

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

NO.PW.ED.II.GA.TENDER/23-24-
To

2077-79 DATED:- 14/7/23

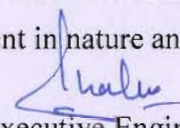
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The Executive Engineer (IT)
Nirman Bhawan HPPWD
Shimla-2

Subject: - **Publication of Tender Notice.**

Sir,

Jai Hind

Please find herewith the tender notice of works as given in the notice inviting tender for uploading on department website as per Notification vide Pr.Secy.(PW) to the Govt.of Himachal Pradesh letter No.PBW(B)1/2020 dated 27th May,2021 and PBW(B)A(3)1/2020 dated 16th July,2021 and even file dated 12.01.2023 as the works mentioned in the tender notice is (are) urgent in nature and in public interest.


Executive Engineer,
Electrical Division No.II
HP PWD, Shimla-1

Copy forwarded to:-

- 1.The Superintending Engineer, Electrical Circle, HP PWD, Shimla-9 for information please.
2. Computer Cell O/O the Executive Engineer (IT Cell) Nigam Vihar Shimla-2

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Executive Engineer,
Electrical Division No.II
HP PWD, Shimla-1

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**
Office of Executive Engineer Electrical Division No-II HPPWD Shimla -171 001
Website: www.hppwd.gov.in e-mail: ee-eled2-hp@nic.in Tel/Fax: 0177-2990187

NOTICE INVITING TENDER

Sealed percentage rate tenders are hereby invited by the Executive Engineer, Electrical Division No. II HPPWD Shimla-1 in form No.6 & 8 on behalf of Governor of H.P. for the following works from the contractors of appropriate class enlisted with HPPWD (Electrical). The tenders shall be opened in the presence of contractors/firms or their authorized representative who wish to be present.

TIME SCHEDULE OF TENDER

(i) Last date of receipt of application:	22.07.2023	Up to 1.00 P.M
(ii) Date of sale of tenders	22.07.2023	Up to 2 PM to 5.00 PM
(iii) Last date of receipt of bids: -	24.07.2023	Upto 10.30 A.M
(iv) Date of bid opening: -	24.07.2023	AT 11.30 A.M

The tender form will be issued to only those contractors who qualify the criteria after the scrutiny of application forms by the committee constituted for the purpose.

Work No. (1) Construction of sub-center building at Kunnu in District Kinnaur. (H.P.) (SH:- Providing E.I. therein.) Estimated cost Rs.2,42,243/- Earnest money Rs.4900/- Time: One year. Cost of form Rs.350/NR

Work No. (2) C/O Combined building for Ayurvedic veterinary dispensary at Charang in District Kinnaur. (H.P.) Estimated cost Rs. 3,04,695/- Earnest money Rs.6100/- Time: One year. Cost of Form Rs.350/NR

Work No.(3) Construction of Govt. Middle School building at Charang in District Shimla . (H.P.) Estimated cost Rs.,4,30,896/- Earnest money Rs. 8700/- Time: One year. Cost of form Rs.350/only

TERMS AND CONDITIONS:-

1. The earnest money in the shape of National Saving certificate. Time deposit account in any of the post office in HP/FDR or any Bank duly pledged in favor of Executive Engineer, Electrical Division No. II, HPPWD, Shimla-1 accompanied with the application for receipt of tender form along with cost of form.
2. The contractor/firm should possess the following documents (photo copy to be self attested with application for obtaining the tenders documents.
 - a) Latest enlistment/renewal orders with application.
 - b) GST Number issued by the Sale Tax Department.
 - c) PAN (Permanent Account Number) issued by the Income Tax Department and copy of EPF issued from competent authority.
3. The Executive Engineer, Electrical Division No.II, HPPWD Shimla-1 reserves the right to reject any tender without assigning any reason(s)
4. The Cess charges @ 1% will be deducted from the gross amount of work done of the contractor.

Contd..P.TO...

5. The work will be completed by the contractor within the stipulated period.
6. The tender shall be issued to only those contractor/firms who are eligible suitable and competent.
7. The tender forms shall be issued to eligible contractors depending upon their past performance and work experience which shall be duly evaluated by the technical evaluation committee.
8. The contractor /firm having necessary documents and past adequate experience shall be preferred.
9. The contractor who has failed to start/complete the work already allotted in his favour within stipulated period shall not be issued tender forms.
10. A contractor enlisted in a particular class be eligible to tender for his own class and one step below
11. Only two number tender forms will be issued to the eligible contractor.
12. If any kind of holiday to be happened, the tender shall be opened on the next working day at 11.30 a.m.
13. GST will be deducted as per rates fixed by the Government.

CERTIFICATE:-

It is to certify that tender for the above works are urgently required.

Executive Engineer,
Electrical Division No.II,
HPPWD, US Club, Shimla-1.

No.PW.ED.II.GA.Tender/2023-2024-

2080-2100

Dated:- 14/7/23

Copy forwarded for information to the:-

1. Chief Engineer (SZ) HPPWD Simla-2
2. The Superintending Engineer, Ist Electrical Circle, HPPWD Shimla-9.
3. Deputy Commissioner Shimla.
4. All the Assistant Engineers working under this Division.
5. All the intending contractors in HPPWD
6. Notice Board.

Executive Engineer,
Electrical Division No.II,
HPPWD, US Club, Shimla-1.

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:- Rs.2,42,243/- only Earnest Money:- Rs.4900/- only Time:- One year							EE
Name of work:- Construction of sub-center building at Kunnu in District Kinnaur. (H.P.) (SH:- Providing electrical installation therein.)							
S.No.	Description of Items	Qty.	Unit	In Figures	Rate In words	Amount	
1.00	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 PVC conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.						
1.01	Group A.	14.00	Point	960.00	Rs. Nine Hundred Sixty only	13440.00	
1.02	Group C.	18.00	Point	1428.00	Rs. One Thousand Four Hundred Twenty Eight only	25704.00	
2.00	Wiring for twin control light 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 PVC conduit, with 2-way 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.						
2.01	Group C.	2.00	Point	1489.00	Rs. One Thousand Four Hundred Eighty Nine only	2978.00	

3.00	Providing and installation of following type of Ultra slim decorative LED Batten with extruded aluminium heat sink, with antiglare polycarbonate diffuser and energy efficient constant current, integral electronic driver, suitable for input voltage: 220-240 V, 50/60 Hz, complete with all accessories, including mounting clips & loop in loop out wire, connections, testing and commissioning etc. as required, with two year warranty. Make: Philips, Twinkle, GE or any other approved by Engineer-in-Charge.					
3.01	LED Batten Light 22 Watt.	13.00	Each	422.00	Rs. Four Hundred Twenty Two only	5486.00
4.00	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	13.00	Each	66.00	Rs. Sixty Six only	858.00
5.00	Providing and installation of following type of LED retrofit lamp B-22 holder base with polycarbonate body and aluminium heat sink; suitable for input voltage: AC 220-240 V, 50/60Hz, including mounting in existing fixture, testing etc. as required complete in all respects. Make: Twinkle, Philips, Bajaj, Syska, Panasonic, Havell's or any other approved by Engineer-in-Charge.					
5.01	LED Retrofit Lamp 10 Watt.	13.00	Each	123.00	Rs. One Hundred Twenty Three only	1599.00

6.00	Providing and installation of following type of LED Street light fitting made of pressure die cast aluminium housing powder coated with weather proof gasket ensuring IP-66 protection complete with all accessories including making connections, testing etc. as required with two years warrenty Make: Twinkle, Philips, GE or any other approved by Engineer-in-Charge.					
6.01	LED Street Light 45 Watt	2.00	Each	3750.00	Rs. Three Thousand Seven Hundred Fifty only	7500.00
7.00	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:-					
7.01	40 mm dia. G.I. pipe, heavy class	2.00	Each	724.00	Rs. Seven Hundred Twenty Four only	1448.00
8.00	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-					
8.01	25 Liter capacity water heater (Cat-A)	2.00	Each	12612.00	Rs. Twelve Thousand Six Hundred Twelve only	25224.00

9.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	2.00	Each	286.00	Rs. Two Hundred Eighty Six only	572.00
10.00	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:-					
10.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3.00	Each	1457.00	Rs. One Thousand Four Hundred Fifty Seven only	4371.00
11.00	Providing & fixing the louvers/shutters complete with frame for exhaust fans of all sizes as required:-					
12.00	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.	3.00	Each	603.00	Rs. Six Hundred Three only	1809.00
13.00	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.	16.00	Each	606.00	Rs. Six Hundred Six only	9696.00
		11.00	Each	780.00	Rs. Seven Hundred Eighty only	8580.00

14.00	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.	1.00	Set	5084.00	Rs. Five Thousand Eighty Four only	5084.00
15.00	Extra for using salt and charcoal for pipe earth electrode complete as required.					
16.00	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing as required.	1.00	Set	1059.00	Rs. One Thousand Fifty Nine only	1059.00
17.00	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing along with existing surface/recessed conduit/sub-main wiring/cable as required.	30.00	Meter	59.00	Rs. Fifty Nine only	1770.00
18.00	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 PVC conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.	160.00	Meter	24.00	Rs. Twenty Four only	3840.00
18.01	2x1.5 Sq. mm.	40.00	Meter	200.00	Rs. Two Hundred only	8000.00
18.02	2x10 Sq. mm.	4.00	Meter	589.00	Rs. Five Hundred Eighty Nine only	2356.00

19.00	Wiring for circuit/sub-main with 4x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.1.5 Sq.mm.(4X1.5+2X1.5) HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	14.00	meter	283.00	Rs. Two Hundred Eighty Three only	3962.00
20.00	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 PVC conduit along with 1 No.1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	70.00	meter	200.00	Rs. Two Hundred only	14000.00
21.00	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 PVC conduit along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	75.00	meter	271.00	Rs. Two Hundred Seventy One only	20325.00
22.00	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 PVC conduit along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	58.00	meter	400.00	Rs. Four Hundred only	23200.00

23.00	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:-						
23.01	Unarmoured cable 10 sq. mm (twin core)	160.00	R.Mtr.	187.00	Rs. One Hundred Eighty Seven only	29920.00	
24.00	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:-						
24.01	Single pole 6 Amp. Cat-A.	6.00	Each	235.00	Rs. Two Hundred Thirty Five only	1410.00	
24.02	Single pole 16 Amp. Cat-A.	11.00	Each	235.00	Rs. Two Hundred Thirty Five only	2585.00	
25.00	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.						
25.01	63 Amps. Cat-A.	2.00	Each	3333.00	Rs. Three Thousand Three Hundred Thirty Three only	6666.00	
26.00	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:-						
26.01	Double pole. 63 Amp. Cat-A.	2.00	Each	1147.00	Rs. One Thousand One Hundred Forty Seven only	2294.00	

27.00	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:-						
27.01	Double door-12 way	1.00	Each	2298.00	Rs. Two Thousand Two Hundred Ninety Eight only	2298.00	
27.02	Double door-16 way	1.00	Each	2985.00	Rs. Two Thousand Nine Hundred Eighty Five only	2985.00	
28.00	Supplying & fixing wooden boxes of following sizes (nominal size) on surface or in recess suitable for fixing phenolic laminated sheet cover in front including painting etc. as required:-						
28.01	203mm.x 254mm.x60mm. deep	2.00	Each	171.00	Rs. One Hundred Seventy One only	342.00	
29.00	Providing and fixing of following type Kit-kat Rewireable (Porcelain Fuse carrier & Base) fuse suitable for input voltage 415 V, 50/60Hz, complete in all respect as required:- Make: L&T, Havells or any other approved by Engineer-in-Charge.						
29.01	Kit-Kat Fuse 63 Amp. 415 Volt	2.00	Each	441.00	Rs. Four Hundred Forty One only	882.00	
	Total:-					242243.00	

*Draft Schedule of quantity approved
for Rs. 2,42,243/- (Rs. Two lakh, forty two thousand, two hundred & forty three hundred only)*

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:- Rs.3,04,695/- only
 Earnest Money:- Rs.6100/- only
 Time:- One Year

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Name of work:- C/O Combined building for Ayurvedic & Veterinary Dispensary at Charang in District Kinnaur. (H.P.)
(SH:- Providing electrical installation therein.)

S.No.	Description of Items	Qty.	Unit	Rate		Amount
				In Figures	In words	
1.00	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 PVC conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
1.01	Group C.	32.00	Point	1428.00	Rs. One Thousand Four Hundred Twenty Eight only	45696.00
2.00	Providing and installation of following type of Ultra slim decorative LED Batten with extruded aluminium heat sink, with antiglare polycarbonate diffuser and energy efficient constant current, integral electronic driver, suitable for input voltage: 220-240 V, 50/60 Hz, complete with all accessories, including mounting clips & loop in loop out wire, connections, testing and commissioning etc. as required, with two year warranty. Make: Philips, Twinkle, GE or any other approved by Engineer-in-Charge.					

2.01	LED Batten Light 22 Watt.	5.00	Each	422.00	Rs. Four Hundred Twenty Two only	2110.00
3.00	Providing and installation of following type of surface/recess mounting round/square LED Downlight finish with drop down PC diffuser to deliver low glare illumination suitable for input heat sink for efficient heat dissipation suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, including making connections, testing and commissioning etc. as required with Two years Warrenty. Make: Philips, Twinkle, GE or any other approved by Engineer-in-Charge.					
3.01	LED Downlight 15 Watt.	3.00	Each	739.00	Rs. Seven Hundred Thirty Nine only	2217.00
3.02	LED Downlight 18 Watt.	8.00	Each	1109.00	Rs. One Thousand One Hundred Nine only	8872.00
4.00	Providing and installation of following type of Surface/Recess mounting square/round type LED Panel Light, powder coated housing made of CRCA sheet, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, including making connections, testing and commissioning etc. as required with two years warrenty. Make: Twinkle, GE, Philips or any other approved by Engineer-in-Charge.					
4.01	LED Panel Light 36 Watt. (Size:- 2' x 2' feet)	5.00	Each	3059.00	Rs. Three Thousand Fifty Nine only	15295.00
5.00	Supplying and fixing call bell / buzzer, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1.00	Each	179.00	Rs. One Hundred Seventy Nine only	179.00

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6.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	2.00	Each	286.00	Rs. Two Hundred Eighty Six only	572.00
7.00	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:-					
7.01	Exhaust Fan, Heavy duty, 300 mm sweep	4.00	Each	3707.00	Rs. Three Thousand Seven Hundred Seven only	14828.00
8.00	Providing & fixing the louvers/shutters complete with frame for exhaust fans of all sizes as required:-					
9.00	Providing and installation of following type of LED Street light fitting made of pressure die cast aluminium housing powder coated with weather proof gasket ensuring IP-66 protection complete with all accessories including making connections, testing etc. as required with two years warranty Make: Twinkle, Philips, GE or any other approved by Engineer-in-Charge., Khaitan, Bajaj, Crompton, Standard or any other approved by Engineer-in-Charge.	4.00	Each	603.00	Rs. Six Hundred Three only	2412.00
9.01	LED Street Light 45 Watt	4.00	Each	3750.00	Rs. Three Thousand Seven Hundred Fifty only	15000.00

10.00	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:-						
10.01	40 mm dia. G.I. pipe, heavy class	4.00	Each	724.00	Rs. Seven Hundred Twenty Four only	2896.00	
11.00	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-						
11.01	15 Liter capacity water heater (Cat-A)	3.00	Each	9527.00	Rs. Nine Thousand Five Hundred Twenty Seven only	28581.00	
12.00	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.	14.00	Each	606.00	Rs. Six Hundred Six only	8484.00	
13.00	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.	10.00	Each	780.00	Rs. Seven Hundred Eighty only	7800.00	

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14.00	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:-						
14.01	32 mm. dia	10.00	Meter	162.00	Rs. One Hundred Sixty Two only	1620.00	
15.00	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.	2.00	Set	5084.00	Rs. Five Thousand Eighty Four only	10168.00	
16.00	Extra for using salt and charcoal for pipe earth electrode complete as required.	2.00	Set	1059.00	Rs. One Thousand Fifty Nine only	2118.00	
17.00	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing as required.	40.00	Meter	59.00	Rs. Fifty Nine only	2360.00	
18.00	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing along with existing surface/recessed conduit/sub-main wiring/cable as required.	120.00	Meter	24.00	Rs. Twenty Four only	2880.00	
19.00	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.	79.00	Meter	200.00	Rs. Two Hundred only	15800.00	
19.01	2x1.5 Sq. mm.	4.00	Meter	589.00	Rs. Five Hundred Eighty Nine only	2356.00	
19.02	2x10 Sq. mm.						

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20.00	Wiring for circuit/sub-main with 4x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.1.5 Sq.mm.(4X1.5+2X1.5) HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	24.00	Meter	283.00	Rs. Two Hundred Eighty Three only	6792.00
21.00	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 PVC conduit along with 1 No.1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	70.00	Meter	200.00	Rs. Two Hundred only	14000.00
22.00	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 PVC conduit along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	80.00	Meter	271.00	Rs. Two Hundred Seventy One only	21680.00
23.00	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 PVC conduit along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	60.00	Meter	400.00	Rs. Four Hundred only	24000.00

24.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, unarmoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-						
24.01	Unarmoured cable 10 sq. mm (twin core)	120.00	R.Mtr.	187.00	Rs. One Hundred Eighty Seven only	22440.00	
25.00	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:-						
25.01	Single pole 6 Amp. Cat-A.	7.00	Each	235.00	Rs. Two Hundred Thirty Five only	1645.00	
25.02	Single pole 16 Amp. Cat-A.	10.00	Each	235.00	Rs. Two Hundred Thirty Five only	2350.00	
26.00	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.						
26.01	63 Amps. Cat-A.	2.00	Each	3333.00	Rs. Three Thousand Three Hundred Thirty Three only	6666.00	
27.00	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:-						

27.01	Double pole. 63 Amp. Cat-A.	2.00	Each	1147.00	Rs. One Thousand One Hundred Forty Seven only	2294.00
28.00	Providing and installation of Under Voltage & Over Voltage Protection Device for Protection against voltage parameters changes that trips the attached circuit breaker during Under Voltage fault i.e. less than 170 Volt & Over Voltage fault greater than 250 Volt, so that the equipments are protected from under & over voltage complete including making connections, testing and commissioning etc. as required, Make: Havells. L&T, Schneider or any other approved by Engineer-in-Charge.					
28.01	Single Phase Under Voltage & Over Voltage Protection 240 Vac	2.00	Each	1695.00	Rs. One Thousand Six Hundred Ninety Five only	3390.00
29.00	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:-					
29.01	Double door-16 way	2.00	Each	2985.00	Rs. Two Thousand Nine Hundred Eighty Five only	5970.00
30.00	Providing and fixing of following type Kit-kat Rewireable (Porcelain Fuse carrier & Base) fuse suitable for input voltage 415 V, 50/60Hz, complete in all respect as required:- Make: L&T, Havells or any other approved by Engineer-in-Charge.					

30.01	Kit-Kat Fuse 63 Amp. 415 Volt	2.00	Each	441.00	Rs. Four Hundred Forty One only	882.00
31.00	Supplying & fixing wooden boxes of following sizes (nominal size) on surface or in recess suitable for fixing phenolic laminated sheet cover in front including painting etc. as required:-					
31.01	203mm.x 254mm.x60mm. deep	2.00	Each	171.00	Rs. One Hundred Seventy One only	342.00
	Total:-					304695.00

Draft Schedule of quantity approved

For Rs 3,04,695/- only (Rs Three Lakhs, four thousand

six hundred, & ninety five only)

Value
 Executive Engineer,
 Electrical Division No.-II,
 HP PWD (S. Club) Shimla-I

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:- Rs.4,30,896/- only

Earnest Money:- Rs.8700/- only

Time:- One Year

EEJ

Name of work:- Construction of Government Middle School building at Charang in District Kinnaur. (H.P.) (SH:- Providing electrical installation therein.)

S.No.	Description of Items	Qty.	Unit	In Figures	Rate In words	Amount
1.00	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 PVC conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
1.01	Group C.	78.00	Point	1428.00	Rs. One Thousand Four Hundred Twenty Eight only	111384.00
2.00	Wiring for twin control light 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 PVC conduit, with 2-way 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.					
2.01	Group C.	4.00	Point	1489.00	Rs. One Thousand Four Hundred Eighty Nine only	5956.00

3.00	Providing and installation of following type of Ultra slim decorative LED Batten with extruded aluminium heat sink, with antiglare polycarbonate diffuser and energy efficient constant current, integral electronic driver, suitable for input voltage: 220-240 V, 50/60 Hz, complete with all accessories, including mounting clips & loop in loop out wire, connections, testing and commissioning etc. as required, with two year warranty. Make: Philips, Twinkle, GE or any other approved by Engineer-in-Charge.	46.00	Each	422.00	Rs. Four Hundred Twenty Two only	19412.00
3.01	LED Batten Light 22 Watt.					
4.00	Providing and installation of surface mounted, LED Bulk head Fitting IP65 protection, comprising of high brightness LEDs, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, including making connections, testing and commissioning etc. as required with Two years warranty. Make: Twinkle, Philips, GE or any other approved by Engineer-in-Charge.					
4.01	LED Bulk Head Fitting 10 Watt.	12.00	Each	1069.00	Rs. One Thousand Sixty Nine only	12828.00
5.00	Providing and installation of following type of Surface/Recess mounting square/round type LED Panel Light, powder coated housing made of CRCA sheet, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, including making connections, testing and commissioning etc. as required with two years warranty. Make: Twinkle, GE, Philips or any other approved by Engineer-in-Charge.					
5.01	LED Panel Light 36 Watt. (Size:- 2' x 2' feet)	6.00	Each	3059.00	Rs. Three Thousand Fifty Nine only	18354.00
6.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	3.00	Each	286.00	Rs. Two Hundred Eighty Six only	858.00

7.00	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:-						
7.01	Exhaust Fan, Heavy duty, 300 mm sweep	9.00	Each	3707.00	Rs. Three Thousand Seven Hundred Seven only	33363.00	
8.00	Providing & fixing the louvers/shutters complete with frame for exhaust fans of all sizes as required:-						
9.00	Providing and installation of following type of LED Street light fitting made of pressure die cast aluminium housing powder coated with weather proof gasket ensuring IP-66 protection complete with all accessories including making connections, testing etc. as required with two years warranty Make: Twinkle, Philips, GE or any other approved by Engineer-in-Charge., Khaitan, Bajaj, Crompton, Standard or any other approved by Engineer-in-Charge.	9.00	Each	603.00	Rs. Six Hundred Three only	5427.00	
9.01	LED Street Light 45 Watt	4.00	Each	3750.00	Rs. Three Thousand Seven Hundred Fifty only	15000.00	
10.00	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:-						
10.01	40 mm dia. G.I. pipe, heavy class	4.00	Each	724.00	Rs. Seven Hundred Twenty Four only	2896.00	

11.00	Supplying and fixing electrical switch board, having 4 No. of 5/6 amp. Modular Switches and Modular Socket on suitable size of G.I. modular boxes of 12 modules 205mmx135mmx60mm) deep (nominal size) on surface or in recess with suitable size along with modular base and cover plate for modular switches in the front including providing and fixing 4 No. 5 pin 5/6 amp modular socket outlet and 5/6 amp modular switch, connection, painting etc.as required. (For Light Plug/Computer Points)	9.00	Each	1631.00	Rs. One Thousand Six Hundred Thirty One only	14679.00
12.00	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.	8.00	Each	606.00	Rs. Six Hundred Six only	4848.00
13.00	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.	6.00	Each	780.00	Rs. Seven Hundred Eighty only	4680.00
14.00	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:-					
14.01	32 mm. dia	10.00	Meter	162.00	Rs. One Hundred Sixty Two only	1620.00
15.00	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.	1.00	Set	5084.00	Rs. Five Thousand Eighty Four only	5084.00

16.00	Extra for using salt and charcoal for pipe earth electrode complete as required.	1.00	Set	1059.00	Rs. One Thousand Fifty Nine only	1059.00
17.00	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing as required.	30.00	Meter	59.00	Rs. Fifty Nine only	1770.00
18.00	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing along with existing surface/recessed conduit/sub-main wiring/cable as required.	140.00	Meter	24.00	Rs. Twenty Four only	3360.00
19.00	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.	120.00	Meter	200.00	Rs. Two Hundred only	24000.00
19.01	2x1.5 Sq. mm.	73.00	Meter	230.00	Rs. Two Hundred Thirty only	16790.00
19.02	2x2.5 Sq. mm.	10.00	Meter	338.00	Rs. Three Hundred Thirty Eight only	3380.00
19.03	2x6.0 Sq. mm.	1.00	Meter	589.00	Rs. Five Hundred Eighty Nine only	589.00
19.04	2x10 Sq. mm.	1.00	Meter	742.00	Rs. Seven Hundred Forty Two only	742.00
19.05	2x16 Sq. mm.					

20.00	Wiring for circuit/sub-main with 4x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.1.5 Sq.mm.(4X1.5+2X1.5) HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	40.00	Meter	283.00	Rs. Two Hundred Eighty Three only	11320.00
21.00	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 PVC conduit along with 1 No.1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	40.00	Meter	200.00	Rs. Two Hundred only	8000.00
22.00	Wiring for circuit/sub-main with 4x2.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.2.5 Sq.mm.(4X2.5+2X2.5) HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	54.00	Meter	318.00	Rs. Three Hundred Eighteen only	17172.00
23.00	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 PVC conduit along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	48.00	Meter	271.00	Rs. Two Hundred Seventy One only	13008.00
24.00	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 PVC conduit along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	36.00	Meter	400.00	Rs. Four Hundred only	14400.00
25.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, unarmoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-					

25.01	Unarmoured cable 6 sq. mm (twin core)	60.00	R. Mtr.	173.00	Rs. One Hundred Seventy Three only	10380.00
25.02	Unarmoured cable 16 sq. mm (twin core)	60.00	R. Mtr.	203.00	Rs. Two Hundred Three only	12180.00
26.00	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:-					
26.01	Single pole 6 Amp. Cat-A.	11.00	Each	235.00	Rs. Two Hundred Thirty Five only	2585.00
26.02	Single pole 10 Amp. Cat-A.	9.00	Each	235.00	Rs. Two Hundred Thirty Five only	2115.00
26.03	Single pole 16 Amp. Cat-A.	6.00	Each	235.00	Rs. Two Hundred Thirty Five only	1410.00
27.00	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.					
27.01	40 Amps. Cat-A.	2.00	Each	2447.00	Rs. Two Thousand Four Hundred Forty Seven only	4894.00
27.02	63 Amps. Cat-A.	1.00	Each	3333.00	Rs. Three Thousand Three Hundred Thirty Three only	3333.00
28.00	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:-					
28.01	Double pole. 40 Amp. Cat-A.	2.00	Each	1147.00	Rs. One Thousand One Hundred Forty Seven only	2294.00

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28.02	Double pole. 63 Amp. Cat-A.	1.00	Each	1147.00	Rs. One Thousand One Hundred Forty Seven only	1147.00
29.00	Providing and installation of Under Voltage & Over Voltage Protection Device for Protection against voltage parameters changes that trips the attached circuit breaker during Under Voltage fault i.e. less than 170 Volt & Over Voltage fault greater than 250 Volt, so that the equipments are protected from under & over voltage complete including making connections, testing and commissioning etc. as required, Make: Havells, L&T, Schneider or any other approved by Engineer-in-Charge.					
29.01	Single Phase Under Voltage & Over Voltage Protection 240 Vac	3.00	Each	1695.00	Rs. One Thousand Six Hundred Ninety Five only	5085.00
30.00	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:-					
30.01	Double door-12 way	1.00	Each	2298.00	Rs. Two Thousand Two Hundred Ninety Eight only	2298.00
30.02	Double door-16 way	2.00	Each	2985.00	Rs. Two Thousand Nine Hundred Eighty Five only	5970.00
31.00	Providing, fixing and installation of following rating and breaking capacity MCCB with SS Enclosure, suitable for input voltage: 240 Volt AC, 50 Hz, Conforms to IS/IEC 60947-2 & IEC 60947-2 complete with all accessories, including making connections, testing and commissioning etc. as required, Make: L&T, Havells, Standard, Schneider or any other approved by Engineer-in-Charge.					
31.01	MCCB DY125U 2-Pole 100 Amp.Breaking Capacity 25KA with SS Enclosure	1.00	Each	3666.00	Rs. Three Thousand Six Hundred Sixty Six only	3666.00

32.00	Providing and fixing of following type Kit-kat Rewireable (Porcelain Fuse carrier & Base) fuse suitable for input voltage 415 V, 50/60Hz. complete in all respect as required:- Make: L&T, Havells or any other approved by Engineer-in-Charge.					
32.01	Kit-Kat Fuse 63 Amp. 415 Volt	1.00	Each	441.00	Rs. Four Hundred Forty One only	441.00
32.02	Kit-Kat Fuse 100 Amp. 415 Volt	1.00	Each	777.00	Rs. Seven Hundred Seventy Seven only	777.00
33.00	Supplying & fixing wooden boxes of following sizes (nominal size) on surface or in recess suitable for fixing phenolic laminated sheet cover in front including painting etc. as required:-					
33.01	203mm. x 254mm. x60mm. deep	2.00	Each	171.00	Rs. One Hundred Seventy One only	342.00
	Total:-					430896.00

*Draft schedule of quantity approved
for Rs. 4,30,896/- only (Rs. Four Lakh, Thirty
Thousand, eight hundred & Ninety six only.)*

Hulwa
Executive Engineer,
Electrical Division No.-II,
HP PWD (U&C) Shimla-I