

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

NOTICE INVITING TENDER

Sealed Percentage rate tender on Form No. 6&8 are invited by the Executive Engineer, Electrical Division, HPPWD, Mandi (H.P.) for the following works work at Sr No. 1 to 21 from approved and eligible contractors enlisted in appropriate class in HPPWD (Electrical) department having valid Electrical license, and for work at Sr No. 22 and 23 from "A" Class Elect License holder having similar work experience so as to reach in his office on or before 04.10.2023 up-to 10.30 A.M. and will be opened on the same day at 11.30 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 03.10.2023 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.- Replacement of Piano Type Switches to Modular switches and Main Panel along with Circuit Wires in Rest House Karsog, District Mandi Estimated Cost: Rs. 215868/-only, Earnest money: Rs. 4350/- only, Time allowed: - One Month

Work No. 2.- Providing and fixing Ceiling fan, exhaust fan, Wall Fan in Family Court and ADJ-I Court Office and providing networking cable in MT Court at above State Bank of India, Moti Bazaar, Mandi, District Mandi Estimated Cost: Rs. 182568/-only, Earnest money: Rs. 3700/- only, Time allowed: - One Month

Work No. 3.- C/o Cluster University at MLSM College Sunder Nagar, District Mandi (SH: Providing balance work of EI therein) Estimated Cost: Rs. 454826/-only, Earnest money: Rs. 9100/- only, Time allowed: - Along with civil work

Work No. 4.- Replacement of existing Fire Fighting System damaged Hydrant landing Valve, Hose reels, RRI, Hose, Branch pipe and Hose cabinet etc in Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk, District Mandi Estimated Cost: Rs. 482552/-only, Earnest money: Rs. 9700/- only, Time allowed: - Two Months

Work No. 5.- Repair and Maintenance of E.I. in various Govt. Non Residential Buildings at Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk, District Mandi (SH: Providing Air Conditioner for Power Bank and UPS installed for OT at 5th and 6th floor of Hospital) Estimated Cost: Rs. 135936/-only, Earnest money: Rs. 2800/- only, Time allowed: - Fifteen days

Work No. 6.- Providing and fixing Air Conditioner 1.5 tonne capacity in Design Cell and Assistant Engineer Room at 1st Circle HPPWD Mandi Estimated Cost: Rs. 236044/-only, Earnest money: Rs. 4750/- only, Time allowed: - One Month

Work No. 7.- Rewiring and replacement of electrical fixtures of NCC Hanger, Kullu Bhuntar Airport District Kullu Estimated Cost: Rs. 336444/-only, Earnest money: Rs. 6750/- only, Time allowed: - One Month

Work No. 8.- Providing Yard Fire Fighting, Extinguisher and Shed for Pump House in 50 Bedded Hospital Bagsaid, District Mandi Estimated Cost: Rs. 461990/-only, Earnest money: Rs. 9250/-only, Time allowed: - Along with civil work

Work No. 9.- C/o Veterinary Dispensary at Kothi Tehsil Balh District Mandi HP (SH: Providing EI therein) Estimated Cost: Rs. 208199/- only, Earnest money: Rs. 4200/- only, Time allowed: - Along with Civil work

Work No. 10.- Providing Wiring and LED D/L 2x2 Mirror Light, Exhaust fan, ceiling fan in renovated Division No. II and replacement of Old LED fixture and other electrical accessories in E.E office Division No. II, Superintendent Gr I, EE Quality Control office, EE Electrical and various other branches of Chief Engineer's office building at Jail Road, Mandi Estimated Cost: Rs. 101935/- only, Earnest money: Rs. 2050/- only, Time allowed: - One Month

Work No. 11.- C/o Assistant Engineer Office Building at Babeli, District Kullu HP (SH: Providing EI to ground floor therein) Estimated Cost: Rs. 336250/- only, Earnest money: Rs. 6750/- only, Time allowed: - Along with Civil work

Work No. 12.- Supplying and fixing Chandelier and fancy fixture in VIP Set at A/A to Circuit House at Manali District Kullu HP Estimated Cost: Rs. 332549/- only, Earnest money: Rs. 6700/- only, Time allowed: - One Month

Work No. 13.- Supplying Installation Testing and Commissioning of Main Electrical Panel at A/A to Circuit House at Manali District Kullu HP Estimated Cost: Rs. 475318/- only, Earnest money: Rs. 9500/- only, Time allowed: - One Month

Work No. 14.- C/o Government Senior Secondary School at Kashimblidhar Tehsil Balichowki, District Mandi HP (SH: Providing EI therein) Estimated Cost: Rs. 402929/- only, Earnest money: Rs. 8060/- only, Time allowed: - Along with civil work

Work No. 15:- C/o Veterinary Dispensary Building at Lambasafar Tehsil District Mandi HP (SH: Providing E.I therein) Estimated Cost: Rs. 193200/- only, Earnest money: Rs. 3865/- only, Time allowed: - Along with civil work

Work No. 16:- C/o Community Centre Bagla Mukhi Temple Bharari Tehsil Thunag District Mandi (SH: Providing E.I therein) Estimated Cost: Rs. 428577/- only, Earnest money: Rs. 8600/- only, Time allowed: - Along with civil work

Work No. 17:- C/o Hostel block at JLN Govt. Engineering College at Sunder Nagar District Mandi (SH: Providing additional compound lighting in left out area therein) Estimated Cost: Rs. 499015/- only, Earnest money: Rs. 10000/- only, Time allowed: - Along with civil work

Work No. 18:- C/o Hostel block at JLN Govt. Engineering College at Sunder Nagar District Mandi (SH: Providing Solar Lights and SOP Cables for warden and Mess Block therein) Estimated Cost: Rs. 491960/- only, Earnest money: Rs. 9900/- only, Time allowed: - Along with civil work

Work No. 19:- C/o Cluster University Building at Government Degree College Mandi District Mandi (SH: Providing Wiring and chemical earthing for lift therein) Estimated Cost: Rs. 360641/- only, Earnest money: Rs. 7250/- only, Time allowed: - Along with civil work

Work No. 20:- C/o Combined office Building at Nerchowk District Mandi HP (SH: Providing balance work of E.I therein) Estimated Cost: Rs. 490925/- only, Earnest money: Rs. 9850/- only, Time allowed: - Along with civil work

Work No. 21:- Providing and fixing Air conditioner 1.5 tonne capacity in office building at HPPWD Division office Nerchowk District Mandi HP Estimated Cost: Rs. 102150/- only, Earnest money: Rs. 2050/- only, Time allowed: - One Month

Work No. 22:- Repair and Maintenance of E.I in various Govt. Non Residential Buildings at Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk, District Mandi (SH: Repair and maintenance and servicing are extinguishing breaker's existing step down 11/415 KV Panels ESS-I -VI and 2000-2500 Amps = 3200-4000 Amps = 13 Nos. with accessories) Estimated Cost: Rs. 498668/- only, Earnest money: Rs. 9970/- only, Time allowed: - Two Months

Work No. 23:- Repair and Maintenance of E.I in various Govt. Non Residential Buildings at Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk, District Mandi (SH: Repair and maintenance and servicing are extinguishing breaker's existing step down 11/415 KV Panels ESS-I -VI of 800-1600 Amps=15 Nos. and 2000-2500 Amps = 15 Nos. with accessories) Estimated Cost: Rs. 496308/- only, Earnest money: Rs. 9930/- only, Time allowed: - Two Months

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-- 4733-49

Dated: 16-09-23

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, Electrical Circle, HPPWD, Mandi-HP
5. The Executive Engineer (IT) o/o Engineer-in-Chief, HPPWD, Shimla through email: ce-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- I						Estimated Cost:- Rs. 215868/- only	
						Earnest Money:- Rs. 4350/- only	
						Time:- One Month.	
Draft Schedule Of Quantity							
Name Of Work- Replacement Piano Type Switches to Modular Switches and main panel along with circuit wires in rest house Karsog Tehsil Karsog Distt Mandi. HP.							
Sr. No.	Description	Qty.	In figure	Rate In words	Units	Amount	
1	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. as per entire satisfaction of engineer in charge. i) Single pole. Cat-A. MAKE :- LEGRAND / L&T/C&S / GE	8	281.00	Rupees Two Hundred EightyOne Only	Each	2248.00	
2	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 / ABB/ SIEMENS.	3	1320.00	Rupees One Thousand Three Hundred Twenty Only	Each	3960.00	
3	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:-	1	2188.00	Rupees Two Thousand One Hundred EightyEight Only	Each	2188.00	
4	Exhaust Fan, Light duty, 300 mm sweep						
4	Supplying and fixing of LED Mirror light complete with all accessories including making connections, testing etc. as required.	2	823.00	Rupees Eight Hundred TwentyThree Only	Each	1646.00	
5	Providing and fixing Glazed LED 40 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 : Clair / Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max.	8	2904.00	Rupees Two Thousand Nine Hundred Four Only	Each	23232.00	
6	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 as per entire satisfaction of Engineer-in-Charge. i) Ceiling fan 1200 mm sweep (Category -A) Make : Usha / Bajaj / Anchor Panasonic.	4	4549.00	Rupees Four Thousand Five Hundred FortyNine Only	Each	18196.00	
7	Providing & fixing surface LED Downlight 12Watt to enhance the delight of occupants with comfortable experience through its classic design & glare free illumination of Jaquar make as per Cat no. LNRO01R012XC complete with Connection, testing commissioning etc as required. complete in all respect as per entire satisfaction of the Engineer in charge. Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max.	4	1350.00	Rupees One Thousand Three Hundred Fifty Only	Each	5400.00	
8	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required complete in all respect as per entire satisfaction of the Engineer in charge.						

i)	5/6 amps. 1-way Modular switch	32	Nos.	58.00	Rupees FiftyEight Only	Each	1856.00
ii)	5/6 amps. 2-way Modular switch	4	Nos.	86.00	Rupees EightySix Only	Each	344.00
iii)	Bell push, Modular	4	Nos.	32.00	Rupees ThirtyTwo Only	Each	128.00
iv)	15/16 amps. 1-way Modular switch	6	Nos.	109.00	Rupees One Hundred Nine Only	Each	654.00
v)	6 pin 15/16 amps. Modular socket outlet.	6	Nos.	167.00	Rupees One Hundred SixtySeven Only	Each	1002.00
vi)	5 pin 5/6 amps. Modular socket outlet.	16	Nos.	116.00	Rupees One Hundred Sixteen Only	Each	1856.00
9	Supplying & fixing following size modular base and cover plate on the existing modular metal boxes as required complete in all respect as per entire satisfaction of the Engineer in charge.						
i)	2 modules	5	Nos.	166.00	Rupees One Hundred SixtySix Only	Each	830.00
ii)	4 modules	5	Nos.	183.00	Rupees One Hundred EightyThree Only	Each	915.00
iii)	6 modules	8	Nos.	243.00	Rupees Two Hundred FortyThree Only	Each	1944.00
iv)	8 modules	4	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	1124.00
v)	12 modules	1	No.	378.00	Rupees Three Hundred SeventyEight Only	Each	378.00
10	Supplying and fixing ceiling rose on the existing junction box / wooden block including connections etc. as required complete in all respect as per entire satisfaction of the Engineer in charge.	3	Nos.	22.00	Rupees TwentyTwo Only	Each	66.00
11	Wiring for circuit/sub-main with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect as per entire satisfaction of Engineer- in- Charge. PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.	35	Metre	315.00	Rupees Three Hundred Fifteen Only	Per Metre	11025.00
12	Wiring for circuit / sub-main with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect as per entire satisfaction of Engineer- in- Charge. PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.	35	Metre	429.00	Rupees Four Hundred TwentyNine Only	Per Metre	15015.00
13	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 as per entire satisfaction of Engineer- in- Charge. PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.						

i)	3x1.5 sqmm	20	Metre	98.00	Rupees NinetyEight Only	Per Metre	1960.00
ii)	6x1.5 sqmm	15	Metre	154.00	Rupees One Hundred FiftyFour Only	Per Metre	2310.00
iii)	3x4 sqmm	15	Metre	218.00	Rupees Two Hundred Eighteen Only	Per Metre	3270.00
iv)	6x4 sqmm	25	Metre	345.00	Rupees Three Hundred FourtyFive Only	Per Metre	8625.00
14	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation, made from 1.6mm 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:- 600mmx900 mm x450MM Deep Consisting MCCB125 Amps 1 No, MCCB 63 Amps 2 Nos, Mccb32 Amps 1 No, Change over Switch 125 Amps 1 No, copper Busbar 200Amps 1 No, 1 No Ammeter, Voltmeter, Indicating Lamp3 No, C.T Coil Coplete Connection Testing etc as required complete in all respect complete in all respect Make : L&T / Legrand / ABB / SIEMENS.	1	Job..	69936.00	Rupees SixtyNine Thousand Nine Hundred ThirtySix Only	Per Job	69936.00
15	300 mm deep (nominal) 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) 35 Liter capacity water heater (Cat-A) Make:- Bajaj / Usha / Crompton.	1	No.	14494.00	Rupees Fourteen Thousand Four Hundred NinetyFour Only	Each	14494.00
16	Wiring for circuit / sub-main with 4x10 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.6 Sq.mm. (4x10+2x6) HRRFSL/PVC insulated single core copper conductor cable for earthing as required complete in all respect as per entire satisfaction of Engineer- in- Charge. . PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI cable make.	5	Metre	1268.00	Rupees One Thousand Two Hundred SixtyEight Only	Per Metre	6340.00
17	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphalized and powder painted, including earthing etc. as required complete in all respect Make : L&T / Legrand / ABB / SIEMENS.						

i)	Double door-12 way	6	Nos.	2693.00	Rupees Two Thousand Six Hundred NinetyThree Only	Each	16158.00
ii)	Double door-4 way	1	No.	1768.00	Rupees One Thousand Seven Hundred SixtyEight Only	Each	1768.00
			Total				218868.00
			Credit for dismantal material				-3000.00
			Total				215868.00

Draft schedule of quantity checked and approved for Rs. 215868/- only.
 Executive Engineer,
 Electrical Division,
 HP. PWD, Mandi (HP)

Job- 2							Estimated Cost - Rs. 182568/- Only
							Earnest Money - Rs. 3700/- Only
							Time :- One Month.
DRAFT SCHEDULE OF QUANTITY							
Name of work:-Prov & fixing ceiling fan , Exhaust Fan ,Wall Fan in Family court & ADJ-I Court office & prov. networking cable in MT Court at above SBI Mandi							
S.No.	Description	Qty.	In Figure	Rate In Words	Unit	Amount	
1	Prov /installation of wall fan of following sizes in the existing opening , i/c making the hole to suit the size of above fan making the damages , connection , testing and commissioning etc. as required complete in all respect. MAKE:- USHA/BAJAJ/ CROMPTON	3	Nos. 3467.00	Rupees Three Thousand Four Hundred SixtySeven Only	Each	10401.00	
2	Wall fan Light Duty (Domestic) 400 mm sweep cat -A 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 as per entire satisfaction of Engineer- in- Charge. i) Ceiling fan 1200 mm sweep (Category -A) Make : Usha / Bajaj / Anchor Panasonic.	3	Nos. 4549.00	Rupees Four Thousand Five Hundred FortyNine Only	Each	13647.00	
3	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/BAJAJ/ CROMPTON	5	Nos. 2244.00	Rupees Two Thousand Two Hundred FortyFour Only	Each	11220.00	
4	Exhaust Fan, Light duty, (Domestic) 300mm sweep Supplying and drawing of cat-6 cable as required complete in all respect	300	Metre 93.00	Rupees NinetyThree Only	Per Metre	27900.00	
5	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 complete in all respect. MAKE:- POLYFIT , DIPLAST, PLAZA	300	Metre 127.00	Rupees One Hundred TwentySeven Only	Per Metre	38100.00	
6	25 mm dia 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.	300	Metre 167.00	Rupees One Hundred SixtySeven Only	Per Metre	50100.00	

7	Supplying & fixing Slim LED Panel 2Ft X 2Ft 40 Watt Surface mounted (having Cat No. LSVR01S040XW) made from extruded aluminium housing 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 Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	8	Nos.	3900.00	Rupees Three Thousand Nine Hundred Only	Each	31200.00
	TOTAL						182568.00

Draft Schedule of Quantity checked and approved for RS.182568/- only.

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

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Job- 3						Estimated Cost :- Rs. 454826/- Only
						Earnest Money :- Rs. 9100/- Only
						Time :- Along with civil work

DRAFT SCHEDULE OF QUANTITY

Name of Work:- C/o Cluster University at MLSM college Sunder Nagar Distt Mandi (H.P) (SH: Prov. Balance work therein)

S.No.	Description	Qty.	Rate		Unit	Amount
			In Fig.	In Words		
1	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 complete in all respect as per entire satisfaction of Engineer- in- Charge. Make : AKG/ BEC / NIC/ Diplast.	550	Metre	Rupees One Hundred Thirteen Only	Per Metre	62150.00
2	Supplying and fixing sheet metal bus-bar chamber suitable for 63 Amp. 415 volt capacity with 4 no. copper strip bus-bar reach of length 300mm & cross-sectional area (16mm*3.17mm), enclosure made from 1.6mm thick M.S sheet having overall dimension (380mm*350mm*150mm) nominal with all accessories including connections, earthing the body etc. as required complete in all respect as per entire satisfaction of engineer in charge. Make : L&T / Legrand / ABB/ SIEMENS.	2	Nos.	Rupees Two Thousand Seventy Only	Each	4140.00
3	wiring for circuit/sub main with 2*10 sq.mm PVC insulated heat resistant flame retardant (HFR) and low smoke single core (Flexible) copper conductor cable in Surface /recessed steel conduit along with 1 no. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required complete in all respect as per entire satisfaction of engineer in charge. Make:- PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	160	Metre	Rupees Six Hundred FiftySeven Only	Per Metre	105120.00
4	Supplying and laying of Cat-6 cable in the existing PVC insulated and PVC conduit as required complete in all respect as per entire satisfaction of engineer in charge.	###	Metre	Rupees EightySeven Only	Per Metre	144420.00
5	Laying of one NO. aluminium conductor, PVC insulated and PVC sheathed armoured/XLPE power cable, working voltage 1100 volts grade direct in ground ; to be laid 1 meter below the ground level including excavation sand cushioning, protecting covering and refilling the trench etc. of required size complete in all respect as per entire satisfaction of engineer in charge. i) Armoured cable 95 sq.mm (3.5 core) Make:- PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.	110	Metre	Rupees Eight Hundred Fifty Only	Per Metre	93500.00

6	Supplying and fixing of ceiling fan rod as required complete in all respect.	108	Metre	360.00	Rupees Three Hundred Sixty Only	Per Metre	39096.00
7	Providing and fixing of 1 HP Monoblock pump complete with connections, testing etc. as required complete in all respect as per entire satisfaction of engineer in charge.	1	No.	6400.00	Rupees Six Thousand Four Hundred Only	Each	6400.00
	Total						454826.00

Draft schedule of quantity checked and approved for RS. 454826/- only.

[Signature]
Executive Engineer
Electrical Division
HPPWD, Mandi *D*

4-							Estimated Cost :- Rs 482552/- Only	
							Earnest Money :- Rs 9700/- Only	
							Time :- Two Months.	
DRAFT SCHEDULE OF QUANTITY								
Name of Work: Replacement of Existing Fire Fighting system Damaged Hydrant Landing Valve, Hose reels, RRL Hose, Branch pipe, and Hose Cabinet etc. in Shri Lal Bahadur Shastri Medical college and Hospital Nerchowk Mandi, H.P								
S.No.	Description	Qty	In Figure	Rate	In Words	Unit	Amount	
1	Providing & fixing Gun metal fire hydrant single headed landing valve with 80 mm N.B. flanged inlet, s.s spindle controlled 63 mm dia female instantaneous outlet type, SS coupling, blank cap, chain, twist release type lug & all accessories conforming to IS standards as required complete in all respects and to the best satisfaction of Engineer-in-charge.	8	Nos.	18335.00	Rupees Eighteen Thousand Three Hundred ThirtyFive Only	Each	146680.00	
2	Make: Minimax / AAAG / Tyco Weather proof standard fire hose cabinet made of 18 SWG powder coated fibre sheet having single or double opening glazed (3.0 mm thick glass) shutter including necessary locking arrangement by allen key, stove enamelled Fire red finish (as per IS : 5, shade no. 536) with " Fire Hose" marked on front, suitable for housing 2 nos. 15m long 63 mm dia Hose pipe, 1 No. branch pipe & nozzle spanner as required complete in all respects and to the best satisfaction of Engineer-in-charge. Make: Minimax / AAAG / Tyco	10	Nos.	7365.00	Rupees Seven Thousand Three Hundred SixtyFive Only	Each	73650.00	
3	Providing and Fixing Gun Metal 63 mm dia instantaneous pattern branch short pipe, 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling as required complete in all respects and to the best satisfaction of Engineer-in-charge.	8	Nos.	5600.00	Rupees Five Thousand Six Hundred Only	Each	44800.00	
4	Make: Minimax / AAAG / Tyco Providing Cast iron /steel Butterfly Valve Confirming to type P.N 1.6 of I.S 13095-1991 Complete with Flanges bolt, nuts, gasket etc. As per table 'E' specification complete in all respect hydraulically test to 20 K./sqcm. as required complete in all respects and to the best satisfaction of Engineer-in-charge.							
4.1	65 mm dia.	2	Nos.	4738.00	Rupees Four Thousand Seven Hundred ThirtyEight Only	Each	9476.00	
4.2	80 mm Dia	5	Nos.	5050.00	Rupees Five Thousand Fifty Only	Each	30300.00	
4.3	150 mm Dia	1	Nos.	9073.00	Rupees Nine Thousand SeventyThree Only	Each	9073.00	
5	Providing & Fixing of 63 mm dia 15 m long non-perforating flexible hose (RRL- type A) as per IS : 636. Type A with Gun Metal male & female instantaneous type coupling (IS 903) (For internal and External hydrant system) as required complete in all respects and to the best satisfaction of Engineer-in-charge.	8	Nos.	11460.00	Rupees Eleven Thousand Four Hundred Sixty Only	Each	91680.00	
	Make: Minimax / AAAG / Tyco							

6	Providing and fixing of IS marked (IS 15683) portable fire extinguisher, carbondioxide type flat base including valve, discharge hose of not less than 10 mm dia 1 M long & complete in all respects including initial fill with CO2 gas conforming to IS 15222 filled to a filling ratio of not more than 0.667 and wall suspension bracket, as approved in CPPWD Fire Mannual.	3	Nos.	11730.00	Rupees Eleven Thousand Seven Hundred Thirty Only	Each	35190.00
	Capacity 4.5 kg.						
7	Providing and Fixing stored pressure vessel 4 Kg. ABC MAP-50% Powder type fire extinguishers are manufactured and marked to Indian standard IS 15683. Hose shall made of EPDM Rubber. CE Marked Valve, Suitable first aid appliance for fighting fires in Class A, B & C fire that is wood, textile, flammable liquids & gases, as approved in CPPWD Fire Mannual.	3	Nos.	6983.00	Rupees Six Thousand Nine Hundred Eighty Three Only	Each	20949.00
8	Providing and fixing Water co2 9ltr. capacity fire extinguisher (S)marked conforming to IS 15683 squeeze grip/wheel type release valve, discharge pipe locking arrangement as approved in CPPWD Fire Mannual complete all at site and as directed by the Engineer in-charge.	3	Nos.	6918.00	Rupees Six Thousand Nine Hundred Eighteen Only	Each	20754.00
				Total:-			482552.00

Draft Schedule of quantity checked and approved for Rs. 482552/- only.

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

Job-5						Estimated Cost:- Rs 135936/-only.	
						Earnest Money :- Rs. 2800/-only.	
						Time :- Fifteen Days.	
Draft Schedule of quantity							
Name of work :- R/M of E.I. in various Govt N/R building at SLBS Govt. Medical Collage at Nerchowk in Distt Mandi HP (Providing AC for power bank and UPS installed for OT at 5th & 6th floor of Hospital there in.)							
Sr. Nos	Description	Quantity	Rate		Unit	Amount	
			In Figure	In Word			
1.00	Supplying and Fixing Air conditioner of DAIKIN / TOSHIBA / MITSUBISHI / O-GENERAL of equivalent make 1.5 Tonne capacity split type Hot and cold including voltage stabilizer 4 KVA 230 volt supply and stand for outdoor AC unit complete with installation connection etc.as required complete in all respect.	2 Nos	67968.00	Rupees SixtySeven Thousand Nine Hundred SixtyEight Only	Each	135936.00	
						135936.00	

*Draft schedule of Quantity checked
and approved for RS. 1,35,936/- only.*

Signature
Executive Engineer,
Electrical Division,
HP Mandi (HP)

Job-6							Estimated Cost - Rs.236044/- only	
							Earnest Money - Rs 4750/- only	
							Time:- One Month	
DRAFT SCHEDULE OF QUANTITY								
Name of Work :- Providing and fixing A.C 1.5Tonne capacity in Design Cell & AE room at 1st circle Office HPPWD Mandi								
Sr. No.	Description	Qty.	In figure	Rate	Units	Amount		
1.00	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. LLYOD/VOLTAS/SAMSUNG / CARRIER make.	3	Nos	72293.00	Rupees SeventyTwo Thousand Two Hundred NinetyThree Only	Each	216879.00	
2.00	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect. MAKE:- FINOLEX/ PLAZA/RR/UNITTECH/BENTION/KE	25	Metre	329.00	Rupees Three Hundred TwentyNine Only	Per Metre	8225.00	
3.00	2x4 Sq. mm. Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required complete in all respect. MAKE:- FINOLEX/ PLAZA/RR/UNITTECH/BENTION/KE	15	Metre	556.00	Rupees Five Hundred FiftySix Only	Per Metre	8340.00	
4.00	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 complete in all respect. MAKE:- POLYFIT , DIPLAST, PLAZA	20	Metre	130.00	Rupees One Hundred Thirty Only	Per Metre	2600.00	
	25 mm dia							
	TOTAL						236044.00	

*Draft schedule of quantity checked and approved
for Rs.236044/- only.*

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

Job-7							Estimated Cost :- Rs. 336444/ Only
							Earnest Money :- Rs. 6750 /- Only
							Time :- Along with civil work
DRAFT SCHEDULE OF QUANTITY							
Name of work.- Rewiring and replacement of electrical fixtures of NCC HANGAR Kullu at Bhunter Airport Distt. Kullu Himachal Pradesh.							
S No.	Description	Qty.	In Figure	Rate		Unit	Amount
				In Words			
1	Re-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 existing surface/recessed Steel / PVC conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable including dismantling of the existing wiring as required complete in all respect. (including switch & sheet etc.) Make:-PLAZA/UNITECH/BONTON/KEI/BIYANI.	80 Nos.	669.00	Rupees Six Hundred SixtyNine Only		Each	53520.00
	Group C						
1	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/UNITECH/BONTON/KEI/BIYANI.						
i	3x1.5 Sq. mm.	70 Metre	90.00	Rupees Ninety Only		Per Metre	6300.00
iii	3x4.0 Sq. mm.	60 Metre	203.00	Rupees Two Hundred Three Only		Per Metre	12180.00
iii	3x6.0 Sq. mm.	35 Metre	320.00	Rupees Three Hundred Twenty Only		Per Metre	11200.00
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. Make:-L&T/(Entice)/Anchor/SSK.	5 Nos.	194.00	Rupees One Hundred NinetyFour Only		Each	970.00
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:-L&T/(Entice)/Anchor/SSK.	5 Nos.	434.00	Rupees Four Hundred ThirtyFour Only		Each	2170.00
	Supplying and fixing Metal boxes of 200mmx150mmx75mm 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 3 Nos. outlet and 5/6 amps, piano type switch, 3 Nos connections, painting etc. as required complete in all respect. Computer Point	5 Nos.	496.00	Rupees Four Hundred NinetySix Only		Each	2480.00

4	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:- Bajaj/Usha/Anchor Panasonic.	8	Nos.	2058.00	Rupees Two Thousand FiftyEight Only	Each	16464.00
	Exhaust Fan L/D 300 mm						
5	Supplying & fixing 10 Watt LED bulk head comprising of pressure die cast housing with acrylic diffuser (IP65 protection) 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:-Bajaj/Siska/Jaquar/Philips	10	Nos.	1291.00	Rupees One Thousand Two Hundred NinetyOne Only	Each	12910.00
6	Supplying & fixing 10 Watt LED mirror light High quality aluminium extruded with decorative end caps 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:-Bajaj/Siska/Jaquar/Philips	2	Nos.	462.00	Rupees Four Hundred SixtyTwo Only	Each	924.00
	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:-Bajaj/Siska/Jaquar/Philips	13	Nos.	2219.00	Rupees Two Thousand Two Hundred Nineteen Only	Each	28847.00
7	Supplying & fixing 36 Watt Surface mounted LED panel made from extruded aluminium housing(surface)2ft x2ft 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:-Bajaj/Siska/Jaquar/Philips	40	Nos.	3624.00	Rupees Three Thousand Six Hundred TwentyFour Only	Each	144960.00
	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 , Jaquar, Bajaj, Philips etc.	2	Nos.	2811.00	Rupees Two Thousand Eight Hundred Eleven Only	Each	5622.00
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect. Make:- L&T/Legrand/Siemens.	16	Nos.	258.00	Rupees Two Hundred FiftyEight Only	Each	4128.00
	Single pole 10 Amp. Cat-A.						
9	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.	1236.00	Rupees One Thousand Two Hundred ThirtySix Only	Each	2472.00
	Double pole. Cat-A.						
10	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T/Legrand/Siemens/C&S.	2	Nos.	3689.00	Rupees Three Thousand Six Hundred EightyNine Only	Each	7378.00
	63 Amps. Cat-A.						

11	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.	4	Nos.	2468.00	Rupees Two Thousand Four Hundred SixtyEight Only	Each	9872.00
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, 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/C&S.	2	Nos.	2503.00	Rupees Two Thousand Five Hundred Three Only	Each	5006.00
	DD 12 Way						
13	Supplying and fixing sheet metal bus-bar chamber suitable for 63 Amp. 415 volts capacity with 4 No. copper strip bus-bars each of length 300mm & cross-sectional area (16mmx3.17mm), enclosure made from 1.6 mm thick M.S. sheet having overall dimensions (380mmx350mmx150mm) nominal with all accessories including connections, earthing the body etc. as required complete in all respect. Make:- L & T/Legrand/Siemens/C&S.	1	Nos.	3090.00	Rupees Three Thousand Ninety Only	Each	3090.00
14	Providing and fixing TP&N switch disconnector fuse unit cubical type, 415/500 volts with 3 No. HBC/HRC fuses, in sheet steel enclosure including drilling holes on the board, connections, earthing the body etc. as required complete in all respect. Make:- L & T/ ABB Legrand / Siemens.	1	Nos.	5951.00	Rupees Five Thousand Nine Hundred FiftyOne Only	Each	5951.00
	63 Amp. Category-A						
	Total:-						336444.00

Draft schedule of quantity checked and approved for Rs. 336444/- only

Executive Engineer,
Electrical Division,

HP.PWD. Mandi (HP)

Job- 8						Estimated Cost :- Rs. 461990/- Only	
						Earnest Money :- Rs 9250/- Only	
						Time :-	Along with civil work
Draft SCHEDULE OF QUANTITY							
NAME OF WORK: Prov. Yard Fire Fighting, Extinguisher and Shed for Pump House in 50 Bedded Hospital at Bagsaid Distt. Mandi (HP)							
S.No.	Description	Quantity	In Figure	Rate	In Words	Unit	Amount
1.00	S/F for above ground laying for Hydrants and Sprinkler system including transportation of materials up to the worksite, Cutting the pipes to required length edge preparation, welding fixing /erection of pipes including special i.e bends, tees, reducers, flanges expansion joints, whenever required washers nuts and bolts, etc in proper position, anchor fastner and washer for hydrant /Sprinkler piping jointing by welding aligning the pipe line Hydrostatic testing of system Flusing and Cleaning by water etc complete as per drawing and direction of the engineer in charge Pipes sizes :						
1.01	MS C 150 MM	18	Metre	2480.00	Rupees Two Thousand Four Hundred Eighty Only	Per Metre	44640.00
1.02	MS C 100 MM	30	Metre	2050.00	Rupees Two Thousand Fifty Only	Per Metre	61500.00
1.03	MSC 80 MM	12	Metre	1600.00	Rupees One Thousand Six Hundred Only	Per Metre	19200.00
2.00	Providing and Fixing of Bulter fly Valve suitable for pressure 15 KG /CM Square with flange Nuts and Bolts and Gasket complete in all respect PN 1-6 Type] 6"	1	Metre	5200.00	Rupees Five Thousand Two Hundred Only	Per Metre	5200.00
3.00	Providing and Fixing of Swinging type first aid fire housereel with 30 mtrs long discharge rubber pipe of 20 mm dia with shut off nozzal of 5 mm dia glove valve and fitting complete as required as per IS-884 Specification complete in all respect	1	Metre	7800.00	Rupees Seven Thousand Eight Hundred Only	Per Metre	7800.00
4.00	Supply and Fixing Wall valve complete in all respect	1	Metre	700.00	Rupees Seven Hundred Only	Per Metre	700.00
5.00	Providing and Fixing of ISI marked single headed 63 mm dia gunmetal Hydrant Valve 80 mm dia flanged inlet with 63 mm female instantaneous outlet confirming to is 5290-1977 on the fire riser/down comer complete in all respect	1	Metre	7150.00	Rupees Seven Thousand One Hundred Fifty Only	Per Metre	7150.00
6.00	Providing and Fixing 63 mm dia instantaneous patterns branch short gun metal pipe complete in all respect	1	No.	2100.00	Rupees Two Thousand One Hundred Only	Each	2100.00
7.00	P/F Standard fire hose cabinl door frame [750X600MMX250MM] Suitable to fit in the duct /Surface made of not less then 16 SWG MS SHEET having full fronted glass hinged door [5 MM Thick clear glass] Complete in all respect	1	No.	4500.00	Rupees Four Thousand Five Hundred Only	Per Metre	4500.00

8.00	Providing and fixing of RRL Hose pipe 63 mm dia and 15 mtr long rubberized fabric lined one length including male female instantaneous type coupling wounded complete confirming to IS 636-1988 Type A	2	Nos.	5800.00	Rupees Five Thousand Eight Hundred Only	Each	11600.00
9.00	S/F CO2 Type carbon Dioxide fire equipment 4.5 Kg make ATASEE [ISI] Complete in all respect	20	Nos.	5900.00	Rupees Five Thousand Nine Hundred Only	Each	118000.00
10.00	S/F ABC Store pressure type fire Extinguisher capacity 10 Kg make ATASEE [ISI] Complete in all respect	2	Nos.	2800.00	Rupees Two Thousand Eight Hundred Only	Each	5600.00
11.00	S/F Water H2O type fire Extinguisher capacity 9 Ltr make ATASEE [ISI] Complete in all respect	40	Nos.	2600.00	Rupees Two Thousand Six Hundred Only	Each	104000.00
12.00	Supply and Fixing Teen Shed Room for Settling Pump House including Door cutting welding MS sheet Hinges, Nuts and Bolts, Painting and all Accessories complete in all respect	1	No.	70000.00	Rupees Seventy Thousand Only	Per Set	70000.00
	Total						461990.00

Draft Schedule of Quantity checked and approved for RS. 4,61,990/- only.

Executive Engineer,
Electrical Division
HPPWD Mandi [HP]

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Job-									Estimated Cost :- Rs. 2,08,199 /- Only Earnest Money :- Rs.4200 /- Only Time :- Along with civil work.
DRAFT SCHEDULE OF QUANTITY									
NAME OF WORK:- C/o Veterinary Dispensary at Kothi, Tehsil Balh Distt Mandi (HP) (SH- Prov. E.I. there in.)									
S.No.	Description	Qty.	In Figure	Rate 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 steel conduit with modular switch, suitable G.I. box 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:- FINOLEX/PLAZA/RR/UNITECH/BENTION/KEI	20	1762.00	Rupees One Thousand Seven Hundred SixtyTwo Only	Each	35240.00			
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 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:- FINOLEX/PLAZA/RR/UNITECH/BENTION/KEI								
2.01	2x1.5 Sq. mm.	45	315.00	Rupees Three Hundred Fifteen Only	Per Metre	14175.00			
2.02	2x4.0 Sq. mm.	25	429.00	Rupees Four Hundred TwentyNine Only	Per Metre	10725.00			
2.03	2x10 Sq. mm.	5	731.00	Rupees Seven Hundred ThirtyOne Only	Per Metre	3655.00			
3.00	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 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:- FINOLEX/PLAZA/RR/UNITECH/BENTION/KEI	15	694.00	Rupees Six Hundred NinetyFour Only	Per Metre	10410.00			
4.00	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. MAKE:- FINOLEX/PLAZA/RR/UNITECH/BENTION/KEI	15	98.00	Rupees NinetyEight Only	Per Metre	1470.00			
5.00	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 complete in all respect as per entire satisfaction of Engineer- in- Charge. i) 20 mm. dia MAKE : AKG/ BEC / NIC/ Diplast.	15	127.00	Rupees One Hundred TwentySeven Only	Per Metre	1905.00			
6.00	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 as per entire satisfaction of Engineer- in- Charge. Make : Legrand (Myriu) / L&T (Entice) / Anchor /SSK / ABB (Similar Class).	6	607.00	Rupees Six Hundred Seven Only	Each	3642.00			
7.00	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 as per entire satisfaction of Engineer- in- Charge. Make : Legrand (Myriu) / L&T (Entice) / Anchor /SSK / ABB (Similar Class).	5	484.00	Rupees Four Hundred EightyFour Only	Each	2420.00			

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 complete in all respect as per entire satisfaction of Engineer-in-Charge Make : Racold / Bajaj / Usha.	1	No	10869.00	Rupees Ten Thousand Eight Hundred SixtyNine Only	Each	10869.00
9.00	10 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 i) Single pole. Cat-A. Make : L&T / Legrand / Siemens.	12	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	3372.00
10.00	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
11.00	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.	2693.00	Rupees Two Thousand Six Hundred NinetyThree Only	Each	2693.00
12.00	Double door-12 way Supplying, Erection & commissioning of Unearth maintenance free chemical earthing system consisting environment friendly ground enhance compound G.E.C. 50 kg or as reqd at site having anticorrosive and hygroscopic properties to replace excavated soil. it should consist of unearth copper bonded electrode, as per site condition and soil resistivity at various depth level and different terminals. the electrode should have coating of 250 micron of molecularly bonded pure electrolyte copper 99.9 % in 2 mtr length, 17.2 mm diameter terminal joint 200x25x6 GI strip with exothermic welds the electrode should be duly tested and certified by CPRI for 30 kA short time current test for 1 sec rms, complete as reqd complete in all respect as per entire satisfaction of Engineer-in-Charge.	1	Set	23170.00	Rupees TwentyThree Thousand One Hundred Seventy Only	Per Set	23170.00
13.00	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 as per entire satisfaction of Engineer-in-Charge.	25	Metre	167.00	Rupees One Hundred SixtySeven Only	Per Metre	4175.00
14.00	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) 225 mm sweep Make: Bajaj, Usha, Anchor Panasonic.	3	Nos	2188.00	Rupees Two Thousand One Hundred EightyEight Only	Each	6564.00
15.00	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 1400 mm sweep with 5-star rating Make: Bajaj, Usha, Anchor Panasonic.	3	Nos	5164.00	Rupees Five Thousand One Hundred SixtyFour Only	Each	15492.00

16.00	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 KAY.	2	Nos.	279.00	Rupees Two Hundred SeventyNine Only	Each	558.00
17.00	Supplying and fixing wall bracket 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/ Phillips/Bajaj/ Jaquar	1	No.	2207.00	Rupees Two Thousand Two Hundred Seven Only	Each	2207.00
18.00	Supplying and fixing Mirror light 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/ Phillips/Bajaj/ Jaquar	1	No.	1835.00	Rupees One Thousand Eight Hundred ThirtyFive Only	Each	1835.00
19.00	Supplying and fixing DOWN LIGHT 12W light with aluminium housing, 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 Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	1	No.	1022.00	Rupees One Thousand TwentyTwo Only	Each	1022.00
20.00	Supplying and fixing Surface / recess / pendant 1x1 24 watt Ultra slim panel 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.	2	Nos.	2360.00	Rupees Two Thousand Three Hundred Sixty Only	Each	4720.00
21.00	Providing and fixing LED Surface mounted 2x2 36 watt Square panel 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.	6	Nos.	3887.00	Rupees Three Thousand Eight Hundred EightySeven Only	Each	23322.00
22.00	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, Jaquar, Bajaj, Phillips etc.	1	No.	2235.00	Rupees Two Thousand Two Hundred ThirtyFive Only	Each	2235.00
23.00	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia. the pipe bent 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	1	No.	675.00	Rupees Six Hundred SeventyFive Only	Each	675.00
24.00	32 mm dia. G.I. pipe, heavy class Providing and fixing Glazed LED 40 watt Ballen 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 : Clair / Wipro / Bajaj / Phillips / Jaquar / Hevelis	7	Nos.	2904.00	Rupees Two Thousand Nine Hundred Four Only	Each	20328.00
	Total						208199.00

*Draft schedule of Quantity checked
and approved for RS. 208199/- only*

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

Job-10						Estimated Cost - Rs. 101935/- Only
						Earnest Money - Rs. 2050 /- Only
						Time :- One Month
DRAFT SCHEDULE OF QUANTITY						
NAME OF WORK :- Prov. wiring & LED D/L 2x2, Mirror Light , Exhaust Fan , in renovated Div. No. II & Replacement of old LED tube Fixture & other Electrical Accessories in EE Office Div No. II, Supdt. Grade -I, EE Quality Control office, EE (Electrical) Div. Office & various branches of Chief office building at Jail Road Mandi under ESD MANDI						
S No.	Description	Qty.	In Figure	Rate In Words	Unit	Amount
1.00	Wiring for light point / fan point / exhaust fan / cell bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit and earthing the light point with 1.5 Sq. mm. HFRF/PVC insulated single core copper conductor cable as required complete in all respect. MAKE:- FINOLEX/PLAZA/RUNITECH/BENTON/KEI	10 Nos	1294.00	Rupees One Thousand Two Hundred NinetyFour Only	Each	12940.00
2.00	Group C. Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No 1.5 Sq. mm. HFRF/PVC insulated single core copper conductor cable for earthing as required complete in all respect. MAKE:- FINOLEX/PLAZA/RUNITECH/BENTON/KEI	50 Metre	215.00	Rupees Two Hundred Fifteen Only	Per Metre	10750.00
3.00	2x1.5 Sq. mm. Providing and fixing of following sizes of PVC casing and capping on surface as required complete in all respect. MAKE:- POLYFET, DIPLAST, PLAZA	32 Metre	65.00	Rupees SixtyFive Only	Per Metre	2080.00
4.00	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. MAKE:- POLYFET, DIPLAST, PLAZA	30 Metre	130.00	Rupees One Hundred Thirty Only	Per Metre	3900.00
5.00	25 mm dia Prov. & fixing LED surface mounted 2x2 36 watt square panel with aluminium die cast housing of superior quality complete with connection, commissioning as reqd. complete in all respect. MAKE: Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	8 Nos.	3900.00	Rupees Three Thousand Nine Hundred Only	Each	31200.00
6.00	Supplying & fixing surface/Recess mounting LED slim downlighter with high efficient LED 'S' and glare free 36 watt including connection etc. as reqd. complete in all respect as per entire satisfaction of engineer in charge. MAKE Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	6 Nos.	995.00	Rupees Nine Hundred NinetyFive Only	Each	5970.00
7.00	Prov. & fixing glazed LED 20 watt batter high quality design aluminium extruded with decorative end caps complete with connection, testing, commissioning etc as reqd. complete in all respect. MAKE Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	9 Nos	548.00	Rupees Five Hundred FortyEight Only	Each	4932.00
8.00	Supplying and fixing bakelite battery/angle holder including connections etc. as required complete in all respect. MAKE:- UEGRAND / (MYRIU/L&T/ENTIC)/ANCHOR/SSK/ABB	2 Nos	88.00	Rupees EightyEight Only	Each	176.00
9.00	Supplying and fixing of mirror light complete with all accessories including making connections testing etc. as required complete in all respect. Make :- WIPRO/ Philips / Bajaj/Jaguar	2 Nos	368.00	Rupees Three Hundred SixtyEight Only	Each	736.00

10.00	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 :- SSK/MK/CONA	5	Nos	281.00	Rupees Two Hundred EightyOne Only	Each	1405.00
11.00	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. MAKE :- USHA/BAJAJ/ CROMPTON	1	Nos	2110.00	Rupees Two Thousand One Hundred Ten Only	Each	2110.00
12.00	Exhaust Fan, Light duty, (Domestic) 300 mm sweep 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/BAJAJ/ CROMPTON	2	Nos	2773.00	Rupees Two Thousand Seven Hundred SeventyThree Only	Each	5546.00
13.00	Ceiling Fan 1400 mm sweep, Category-A Prov. installation of wall fan of following sizes in the existing opening, i/c making the hole to suit the size of above fan making the damages, connection, testing and commissioning etc. as required complete in all respect. MAKE:- USHA/BAJAJ/ CROMPTON	2	Nos.	2788.00	Rupees Two Thousand Seven Hundred EightyEight Only	Each	5576.00
14.00	Wall fan Light Duty (Domestic) 400 mm sweep cat-A Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required required complete in all respect. Make :- Legrand(Myriu)/ L&T/ (Entice) /Anchor /SSK/ ABB(Similar Class)						
14.01	5/6 Amps. piano type switch	12	Nos.	45.00	Rupees FourtyFive Only	Each	540.00
14.02	5/6 Amps. piano type socket	12	Nos.	65.00	Rupees SixtyFive Only	Each	780.00
14.03	15/16 Amps. piano type switch	16	Nos.	138.00	Rupees One Hundred ThirtyEight Only	Each	2208.00
14.04	15/16 Amps. piano type socket	16	Nos.	147.00	Rupees One Hundred FourtySeven Only	Each	2352.00
14.05	Bell Push	10	Nos.	79.00	Rupees SeventyNine Only	Each	790.00
15.00	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 required complete in all respect. Make :- Legrand/ L&T/Siemens	6	Nos.	1324.00	Rupees One Thousand Three Hundred TwentyFour Only	Each	7944.00
	Double pole. Cat-A.						
	Total						101935.00

Draft schedule of quantity checked and approved for Rs. 101935/-only.

*Executive Engineer,
Electrical Division,
H.P.B.W.D. Mandi (H.P.)*

Job- 11					Estimated Cost - Rs 336250/- Only	
					Earnest Money - Rs 6750/- Only	
					Time - Along with civil work	
DRAFT SCHEDULE OF QUANTITY						
Name of work:- C/o AE Office building at babeli Distt. Kullu H.P. (SH: Prov. E.I. to G.floor there in)						
S.No	Description	Qty.	In Figure	Rate	Unit	Amount
				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 complete in all respect. Make : L&T / Anchor / havells / PLAZA or Equivalent.	47	Nos.	Rupees One Thousand Two Hundred EightyThree Only	Each	60301.00
	Group C.					
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					
2.01	2x1.5 Sq. mm	65	Metre	Rupees Two Hundred Ten Only	Per Metre	13650.00
2.02	2x4.0 Sq. mm	60	Metre	Rupees Three Hundred TwentyFour Only	Per Metre	19440.00
2.03	2x10.0 Sq. mm	5	Metre	Rupees Five Hundred NinetyEight Only	Per Metre	2990.00
3.00	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. Makes : KEI/Anchor/havells/PLAZA or Equivalent.					
3.01	3x1.5 Sq. mm	30	Metre	Rupees NinetyEight Only	Per Metre	2940.00
3.02	3x4.0 Sq. mm	30	Metre	Rupees Two Hundred Eighteen Only	Per Metre	6540.00
4.00	Supplying and fixing G.I. Modular box of suitable size with modular plate and cover in front on surface or in recess including providing and fixing 5 pin 5/6 amps modular	17	Nos	Rupees Four Hundred EightyFour Only	Each	8228.00
5.00	Supplying and fixing G.I. Modular box of suitable size with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps. modular switch, connections etc. as required complete in all respect Make- ESS ESS KAY / CONA /ANCHOR.	5	Nos	Rupees Six Hundred Seven Only	Each	3035.00
6.00	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 Single pole Cat-A.	12	Nos.	Rupees Two Hundred EightyOne Only	Each	3372.00
7.00	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. Double pole. Cat-A.	1	No.	Rupees One Thousand Three Hundred Twenty Only	Each	1320.00

8.00	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB) having a sensitivity current up to 300 63 Amps Cat-A	1	No	3931.00	Rupees Three Thousand Nine Hundred ThirtyOne Only	Each	3931.00
9.00	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	3461.00	Rupees Three Thousand Four Hundred SixtyOne Only	Each	3461.00
10.00	Double door-16 way Supply Erection, Installation and Commissioning of UniEarth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compound 'G E C' 50 kg or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of "Uniearth" Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should have coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 metre length, 17.2 mm diameter, Terminal joint 200x25x6mm GI Strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30 kA short time current test for 1 sec rms. with The earth pit cover 300 mm x 300mm will be heavy duty type made of FRP with a openable lid for periodic inspection of the earth pit	2	set	23170.00	Rupees Twenty Three Thousand One Hundred Seventy Only	Per Set	46340.00
11.00	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	20	Metre	45.00	Rupees FortySix Only	Per Metre	920.00
12.00	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 : I&T/Anchor/havells or Equivalent.	3	Nos.	279.00	Rupees Two Hundred SeventyNine Only	Each	837.00
13.00	Supplying & fixing 25 Watt LED Street light in aluminium pressure die cast housing with toughened glass cover (IP66 rating) complete with all accessories, connections, testing Makes:-Jaquar (LED Street light) (Cat No.LPCRSRT25WLC)/C&S/Crompton/bajaj or Equivalent.	1	No.	2754.00	Rupees Two Thousand Seven Hundred FiftyFour Only	Each	2754.00
14.00	Supplying & fixing DOWN LIGHT 18W surface light with aluminium housing, complete with all accessories, connections, testing and commissioning etc. as required complete Makes:-Havell's (surface) (Cat No.LHEAHP61L1W018)/C&S/Crompton/bajaj or Equivalent.	16	Nos.	1390.00	Rupees One Thousand Three Hundred Ninety Only	Each	22240.00
15.00	Supplying & fixing DOWN LIGHT 12W light with aluminium housing, complete with all accessories, connections, testing and commissioning etc. as required complete in all Makes:-Jaquar NERO SURFACE ROUND(Cat no LNRC02R012SC)/C&S/Crompton/bajaj or Equivalent make.	7	Nos.	1086.00	Rupees One Thousand EightySix Only	Each	7602.00
16.00	Supplying & fixing LED BULK HEAD, 10 watt of Halonix make, Energy efficient Wall mounted LED Bulk head, Luminaire made of pressure die cast aluminium housing & enclosed with poly carbonate cover IP65 including making connections, testing and commissioning etc. as required complete in all respect	9	Nos.	1469.00	Rupees One Thousand Four Hundred SixtyNine Only	Each	13221.00
17.00	Makes:-Halonix (Cat No.HLBH-02-10-CW)/C&S/bajaj or Equivalent. 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, Exhaust Fan, Light duty, (Domestic) 300 mm sweep	4	Nos.	2244.00	Rupees Two Thousand Two Hundred FortyFour Only	Each	8976.00

18.00	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 as per entire satisfaction of Engineer-in-Charge i) Ceiling fan 1200 mm sweep (Category -A) Make : Usha / Bajaj / Anchor Panasonic.	5	Nos	4559.00	Rupees Four Thousand Five Hundred FiftyNine Only	Each	22795.00
19.00	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. Make:- Voltas / Bluestar / Mitsubishi.	1	No.	81357.00	Rupees EightyOne Thousand Three Hundred FiftySeven Only	Each	81357.00
	Total						336250.00

*Draft schedule of Quantity checked
and approved for RS. 336250/- only.*

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

2

Job- 12							Estimated Cost :- Rs 332549/- Only Earnest Money :- Rs. 6700/- Only Time :- One Month
DRAFT SCHEDULE OF QUANTITY							
Name of Work : Supplying and fixing chandelier and fancy fixtures in vip set at A/A to circuit house at Manali Distt.Kullu H.P							
S No.	Description	Qty.	In Figure	Rate	In Words	Unit	Amount
1.00	Supplying & fixing , 4 LT Star shap glass tube with Chrome finishing ceiling light, complete with all accessories, connetions testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer- in- Charge.	2 Nos	17189.00		Rupees Seventeen Thousand One Hundred EightyNine Only	Each	34378.00
2.00	Make :- Jaquar ROUND (Cat no JES-CHR-MX81364B)/C&S/ Crompton/bajaj or Equivalent make. Supplying & fixing , Floor Lamp , E 27 HOLDER, complete with all accessories, connetions, testing and commissioning etc. as required complete in all the best satisfaction of Engineer - in -Charge.	1 No	16952.00		Rupees Sixteen Thousand Nine Hundred Fifty Two Only	Each	16952.00
3.00	Make:-Tisva HEMIL (cat No fp106051F) /JAQUAR or Equivalent make. Supplying & fixing , 1 LT lovry fabric shade with 3w, chrome finishing Wall Lamp E14 complete with all accessories , connetions, testing and commissioning etc. as required complete in all the best satisfaction of Engineer -in -Charge.	2 Nos	5233.00		Rupees Five Thousand Two Hundred Thirty Three Only	Each	10466.00
4.00	Make:- JAQUAR (cat no WBR-CHR-MB12021182A) /JAQUAR or Equivalent make. Supplying & fixing , 3 LT Frosted Glass with Rose Gold finishing Pendant light, E27 holder complete with all accessories, connetions , testing and commissioning etc. as required complete in all the best satisfaction of Engineer -in -Charge.	1 No	6653.00		Rupees Six Thousand Six Hundred Fifty Three Only	Each	6653.00
5.00	Makes:- JAQUAR (cat no JNL-RDG-SL00FRD3E27) /JAQUAR or Equivalent make. Supplying and fixing indoor led strip light 3W per meter, complete ad required complete in all respect	20 Nos		65	Rupees SixtyFive Only	Each	1300.00
6.00	3W indoor striop makes:- Havells/goldmedal/equivalent reputed make. Supplying and fixing LED fancy chandelier of length 20ft aprox Made up of 60.000 customised crystals. Upto 78-80kg ,5000watt as required Complete in all respect	1 Metre	262800		Rupees Two Lakh SixtyTwo Thousand Eight Hundred Only	Per Metre	262800.00
	Total						332549.00

Draft schedule of quantity checked and approved for Rs. 332549/-only.

Executive Engineer,
Electrical Division,
HP BWD, Mandi (HP)

[Signature]

D.N.I.T		ESTIMATE COST:-475318/-	
		EARNEST MONEY:-9500	
		TIME PERIOD:-ONE MONTH	

Name Of Work:-SITC of Main Electrical Panel at A/A to circuit house at Manali, distt. Kullu H.P.		qty	rate in figures	rate in words	unit	amount
description						
supplying and installation of Electrical panel suitable for 800A incomer, made of MS cabinet 2m thick with base frame. Complete with SMC/DMC insulator, control wiring, power wiring and thimble, suitable door locks and hinges, rubber gaskets, heat shrinkable sleeves, engraved name plates, hardware & misc. accessories, epoxy powder coated paint complete as required complete in all respect. The panel shall be made of suitable size and dimensions so as to incorporate the switchgear accessories installed and commissioned ready to use as detailed below. with cable entry box on one or both sides.						
The panel shall include the following switch gear and accessories fully						
Sr. No.	Description	make	qty			
A	main incomer					
1	800A ACB MDO TYPE WITH O/L,S/C,E/F RELEASE MICROPROCESSOR BASED	I&T /HAVELLS /ABB	1			
2	3PHASE VAF METER DIGITAL TYPE	I&T /HAVELLS /ABB	1			
3	CURRENT TRANSFORMER 1000/5 CL 1.0	RISHAB/MATRIX/AE	3			
4	RY PHASE INDICATION LAMPS	I&T /HAVELLS /ABB	2			
5	B PHASE INDICATION LAMPS	I&T /HAVELLS /ABB	1			
6	ON/ OFF INDICATION LAMPS	I&T /HAVELLS /ABB	2			
7	5A CONTROL MINIATURE CIRCUIT BREAKER	I&T /HAVELLS /ABB	3			
B	OUTGOING					
	MCCB FEEDER 200A					
1	200A MCCB 3P	I&T/HAVELLS/ABB	3			
2	EXTENDED ROTARY MODULE	I&T/HAVELLS/ABB	3			

Job- 14							Estimated Cost :- Rs. 402929/- Only
							Earnest Money :- Rs. 8060 /- Only
							Time :- Along with civil work.
DRAFT SCHEDULE OF QUANTITY							
Name of Work : C/o Govt Sr Sec School at Kashimbidhar Tehsil Balichowki Distt Mandi HP (Sh- Prov. E.I. in there in.)							
S No.	Description	Qty.	In Figure	In Words	Rate	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 Cable MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	92	1259.00	Rupees One Thousand Two Hundred FiftyNine Only		Each	115828.00
2	Group C. 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 Cable MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.						
i)	2x1.5 Sq. mm.	140	Metre	210.00	Rupees Two Hundred Ten Only	Per Metre	29400.00
ii)	2x4.0 Sq. mm.	30	Metre	324.00	Rupees Three Hundred TwentyFour Only	Per Metre	9720.00
iii)	2x6.0 Sq. mm.	30	Metre	449.00	Rupees Four Hundred FourtyNine Only	Per Metre	13470.00
iv)	2x6.0 Sq. mm.	5	Metre	588.00	Rupees Five Hundred EightyEight Only	Per Metre	2940.00
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required complete in all respect. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	60	Metre	98.00	Rupees NinetyEight Only	Per Metre	5880.00
4	3x1.5 Sq. mm. 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. Cable MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	15	Metre	551.00	Rupees Five Hundred FiftyOne Only	Per Metre	8265.00
5	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- ESS KAY / CONA /Anchor	11	Nos.	304.00	Rupees Three Hundred Four Only	Each	3344.00
6	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.	4	Nos.	480.00	Rupees Four Hundred Eighty Only	Each	1920.00

7	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 as per entire satisfaction of Engineer-in-Charge. Make : Usha / Bajaj / Anchor Panasonic.	12	Nos.	2645.00	Rupees Two Thousand Six Hundred FortyFive Only	Each	31740.00
i)	Ceiling Fan 1200 mm sweep						
ii)	Ceiling Fan 1400 mm sweep	8	Nos.	2831.00	Rupees Two Thousand Eight Hundred ThirtyOne Only	Each	22648.00
8	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 Engineer-in-Charge. Make : Usha / Bajaj / Anchor Panasonic.	2	Nos.	2224.00	Rupees Two Thousand Two Hundred TwentyFour Only	Each	4448.00
9	Exhaust Fan, Light duty, (Domestic) 300 mm sweep 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.	18	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	5058.00
10	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..	4	Nos.	1320.00	Rupees One Thousand Three Hundred Twenty Only	Each	5280.00
11	Double pole Cat-A 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. Make : L&T / Legrand / Siemens..	1	No.	3931.00	Rupees Three Thousand Nine Hundred ThirtyOne Only	Each	3931.00
12	63 Amps, 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 4Way	4	Nos.	1768.00	Rupees One Thousand Seven Hundred SixtyEight Only	Each	7072.00
ii)	Double Door 8 Way	2	Nos.	2193.00	Rupees Two Thousand One Hundred Ninety Three Only	Each	4386.00

[illegible]

Executive Engineer,
Electrical Division,
HP_PWD, Mandi (HP)

Job- 15						Estimated Cost - Rs. 193200.- Only
						Earnest Money - Rs. 3865/- Only
						Time - Alongwith civil work

Draft SCHEDULE OF QUANTITY

NAME OF WORK:- C/O Veterinary Disp. Building at Lamba Safar Tehsil Thunag Distt Mandi (HP)/Sh:- Prov. E.I. in therein

S No	Description	Qty	Rate		Unit	Amount
			In Figure	In Words		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed 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. as per entire satisfaction of engineer in charge. 1) Group C : MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	21	1259 00	Rupees One Thousand Two Hundred FiftyNine Only	Each	26439 00
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed 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. as per entire satisfaction of engineer in charge. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	40	210 00	Rupees Two Hundred Ten Only	Per Metre	8400 00
	2x1.5 Sq. mm.	40	324 00	Rupees Three Hundred TwentyFour Only	Per Metre	12960 00
	2x4.0 Sq. mm.	5	449 00	Rupees Four Hundred FortyNine Only	Per Metre	2245 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 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. as per entire satisfaction of engineer in charge. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	20	551 00	Rupees Five Hundred FiftyOne Only	Per Metre	11020 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. as per entire satisfaction of engineer in charge. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTON / KEI.	20	98 00	Rupees NinetyEight Only	Per Metre	1960 00
	3x1.5 Sq. mm.	5	304 00	Rupees Three Hundred Four Only	Each	1520 00
5	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 ESS KAY / COSMO/Anchor/L&T	6	440 00	Rupees Four Hundred Eighty Only	Each	2640 00
6	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 as per entire satisfaction of engineer in charge. Make : ESS ESS KAY / COSMO/Anchor/L&T	2	91 00	Rupees NinetyOne Only	Each	182 00
7	Supplying and fixing bakelite batter/angle holder including connections etc. as required complete in all respect as per entire satisfaction of engineer in charge. Make: Anchor/ Kona					

8	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 as per entire satisfaction of engineer in charge. Make: Anchor/Kona	3	Nos.	279.00	Rupees Two Hundred SeventyNine Only	Each	837.00
9	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect as per entire satisfaction of engineer in charge. Make: L&T / Legrand / SIEMENS.	10	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	2810.00
10	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 as per entire satisfaction of engineer in charge. Make: L&T / Legrand / SIEMENS.	1	No.	1320.00	Rupees One Thousand Three Hundred Twenty Only	Each	1320.00
11	Supplying and fixing of following way, single pole and neutral sheet, steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels, interconnections, phosphatized and powder painted, including earthing etc. as required complete in all respect as per entire satisfaction of engineer in charge. Make: L&T / Legrand / SIEMENS.	14	Nos.	2693.00	Rupees Two Thousand Six Hundred NinetyThree Only	Each	37702.00
12	Double Door 12Way Supply, Erection, Installation and Commissioning of UniEarth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compound 'G.E.C.' 50 kg or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of "UniEarth" Copper bonded electrodes, as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should have coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 metre length, 17.2 mm diameter, Terminal joint 200x25x6mm GI Strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30 KA short time current test for 1 sec rms. with The earth pit cover 300 mm x 300mm will be heavy duty type made of FRP with a openable lid for periodic inspection of the earth pit.	1	Set	24943.00	Rupees TwentyFour Thousand Nine Hundred FortyThree Only	Per Set	24943.00
13	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.	15	Meter	167.00	Rupees One Hundred SixtySeven Only	Per Metre	2505.00
14	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/Crompton Greaves, Jaquar	1	No.	13727.00	Rupees Thirteen Thousand Seven Hundred TwentySeven Only	Each	13727.00
15	25 Liter capacity water heater (Cat-A) 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: Bajaj/Usha/Crompton Greaves	1	No.	2224.00	Rupees Two Thousand Two Hundred TwentyFour Only	Each	2224.00
16	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bent to give an angle of 100 to 110 degree lined 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.	1	No.	567.00	Rupees Five Hundred SixtySeven Only	Each	567.00
	32 mm dia G.I. pipe, heavy class						

17	Providing and FIXING led SURFACE Mounted 1x1 luminaire to enhance the delight of occupants with comfortable experience through its classic design and glare free illumination of Bajaj Make complete with connection Testing commissioning etc as required complete in all respect Make : Bajaj/Siska/Jaquar/Philips	8	Nos	2286 000	Rupees Two Thousand Two Hundred EightySix Only	Each	18288.00
18	Prov. & Fixing glazed LED 20 watt batten high quality design aluminium extruded with decorative end caps complete with connection , testing , commissioning etc as required complete in all respect as per entire satisfaction of engineer in charge. Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Philips etc.	2	Nos	544 000	Rupees Five Hundred FortyFour Only	Each	1088.00
19	Supplying and Fixing LED Street Light 25 Watt LED made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC Cover having TOP OPENING separate driver compartment with IP 66 protection and impact resistance of IK 07 luminaire complete with connection testing commissioning etc as required complete in all respect Make: Bajaj/Siska/Jaquar/Philips	2	Nos	2968 000	Rupees Two Thousand Nine Hundred SixtyEight Only	Each	5936.00
20	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 as per entire satisfaction of Engineer-in-Charge i) Ceiling fan 1200 mm sweep (Category -A) Make : Usha / Bajaj / Anchor Panasonic.	3	Nos	4549 000	Rupees Four Thousand Five Hundred FortyNine Only	Each	13647.00
Total							193200.00

*Draft schedule of Quantity checked & approved for Rs 193200/-
Rs one lakh twenty three thousand two hundred only*

[Signature]
Executive Engineer
Electrical Division
HPPWD, Mandi

Job-16

Job-16									Estimated Cost:- Rs.428577/-only.	
									Earnest Money Rs.8600/-only.	
									Time :- Alongwith civil work.	
Draft Schedule of quantity										
NAME OF WORK :- C/O Community Centre Bagla Mukhi Temple Bharari Tehsil Thunag DISTT. MANDI (SH:- PROVIDING E.I. THERE IN)										
S.NO.	Description	Qty.	Rate in figure	Rate in word.	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. as per entire satisfaction of engineer in charge. i) Group C. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTION / KEI.	73	1259.00	Rupees One Thousand Two Hundred FiftyNine Only	Each	91907.00				
2.00	Wiring for circuit/sub-main 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. complete in all respect. as per entire satisfaction of engineer in charge. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTION / KEI.									
2.01	2x1.5 Sq. mm.	100	210.00	Rupees Two Hundred Ten Only	Per Metre	21000.00				
2.02	2x4.0 Sq. mm.	100	324.00	Rupees Three Hundred TwentyFour Only	Per Metre	32400.00				
2.03	2x10Sq. mm.	10	588.00	Rupees Five Hundred EightyEight Only	Per Metre	5880.00				
3.00	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. complete in all respect. as per entire satisfaction of engineer in charge. MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTION / KEI.	40	551.00	Rupees Five Hundred FiftyOne Only	Per Metre	22040.00				
4.00	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. Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .	30	98.00	Rupees NinetyEight Only	Per Metre	2940.00				
5.00	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 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required.ESS ESS KAY / COSMO/Anchor/L&T	5	304.00	Rupees Three Hundred Four Only	Each	1520.00				

6.00	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 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required.ESS KAY / COSMO/Anchor/L&T	7	Nos.	480.00	Rupees Four Hundred Eighty Only	Each	3360.00
7.00	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. as per entire satisfaction of engineer in charge. i) Single pole. Cat-A. MAKE :- LEGRAND / L&T/C&S / GE	17	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	4777.00
8.00	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. as per entire satisfaction of engineer in charge. i) Double pole. Cat-A. MAKE :- LEGRAND / L&T/C&S / GE	1	No.	1320.00	Rupees One Thousand Three Hundred Twenty Only	Each	1320.00
9.00	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 as per entire satisfaction of engineer in charge.. MAKE :- LEGRAND / L&T / C&S / GE						
	Double door-12way	2	Nos.	2693.00	Rupees Two Thousand Six Hundred NinetyThree Only	Each	5386.00
10.00	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 in all respect.	1	Set	5126.00	Rupees Five Thousand One Hundred TwentySix Only	Per Set	5126.00
11.00	Extra for using salt and charcoal for G.I. or copper plate earth electrode complete as required complete in all respect.	1	Set	1493.00	Rupees One Thousand Four Hundred NinetyThree Only	Per Set	1493.00
12.00	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
13.00	Prov. and fixing LED surface mounted 2x2 36 watt square panel with aluminium die cast housing of superior quality complete with connection , commissioning as required complete in all respect. as per entire satisfaction of engineer in charge Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	36	Nos.	3887.00	Rupees Three Thousand Eight Hundred EightySeven Only	Each	139932.00
14.00	Prov. and fixing LED surface/recess / pendent mounted 1x1 24 watt square aluminium die cast housing of superior quality complete with connection , commissioning as required complete in all respect. as per entire satisfaction of engineer in charge. Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	24	Nos.	2360.00	Rupees Two Thousand Three Hundred Sixty Only	Each	56640.00

15.00	Prov. and Fixing glazed LED 20 watt batten high quality design aluminium extruded with decorative end caps complete with connection , testing , commissioning etc as required complete in all respect. as per entire satisfaction of engineer in charge. Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.	6	Nos.	808.00	Rupees Eight Hundred Eight Only	Each	4848.00
16.00	S/F LED Street Light 25 Watt LED Made up of pressure dia cast aluminium housing with high power LED and lighting source and lens embedded PC Cover having top opening separate driver compartment with IP 66 Protection and impact resistance of IK 07 luminair complete with connection testing commissioning etc as required complete in all respect. i) Street Light LED 25 Watt MAKE :- Bajaj/Syska, Jaquar, Philips	3	Nos.	2385.00	Rupees Two Thousand Three Hundred EightyFive Only	Each	7155.00
17.00	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 engineer in charge. i) Exhaust Fan, Heavy duty, 300 mm sweep MAKE :- USHA /BAJAJ / CROMPTON	4	Nos.	4443.00	Rupees Four Thousand Four Hundred FourtyThree Only	Each	17772.00
18.00	S/E of Street light bracket made of GI Pipe A Class of suitable length and dia the pipe bended to give an angle of 100 to 110 degree fitted with bolts and nuts at the top of existing pole or wall including paintingthe pipe with two coats of approved paints over priming coat completed in all respect	3	Nos.	567.00	Rupees Five Hundred SixtySeven Only	Each	1701.00
	32 MM Dia GI pipe						428577.00
	TOTAL						

Draft Schedule of Quantity checked & approved for Rs. 428577/- = only Rs four lakh twenty eight thousand five hundred & seventy seven only.

MA
Executive Engineer
Electrical Division
HPPWD Mandi [HP]

Job- 17							Estimated Cost - Rs 4,99,015/- Only	
							Earnest Money - Rs 10000/- Only	
							Time - Along with civil work	
DRAFT SCHEDULE OF QUANTITY								
Name of work:- C/o Hostel block at JLN Govt Engg. College at sundarnagar Distt Mandi (SH: Providing additional Compound lights in left out area.)								
S.No.	Description	Qty.	In Figure	Rate	In Words	Unit	Amount	
1	Supplying and erection of cast iron base with galvanised steel tube pole of suitable length. The pole made out of cast iron with Galvanised steel tube pole finish with polyester with base plate 220*220. The poles to be primer coated and painted with polyester black paint/gray/PU painted black. Brackets are made out of Mild steel & Aluminium and suitable for heavy duty ornamental poles. The pole provided with a service window at bottom profile comprising 4-way 25 Amp connector terminals and a MCB etc. The pole to be mounted on a 1.2.4 cement concrete base (pedestal) of 450*450 mm and 450 mm L-type foundations bolts 4*16 mm dia with nuts, templates and all complete as per approved drawings. Foundation RCC 1.2.4 shall be of size 450*450 mm and depth 900mm c/c as per approved drawings. The foundation shall extend above surrounding ground/driveway level for 200mm and have slant 63mm dia PVC sleeve cast insitu foundation for cable entry as per the drawing, complete in all respects as required. -Make (Twinkle Delta-E cast iron) or at par in Bajaj, K-lite, luxmax, or any other make approved by Engineer-in-charge.							
1.01	Galvanised steel pole with cast iron (Single Bracket) overall length 4 meter	5 Nos.	69135.00		Rupees SixtyNine Thousand One Hundred ThirtyFive Only	Each	345675.00	
2	Supplying and fixing of LED hanging fixture 90w, spun Aluminium powder coated top and die cast aluminium base power LED are directly mounted on inbuilt heat sinks with prismatic diffuser complete with all accessories including making connections testing etc as required. Make:- (Twinkle cat no LUX-PT 166H) or at par in bajaj, syska, philips or any other make approved by Engineer-in-charge	5 Nos.	24963.00		Rupees TwentyFour Thousand Nine Hundred Sixty Three Only	Each	124815.00	
3	Providing and laying of one No aluminium conductor PVC insulated and PVC sheathed armoured/XLPE power cable working voltage 1100 volts grade direct in ground, to be laid 1 meter below the ground level including excavation sand cushioning protective covering and refilling the trench etc of the following size:							
3.01	Aluminium Armoured cable 2*6 sqmm	75 Metre	217.00		Rupees Two Hundred Seventeen Only	Per Metre	16275.00	
4	Supplying and Laying of double wall corrugated (DWC) HDPE pipes for underground power/communication/OFC cables, Protection with IS 14930 part II mark on it, as required complete in all respects in the existing trench at site. Make: Telerex D-Rex, Sifram, Duraline etc.							
4.01	SIZE OD/ID 63/50 (2")	50 Metre	245.00		Rupees Two Hundred FortyFive Only	Per Metre	12250.00	
	Total						499015.00	

*Draft schedule of Quantity checked
and approved for Rs. 499015/- only.*

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

D

Job- 18							Estimated Cost :- Rs. 4,91,960/- Only
							Earnest Money :- Rs.9900 /- Only
							Time :- Along with civil work.
DRAFT SCHEDULE OF QUANTITY							
Name of work:- C/o Hostel block at JLN Govt Engg College at sundarnagar Distt Mandi (SH: Providing Solar lights and SOP cables for warden and Mess Block there in.)							
S. No.	Description	Qty.	In Figure	Rate	In Words	Unit	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required complete in all respect.						
1.1	Group C	1	No.	1376	Rupees One Thousand Three Hundred SeventySix Only	Each	1376.00
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required complete in all respect.						
2.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	20	Metre	221	Rupees Two Hundred TwentyOne Only	Per Metre	4420.00
2.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	25	Metre	364	Rupees Three Hundred SixtyFour Only	Per Metre	9100.00
3	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required complete in all respect.	5	Nos.	545	Rupees Five Hundred FortyFive Only	Each	2725.00
4	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 5 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required complete in all respect.	5	Nos.	766	Rupees Seven Hundred SixtySix Only	Each	3830.00
5	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required complete in all respect.	1	No.	170	Rupees One Hundred Seventy Only	Each	170.00
6	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required complete in all respect of Approved Make						
6.1	Exhaust Fan, Heavy duty, 300 mm sweep	1	No.	3734	Rupees Three Thousand Seven Hundred ThirtyFour	Each	3734.00
7	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	40	Metre	1441	Rupees One Thousand Four Hundred FortyOne Only	Per Metre	57640.00
8	Supplying and fixing 40 watt high power solar led light 48AH battery 165w solar panel battery box as for suitable size	5	Nos.	39952	Rupees ThirtyNine Thousand Nine Hundred FiftyTwo Only	Each	199760.00

9	Supplying and fixing 5 meter Solar Octagonal pole 70mm and bottom 150mm base plate 260*260*20mm foundation bolt 4 pcs M20 solar structure with single Arm design complete Accessories.	5	Nos.	22882	Rupees TwentyTwo Thousand Eight Hundred EightyTwo Only	Each	114410.00
10	Providing and laying of one No aluminium conductor PVC insulated and PVC sheathed armoured/XLPE power cable working voltage 1100 volts grade direct in ground, to be laid 1 meter below the ground level including excavation sand cushioning protective covering and refilling the trench etc of the following size complete in all respect.						
10.1	Armoured cable 2*6 sqmm	175	Metre	217	Rupees Two Hundred Seventeen Only	Per Metre	37975.00
10.2	Armoured cable 16 sq. mm (twin core)	70	Metre	278	Rupees Two Hundred SeventyEight Only	Per Metre	19460.00
10.3	Armoured cable 25 sq. mm (3.5 core)	80	Metre	467	Rupees Four Hundred SixtySeven Only	Per Metre	37360.00
	Total						491960.00

Draft Schedule of Quantity checked and approved for RS. 491960/- only.

vt
Executive Engineer,
Electrical Division,
HP PWD, Mandi (HP)

Job-17									ESTIMATED COST :-Rs. 360641/- Only
									EARNEST MONEY :- Rs. 7250/- Only
									Time :- Along with civil work.
DRAFT SCHEDULE OF QUANTITY									
Name of work:- Co Cluster University Building at Govt. Degree College at Mandi H.P (SH- Providing wiring and Chemical Earthing for lift there in)									
S.N	Description of items	Qty	Rate in figure	Rate in words	UNIT	Amount			
1	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq. mm. HRRF/PVC insulated single core copper conductor cable as required complete in all respect as per entire satisfaction of engineer in charge. i) Group C Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .	9	Nos	1721.00	Rupees One Thousand Seven Hundred TwentyOne Only	Each	15489.00		
2	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. 1.5 Sq. mm. HRRF/PVC insulated single core copper conductor cable for earthing as required complete in all respect as per entire satisfaction of engineer in charge Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .	20	Metre	315.00	Rupees Three Hundred Fifteen Only	Per Metre	6300.00		
3	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. i) 3x4.0 Sq. mm. Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .	50	Metre	218.00	Rupees Two Hundred Eighteen Only	Per Metre	10900.00		
4	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 complete in all respect as per entire satisfaction of Engineer- in-Charge. Cable Make : CCI/ Universal/ Finolex / Polycab / Rallison / Grandlay.	50	Metre	1160.00	Rupees One Thousand One Hundred Sixty Only	Per Metre	58000.00		
5	Armoured cable 6 sq. mm (four core)								
	Supplying, Installation, Testing and commissioning of tripole chemical earthing which includes:	2	Nos	60000.00	Rupees Sixty Thousand Only	Each	120000.00		
i)	Three Nos. 10' long 17.2 mm. dia copper bonded rod 250 micro UL listed along with 60kg of backfill compound TF-50 XT including digging of pits								
ii)	Three Nos. Poly plastic pit cover with bottom size 350 mm top side closed 270 mm and height 270 on all three pits								
iii)	Copper earthing strip 25x5 mm for interconnection of all there pots long with necessary clamps								
iv)	Any other material required to complete the job as per entire satisfaction of Engineer in Charge including carriage of material in all land and lifts.								
6	Supplying and fixing copper tape 20mmx3mm thick on parapet or surface of wall for lightning conductor as required complete in all respect as per entire satisfaction of Engineer- in-Charge.	150	Metre	846.00	Rupees Eight Hundred FortySix Only	Each	126900.00		

7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 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 : Anchor /SSK /Conal/ Cosmo.	9	Nos.	304.00	Rupees Three Hundred Four Only	Each	2736.00
8	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 / Philips / K-lite / (Twinkle) Lux Max / Jaquar.	9	Nos.	1373.00	Rupees One Thousand Three Hundred SeventyThree Only	Each	12357.00
9	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 Engineer- in- Charge. Make: Bajaj , Usha, Anchor	1	No	2188.00	Rupees Two Thousand One Hundred EightyEight Only	Each	2188.00
10	Exhaust Fan, Light duty, (Domestic) 300 mm sweep 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-8 way Make : L&T / Legrand / ABB / SIEMENS.	1	No	2193.00	Rupees Two Thousand One Hundred NinetyThree Only	Each	2193.00
11	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 as per entire satisfaction of Engineer- in- Charge. i) Triple pole & Neutral (Category-A) Make : L&T / Legrand / Siemens.	1	No	2454.00	Rupees Two Thousand Four Hundred FiftyFour Only	Each	2454.00
12	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.	4	Nos	281.00	Rupees Two Hundred EightyOne Only	Each	1124.00
						TOTAL	360641.00

Draft Schedule of Quantity checked and approved for Rs. 360641/- only.

HT
Executive Engineer,
Electrical Division,
HP, PWD, Mandi (HP)

D

Job- 20							Estimated Cost:- Rs. 490925/- only
							Earnest Money:- Rs. 9850/- only
							Time:- Along with civil work.

ABSTRACT OF COST

NAME OF WORK :- C/O COMBIND OFFICE BUILDING AT NERCHOWK DISTT. MANDI H.P. (SH:- PROV. E.I. BALANCE WORK THERE IN)

Sr. No	Description	Qty	Rate		Units	Amount
			In figure	In words		
1	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:- FINOLE / PLAZA / RR / UNITECH / BENTION / KEI.					
i)	2x1.5 Sq. mm.	385	320.00	Rupees Three Hundred Twenty Only	Per Metre	123200.00
ii)	2x4.0 Sq. mm.	120	435.00	Rupees Four Hundred ThirtyFive Only	Per Metre	52200.00
iii)	2x6 Sq. mm.	35	605.00	Rupees Six Hundred Five Only	Per Metre	21175.00
2	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 complete in all respect. MAKE:- FINOLE / PLAZA / RR / UNITECH / BENTION / KEI.	350	701.00	Rupees Seven Hundred One Only	Per Metre	245350.00
3	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed. Steel/PVC conduit as required complete in all respect. i) 3x1.5 Sq. mm. MAKE:- FINOLE / PLAZA / RR / UNITECH / BENTION / KEI.	500	98.00	Rupees NinetyEight Only	Per Metre	49000.00
	TOTAL					490925.00

Draft Schedule of quantity checked and approved for Rs. 4,90,925/-only.

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

Job- 21							Estimated Cost - Rs.102150/- only	
							Earnest Money - Rs.2050/- only	
							Time - One Month	
DRAFT SCHEDULE OF QUANTITY								
Name of Work :- Providing and fixing A.C 1.5Tonne capacity in Office Building at HPPPWD Division Nerchowk Mandi								
Sr. No.	Description	Qty.	In figure	In words	Units	Amount		
1.00	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. LLYOD/VOLTAS/SAMSUNG / CARRIER make.	1	82985.00	Rupees EightyTwo Thousand Nine Hundred EightyFive Only	Each	82985.00		
2.00	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 complete in all respect. MAKE:- FINOLEX/ PLAZA/RR/UNITTECH/BENTION/KE	25	329.00	Rupees Three Hundred TwentyNine Only	Per Metre	8225.00		
3.00	2x4 Sq. mm. 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 complete in all respect. MAKE:- FINOLEX/ PLAZA/RR/UNITTECH/BENTION/KE	15	556.00	Rupees Five Hundred FiftySix Only	Per Metre	8340.00		
4.00	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 complete in all respect. MAKE:- POLYFIT , DIPLAST, PLAZA	20	130.00	Rupees One Hundred Thirty Only	Per Metre	2600.00		
	25 mm dia							
	TOTAL					102150.00		

Draft Schedule of Quantity checked and approved for RS.102150/- only

Executive Engineer,
Electrical Division,

HP. PWD, Mandi (HP).

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					Estimated Cost:- Rs. 498668/-only.
					Earnest Money:- Rs. 9970/-only.
					Time :- Two Months
Draft Schedule of quantity					
Name of Work :- R/M of E.I. N/R Building"s under SLBS.Govt College and Hospital Nerchowk in Distt. Mandi (HP) (SH:- Repair, Maintenance & Servicing arc extinguishing breaker's existing step down 11/.415 KV Panels ESS-I-VI of & 2000-2500amp=5 & 3200-4000amo =13 number with accessories.)					
Sr. Nos	Description	Qty.	In Fig.	Rate In world	Unit Amount
1	Maintenance and Servicing of following 1.1 KV arc extinguishing breaker have differant rating mentioned as under technical procedure and submit Re-Testing certification with test report format				
	<u>Visual Inspection</u>				
	Record operations counters				
	Check circuit breaker panels and insulation material for cracks and cleanliness.				
	Check the condition of enclosing cabinets including hinges, latches, locks, and door gaskets.				
	Check for loose or broken frame ground connections.				
	Check that all power and control circuit switches are closed and fuses are in place.				
	Inspect wiring for damaged insulation.				
	Reference - NFPA 70B-2016, Sections 11.10.6, 15.4, Table K.4(d), Table L.1.				
	<u>Preventive Maintenance</u>				
	Perform the following preventive maintenance of indoor and outdoor low-voltage draw-out air circuit breakers:				
	Check the frame, panel, and cabinet condition of the paint and repaint as necessary. Tighten bolts to recommend specifications. Clean the exterior of the cabinet.				
	Clean porcelain of bushings or insulators with water or a suitable cleaner. Repair chipped spots by painting with enamel such as 1201 glyptal. Tighten bolts to recommended specifications.				

	Perform in-depth bushing inspection for any carbon tracking, leaks, and cracks.								
	Clean and repair chipped spots, remove and clean interphase barriers.								
	Check main connections for loose or overheating terminals.								
	Remove arc chutes so that the contacts can be inspected. Dress contacts, if rough, with a fine file. It is necessary to carefully remove only the projecting beads. Pits on a flat, smooth surface are not objectionable.								
	Check contact springs for loss of temper, breaks, or rust deterioration.								
	Check flexible shunts at contact hinges for overheating and fraying. Tighten connections to recommended specifications.								
	Verify breaker fit and racking mechanism operation.								
	Check operating rods, shafts, and bell cranks for loose locknuts, setscrews, keys, bearings, bent rods, or twisted shafts, etc. Clean moving parts of rust, dirt, and accumulated grease and oil. Wash out bearings, pivots, and gears with a suitable cleaner. Lubricate with new grease or oil with the type required by the application being used. In cold climates, it is important to use a lubricant that will not stiffen with cold. Wipe off excess lube. Enclosed dust-tight bearings should require less servicing.								
	Observe the closing solenoid motor or spring during several closing operations to see that everything is in proper working order. Check the solenoid plunger for sticking in guides.								
	Check close coil resistance with an ohmmeter and insulation resistance with an appropriate insulation tester.								
	Observe the latch and trip mechanism during several tripping operations to see that everything is in working order.								

	Check latch and trip assembly pins, bearings, and latches for wear, binding, and misalignment.								
	Clean and lubricate latch and trip assembly. Check the latch carefully to see that it is not becoming worn so that it would unlatch from vibration or stick and fail to trip. Tighten bolts and screws to recommended specifications.								
	Observe tripping operation during electrical operation. See that the full energy action of the plunger is obtained. Check the plunger for sticking-in guides.								
	Inspect digital or electronic trip mechanisms for the power light and any possible error codes.								
	Check the condition of auxiliary contacts and refinish them with a burnishing tool if burned or corroded.								
	Check auxiliary contact springs, operating rods, and levers. Check the closing and opening position with respect to main contacts while the breaker is being slowly closed and opened manually. Certain auxiliary contacts used for special purposes may require adjustment for the closed position.								
	See that the position indicator or semaphore is properly indicating the breaker position. Check operating rods or levers for loose parts.								
	Reference – NFPA 70B-2016, Section 11, 15.								
	<u>Manual Operation</u>								
	Manually operate the indoor and outdoor low voltage draw-out air circuit breaker, 'CLOSE' and 'OPEN' three times.								
	Many breakers sit without any operation for long periods of time. This can be very harmful to the breakers operating mechanism and lead to faulty operations. This operation is best performed at the breaker with the local switch. Ensure the breaker is de-energized before operating.								
	Reference – NFPA 70B-2016, Section 11.10.6.								
	<u>Breaker Timing Test</u>								

Complete timing tests for both indoor and outdoor circuit breakers.								
Test all trip functions available. This may include long-time pickup and delay, short-time pickup and delay instantaneous, and ground-fault pickups.								
Insulation Resistance Test								
Complete an insulation resistance test for both indoor and outdoor low-voltage draw-out air circuit breakers.								
Measure the insulation resistance of each pole for one minute at an applied voltage that is in accordance with the manufacturer's O&M manual or at least 1,000 VDC. The test should be performed on individual poles with the breaker closed and the unused poles and frame grounded. An additional test should be performed with the breaker open and one side of the breaker grounded to measure the open poles. The insulation resistance test is a pass/fail test; however, at times the manufacturer may publish minimum resistance values within their O&M manual. If the O&M manual does not give a minimum value for its results, use a minimum value of 1 MΩ.								
Reference - NFPA 70B-2016, Sections 11.10.6, 11.16.1.2.1-11.16.1.2.4, Table K.4(d), Table L.1.								
complete a contact resistance test for both indoor and outdoor low-voltage draw-out air circuit breakers.								
Reference - NFPA 70B-2016, Section 11.16.1.2.2, Table K.4(d), Table L.1.								
Infrared Scan and Thermal Analysis								
Perform an infrared scan while the breaker is in service and closed.								

	Infrared scan or thermal scan/analysis allows for non-intrusive analysis of temperature and thermal characteristics or thermal patterns of circuit breakers and their components. The infrared scan may dynamically detect abnormal thermal conditions or changes in temperature that may indicate problems in circuit breakers in their incipient stages. Identifying and remedying problems early by the infrared scan may avoid serious failures and costly outages.						
i	R/M and Complete servicing of Arc Extinguishing 2000 Amp to 2500 Amp Uipm 12 KV cat B	5	No.	15930	Rupees fifteen thousand nine hundred thirty	Each	79650
ii	R/M and Complete servicing of Arc Extinguishing 3200 Amp to 4000 Amp Uipm 12 KV cat B	13	No.	18290	Rupees eighteen thousand two hundred ninety only	Each	237770
iii	Checking Interlocking Wiring	11	No.	708	Rupees seven hundred eight only	Each	7788
v	Panel Power pack 24Volt DC Supply	2	No.	29500	Rupees twenty nine thousand five hundred only	Each	59000
vi	Under Voltage Coil	6	No.	4720	Rupees four thousand seven hundred twenty only	Each	28320
vii	Closing Coil	6	No.	6490	Rupees six thousand four hundred ninety only	Each	38940
viii	Shunt Release Coil	8	No.	5900	Rupees five thousand nine hundred only	Each	47200
	Total						498668

Draft Schedule of Quantity checked and approved for RS. 4,98,668/- only.

Executive Engineer,
Electrical Division Mandi
HP
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					Estimated Cost:- Rs. 496308/-only.	
					Earnest Money:- Rs. 9930/-only.	
					Time :- Two Months	
Draft Schedule of quantity						
Name of Work :- R/M of E.I. N/R Building"s under SLBS.Govt College and Hospital Nerchowk in Distt. Mandi (HP) (SH:- Repair, Maintenance & Servicing arc extinguishing breaker"s existing step down 11/.415 KV Panels ESS-I-VI of 800-1600 amp=15 & 2000-2500amp=15 number with accessories.)						
Sr. Nos	Description	Qty.	Rate		Unit	Amount
			In Fig.	In word		
1	Maintenance and Servicing of following 1.1 KV arc extinguishing breaker have different rating mentioned as under technical procedure and submit Re-Testing certification with test report format					
	Visual Inspection					
	Record operations counters					
	Check circuit breaker panels and insulation material for cracks and cleanliness.					
	Check the condition of enclosing cabinets including hinges, latches, locks, and door gaskets.					
	Check for loose or broken frame ground connections.					
	Check that all power and control circuit switches are closed and fuses are in place.					
	Inspect wiring for damaged insulation.					
	Reference - NFPA 70B-2016, Sections 11.10.6, 15.4, Table K.4(d), Table L.1.					
	Preventive Maintenance					
	Perform the following preventive maintenance of indoor and outdoor low-voltage draw-out air circuit breakers:-					

Check the frame, panel, and cabinet condition of the paint and repaint as necessary. Tighten bolts to recommend specifications. Clean the exterior of the cabinet.								
Clean porcelain of bushings or insulators with water or a suitable cleaner. Repair chipped spots by painting with enamel such as 1201 glyptal. Tighten bolts to recommended specifications.								
Perform in-depth bushing inspection for any carbon tracking, leaks, and cracks.								
Clean and repair chipped spots, remove and clean interphase barriers.								
Check main connections for loose or overheating terminals.								
Remove arc chutes so that the contacts can be inspected. Dress contacts, if rough, with a fine file. It is necessary to carefully remove only the projecting beads. Pits on a flat, smooth surface are not objectionable.								
Check contact springs for loss of temper, breaks, or rust deterioration.								
Check flexible shunts at contact hinges for overheating and fraying. Tighten connections to recommended specifications.								
Verify breaker fit and racking mechanism operation.								

Check operating rods, shafts, and bell cranks for loose locknuts, setscrews, keys, bearings, bent rods, or twisted shafts, etc. Clean moving parts of rust, dirt, and accumulated grease and oil. Wash out bearings, pivots, and gears with a suitable cleaner. Lubricate with new grease or oil with the type required by the application being used. In cold climates, it is important to use a lubricant that will not stiffen with cold. Wipe off excess lube. Enclosed dust-tight bearings should require less servicing.							
Observe the closing solenoid motor or spring during several closing operations to see that everything is in proper working order. Check the solenoid plunger for sticking in guides.							
Check close coil resistance with an ohmmeter and insulation resistance with an appropriate insulation tester.							
Observe the latch and trip mechanism during several tripping operations to see that everything is in working order.							
Check latch and trip assembly pins, bearings, and latches for wear, binding, and misalignment.							
Clean and lubricate latch and trip assembly. Check the latch carefully to see that it is not becoming worn so that it would unlatch from vibration or stick and fail to trip. Tighten bolts and screws to recommended specifications.							

	Observe tripping operation during electrical operation. See that the full energy action of the plunger is obtained. Check the plunger for sticking-in guides.								
	Inspect digital or electronic trip mechanisms for the power light and any possible error codes.								
	Check the condition of auxiliary contacts and refinish them with a burnishing tool if burned or corroded.								
	Check auxiliary contact springs, operating rods, and levers. Check the closing and opening position with respect to main contacts while the breaker is being slowly closed and opened manually. Certain auxiliary contacts used for special purposes may require adjustment for the closed position.								
	See that the position indicator or semaphore is properly indicating the breaker position. Check operating rods or levers for loose parts.								
	Reference - NFPA 70B-2016, Section 11, 15.								
	Manual Operation								
	Manually operate the indoor and outdoor low voltage draw-out air circuit breaker, 'CLOSE' and 'OPEN' three times.								
	Many breakers sit without any operation for long periods of time. This can be very harmful to the breakers operating mechanism and lead to faulty operations. This operation is best performed at the breaker with the local switch. Ensure the breaker is de-energized before operating.								
	Reference - NFPA 70B-2016, Section 11.10.6.								

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	Infrared Scan and Thermal Analysis							
	Perform an infrared scan while the breaker is in service and closed.							
	Infrared scan or thermal scan/analysis allows for non-intrusive analysis of temperature and thermal characteristics or thermal patterns of circuit breakers and their components. The infrared scan may dynamically detect abnormal thermal conditions or changes in temperature that may indicate problems in circuit breakers in their incipient stages. Identifying and remedying problems early by the infrared scan may avoid serious failures and costly outages.							
i	R/M and Complete servicing of Arc Extinguishing 800 Amp to 1600 Amp Uipm 12 KV cat B	15	No.	14750	Rupees fourteen thousand seven hundred fifty only	Each	221250	
ii	Checking Interlocking Wiring	51	No.	708	Rupees seven hundred eight only	Each	36108	
iii	R/M and Complete servicing of Arc Extinguishing 2000 Amp to 2500 Amp Uipm 12 KV cat B	15	No.	15930	Rupees fifteen thousand nine hundred thirty only	Each	238950	
	Total						496308	

Draft Schedule of Quantity checked and approved for RS. 496308/- only.

HT
Executive Engineer,
Electrical Division Mandi
HPPW Mandi (HP) *D*