI > 80, suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.						
i	Cat No :-Panasonic (Cat No PDLM10204BS) 20 W(Round)/Wipro/Philips/or Equivalent	6				Each	

22	Supplying and fixing LED lamp 10 watts as required complete in all respects.						
i	Makes:-Havell/Bajaj/Philips.	7				Each	
23	Providing, Installation, testing and commissioning of ceiling fan with two module modular step type electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.						
i	Ceiling Fan 1200 mm sweep, Category-A	7				Each	
	Total						


 Executive Engineer
 Electrical Division
 HP PWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK: Providing and fixing of Inverter 6.5 KVA capacity in HPPWD Rest House at Nurpur in tehsil Nurpur Distt Kangra (HP)					Job No. 4		ESTIMATED COST: Rs. 2,28,027/-only. EARNEST MONEY: Rs. 4600/-only TIME ALLOWED: Six Months	
Sr. No.	DESCRIPTION	QTY.	FIGURE		RATES		UNIT	AMOUNT
			S		WORDS			
1	Supplying, installation, testing & commissioning of Inverter having following capacity suitable for AC single phase input voltage standard range 110 V to 280 V and narrow range 180 V to 260 V 50 Hz and AC single phase output same as input on mains mode and 180 V to 230 V ($\pm 10V$) on inverter mode, pure sinewave microcontroller based design with automatic switchover from mains to inverter and inverter to mains with transfer time ≤ 15 sec, efficiency on battery mode $>80\%$ suitable for back-up of power supply with ONE YEAR warranty as required complete in all respects and to the best satisfaction of Engineer-in-Charge. Make:- Microtek, Luminous, Exide							
i)	Inverter 6.5 KVA /96V (Make: Microtek, Model JMSW 6500 I/96V)	1					Each	
2	Supplying, erection, testing & commissioning of jumbo tubular Battery 12V 160Ah lead acid battery with thicker tubes suitable for inverter with 18+18 month warranty as required complete in all respects and to the best satisfaction of Engineer-in-Charge. Make: Microtek, Luminous, Exide							
i)	Battery 12V 150 AH Tall Tubular (Make: Microtek Model EB 1800 TT)	8					Each	
3	Providing and fixing M.S. angle Rack for following capacity Battery with top surface covered as required complete in all respects and to the best satisfaction of Engineer-in-charge.							
i)	M.S. angle Rack suitable for Batteries 12V 150 Ah	1					Each	

4	Supplying and fixing 63 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider.					
1)	Double pole. Cat-A.	2			Each	
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) Makes:- L&T/Legrand/Schneider.					
	Double door-4 way	2			Each	
6	Supplying and fixing 20 Amps, 240 volts, SPN industrial type, socket outlet, with 2-pole & earth, metal enclosed plug top, alongwith 20 amps "C" curve, SP, MCB in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider.	1			Each	
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. Make:KEI,SCI,Havells,Plaza.					
i)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	8			Per Meter	
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. Make:KEI,SCI,Havells,Plaza.					
i)	1 x 1.5 sq. mm	200			Per Meter	
ii)	1 x 4 sq. mm	80			Per Meter	

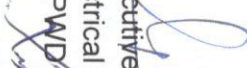
9	Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Makes:- L&T/Legrand/Schneider.					
	Single pole	2				Each
10	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Makes:- Diplast/ BEC/ Finolex					
	25 mm	100				Per Meter
	Total					


 Executive Engineer
 Electrical Division
 HP PWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK: Repair & Maintenance of HVAC system installed in Auditorium Building Dr. RPGMC Kangra at Tanda. (SH: Replacement of compressor oil, Refrigerant R-22, drier core, oil heater, motherboard card, display card, power contactor, solenoid coil etc. and compressor overhauling of Chiller No. - 1 thereof)				Job No. 5		ESTIMATED COST: Rs.4,99,450/-only. EARNEST MONEY: Rs. 10000/-only TIME ALLOWED: Six Months	
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT	
			FIGURE S	WORDS			
1	Supplying and fixing of Oil Pump suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1			Each		
2	Supplying and fixing of Oil heater suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1			Each		
3	Supplying of compressor oil for suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	10			Per liter		
4	Supplying and fixing of solenoid coils suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	5			Each		
5	Supplying and fixing of drier core suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	2			Each		
6	Supplying and fixing of liquid line strainer suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1			Each		
7	Supplying, installation, testing & commissioning of Motherboard card suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1			Each		
8	Supplying, installation, testing & commissioning of Display card suitable for 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1			Each		
9	Servicing of condenser coil i.e. washing and cleaning with chemical as per directions, instructions and to the best satisfaction of Engineer-in-charge.	1			Per Job		
10	Rewinding of 3 phase, 50 Hz, condenser fan motor with SWG copper wire including warnishing and refitting etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	2			Each		

11	Supplying and fixing of Water flow switch as required for chiller line complete in all respects and to the best satisfaction of Engineer-in-charge.	1				Each	
12	Supplying and fixing of temperature sensors as required for chiller line complete in all respects and to the best satisfaction of Engineer-in-charge.	2				Each	
13	Supplying and erection of single phase preventer as required complete with connections etc. and to the best satisfaction of Engineer-in-charge.	1				Each	
14	Dressing/relaying of power and control wiring as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1				Per Job	
15	Supplying and fixing of pressure gauge as required for chiller line complete in all respects and to the best satisfaction of Engineer-in-charge.	2				Each	
16	Supplying and fixing of temperature gauge as required for chiller line complete in all respects and to the best satisfaction of Engineer-in-charge.	2				Each	
17	Supplying and replenishment/charging of refrigerent R-22 to 60 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	3				Per Kg	
18	Overhauling of compressor i.e. dismantling and refixing of compressor along with repair and replacement of brush, crank shaft, ring set, pin set and gasket etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1				Per Job	
	Total						


Executive Engineer
 Electrical Division
 HP PWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK: Providing Campus lighting in Combined Office/ Mini Secretariat Building at Shahpur in Tehsil Shahpur Distt. Kangra (H.P.)					
Job No. 6			ESTIMATED COST: Rs.2,60,586/-only. EARNEST MONEY: Rs. 5300/-only TIME ALLOWED: Six Months		
Sr. No.	DESCRIPTION	QTY.	FIGURES	RATES	
				WORDS	UNIT
1	Supplying and fixing of ruby Small LED Post Top fixture of following capacity are made of Die cast alum. housing with three nos. die cast aluminium 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:- K.Lite/ BaiaI RUBY Small-40W LED Makes: Twinkle LuxMax/Electrocine	6			Each
2	Supplying and erection of Steel Ribbed Poles- are combination of Galvanised Ribbed steel tubes having 105mm dia at bottom and 81mm dia at Top with cast alum. Embellishments-Q1. The Poles are primer coated and painted with Polyurethane paint. Poles are suitable for Single/Double/Tripel/Four Side Post Top / Drop Down Luminaires. The Poles has a service window at the bottom comprising four way 25Amp connector terminal and a MCB. Poles has a mild steel base plate having four numbers mounting holes and can be mounted with four numbers anchor bolts complete in all respects as required:- 3 Mtr. - LuxMax-Steel Ribbed Pole - 105 -81 with EMB-Q1 Makes: Twinkle LuxMax/K-Lite/BajaI	6			Each
3	Supplying and drawing following size of PVC insulated, flame retardant low smoke (FRLS) PVC insulated single core cable in existing surface / recessed, Steel/PVC conduit as required. 3x1.5 Sq. mm. Make /KEI/SCI/Havells/ Plaza	20			Per Meter

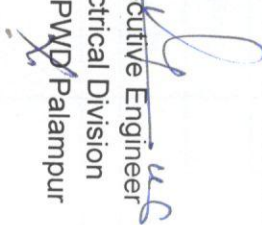
4	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade of following size direct in ground; including excavation, sand cushioning and protective covering and refilling the trench etc. as required.					
	Armoured cable 6 sq. mm. (twin core) Make /KEI/SCI/Havells/ Plaza	145				Per Meter
	Total					

Executive Engineer
 Electrical Division
 HP PWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK: C/o Additional accommodation for newly up-graded 100 bedded Civil Hospital at Shahpur in Tehsil Shahpur Distt. Kangra (H.P.) (SH: Supplying and laying of Conduit pipe therein)		Job No.7		ESTIMATED COST: Rs.4,60,273/-only. EARNEST MONEY: Rs. 10000/-only TIME ALLOWED: Six Months		
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Supplying and fixing of following sizes of steel conduit along with the 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:-					
1.1	25 mm. dia	1190			Meter	
1.2	50 mm. dia	30			Meter	
	Make: BEC/AKG/JPC					
2	Supplying & fixing of G.I. modular boxes of following sizes for modular switches in recess as required. (Without modular base and cover plate)					
2.1	4 Module (125mmX75mm)	22			Each	
2.2	6 Module (200mmX75mm)	40			Each	
2.3	8 Module (125mmX125mm)	46			Each	
2.4	12 Module (200mmX150mm)	48			Each	
Make:-Legrand (Myrius),L&T(Oris),Anchor(Roma plus)						

3	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)					
3.1	12 way , Double door	9			Each	
3.2	16 way , Double door	9			Each	
	Make: L&T/Schneider/Legrand					
	Total					


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SCHEDULE OF QUANTITY

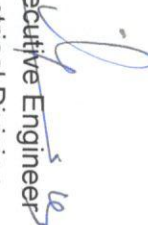
NAME OF WORK: Replacement of old and Damaged Campus lights fixture in Circuit house at Dharamshala Distt. Kangra (H.P)			Job No. 8		ESTIMATED COST: Rs 2,61,770/-only. EARNEST MONEY: Rs. 5300/-only TIME ALLOWED: Six Months	
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation and refilling the trench etc.as required, but excluding sand cushioning and protective covering:-					
1.01	Armoured cable 6 sq. mm (twin core)	100			P/Mtr	
2	Erection of Galvanized Iron (G.I.) / Steel tubular or Steel rail pole of length 3 to 8 meter but not exceeding 8 meters up to a given depth below G/L. The hole of excavation about 30 cm dia. and given depth to be filled in up to 15 cm below G/L with 1:3:6 cement concrete and there above plinth with 1:2:4 cement concrete up to a height of 45 cm from G/L. The radial thickness of the plinth above G/L should not be less than 6.35 cm and sufficient to completely flush a 180 mmx100 mmx 45 mm deep, glass filled Nylon F.R. grade box for housing a 16 Amp. MCB, the outer surface of the plinth to be finished with 1:3 cement plaster 6 mm thick, the fuse-box shall have a water tight cover, including excavation and refilling etc. complete in all respects as required:-	5			Each	
3	Providing and fixing decorative resin moulded and corrosion IP-55 proof LED post top Luminaries, complete with all accerssories as required complete in all respect.including making connections, testing etc. as required.					

3.01	LED 30 Watt Post Top Lantern	23			Each	
	Make:- K-Light (CatNo:-5351 A9/A11-)/Twinkle/Wipro					
	Total					


 Executive Engineer
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DRAFT SCHEDULE OF QUANTITY

NAME OF WORK: Providing and fixing of Portable Fire Extinguishers in HPCA Cricket Stadium Dharamshala therein.					
		Job No. 09		ESTIMATED COST: Rs.3,19,072/-only. EARNEST MONEY: Rs.6400 /-only TIME ALLOWED: Six Months	
Sr. No.	DESCRIPTION	QTY.	FIGURE S	RATES	
				WORDS	UNIT
1	Providing and Fixing Carbon dioxide CO2 4.5 kg type fire extinguishers ISI mark. CE and EN Certified, consisting of seamless cylindrical body, squeeze lever discharge valve fitted with pressure indicating gauge internal discharge tube, 30cms long high pressure discharge hoase, discharge nozzle, suspension bracket, confirming to IS: 15683 finished externally with red enamel paint and M S Wheel type complete with internal charge as required complete in all respects and to the best satisfaction of Engineer -in-charge.				
	Make: Minimax /CeaseFire/Anshul(Tyco)	26			Each


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