

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER

Sealed Item / Percentage rate tender on Form No. 6&8 are invited by the Executive Engineer, Electrical Division, HPPWD, Mandi (H.P.) for the following works for Sr No. 1 to 10 from approved and eligible contractors enlisted in appropriate class in HPPWD (Electrical) department having valid Electrical license, and for work at Sr No. 11 from the eligible contractors enlisted in appropriate class with similar work experience i.e installation of Air conditioners having similar work experience not less than 40% of estimated cost of the work, so as to reach in his office on or before 28.07.2023 up to 10.30 A.M. and will be opened on the same day at 11:00 A.M in the presence of intending contractors or their authorized representatives. The application for issuing of tender form will be received in his office against cash payment Rs. 350/- (Non-refundable) for each work on or before 27.07.2023 up to 01:00 P.M. and the tender forms can be had from his office on same day. The application for the purchase of the tender documents should be accompanied with earnest money of each work separately in the shape of National Saving Certificate/FDR/ Call Deposit / Bank draft of any Schedule Bank / Post Office duly pledged in favour of the Executive Engineer, Electrical Division, HP.PWD, Mandi (H.P.). Conditional tenders and the tenders received without earnest money will be rejected. The receipt of application for issue of tender forms by post shall not be entertained / considered in any case. The tender forms shall be issued to registered Contractors or their authorized representatives. The copy of enlistment / renewal order and valid Electrical License shall be attached with the application for purchase the tender document.. The ambiguous / telegraphic / conditional / fax / E-mail or by post tenders shall also not be entertained / considered in any case. The tender shall be issued to those Contractors / Firms who are found eligible, suitable and competent. The decision of the Executive Engineer regarding suitability / eligibility / competency of Contractors/ Firms shall be final binding on the Contractors / Firms applying for the issuing of the tender. The offer for the tenders shall be kept open for 120 days. The Executive Engineer reserves the right to reject the tender without assigning any reasons, if there happens to be any holiday the same will be opened on next working day.

Work No. 1:- C/o Health Sub Centre Building at Bandrupa Tehsil -Sarkaghat District Mandi HP (SH: Providing EI therein) Estimated Cost: Rs. 121520/- only. Earnest money: Rs. 2450/- only, Time allowed: - Along with civil work.

Work No. 2:- Providing earthing and safety Device in Indoor Sports Complex at Paddal Ground District Mandi Estimated Cost: Rs. 260110/-only. Earnest money: Rs. 5200/- only, Time allowed: - Fifteen Days

Work No. 3:- C/o Ayurvedic Health Centre at Jwalapur Tehsil Aut District Mandi (SH: Providing EI therein) Balance Work. Estimated Cost: Rs. 179493/-only. Earnest money: Rs. 3600/- only, Time allowed: - Along with civil work.

Work No. 4:- Rewiring of Veterinary Hospital Building at Shivabadar, District Mandi HP. Estimated Cost: Rs. 102778/-only. Earnest money: Rs. 2100/- only, Time allowed: - One Month.

Work No. 5:- C/o Type-V Residential Quarter to Directorate of Technical Education at Sunder Nagar . District Mandi HP (SH: Providing EI therein) Estimated Cost: Rs. 433785/-only. Earnest money: Rs. 8700/- only, Time allowed: - Along with civil work.

Work No. 6:- C/o Additional Accommodation of Judicial Court Complex Kullu HP (SH: Providing EI in 3rd floor therein) Estimated Cost: Rs. 324204/- only. Earnest money: Rs. 6500/- only, Time allowed: - Along with civil work.

Work No. 7:- Repair Maintenance of EI in various Non -Residence buildings at Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk District Mandi (SH: Replacement and maintenance of damaged EI accessories in Nursing Hostel, Hospital illumination and admin block therein) Estimated Cost: Rs. 290870/-only. Earnest money: Rs. 5820/- only, Time allowed: - Two Months

Work No. 8:- C/o Armory Building (Residence) at 3rd IRBN Pandoh District Mandi HP (SH: Providing EI therein) Estimated Cost: Rs. 225654/-only. Earnest money: Rs. 4550/- only, Time allowed: - Along with civil work.

Work No. 9:- Repair Maintenance of EI in various Non -Residence buildings at Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk District Mandi (SH: Replacement and maintenance of damaged / Worn out Old CFL Lights with LED's of High Mast near Hostel Chowk along with SOP) Estimated Cost: Rs. 392246/-only. Earnest money: Rs. 7845/- only, Time allowed: - Two Months

Work No. 10:- Providing EI in Girls Hostel Toilet Block in Sarkaghat, Tehsil Sarkaghat, District Mandi Estimated Cost: Rs. 153526/-only. Earnest money: Rs. 3100/- only, Time allowed: - Along with civil work.

Work No. 11:- C/o Additional Accommodation A and B for District Library Kullu Tehsil and District Kullu HP (SH: Providing and fixing 2 tone Air conditioners therein)) Estimated Cost: Rs. 484880/-only. Earnest money: Rs. 9700/- only, Time allowed: - One Month

CERTIFICATE:-

It is Certified that tender of above works are invited without press notice due to exigency of works in public interest.


Executive Engineer
Electrical Division
HPPWD, Mandi (H.P.)

NOTE:-

1. No contractor or his accredited agent shall be permitted to participate in the competition unless he holds a valid wiring license and have been duly registered in appropriate class in the HPPWD Department (Electrical)
2. No person or persons other than the contractor shall be issued tender documents unless he/they hold power of attorney duly registered under law. The tender of those contractors who are registered as dealer under H.P. General Sales Tax Act 1968 / GST and who have cleared all dues on accounts of tax will be entertained only.
3. The rates must be quoted in percentage (Above / Below) to the amount put to tender both in figures as well as in words otherwise tender will not be considered.
4. The eligible contractor should submit performance certificate for specialized jobs as required
5. Conduit pipe is to be laid simultaneously with the progress of civil work, wherever applicable
6. The tendered amount should be within the limit of(+) 5% to (-) 10%. Notification dated 07.10.2021 shall be applicable for Bid price lower than -10% and more than +5%.


Executive Engineer
Electrical Division
HPPWD, Mandi (H.P.)

No.PW-MED/TA/NIT/2023-2024-- 3083-99

Dated: 18-07-23

Copy forwarded to the following for information please:-

1. The Engineer-in-Chief, HPPWD, Nirman Bhawan, Nigam Vihar Shimla-1.
2. The Deputy Commissioner, Mandi District – Mandi H.P.
3. The Chief Engineer (Mandi Zone), HPPWD, Mandi.
4. The Superintending Engineer, 3rd Electrical Circle, HPPWD, Mandi HP
5. ~~The Executive Engineer (IT) o/o Engineer-in-Chief, HPPWD, Shimla through email: cc-pwd-hp@nic.in a/w copies of Schedule of Quantities for uploading the same on HPPWD web portal.~~
6. The Sub Divisional Officer(Civil), Mandi District – Mandi H.P.
7. The Commissioner, Municipal Corporation, Mandi District – Mandi HP
8. All the Assistant Engineers (Elect.) under this Division.
9. All the Heads of Branches in this office.
10. Notice Board


Executive Engineer
Electrical Division
HPPWD, Mandi (H.P.)

Job-1	Estimated cost :- Rs. 1,21,520/- only	
	Earnest money :- Rs. 2450 /- only	
	Time :- Along With Civil Work	

Draft Schedule of Quantity

Name of Work:- C/O Health Sub Centre building at Bandrupa Teh. Sarkaghat Distt Mandi (H.P) SH. Providing E.I there in

Sr No.	Description	Qty.	Rate	Rate in Words	Unit	Amount.
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 PVC conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required complete in all respect Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	12	880.00	Rupees Eight Hundred Eighty Only	Each	10560
	Group A.					
	Group C	9	1294.00	Rupees One Thousand Two Hundred NinetyFour Only	Each	11646
2	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 complete in all respect Make: ANCHOR , CONA , ESS ESS KAY .	8	314	Rupees Three Hundred Fourteen Only	Each	2512
3	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 complete in all respect Make: ANCHOR , CONA , ESS ESS KAY .	6	489.00	Rupees Four Hundred EightyNine Only	Each	2934
4	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required complete in all respect. Make: ANCHOR , CONA , ESS ESS KAY .	1	281.00	Rupees Two Hundred EightyOne Only	Each	281
5	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 Complete in all respect Make : Usha / Havells / Bajaj /Anchor Panasonic.					0
	Ceiling Fan 1200 mm sweep, Category-A	3	2655.00	Rupees Two Thousand Six Hundred FiftyFive Only	Each	7965
6	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 complete in all respect Make : Usha / Havells / Bajaj / Anchor Panasonic.				0	0
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	3	2244.00	Rupees Two Thousand Two Hundred FortyFour Only	Each	6732

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 complete in all respect. Make : L&T / Legrand / Siemens/ Hevels.					0	0
	Single pole. Cat-A.		10 284.00		Rupees Two Hundred EightyFour Only	Each	2840
8	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 complete in all respect. Make : L&T / Legrand / Siemens/ Hevels.				0	0	0
	Double pole. Cat-A.		2 1324.00		Rupees One Thousand Three Hundred TwentyFour Only	each	2648
9	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 complete in all respect. Make : L&T / Legrand / Siemens/ Hevels.				0	0	0
	Double door-6 way		1 2073.00		Rupees Two Thousand SeventyThree Only	Each	2073
	Double door-12 way		1 2711.00		Rupees Two Thousand Seven Hundred Eleven Only	Each	2711
10	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. Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI				0	0	0
	(i) 2x1.5 Sq. mm.		30 215.00		Rupees Two Hundred Fifteen Only	P/Mtr.	6450
	(ii) 2x4.0 Sq. mm.		40 329.00		Rupees Three Hundred TwentyNine Only	P/Mtr.	13160
	(iii) 2x6.0 sq.mm.		10 454.00		Rupees Four Hundred FiftyFour Only	P/Mtr.	4540
11	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:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI		25 556.00		Rupees Five Hundred FiftySix Only	P/Mtr.	13900
12	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:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI						
	3x1.5 Sq. mm.		15 98.00		Rupees NinetyEight Only	P/Mtr.	1470

13	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	5237.00	Rupees Five Thousand Two Hundred Thirty Seven Only	Each	5237
14	Extra for using salt and charcoal for pipe earth electrode complete as required.	1	1493.00	Rupees One Thousand Four Hundred Ninety Three Only	Each	1493
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	10	47.00	Rupees Forty Seven Only	P/Mtr.	470
16	Supplying and fixing brass batten/angle holder including connections etc. as required complete in all respect.	4	88.00	Rupees Eighty Eight Only	Each	352
17	Providing and fixing Glazed LED 22 watt Batten High quality design aluminium extruded with decorative end caps complete with Connection, testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / Havells/Anchor Panasonic.	7	608.00	Rupees Six Hundred Eight Only	Each	4256
18	Providing and fixing LED Bulk Head luminaires 10 watt energy efficient for upgrading conventional GLS Bulk Head luminaires to LED Bulk Head IP 65 luminaires complete with Connection, testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / Havells/Anchor Panasonic.	2	1474.00	Rupees One Thousand Four Hundred Seventy Four Only	Each	2948
19	Providing and fixing Surface mounted Square LED downlight 12 Watt with Al die-cast body finish with drop down PC diffuser to deliver low glare illumination with optimized heat sink for efficient heat dissipation complete with Connection, testing commissioning etc. as required in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / Havells/Anchor Panasonic.	1	1015.00	Rupees One Thousand Fifteen Only	Each	1015
20	Supplying and fixing of LED wall bracket including making connections, testing etc. as required complete in all respect. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / Havells/Anchor Panasonic.	1	840.00	Rupees Eight Hundred Forty Only	Each	840
21	Providing and fixing LED BULB 10 W B22 / E27/E14 base cap connections, etc. as required complete in all respects. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / Hevels.	5	314.00	Rupees Three Hundred Fourteen Only	Each	1570
22	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 complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Racold / Bajaj / Usha.					
	10 Liter capacity water heater (Cat-A)	1	10917.00	Rupees Ten Thousand Nine Hundred Seventeen Only	Each	10917
				TOTAL		121520

Draft schedule of quantity checked and approved for Rs. 121520/- only.

Executive Engineer
Electrical Division

HPWD Mandi (H.P.)

Job- 

Estimated Cost :- Rs. 260110/- Only
 Earnest Money :- Rs. 5200/- Only
 Time :- Fifteen Days.

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK: Providing earthing and Safety device in Indoor Sports Complex at Paddel ground Mandi District Mandi H.P.

S.No.	Description	Qty.	Rate		Unit	Amount
			In Figure	In Words		
1	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.HRFR/PVC insulated single core copper conductor cable of same size for earthing as required complete in all respect. Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .	150	143.00	Rupees One Hundred FourtyThree Only	Per Metre	21450.00
i)	2x1.5 Sq. mm.	150				
ii)	2 core cable.	150	250.00	Rupees Two Hundred Fifty Only	Per Metre	37500.00
2	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 5 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required complete in all respect as per entire satisfaction Of Engineer In Charge. Make- ESS KAY / CONA /ANCHOR	30	269.00	Rupees Two Hundred SixtyNine Only	Each	8070.00
3	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 complete in all respect. Make- ESS KAY / CONA /ANCHOR.	6	434.00	Rupees Four Hundred ThirtyFour Only	Each	2604.00
4	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 complete in all respect. Make : L&T / Legrand / SIEMENS.	2	1236.00	Rupees One Thousand Two Hundred ThirtySix Only	Each	2472.00
	Double pole Cat-A.					
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 complete in all respect. Make : L&T / Legrand / SIEMENS.	2	423.00	Rupees Four Hundred TwentyThree Only	Each	846.00
6	Single Door 4 Way Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required complete in all respect as per entire satisfaction of Engineer-in-Charge.Copper (Pure).	7	11800.00	Rupees Eleven Thousand Eight Hundred Only	Per Set	82600.00

7	Extra for using salt and charcoal for G.I. or copper plate earth electrode complete as required complete in all respect as per entire satisfaction of Engineer- in- Charge.	7	Set	1824.00	Rupees One Thousand Eight Hundred TwentyFour Only	Per Set	12768.00
8	Supplying and laying 8 SWG Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required complete in all respect as per entire satisfaction of Engineer- in- Charge.	450	Metre	204.00	Rupees Two Hundred Four Only	Per Metre	91800.00
		TOTAL					260110.00

*Draft schedule of Quantity checked
and approved for RS. 260110/- only.*

H.
Executive Engineer,
Electrical Division,
HPWD Mandi *D*

Job-3

Draft Schedule of quantity									
NAME OF WORK :- C/o Ayurvedic Health Center at Jwallapur Tehsil Aut Distt. Mandi (H.P) (SH:- Balance work)									
Sr. No.	Description	Qty.	Rate		Units	Amount			
			In figure	In words					
1	Supplying & fixing 36 Watt Surface mounted LED panel made from extruded aluminium housing (surface) 2ft x 2ft complete with all accessories ,connections, testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make : Wipro / Bajaj / Phillips / Twinkle.	5	Nos	3896.00	Rupees Three Thousand Eight Hundred NinetySix Only	Each	19480.00		
2	Supplying & fixing 24 Watt Ultra slim LED panel made from extruded aluminium housing frame Surface/recess/pendant)1ft x1ft approx complete with all accessories ,connections, testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make : Wipro / Bajaj / Phillips / Twinkle.	8	Nos	2073.00	Rupees Two Thousand SeventyThree Only	Each	16584.00		
3	Providing and fixing 36 Watt T-5 Indoor decorative LED BATTEN WITH EXTRUCTED ALUMINIUM HOUSING AND OPAL DIFFUSER including LED Rod complete with connections, testing and commissioning as required complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Wipro / Bajaj / Phillips / Twinkle.	6	Nos	2757.00	Rupees Two Thousand Seven Hundred FiftySeven Only	Each	16542.00		
4	Providing and fixing 18 Watt T-5 Indoor decorative LED BATTEN WITH EXTRUCTED ALUMINIUM HOUSING AND OPAL DIFFUSER including LED Rod complete with connections, testing and commissioning as required complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Wipro / Bajaj / Phillips / Twinkle.	9	Nos	544.00	Rupees Five Hundred FortyFour Only	Each	4896.00		
5	Supplying and fixing LED lamo 5 Watt including connections, testing and commissioning etc. as required complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Twinkle.	10	Nos	163.00	Rupees One Hundred SixtyThree Only	Each	1630.00		
6	Providing and fixing LED 30 watt Street Light with lens made up of pressure die cast aluminium housing and enclosed with toughened glass IP66 luminair complete with connection, testing commissioning etc as required in all respect complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Wipro / Twinkle. / Bajaj / Led Lum.	4	Nos	2581.00	Rupees Two Thousand Five Hundred EightyOne Only	Each	10324.00		
7	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 complete in all respect as per entire satisfaction of Engineer- in- Charge.	4	Nos	468.00	Rupees Four Hundred SixtyEight Only	Each	1872.00		
8	32 mm dia. G.I. pipe, heavy class								
	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 complete in all respect	8	Nos	2058.00	Rupees Two Thousand FiftyEight Only	Each	16464.00		
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Bajaj , Usha, Make.								

9	Supplying and fixing Recessed mounting LED sleek round down lighter with high efficient LED's and glare free opal 15 Watt including connections, etc. as required complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Wipro / Bajaj / Phillips / Twinkle.	7	Nos	1030.00	Rupees One Thousand Thirty Only	Each	7210.00
10	Supplying & fixing Mirror light comprising of cylindrical opal glass complete with all accessories ,connections, testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make : Wipro / Bajaj / Phillips / Twinkle.	2	Nos	1719.00	Rupees One Thousand Seven Hundred Nineteen Only	Each	3438.00
11	Supplying and fixing of 1.5 tone capacity split type Inverter Hot and Cold AC,including copper pipe ,drain pipe and stand for out door AC unit complete with installation connection etc. as required complete in all respect.	1	No	81053.00	Rupees EightyOne Thousand FiftyThree Only	Each	81053.00
Total							179493.00

Draft schedule, at Quantity checked and approved for RS. 1,79,493/- only

Executive Engineer,
Electrical Division,
HPPWD Mandi

D

2

Job-4

Estimated Cost :- Rs. 1,02,778/- Only

Earnest Money :- Rs.2100/- Only

Time :- One Month.

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK:- Rewiring of Veterinary Hospital Building at Shivabadar Distt Mandi H.P.

NAME OF WORK:- Rewiring of Veterinary Hospital Building at Shivabadar Distt Mandi H.P.		Description		Qty.		Rate		Unit	Amount
S.No.						In Figure	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 PVC casing & capping and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required complete in all respect. i) Group C. Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	17	Nos	951.00	Rupees Nine Hundred FiftyOne Only	Each	16167.00		
2.00	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.complete in all respect Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.								
2.01	2x1.5 Sq. mm.	45	Metre	182.00	Rupees One Hundred EightyTwo Only	Per Metre	8190.00		
2.02	2x4.0 Sq. mm.	70	Metre	297.00	Rupees Two Hundred NinetySeven Only	Per Metre	20790.00		
2.03	2x6.0 Sq. mm.	5	Metre	386.00	Rupees Three Hundred EightySix Only	Per Metre	1930.00		
3.00	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 complete in all respect .Make :- ESSESS KEY / COSMO /ANCHOR	5	Nos.	304.00	Rupees Three Hundred Four Only	Each	1520.00		
4.00	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 5 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required. complete in all respect .Make :- ESSESS KEY / COSMO /ANCHOR	6	Nos.	480.00	Rupees Four Hundred Eighty Only	Each	2880.00		
5.00	Supplying and fixing box of 200mm x150mm x 75mm size with phenolic laminated sheet cover in recess including providing and fixing 3 nos. 6 pin 5/6 Amps piano type socket outlet 3Nos 5/6 Amps switch connections etc.as required complete in all respect .Make- ESS / KAY / COSMO/Anchor	1	No.	545.00	Rupees Five Hundred FourtyFive Only	Each	545.00		
6.00	Supplying and fixing bakelite batten/angle holder including connections etc. as required complete in all respect .Make: Anchor , CONA , ESS ESS KAY .	5	Nos.	85.00	Rupees EightyFive Only	Each	425.00		
7.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase,230 volts complete as required complete in all respect. Make: ANCHOR , CONA , ESS ESS KAY .	1	No.	240.00	Rupees Two Hundred Fourty Only	Each	240.00		

8.00	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 complete in all respect. i) Ceiling Fan 1200 mm sweep, Category-A Make: Bajaj , Usha, Anchor Panasonic.	3	Nos.	2645.00	Rupees Two Thousand Six Hundred FortyFive Only	Each	7935.00
9.00	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 complete in all respect. i) Exhaust Fan, Light duty, (Domestic) 300 mm sweep Make: Bajaj , Usha, Anchor Panasonic.	1	No.	2224.00	Rupees Two Thousand Two Hundred TwentyFour Only	Each	2224.00
10.00	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 complete in all respect. i) Single pole. Cat-A. Make : L&T / Legrand / Siemens.	9	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	2529.00
11.00	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 complete in all respect. i) Double pole Cat-A Make : L&T / Legrand / Siemens.	1	No.	1320.00	Rupees One Thousand Three Hundred Twenty Only	Each	1320.00
12.00	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, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required complete in all respect. i) Double door-12 way Make L&T / LEGRAND / SIEMENS.	1	No.	2693.00	Rupees Two Thousand Six Hundred NinetyThree Only	Each	2693.00
13.00	Providing and fixing LED 20 watt High quality design PC Batten with decorative end caps complete with Connection,testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge. Make:-Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / Anchor Panasonic.	5	Nos	549.00	Rupees Five Hundred FortyNine Only	Each	2745.00
14.00	Providing and fixing LED SURFACE/RECESS/PENDENT 1X1 20 watt Square pannel with aluminium die cast housing of superior quality complete with Connection,testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max, Hevelis .	2	Nos	2360.00	Rupees Two Thousand Three Hundred Sixty Only	Each	4720.00
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 complete as required complete in all respect.	1	Set	5126.00	Rupees Five Thousand One Hundred TwentySix Only	Per Set	5126.00
16.00	Extra for using salt and charcoal for pipe earth electrode complete as required complete in all respect.	1	Set	1493.00	Rupees One Thousand Four Hundred NinetyThree Only	Per Set	1493.00
17.00	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required complete in all respect.	30	Metre	46.00	Rupees FortySix Only	Per Metre	1380.00
18.00	Supplying and fixing 25 Watt LED Street light in aluminium pressure die cast housing with toughened glass cover (IP66 rating) complete with all accessories, connections, testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge. (Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max ,Hevelis)	2	Nos	2361.00	Rupees Two Thousand Three Hundred SixtyOne Only	Each	4722.00

19.00	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 complete in all respect. i) 40 mm dia. G.I. pipe, heavy class	2	Nos	720.00	Rupees Seven Hundred Twenty Only	Each	1440.00
21.00	Providing and Fixing LED 9 Watt in the existing holder as required complete in all respect Make : Wipro / Bajaj / Philips / Jaquar / (Twinkle) Lux Max	5	Nos.	179.00	Rupees One Hundred SeventyNine Only	Each	895.00
22.00	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 complete in all respect as per entire satisfaction of Engineer- in- Charge. i) 10 Liter capacity water heater (Cat-A) Make : Racold / Bajaj / Usha.	1	No	10869.00	Rupees Ten Thousand Eight Hundred SixtyNine Only	Each	10869.00
Total							102778.00

*Draft Schedule of Quantity checked
and approved for RS. 102778/- only*

pt.
Executive Engineer,
Electrical Division,
HP.PWD, Mandi (HP)

D

Job- 5							Estimated Cost :- Rs. 4,33,785/- Only
							Earnest Money :- Rs.8700 /- Only
							Time :- Along with civil work.
DRAFT SCHEDULE OF QUANTITY							
Name of work:- CoType V residential qtr to Directorate of Technical Education at Sunder Nagar Distt Mandi (SH:Providing E.I. there in)							
S.No.	Description	Qty.	Rate		Unit	Amount	
			In Figure	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 (HRRF) 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. HRRFSL/PVC insulated single core copper conductor cable as required, complete in all respect. i) Group B Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI/L&T	62	987.00	Rupees Nine Hundred EightySeven Only	Each	61194.00	
2.00	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 complete in all respect. ESS ESS KAY/COSMO/Anchor/L&T.	23	439.00	Rupees Four Hundred ThirtyNine Only	Each	10097.00	
3.00	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 complete in all respect. ESS ESS KAY/COSMO/Anchor/L&T.	15	584.00	Rupees Five Hundred EightyFour Only	Each	8760.00	
4.00	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 complete in all respect. i) Ceiling fan 1200 mm sweep (Category -A) Make : Usha Ultima / Bajaj Ultima / Anchor Panasonic.	6	2468.00	Rupees Two Thousand Four Hundred SixtyEight Only	Each	14808.00	
5.00	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 complete in all respect. i) Exhaust Fan, Light duty, (Domestic) 300 mm sweep Make: Bajaj , Usha, Anchor	6	2058.00	Rupees Two Thousand FiftyEight Only	Each	12348.00	
6.00	Supplying and fixing LED batten of 20 watt to enhance the delight of occupants with comfortable experience through classic design and glare free illumination of clair Electronics complete with Connection,testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max / CLAIR .	4	646.00	Rupees Six Hundred FortySix Only	Each	2584.00	
7.00	Supplying and fixing of LED Mirror Light including making connections, testing etc. as required complete in all respect. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Luminaires .	4	1719.00	Rupees One Thousand Seven Hundred Nineteen Only	Each	6876.00	
8.00	Supplying and fixing bakelite batten/angle holder including connections etc. as required Complete in all respect. Make: ANCHOR , CONA , ESS ESS KAY .	4	79.00	Rupees SeventyNine Only	Each	316.00	
9.00	Supplying and fixing 10watt LED bulk head comprising of pressure die cast housing with acrylic diffuser (IP65 protection complete with all accessories Connection, testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge Make : Wipro/OSRAM Phillips .	2	1600.00	Rupees One Thousand Six Hundred Only	Each	3200.00	

10.00	Supplying and fixing wall bracket fitting Double lamp with opal glass with Nickle finishing Wall lamp holder cap E27, complete with all accessories including making connections, testing etc. as required complete in all respect. Make : Wipro/OSRAM Phillips .	5	Nos	3854.00	Rupees Three Thousand Eight Hundred FiftyFour Only	Each	19270.00
11.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required complete in all respect. Make : Bajaj/Phillips/JAQUAR.	1	No	152.00	Rupees One Hundred FiftyTwo Only	Each	152.00
12.00	Providing and fixing LED Downlight 24 Watt recess square light with aluminium housing complete with Connection, testing commissioning etc as required in all respect. complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max .	22	Nos.	1655.00	Rupees One Thousand Six Hundred FiftyFive Only	Each	36410.00
13.00	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 complete in all respect. Make : Bajaj/Usha/Anchor.						
13.01	25 Liter capacity water heater (Cat-A)	4	Nos	10819.00	Rupees Ten Thousand Eight Hundred Nineteen Only	Each	43276.00
13.02	10 Liter capacity water heater (Cat-A)	1	No	9018.00	Rupees Nine Thousand Eighteen Only	Each	9018.00
14.00	Providing and fixing LED Downlight 12 Watt recess square light with aluminium housing complete with Connection, testing commissioning etc as required in all respect. complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max .	8	Nos.	1014.00	Rupees One Thousand Fourteen Only	Each	8112.00
15.00	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 complete in all respect. PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.						
15.01	2x1.5 Sq. mm.	150	Metre	189.00	Rupees One Hundred EightyNine Only	Per Metre	28350.00
15.02	2x4.0 Sq. mm.	60	Metre	297.00	Rupees Two Hundred NinetySeven Only	Per Metre	17820.00
55.03	2x10 Sq. mm.	20	Metre	553.00	Rupees Five Hundred FiftyThree Only	Per Metre	11060.00
16.00	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect. PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.	70	Metre	509.00	Rupees Five Hundred Nine Only	Per Metre	35630.00

17.00	Wiring for circuit / sub-main with 4x10 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. 10 Sq. mm. (4X10+2X10)HRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect. PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.	5	Metre	1033.00	Rupees One Thousand ThirtyThree Only	Per Metre	5165.00
18.00	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 complete in all respect. i) 3X1.5 Sq mm PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.	30	Metre	90.00	Rupees Ninety Only	Per Metre	2700.00
19.00	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 complete in all respect i) Single pole. Cat-A. Make : L&T / Legrand / SIEMENS.	26	Nos	258.00	Rupees Two Hundred FiftyEight Only	Each	6708.00
20.00	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 complete in all respect. i) Double pole Cat-A. Make : L&T / Legrand / SIEMENS.	3	Nos	1236.00	Rupees One Thousand Two Hundred ThirtySix Only	Each	3708.00
21.00	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 complete in all respect. i) 63 Amps. Cat-A. Make : L&T / Legrand / Siemens.	3	Nos	2225.00	Rupees Two Thousand Two Hundred TwentyFive Only	Each	6675.00
21.00	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 complete in all respect. i) Double door-12 way Make : L&T / Legrand / SIEMENS.	3	Nos	2503.00	Rupees Two Thousand Five Hundred Three Only	Each	7509.00
22.00	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation, made from 1.6 mm thick M.S. sheet duly fabricated in a segregated manner for housing of switch fuse units, by welding each compartment on five sides & front side hinged, complete with locking arrangement, with sufficient No. vertical and horizontal intermediate switchgear housing compartments. The cubical pedestal shall have cable entry box at one or two sides, with epoxy powder coated approved paint and bonding to the existing earth etc. The same shall be erected in the 1:2:4 cement concrete plat-form of suitable dimensions 15 cm high from ground level and 45 cm thick. The cubical pedestal shall be 15 cm from the top of cement concrete plat-form 600mmx900mmx450mm deep (nominal) including Bus Bar 100 Amp= 0.7 Metre, MCCB 100 Amp=1 No Phase Indicator =3 Nos Selector Switch=2 Nos Digital Voltmeter=1 No Digital Ammeter= 1 No CT Ciol =3 Nos and internal control wiring etc. as required complete in all respect. Make : L&T / Legrand / ABB / SIEMENS.	1	Job	32431.00	Rupees ThirtyTwo Thousand Four Hundred ThirtyOne Only	Each	32431.00

23.00	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required complete in all respect.	2	Set	11800.00	Rupees Eleven Thousand Eight Hundred Only	Per Set	23600.00
24.00	Extra for using salt and charcoal for G.I. or copper plate earth electrode complete as required complete in all respect.	2	Set	1824.00	Rupees One Thousand Eight Hundred TwentyFour Only	Per Set	3648.00
25.00	Supplying and laying 8 SWG Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required complete in all respect.	40	Metre	114.00	Rupees One Hundred Fourteen Only	Per Metre	4560.00
26.00	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 complete in all respect. Make CCI / Universal / Finilex / Policab / Rallison / Grenulay.	20	Metre	390.00	Rupees Three Hundred Ninety Only	Per Metre	7800.00
	Armoured cable 25 sq. mm (3.5 core)						
	Total						433785.00

*Draft schedule of quantity
checked and approved for
Rs. 433785/- only*

[Signature]
Executive Engineer,
Electrical Division,
HP PWD, Mandi (HP)

400					Estimated Cost: Rs. 324204/- only	
					Earnest Money: Rs. 3500/- only	
					Time: Along with (vi) work	
Name Of Work:- Additional accomodation Judicial Court Complex Kullu. (HP) (SH.Prov. E.I in Third Floor There in)						
ABSTRACT OF COST						
Sr No	Description	Qty	Rate	Unit	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 (HRRF) and low smoke single core (flexible) copper conductor cable in surface-recessed Steel conduit with modular switch modular plates suitable G.I. box and earthing the light point with 1.5 Sq. mm HRRF/SPVC insulated single core copper conductor cable as required complete in all respects per entire satisfaction of the Engineer in charge. Cable Make: PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI / FENOLIX.	28	Nos	1762.00	Rs. One Thousand seven hundred sixty two only	49336.00
2.00	Providing, installation, testing and commissioning of ceiling fan with modular fan regulator, including wiring the down rods of standard length (up to 30 cm) with 1.5x20 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	4	Nos	2465.00	Rs. Two thousand four hundred sixty five only	9860.00
ii	Ceiling Fan 1400 mm sweep Category-A	1	Nos	2831.00	Rs. Two thousand eight hundred thirty one only	2831.00
3.00	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface-recessed PVC conduit along with 1 No. HRRF/SPVC insulated single core copper conductor cable of same size for earthing as required complete in all respects per entire satisfaction of the Engineer in charge. Cable Make: PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI / FENOLIX.					
i	2x1.5 Sq. mm	110	Metre	315.00	Rs. Three hundred fifteen only	34650.00
ii	2x4.0 Sq. mm.	150	Metre	429.00	Rs. Four hundred twenty nine only	64350.00
iii	2x10 sq mm	30	Metre	731.00	Rs. Seven Hundred thirty one only	21930.00
4.00	Wiring for circuit / sub-main with 4x4 Sq. mm PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface-recessed PVC conduit along with 2 No. 4 Sq. mm (4X4-2X4)HRRF/SPVC insulated single core copper conductor cable for earthing as required complete in all respects per entire satisfaction of the Engineer in charge. Cable Make: PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI / FENOLIX.	36	Metre	694.00	Rs. Six hundred ninety four only	24984.00

5.00	Supplying and drawing following size of PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed. Sheath PVC conduit as required complete in all respects per entire satisfaction of the Engineer in charge. Cable Make : PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI / FENOLIX	40	Metre	98.00	Rs. Ninety eight only	Per Metre	3920.00
6.00	Supplying and fixing GI 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 complete in all respect as per entire satisfaction of Engineer in Charge. Make : Legrand (Myrio) / L&T (Entice) / Anchor /SSK / ABB (Similar Class).	4	Nos	484.00	Rs. Four hundred eighty four only	Each	1936.00
7.00	Supplying and fixing GI 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 complete in all respect as per entire satisfaction of Engineer in Charge. Make : Legrand (Myrio) / L&T (Entice) / Anchor /SSK / ABB (Similar Class).	11	Nos	507.00	Rs. Six hundred seven only	Each	5577.00
8.00	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 complete in all respects per entire satisfaction of the Engineer in charge. Make : L&T / Legrand / Siemens						0.00
9.00	Single pole Cat-A.	18	Nos	281.00	Rs. Two hundred eighty one only	Each	5058.00
10.00	Double pole. Cat-A.	2	Nos	1320.00	Rs. One thousand three hundred twenty only	Each	2640.00
	Supplying and fixing following rating double pole (single phase & neutral) 240 volts residual current circuit breaker (RCCB) having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc as required complete in all respects per entire satisfaction of the Engineer in charge. Make : L&T / Legrand / Siemens.						
	63 Amps Cat-A.	2	Nos	3931.00	Rs. Three thousand nine hundred thirty one only	Each	7862.00
11.00	Supplying and fixing of following way, single pole and neutral street 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 :-						
< ii	Double door-16 way	2	Nos	3451.00	Rs. Three thousand four hundred sixty one only	Each	6922.00

12.00	Supplying and fixing 10" Dia Long 1" Dia cone musical bell suitable for D.C.A. single phase 220V supply complete as required. Complete in all respects. Make ANCHOR CONA, ESS, ESS, KAY		Nos	279.00	Rs. Two hundred seventy nine only	Each	837.00
13.00	Supplying & fixing 24 Watt Ultra slim LED panel made from extruded aluminium housing frame Surface recess pendant 1ft x 1ft approx complete with all accessories connections testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer in charge. Make - Jaquar/Bajaj/Twinkle	30	Nos	2365.00	Rs. Two thousand three hundred sixty five only	Each	9460.00
14.00	Supplying & fixing 36 Watt Surface mounted LED panel made from extruded aluminium housing (surface) 2ft x 2ft complete with all accessories connections testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer in charge. Make - Jaquar/Bajaj/Twinkle		Nos	4595	Rs. Four thousand five hundred ninety five only	Each	45950.00
15.00	Supplying and fixing 10" Dia modular Box of suitable size with modular plate and cover in recess including providing and fixing 3 Nos 5 pin 500 Amps modular socket outlet 3 Nos 5/5 Amps modular switch as required etc. as required complete in all respect (Computer Point)	11	Nos	1069	Rs. One thousand sixty nine only	Each	11759.00
16.00	Supplying & fixing wall bracket fitting single lamp with Opal glass with Nickel finishing Wall Lamp holder cap E27 complete with all accessories connections testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer in charge. Make - Jaquar/Bajaj/Twinkle	6	Nos	2207	Rs. Two thousand two hundred seven only	Each	13242.00
	TOTAL						324204.00

Draft Schedule of Quantity checked and approved for Rs. 324204/- only.

Executive Engineer
Electrical Division
HPWD Mandi (H.P.)

2

		Estimated Cost:- Rs. 290870/-only			
		Earnest Money:- Rs. 5820/-only.			
		Time :- Two Months			

4.02	LED Tube 10 W Rod	80	each	586	Rupees five hundred eighty six only	each	46880
5	Providing and fixing of surface mounted Luminaire LED 20 Watt batten having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion < 10% and efficiency > 100 Lumens per watt CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. as required. Make :- Philips (BN021LED25S6500PSU GRS1), Havell, Crompton or its equivalent as approved by Engineer-in-charge.	40	each	854	Rupees eight hundred and fifty four only	each	34160
6	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-						
6.01	Single pole (Category-A)	30	each	217	Rupees two hundred seventeen only	each	6510
7	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:-						
7.01	Double pole (Category-A)	10	each	1138	Rupees One thousand one hundred thirty eight only	each	11380
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:-						
8.01	3 Module	100	each	76	Rupees seventy six only	each	7600
8.02	6 module	100	each	125	Rupees one hundred twenty five only	each	12500

9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.	100	each	58	Rupees Fifty eight only	each	5800
9.01	5/6 amps. 1-way Modular switch.	100	each	109	Rupees one hundred nine only	each	10900
9.02	15/16 amp. 1-way Modular switch.	100	each	116	Rupees one hundred sixteen only	each	11600
9.03	5 pin 5/6 amps. Modular socket outlet.	100	each	167	Rupees one hundred sixty seven only	each	16700
9.04	6 pin 15/16 amps. Modular socket outlet.	100	each				290870
	Total						

Draft schedule of quantity checked and approved for RS. 290870/- only

Executive Engineer,
Electrical Division,
HPPWD Mandi (HP).

D

Job- Sr. No.	Name of work:- Co. Armoury Building (Residence) at 3rd IRBN Pandoh District Mandi HP SH-Prov. E.I. there in.)	Draft Schedule Of Quantity
	Qty.	In figure In words Rate Units Amount
		Estimated Cost:- Rs. 225654/- only Earnest Money:- Rs. 4550/- only Time:- Along with civil work .
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 and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required complete in all respect Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	38 Nos 1150.00 Rupees One thousand one hundred fifty only. Each 43700.00
2	Group A. 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.complete in all respect Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	
i)	2x1.5 Sq. mm.	55 Metre 241.00 Rupees Two hundred forty one only. Per Metre 13255.00
ii)	2x4.0 Sq. mm.	35 Metre 339.00 Rupees Three hundred thirty nine only. Per Metre 11865.00
iii)	2x6.0 Sq. mm.	15 Metre 465.00 Rupees Four hundred sixty five only. Per Metre 6975.00
3	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	25 Metre 400.00 Rupees Four hundred only. Per Metre 10000.00
4	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.complete in all respect Make:- PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	35 Metre 77.00 Rupees Seventy seven only. Per Metre 2695.00
5	3x1.5 Sq. mm. 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 complete in all respect as per entire satisfaction of Engineer-in-Charge. Make : Legrand (Myrtiu) / L&T (Entice) / Anchor ISSK / ABB (Similar Class).	16 Nos. 544.00 Rupees Five hundred forty four only. Each 8704.00

6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Legrand (Myritu) / L&T (Entice) / Anchor /SSK / ABB (Similar Class).	12	Nos.	437.00	Rupees Four hundred thirty seven only.	Each	5244.00
7	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 complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : Racold / Bajaj / Usha.	2	Nos	12846.00	Rupees Twelve thousand eight hundred forty six only.	Each	25692.00
8	25 Liter capacity water heater (Cat-A) 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 complete in all respect. Make : L&T / Legrand / Siemens.	28	Nos.	256.00	Rupees Two hundred fifty six only.	Each	7168.00
9	Single pole. Cat-A. 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 complete in all respect. Make : L&T / Legrand / Siemens.	2	Nos.	1080.00	Rupees One thousand eighty only.	Each	2160.00
10	Double pole Cat-A 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 complete in all respect. Make L&T / LEGRAND / SIEMENS.						
i)	Double door-8 way	2	Nos	1645.00	Rupees One thousand six hundred forty five only.	Each	3290.00
ii)	Double door-16 way	1	No.	2299.00	Rupees Two thousand two hundred ninety nine only.	Each	2299.00
11	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required complete in all respect as per entire satisfaction of Engineer- in- Charge. Copper (Pure).	2	Set	11800.00	Rupees Eleven thousand eight hundred only.	Per Set	23600.00
12	Extra for using salt and charcoal for G.I. or copper plate earth electrode complete as required complete in all respect as per entire satisfaction of Engineer- in- Charge.	2	Set	1290.00	Rupees One thousand two hundred ninety only.	Per Set	2580.00

[illegible]

9						Estimated Cost:- Rs. 392246/-only.	
						Earnest Money:- Rs. 7845/-only.	
						Time :- Two Months	
Draft schedule of quantity							
NAME OF WORK: R/M of E.I accessories of various non-residential buildings at SLBSGMC&H Ner Chowk Distt Mandi [HP] (Sh:- Replacement & maintenance of damaged/worn out old CFL lights with LED's of High Mast Near Hostel chowk along with SOP)							
S.N.	Description	Qty.	Rate in figure.	Rate in words Rupees	Unit	Amount	
1	Providing and fixing of LED Flood light 240 watt luminaire comprises of die cast Aluminium housing with frame, toughened glass and PC lens, cradle mounting, Innovative, aesthetic and robust design with toughened glass and PC lens for better light distribution, Potted driver for better thermal reliability, easy maintenance, THD<10%, High Surge Protection: 4kV+10kV Power Factor: >0.95 operating temperature between -10degree C to +45 degree C. suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc.as required .Make :- Philips, Panasonic, Havell, Crompton or its equivalent as approved by Engineer-in-charge.	8	each 29262	Rupees twenty nine thousand two hundred sixty two only	each	234096	
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, containing solid aluminium conductor up to 10 sq mm & balance aluminium stranded conductor, extruded PVC type ST2 outer sheathed, 650V/1100V grade as IS 7098(part 1) 1988 with upto date amendments etc. of the required size:-						
2.01	Armoured cable 25 sq. mm (3.5 core)	180	mtr	540	Rupees five hundred forty only	mtr	97200

3	Providing and fixing of LED Tube Rod retrofit PL-L 4Pin with direct plug of 18 Watt ,having Cat No. 18w/865 6500K of Make Philips in the existing tube fixture as required complete in all respects. Make Philips, Havell's, Crompton Greaves etc. as approved by Engineer-in-charge.						
3.01	LED Tube 18 W Rod	50	each	633	Rupees six hundred thirty three only	each	31650
3.02	LED Tube 10 W Rod	50	each	586	Rupees five hundred eighty six only	each	29300
	Total						392246

Draft schedule of quantity checked and approved for Rs. 3,92,246/-only.

NA
Executive Engineer,
Electrical Division,
HPPWD Mandi (HP).

						Estimated Cost :- Rs. 153526/- Only
						Earnest Money :- Rs.3100/- Only
						Time :- Along with Civil Work
Draft Schedule of quantity						
Name of work:- Providing E.I in girls hostel Toilet block in sarkaghat Teshil Sarkaghat . Distt. Mandi.						
S. No.	Description	Quantity	In figer	In words	Unit	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 and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required complete in all respect. Cable Make : PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI/ FENOLIX.	22	Nos	Rupees One Thousand One Hundred TwentyThree Only	Each	24706.00
1.01	Group c.					
2.00	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 5 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required as per entire satisfaction of the Engineer in charge. Make : ESSESKAY /COSMO / Anchor.	5	Nos.	Rupees Four Hundred ThirtyFour Only	Each	2170.00
3.00	Supplying and fixing brass batten/angle holder including connections etc. as required complete in all respect. Make : (ANCHOR /CONA / ESSESKAY)	3	Nos	Rupees SeventyNine Only	Each	237.00
4.00	Providing and fixing Surface mounted Square LED downlight 6 Watt with Al die-cast body finish with drop down PC diffuser to deliver low glare illumination with optimized heat sink for efficient heat dissipation complete with Connection,testing commissioning etc as required in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max	10	Nos	Rupees Seven Hundred NinetySeven Only	Each	7970.00
5.00	Providing and fixing Surface mounted Square LED downlight 12 Watt with Al die-cast body finish with drop down PC diffuser to deliver low glare illumination with optimized heat sink for efficient heat dissipation complete with Connection,testing commissioning etc as required in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max, Hevelis .	7	Nos	Rupees One Thousand Fourteen Only	Each	7098.00

6.00	Supplying & fixing 45 Watt LED Street light in aluminium pressure die cast housing with toughened glass cover (IP66 rating) complete with all accessories ,connections, testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge (Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max ,Hevells)	2	Nos	3653.00	Rupees Three Thousand Six Hundred FiftyThree Only	Each	7306.00
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 complete in all respect as per entire satisfaction of the Engineer in charge Make: Bajaj , Usha, Anchor/Hevells	2	Nos	2058.00	Rupees Two Thousand FiftyEight Only	Each	4116.00
7.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep						
8.00	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 complete in all respect. (Make : L&T / Legrand /Siemens)	8	Nos	258.00	Rupees Two Hundred FiftyEight Only	Each	2064.00
8.01	Single pole, Cat-A.	1	Nos	1256.00	Rupees One Thousand Two Hundred FiftySix Only	Each	1256.00
9.00	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 complete in all respect. (Make : L&T / Legrand /Siemens)						
9.01	Double pole-40, Cat-A.						
10.00	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 complete in all respect.(Make : L&T / Legrand /Siemens)	1	No	2503.00	Rupees Two Thousand Five Hundred Three Only	Each	2503.00
10.01	Double door-12 way						
11.00	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required complete in all respect.(Cable Make : PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI / FENOLIX)	60	Metre	189.00	Rupees One Hundred EightyNine Only	Per Metre	11340.00
11.01	(i) 2x1.5 Sq. mm.	20	Metre	297.00	Rupees Two Hundred NinetySeven Only	Per Metre	5940.00
11.02	(ii) 2x4.0 Sq. mm.						

11.03	(iii) 2x6.0 Sq. mm.		5	Metre	414.00	Rupees Four Hundred Fourteen Only	Per Metre	2070.00
12.00	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 complete in all respect. Cable Make : PLAZA / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI / FENOLIX		30	Metre	90.00	Rupees Ninety Only	Per Metre	2700.00
12.01	3x1.5 Sq. mm.							
13.00	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 complete in all respect as per entire satisfaction of Engineer-in-Charge. Make : Racold / Bajaj / Usha.		5	Nos	14410.00	Rupees Fourteen Thousand Four Hundred Ten Only	Each	72050.00
13.01	35 Liter capacity water heater (Cat-A)							
	TOTAL							153526.00

*Draft schedule of Quantity checked
and approved for Rs. 153526/- only*

st.
Executive Engineer,
Electrical Division,
HP PWD, Mandi (HP)

Job- 11					Estimated Cost:- Rs. 484880/-only.
					Earnest Money :- Rs. 9700/-only.
					Time :- One Month
Name of work:- C/O Additional accommodation Block A and B for District Library Kullu Tehsil and District Kullu (H.P) (SH:- Providing and Fixing 2 tone AC in Block -A there in)					
Abstract of cost					
Sr. No	Description	Qty	Rate	Unit	Amount
1	Supplying and fixing of 2 tone capacity split type Inverter Hot and Cold AC including copper pipe ,drain pipe and stand for out door AC unit complete with installation connection etc. as required complete in all respect Make:- Lloyd,Voltas,Daikin.	5	96976	Each	484880
				Total	484880

*Draft schedule of quantity checked and approved
for Rs. 4,84,880/-*

[Signature]
Executive Engineer
Electrical Division
HPPWD Mandi (H.P.)