



Office of the
Executive Engineer
Electrical Division, HP PWD Una
Tel: +911975223484, Fax: +911975223484
E-mail: ee-eleu-hp@nic.in

No.PW/EDU/CB//TA/Tender/2023-24/-

8374-8398

Dated

13-12-2023

To

✓ The Executive Engineer (IT) Cell,
Nirman Bhawan, Nigam Vihar
Shimla-171002

Subject: -

Regarding publication of Tenders Notice.

Sir,

“JAI HIND”

Enclosed please find herewith Tenders Notice along with Schedule of Quantities for uploading the same on Departmental website as per Notification no. PBW-(B)1/2020 dated 16.07.2021 as the work mentioned in the Tender Notice are urgent in nature and in Public interest. This is for your kind information and necessary action at your end please.

DA:-As above.


Executive Engineer,
Electrical Division,
HPPWD, Una.

Copy along with its enclosures is forwarded to the following for favour of information please:-

1. The Superintending Engineer, 2nd Electrical Circle, HPPWD, Dharamshala.
2. The Assistant Engineer, Electrical Sub Division, HP PWD Una/Hamirpur & Bilaspur.
3. All the contractors working under the control of this Division.
4. All the Head of Branches in this office.
5. Notice Board.

✓
Executive Engineer,
Electrical Division
HPPWD, Una



**Office of the
Executive Engineer
Electrical Division, HP PWD Una
Tel: +911975223484, Fax: +911975223484
E-mail: ee-eleu-hp@nic.in**

NOTICE INVITING TENDER

Sealed percentage rate tenders are hereby invited by the Executive Engineer, Electrical Division HPPWD Una, in form No.6 & 8 on behalf of Governor of H.P. for the following works from the contractors of appropriate class enlisted with HPPWD (Electrical). The tenders shall be opened on dated **26.12.2023** in the presence of contractors/firms or their authorized representative who wish to be present.

The copy of **Valid enlistment** and renewal certificate alongwith GST No., Pan No., and EPF No. shall be attached with application form. The offer of the tender shall remain open **75 days** from the date of opening of the tenders. The undersigned reserves the right to reject/cancel the tenders without assigning any reason. The tender form will be issued to only those contractors who qualify the criteria after the scrutiny of application forms by the committee constituted for the purpose.

TIME SCHEDULE OF TENDER

1.	Last date of receipt of application :-	23-12-2023 up to 1.00 P.M.
2.	Date of sale of tenders :-	23-12-2023 up to 5.00 P.M.
3.	Last date of receipt of bids :-	26-12-2023 up to 11.30 A.M.
4.	Date of bid opening :-	26-12-2023 up to 1.00 P.M.

Sr. No.	Name of work	Estimated Cost (In Rs.)	Earnest Money (In Rs.)	Time limit	Cost of form (In Rs.)	Eligible Class of Contractor
1	Providing Solar Light 30 watts in D.C Colony Una Distt. Una H.P (Phase-1).	4,76,346/-	9,600/-	Six Months.	350/-	Specialized Job
2	Providing and Installation of Split type 1.5 ton A.C (Hot and Cold) 2 Nos. in Suit No. 3 & 4 at PWD Rest House Bhota, Distt. Hamirpur (H.P).	1,31,320/-	2,700/-	One Month	350/-	Specialized Job
3	C/o Science Lab building in Govt. Sr. Sec. School Lalri, Tehsil Haroli, Distt. Una, H.P (SH:- Providing Fixtures therein).	3,11,838/-	6,300/-	Six Months.	350/-	Class- C,B
4	C/o Community Centre at Jalgran, Distt. Una H.P (SH:- Balance work of E.I therein).	3,91,607/-	4,900/-	Six Months.	350/-	Class -C,B
5	C/o Ground floor in Laxmi Narayan, Temple Complex at Bilaspur in Distt. Bilaspur H.P (SH:- Providing E.I therein).	4,98,309/-	10,000/-	One Year	350/-	Class-C,B
6	Replacement of old/damaged Post Top lantern and E.I in HPPWD Mechanical Sub-Division workshop at Hamirpur (Matani) Distt. Hamirpur H.P.	1,03,931/-	2,100/-	Six Months.	350/-	Class-D,C
7	Providing power supply for Tower A.C in Lecture Hall No. 02 at Dr. RKGMC Hamirpur, (H.P).	1,41,826/-	2,900/-	Six Months	350/-	Class-D,C

8	Replacement of damaged accessories and E.I in Govt. Residential building i.e. First floor at Residence of Civil Judge Cum Judicial Magistrate (1 st Class) Barsar, under ESD Hamirpur, (Barsar Section) Distt. Hamirpur, H.P	83,877/-	1,700/-	Six Months	350/-	Class-D,C
9	Replacement of E.I. in the office of A.E. office, Account Branch (B&R) HP.PWD Division Bangana, and HP.PWD Rest House Bangana.	94,427/-	1900/-	Six Months.	350/-	Class-D,C
10	Replacement/Providing wires, accessories in various N.R. building under ESD Bilaspur, (Section Ghumarwin) under HP.PWD(B&R) Division Jhandutta, Tehsil Jhandutta, Distt. Bilaspur.	99,833/-	2,000/-	Six Months.	350/-	Class-D,C
11	C/o Mini Secretariat building at Nadaun Distt. Hamirpur, H.P. (SH: Providing E.I. in Additional/alteration in waiting area & Block Development office, therein).	2,42,977/-	4,900/-	One Year.	350/-	Class-D,C
12	C/o Additional building (Block C&D) for Govt. I.T.I. Una, Distt. Una (H.P) (SH:- Balance work of power wiring in Carpenter workshop & Auto Electrical workshop therein).	4,85,229/-	9,700/-	Six Months.		Class-C,B
13	C/o Additional building (Block C&D) for Govt. I.T.I.; building Una Distt. Una (H.P)(SH:- Balance work of Power wiring in Mechanic Diesel Engine workshop and Computer room therein).	4,96,815/-	9,900/-	Six Months.		Class-C,B
14	C/o Additional building (Block C&D) for Govt . I.T.I. building Una, Distt. Una (H.P) (SH:- Balance work of Power wiring in Turner Workshop & Mech. Diesel Engine workshop & Mech. Diesel Engine workshop therein).	4,56,067/-	9,100/-	Six Months.		Class-C,B
15	C/o Additional building (Block C&D) for Govt. I.T.I. building Una, Distt. Una (H.P) (SH:- Balance work of Power wiring in Mechanic Motor Vehicle workshop 1&2 therein).	4,67,967/-	9,400/-	Six Months.		Class-C,B
16	C/o HP.PWD. Circuit House building at Una, Distt. Una (HP) (SH :- Providing Copper pipe, Copper wire & Cable tray there in)	1,48,400/-	3,000/-	Six Months.		Specialized Job
17	Annual Comprehensive Maintenance contract (AMC) of 1 Nos. Passenger lift (Johnson make) in circuit house Hamirpur Distt Hamirpur HP.(For the year 2023-24).	1,39,830/-	2,800/-	One Year.	350/-	Specialized Job
18	Replacement of damaged Street Light Fixtures, Cable & Timer on Ali Khad Bridge at Chandpur in Distt Bilaspur (H.P).	2,83,766/-	4,800/-	Six Months.	350/-	Class-D,C
19	C/o Residential accommodation Type IV quarter 1 Nos for officer of Excise and Taxation at Pucca Bharo Distt Hamirpur(HP)(SH1:- Providing E.I Therein)	2,70,275/-	5,400/-	One year.	350/-	Class-D,C
20	A/R & M/O of various type and different capacity of Air Conditioners installed in various N.R Govt. buildings under Electrical Sub-Division HP.PWD Una (Una Section) for the year 2023-2024 .	1,63,004/-	3,300/-	One year.	350/-	Specialized Job
21	Construction of Residential Qtrs. for CHC Markand in Distt. Bilaspur (H.P). (SH:- Providing E.I. in 4 Nos. Type II Qtrs. there in)	3,73,481/-	7,500/-	One year	350/-	Class-C,B

22	SITC of CCTV/Video Surveillances system in ground floor at Auditorium, Samoor Kalan, Distt. Una (HP)	4,53,791/-	9,100/-	45 days.	350/-	Specialize Job
23	SITC of CCTV/Video Surveillances system in Projector room at Auditorium, Samoor Kalan, Distt. Una (HP)	4,82,711/-	9,700/-	45 Days.	350/-	Specialize Job
24	SITC of CCTV/Video Surveillances system in first floor at Auditorium, Samoor Kalan, Distt. Una (HP)	4,96,254/-	9,900/-	45 days.	350/-	Specialize Job
25	C/O PHC Building at Chamari in Tehsil Bangana Distt. Una (HP) (SH:- Providing Balance work E.I. therein).	3,35,483/-	6,,700/-	One year.	350/-	Class-C,B
26	C/o 02 Numbers, Type-II Qtrs. with parking for Distt. Welfare office employees at Una. Distt. Una (H.P) (SH:- Prov. E.I. therein)	4,06,602/-	8,200/-	One Year.	350/-	Class-C,B
27	C/o SITC of 5 KVA UPS for Hon'ble Chief minister Office Nadaun, Tehsil Nadaun District Hamirpur (HP).	2,83,838/-	5,700/-	One Month	350/-	Specialize Job
28	C/O Judicial Court complex at Amb, Distt. Una, (HP) (SH:- PIRC Balance work Fire Fighting system therein).	4,41,763/-	9,000/-	One Month	350/-	Specialize Job

GENERAL TERMS AND CONDITIONS:-

1. The earnest money in the shape of NATIONAL Saving Certificate time deposit account in any of the post office in HP/FDR or any bank duly pledged in favour of Executive Engineer, HPPWD., Electrical Division Una accompanied with the application for receipt of tender form along with cost of form.
2. The Contractor/Firm should be submitted the all above-mentioned documents (photocopy to be self-attested) with the application for obtaining the tender documents.
3. In case office happens to be closed on any of the above mentioned dates, the bids will be opened on the next working day at same time and venue.
4. The contractors/firms are required to quote their rates clearly both in words as well as in figures, failing which tenders are likely to be rejected.
5. No Person/persons shall be allowed to give the documents with regard to tender unless he/they hold/holds the power of attorney duly registered under law.
6. The tender of those contractors who are registered under H.P. Central Sales Tax Act 1969, GST and who have been cleared all the dues on account of tax will be entertained.
7. The competent authority on behalf of Governor of H.P. reserves the right to reject any or all the tenders received without assigning any reason.
8. The eligible Contractors/Firm should performance certificate for specialized jobs as required.
9. The tendered amount should be within the limit of (+) 5% to (-) 30% as per notification No. PBW(B)A(3)1/2020-1 dated 07.10.2021 shall be applicable for Bid price lower than-10% and more than + 5%. If the Contractors/Firms has quoted bid price lower than 10% the performance guarantee will be deposited before the award of work as per terms & condition of above said notification.

HIM SUCHANA AVAM JANSAMPARK


Executive Engineer,
Electrical Division
HPPWD, Una

DRAFT SCHEDULE OF QUANTITY									
Name of work:- Providing Solar Light 30 watts in D.C. Colony Una Distt. Una (H.P).									
Sr. No.	Description of Items.	Quantity	Rate	In Fig.	In Words.	Unit	Amount	Job No. 1	
1	Supplying and fixing of 30 Watts All-in-one Solar Street Light Pole Mounted, at Die cast Housing, P C Lens Diffuser, minimum system Lumens of 4500 minimum system efficacy of 150 lm/W, System voltage 12.8V, Output Current 0.190A-0.650A, No Load loss< 20mA charging Current 4A, Solar input voltage <22V. Over voltas protection 14.8V, Charging Voltage Limit, 14.6V.. The luminaire shall have CCI of 5700K and CRI of minimum 70. The luminaire shall have IP65 and IK08 protection. The LED shall be compliant with Useful L70 life of 50000 Hrs. The luminaire have 50Wp High Efficiency Monocrystalline Silicon Panel, 24Ah LiFePO4 Battery High Efficiency Battery with higher life of >2000Cycles, Full Power upto 10Hrs. Saving mode upto 30Hrs at fully charged battery, integral PIR sensor for motion detection, MPPT charge controller with 90-96% efficiency with 4 KV internal surge protection. Make:- Wipro/Havells/Crompton.	6.00	Numbers	71493	Rupees Seventy one thousand four hundred ninety three only.	Each	4,28,958		
2	Supplying and erection of Galvanized Iron (G.I) pipe pole 'A' quantity of 75mm dia 5mtrs. Length . Including fixing upto a given depth below ground Level. The hole of excavation about 30cm dia and given depth to be filled in upto 15cm below ground level with 1:3:6 cement concrete and there above plinth with 1:2:4 cement concrete upto a height of 45cm from ground level. The radila thickness of the plinth above ground level should not be less than 6.35cm and sufficient to completely flush a 180mmx100mmx45mm deep, including painting of pole with two coats of approved color, brand and manufacture of paint over a priming coat complete in all respects as required.	6.00	Numbers	7898	Rupees Seven thousand eight hundred ninety eight only.	Each	47,388		
G.Total:-							4,76,346		


 Executive Engineer,
 Electrical Division,
 HPPWD., Una.

DRAFT SCHEDULE OF QUANTITY					Job No. 02	
					Estimated Cost:- Rs.1,31,320/-	
					Earnest Money:- Rs. 2,700/-	
					Time Limit: One Month.	
Name of work :- Providing and Installation of Split Type 1.5 Ton A.C. (Hot and Cold) 2 Nos in Suit No 3 & 4 at HPPWD Rest House Bhotia Distt Hamirpur (H.P.)						
Sr. No.	Description of Items	Quantity	Rate In Fig.	In Words.	Unit	Amount
1	Supplying and fixing 1.5 Ton invertor split type air conditioner Hot and Cold 4 star with voltage stablizer 140 v to 280 v , advanced filter, E saver mode, quit mode, dual display, auto clean, anti bacteria filter jet Cool on/off timer sleep mode compresor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt +/- 10 % A.C. supply capable to perform the function of cooling dehumidification air circulation ventilation and fitting in size of nominal cooling capacity and drain pipe 20 mm dia approximately 3mtrs long 2 nos copper pipe with insulator for inlet and outlet approximatey 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A.C. including carrigae of material with in all leads and lift. Make :- Daikin (Model:- FTHT50), O Genral/Mitsubishi or its equivalent as approved by the Engineer Charge.	2	65660	Rupees Sixty five thousand six hundred sixty only.	Each	131320
G. Total:-						131320


 Executive Engineer,
 Electrical Division,
 HPPWD., Una.

DRAFT SCHEDULE OF QUANTITY									
Name of work :- C/O Science Lab. building in GSSS. Lalri, Tehsil Haroli, Distt.Una (HP) (SH :- Providing Fixtures therein)									
Sr. No.	Description	Quantity	Rate	In Fig.	In Words.	Unit	Amount	Job No. 3	
1	Providing, Installation, testing and commissioning of ceiling fan without 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:- (Usha-Technixplus BEE 3 Star rated model)/Crompton/Bajaj or its equivalent make)							Estimated Cost:- Rs. 3,11,838/-	
1.01	Ceiling Fan 1200 mm sweep, Category-A	42	2964		Rupees Two thousand nine hundred sixty four only.	Each	124488	Earnest Money:- Rs. 6,300/-	
2	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- (Usha - SPH Turbo HDEF 900 RPMISI or its Equivalent make)							Time Limit:- Six Months.	
2.01	Exhaust Fan, Heavy duty, 300 mm sweep	9	4063		Rupees Four thousand sixty three only.	Each	36567		
3	Supplying and fixing exhaust fan louver shutter for 300 mm. exhaust fan on the existing wall, painting etc. as required.	9	592		Rupees Five hundred ninety two only.	Each	5328		
4	Providing and fixing LED surface/pendent mounting Tube fixture 24 watts Jaquar make glazed LED batten Cat.No.LGLZ01X024XXN high quality design aluminium extruded decorative end caps as per best satisfaction of Engineer-in-Charge complete as required.	39	876		Rupees Eight hundred seventy six only.	Each	34164		
5	Supply& Fixing of led fixture 18 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 90 lm/W with and P.F.>0.95 with THD<20%, CRI 80 The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 6000 K with CRI of minimum 80. LEDs used must be tested as per EN62471 for Photobiological Safety of humans. The Input voltage range shall be 150V to 270V. Fixture have Surge Protection 2kV. Driver Output voltage shall be less than SELV Limits for safe operation and maintenance Wipro Cat. No LD80-171-XXX-60-SM or Equivalent in Philips: SM251C LED20S-6500 PSU WH or Trilux :Ambiella INDD LED1000-860 ET 01 ET or LT :	6	2338		Rupees Two thousand three hundred thirty eight only.	Each	14028		
6	Supplying and fixing LED Lamp 9 watts 6500 K E-27 ,900 Lumens 240 volts AC supply 50 HZ in the existing batten holder,pendent holder, wall bracket & bulk head fitting etc, as required.(Tisva cat. No.AL946611X/Panasonic/Philips make)	33	256		Rupees Two hundred fifty six only.	Each	8448		
7	Providing and fixing MCCB enclosure for DU 100 D/DU MCCB following rating on the existing board complete as required (L&T/ABB/LeGrand make)	1	1652		Rupees One thousand six hundred fifty two only.	Each	1652		
8	Providing and fixing LED Street light 60 watts die cast aluminium housing,AC 85-270 volts ,available color temperature 5700 K,CRI 80,IP rating 66, up to 10KVA electric surge protection complete with all Bracket, accessories,connections,testing and commissioning etc,as required (Wipro Skyline Code No.LR 02 -671-XXX-57-G2/Chair/Philips make)	6	10583		Rupees Ten thousand five hundred eighty three only.	Each	63498		

9	Supplying and fixing of following sizes of PVC conduit 2.0 mm thick along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Diplast, Polycab make)						
9.01	50 mm.dia	10	151	Rupees One hundred fifty one only	P/mtr.	1510	
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 required size:- (Polycab, Finolex, I&T, KEI make)						
10.01	Armoured cable 16 sq.mm. (Twin Core)	20	589	Rupees Five hundred eighty nine only	P/mtr.	11780	
11	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground, to be laid 1 meter below the ground level including excavation sand cushioning, protective covering and refilling the trench etc. of the required size:- (SCI/KEI/Havells make)						
11.01	Armoured cable 16 sq.mm. (2 Core)	10	406	Rupees Four hundred six only	P/mtr.	4060	
12	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:- (SCI/KEI/Havells make)						
12.01	Armoured cable 16 sq.mm. (2 Core)	15	421	Rupees Four hundred twenty one only	P/mtr.	6315	
G.Total :-						311838	


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY						
						Job No. 4
						Estimated Cost:- Rs. 3,91,607/-
						Earnest Money:- Rs. 4,900/-
						Time Limit:- Six Months.
Name of work :- C/O Community Centre at Jalgran, Distt.Una (SH :-Balance work of E.I. there in)						
Sr. No.	Description	Quantity	Rate	In fig.	In words.	Unit
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. (SSK/L&T/Anchor make)					
1.01	Group C.	43	1741.00		Rupees One thousand seven hundred forty one only.	Each
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 steel conduit as required.					74863
2.01	2 X 4 sq. mm					
3	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.(Finolex,KEI/Anchor,L&T make)	38	362		Rupees Three hundred sixty two only.	P/mtr.
3.01	2x1.5 sq.mm.					13756
4	Supply & Fixing of led deep spot light 3 W LED Round Shape with Red Blue & Green color. The Input voltage range shall be 150V to 270V complete with all accessories and connections etc.as required. Havells Cat. No.HEEBGP1UM1R003 or Equivalent make	40	292		Rupees Two hundred ninety two only.	P/mtr.
5	Supplying and fixing Hanging LED fixture 90 watts made of die cast aluminium base and spun aluminium Top fitted with LED PT module.Power LED.s are mounted directly on inbuilt extruded input voltage AC-100-270,FREQUENCY 50-60HZ.Power factor 0.95, efficacy 100 Lum/W/CRI 80,THD 10% LIFE 50000 H.Colour temperature NW 4000K.(Twinkle LuxMax-PT-156-H Hanging or its equivalent make	66	575		Rupees Five hundred seventy five only.	Each
6	Supplying and laying G.I.pipe of 25 mm. dia (Heavy duty) on the existing roof of temple for fixing the hanging light and laying the wire etc, as required	4	22777		Rupees Twenty two thousand seven hundred seventy seven only.	Each
7	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, unarmoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- (Piaza/KEI/Havells make)	4	1823		Rupees One thousand eight hundred twenty three only.	Each
8	(a) Armoured cable 25 sq.mm. (3.5 Core) Providing and installation of stationary storage type Electric water heater (Geyser) vertical 25 ltrs capacity 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:- (Jaquar Erica Digital EDR-WHT-V025/Recond make)	40	601		Rupees Six hundred one only.	P/mtr.
		2	18549		Rupees Eighteen thousand five hundred forty nine only.	Each
						24040
						37098

9	Supplying and fixing Post top lantern LED 20 watts made of die cast aluminium housing with PMMA clear diffuser for uniform illumination, power coated 5700 K complete with connections etc as required (Wipro Cat No.LP07-251-XXX-57-CL/Twinkle/Philips make)	5	8085	Rupees Eight thousand eighty five only.	Each	40425
10	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:- (Usha - SPH Turbo HDEF 900 RPMISI or its Equivalent make)					
10.01	Exhaust Fan, Heavy duty, 300 mm sweep					
11	Providing, installation, testing and commissioning of ceiling fan without step type fan regulator modular, air delivery 215 m ³ /min power input 30 watts speed 330 RPM 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:- (Usha-Technixplus BEE 3 Star rated model) or its equivalent make)	1	4063	Rupees Four thousand sixty three only.	Each	4063
11.01	Ceiling Fan 1200 mm sweep, Category-A					
12	Supplying and fixing stepped type Modular fan regulator on the existing modular box including making connections etc. as required (SSK L&T Anchor make)	15	2964	Rupees Two thousand nine hundred sixty four only.	Each	44480
		6	812	Rupees Eight hundred twelve only.	Each	4872
G. Total :-						391607


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY									
Job No. 05									
Estimated Cost:- Rs. 4,98,309/-									
Earnest Money:- Rs. 10,000/-									
Time Limit:- One Year.									
Name of work :- C/O Ground Floor in Laxmi Narayan Temple Complex at Bilaspur in Distt Bilaspur H.P (SH:- Providing E.I therein)									
Sr. No.	Description of Items	Quantity	Rate	In Fig.	In Words.	Unit	Amount		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq mm. HRFRLS/PVC insulated single core copper conductor cable as required								
1.01	Group-C	81	1261		Rupees One thousand two hundred sixty one only.	Each	102141		
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit, with 2-way modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq mm. HRFRLS/PVC insulated single core copper conductor cable as required.								
2.01		1	1446		Rupees One thousand two hundred forty six only.	Each	1446		
3	Supplying and fixing G.I. Modular box 3 Module 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.	12	584		Rupees Five hundred eighty four only.	Each	7008		
4	Supplying and fixing G.I. Modular box of size 3 Module 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.	12	860		Trupees Eight hundred sixty only.	Each	10320		
5	Supplying and fixing following rating Modular switch (socket/Bell Push on the existing switch box / cover including connections etc. as required. (Make:-Legrand/Myrius).L&T(entice), Anchor (Roma Plus).								
5.01	S.P. 5/ 6 Amps one way Modular switch.	7	106		Rupees One hundred six only.	Each	742		
5.02	5 pin, 5/ 6 Amps Modular socket outlet.	7	138		Rupees One hundred thirty eight only.	Each	966		
6	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches & Sockets module for G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each, one no computer shutter including connections etc as required.	2	1477		Rupees One thousand four hundred seventy seven only.	Each	2954		
7	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. Make:- Finolex, KEI, Anchor, Plaza as approved by Engineer -in -charge.								
7.01	2x1.5 Sq. mm + 1X1.5 sq mm	95	205		Rupees Two hundred five only.	P/Mtr	19475		
7.02	2x4 Sq. mm + 1X4 sq mm	65	330		Rupees three hundred thirty only.	P/Mtr	21450		
7.03	2x6 Sq. mm. + 1X6 sq mm	27	441		Rupees Four hundred forty one only.	P/Mtr	11907		
7.04	2x10 Sq. mm.+ 1X6 sq.mm	17	610		Rupees Six hundred ten only.	P/Mtr	10370		
7.05	4x4 Sq. mm. + 2X4 sq.mm	45	544		Rupees Five hundred forty four only.	P/Mtr	24480		
8	Supplying and fixing LED panel fitting, ultra sleek surface mounted slim square panel 24 watts made from extruded aluminium housing. Aesthetically designed flat panel for surface mounting which provides soft-light and glare free symmetrical illumination complete with connections etc as required. Make- Wipro,Jaquar, Philips, K-lite or its equivalent or as approved by Engineer in charge.	53	3352		Rupees Three thousand three hundred fifty two only.	Each	177656		

9	Supplying and Fixing LED Batten 36 watt High quality aluminium extruded with decorative end caps of superior quality (Wipro Make) as per item code L122-511-XXX-65-G1 as required. Complete in all respect and as approved by the Engineer-in-Charge. Make: Wipro, Jaqar, Philips or its equivalent.	6	1824	Rupees One thousand eight hundred twenty four only.	Each	10944
10	Providing, Installation, testing and commissioning of Glazed LED 10 Watt Batten 600mm long(Mirror Light) High quality design aluminium extruded decorative end caps as per best satisfaction of Engineer-in-Charge. Make: Wipro Cat No L20-111-XXX-65NE3), or its equivalent or as approved by Engineer in charge.	2	662	Rupees Six hundred sixty two only.	Each	1324
11	Providing and installation of LED Street light 30W with bracket power coated pressure die cast aluminium high power led with heat resistant toughened glass with lens ,electronic driver, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. as required. Make: wipro(LR26-371-XXX-65-XX),Panasonic Philips or its equivalent as approved by Engineer-in -charge.(Five year warranty)	2	4923	Rupees Four thousand nine hundred twenty three only.	Each	9846
12	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	3	98	Rupees Ninety eight only.	Each	294
13	Providing, installation testing and commissioning of ceiling fan with regulator including wiring the down rods of standard length (up to 30cm) and 16/0.20mm twin twisted flexible cotton braided copper cable including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc as required including carriage of material within all leads and lifts. (Usha technics, Crompton, Havells H S Velocity make or its equivalent.) or as approved by the Engineer-in-Charge.	13	4886	Rupees Four thousand eight hundred eighty six only.	Each	63518
14	Providing and installation exhaust fan of 300mm (Plastic body) size in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required. Make:- Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in-charge	2	2633	Rupees Two thousand six hundred thirty three only.	Each	5266
15	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with timed copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-in-Charge					
15.01	MCBDB 12 WAY	1	2802	Rupees Two thousand eight hundred two only.	Each	2802
15.02	MCBDB 16 WAY	1	3502	Rupees three thousand five hundred two only.	Each	3502
16	Supplying and fixing 5 amps to 32 amps , 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make L&T, Hager, ABB or its equivalent as per best satisfaction of Engineer-in -charge.					
16.01	single pole	24	296	Rupees Two hundred ninety six only.	Each	7104
17	Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required. Make L&T, Hager, ABB or its equivalent as approved by Engineer-in -charge.	2	1397	Rupees One thousand three hundred ninety seven only.	Each	2794
G. Total:-						498309


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY						
Job No. 06						
Estimated Cost:- Rs. 1,03,931/-						
Earnest Money:- Rs. 2,100/-						
Time Limit:- Six Months.						
Name of work :- Replacement of old/damaged Post Top lantern and E.I in HPPWD Mechanical Sub Division, workshop at Hamirpur (Matani) Distt. Hamirpur (H.P)						
Sr. No.	Description of Items	Quantity	Unit	Rate	In Fig.	In Words.
1	Providing and fixing of Post Top Lantern (light House), E-27 base lamp holder of suitable size, excluding with LED 23/30 watt lamp complete with all accessories, connections, testing and commissioning etc as required. Make :- Twinkle cat no LuxMax-PT-153-R/C, K-lite ,panasonic or its equivalent as approved by Engineer-in-charge (Five year warranty)	6	Each	7577		Rupees Seven thousand five hundred seventy seven only.
2	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/ XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size :- Make:Finolex ,KEI,Plaza or its equivalent as approved by Engineer-in-Charge					
2.01	Armoured cable 6 sqmm(twin core)	20	Mtr.	230		Rupees Two hundred thirty only.
3	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
3.01	5/6 amps switch	10	Each	29		Rupees Twenty nine only.
3.02	3 pin 5/6 amp socket outlet	3	Each	54		Rupees fifty four only.
3.03	15/16 amp switch	4	Each	100		Rupees One hundred only.
3.04	6 pin 15/16 amp socket outlet	2	Each	108		Rupees One hundred eight only.
4	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required Make :- Anchor (Roma classic),L&T(Entice),Legrand(Myrtus) or its equivalent as approved by Engineer-in-charge.	3	Each	210		Rupees Two hundred ten only.
5	Supplying and fixing PVC box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.	2	Each	275		Rupees Two hundred seventy five only.
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required					
6.01	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	20	Meter	326		Rupees Three hundred twenty six only.
7	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required Make:-Plaza,KEI,Finolex or its equivalent as approved by Engineer-In-Charge					
7.01	3 x 1.5 sq. mm	50	Meter	97		Rupees Ninety seven only.
7.02	3 x 4 sq. mm	25	Meter	219		Rupees Two hundred nineteen only.
						45462
						4600
						290
						162
						400
						216
						630
						550
						6520
						4850
						5475

8	Supplying and fixing following type surface round type LED downlight ,6000k , and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy y>100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz,with three year warranty complete with all accessories, connections, testing and commissioning etc.Make Panasonic,Wipro Philips or its equivalent as approved by Engineer-In-Charge(five year warranty)						
8.01	18W	6	Each	1091		Rupees One thousand ninety one only.	6546
9	Providing and installation of LED Street light 60W with bracket power coated pressure die cast aluminium high power led with heat resistant toughened glass with lens ,electronic driver; suitable for input voltage: AC 220-240 V, 50/60Hz,IP 66 complete with all accessories, connections, testing and commissioning etc. as required..Make Panasonioc ,wipro,Philips or its equivalent as approved by Engineer-in -charge.(Five year warranty)	3	Each	5212		Rupees Five thousand two hundred twelve only.	15636
10	Providing and fixing of 24 watt surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor > .9,Harmonic Distortion <10% and efficiency> 100 Lumens per watt ,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as:Make Philips,Panasonic jaquar or its equivalent as approved by Engineer-In-Charge(Five year warranty)	4	Each	595		Rupees Five hundred ninety five only.	2380
11	Supplying and fixing of following sizes of Heavy class PVC Conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed Heavy class PVC Conduit having wall thickness minimum 2.0 mm as required.Diplast/BEC/ Polyfit or its equivalent as approved by Engineer-In-Charge						
11.01	25 mm	30	mtr	109		Rupees One hundred nine only.	3270
12	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve,miniatire circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.) Make L&T ,Legrand, Hager or its equivalent as approved by Engineer-In-Charge						
12.01	single pole	10	Each	261		Rupees Two hundred sixty one only.	2610
13	Providing and installation of following Watts LED Lamp with E-27 base polycarbonate diffuser and aluminium heat sink including connections,etc as required..Make TISVA,wipro,Philips or its equivalent as approved by Engineer-in-Charge(Five year warranty)						
13.01	9 Watt	2	Each	190		Rupees One hundred ninety only.	380
13.02	30 watt	6	Each	659		Rupees Six hundred fifty nine only.	3954
G.Total:-							103931


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY

Job No. 07

Estimated Cost:-Rs.1,41,826/-

Earnest Money:- Rs. 2,900/-

Time Limit:- Six Months.

Name of work:- Providing power supply for Tower AC in Lecture Hall No 2 at Dr RKGMC Hamirpur Distt Hamirpur (H.P)

Sr. No.	Description of Items	Quantity	Rate	In Fig.	In Words.	Unit	Amount
1	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve,miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
1.01	15 amp MCB TP	6	1198		Rupees One thousand one hundred ninety eight only.	Each	7188
2	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve,miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
2.01	15 amp MCB TPN	4	1598		Rupees One thousand five hundred ninety eight only.	Each	6392
3	MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB /Isolator. Make:-L&T,ABB,Heggar.						
3.01	MCB DB 4 WAY	4	1760		Rupees One thousand seven hundred sixty only.	Each	7040
4	Supplying and fixing of VERTICAL TPN DB 6 way, sheet steel MCB distribution board 415 Volt on surface /recess with provision to mount MCCB as incomer with provision of 125 amp insulated phase bus bar /neutral bar with shroud/s /earth bar sticking saddles cement spill protector /colour coded interconnected wire set /cable ties/blanking plate and circuit identification labels .SP/TP MCB as out going .Powder painted including earthing etc as required.Make:-L&T (code-DBVTLO006DD)/Legrand,Haggar , or its equivalent as approved by Engineer-in charge.	1	13679		Rupees thirteen thousand six hundred seventy nine only.	Each	13679
5	Providing, laying and fixing of PVC round sheathed 6 core 4sqmm copper conductor flexible cable for voltage grade up to 1100 volt , on surface/recess PVC conduit as required complete in all respect. Make :-Finolex/Havell/Polycab/KEI or it equivalent.	90	495		Rupees Four hundred ninety five only.	Mtr.	44550
6	Providing, laying and fixing of PVC round sheathed 3 core 2.5sqmm copper conductor flexible cable for voltage grade up to 1100 volt , on surface/recess PVC conduit as required complete in all respect. Make :-Finolex/Havell/Polycab/KEI or it equivalent.	20	183		Rupees One hundred eighty three only.	Mtr.	3660
7	1.21 Supplying and fixing of following sizes of Heavy class PVC conduit wall thickness minimum 2.0 mmt along with accessories insurface/recess including painting in case of surface conduit, or cutting the walland making good the same in case of recessed conduit as required. MAKE:- BEC,DIPLAST,AKG	75	112		Rupees One hundred twelve only.	Mtr.	8400

8	Supplying and fixing of DLP U PVC of size 105x50 mm adaptable trunking on the exiting wall at required height from lower level for power connection, light connection and net working connection including partition chip flexible cover end cap .Make:-Legrand ,MK , or its equivalent as required complete in all respect .	10	1470	Rupees One thousand four hundred seventy only.	Mtr.	14700
9	Supplying and fixing of 4 pole MCCB 63Amp Ics = 100% ICU, 25KA & @ 415 volts, 50 Hz with thermal magnet in release complete with connection, testing and commissioning etc as required. Make:- L&T , Legrand, Hager, or its equivalent as approved by Engineer-in -charge.	1	9817	Rupees Nine thousand eight hundred seventeen only.	Each	9817
10	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required.Make:- KELLPOLYCAB, PLAZA or its equivalent as approved by Er-in-charge					
10.01	Armoured cable 16 sq. mm (four core)	30	449	Rupees Four hundred forty nine only.	Mtr.	13470
11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC sheathed /XLPE aluminium conductio cable of 1.1kv grade as required					
11.01	4x16 sq mm(28 mm)	2	465	Rupees Four hundred sixty five only.	each	930
12	Providing and fixing 8swg (4 mm dia) copper wire on surface or in surface or in recess for loop earthing along with existing surface/ recessed conduit / submain wiring /cable as required	60	200	Rupees Two hundred only.	Mtr.	12000
G.Total:-						141826


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY						Job No. 08
						Estimated Cost:- Rs. 83,877/-
						Earnest Money:- Rs. 1,700/-
						Time Limit:- Six Months.
NAME OF WORK:- Replacement of damaged accessories and E.L. in Govt. Residential Building i.e. First Floor at Residence of Civil Judge Cum Judicial Magistrate (1st Class) Barsar under ESD Hamirpur (Barsar Section) Distt. Hamirpur (HP)						
Sr. No.	Description of Items	Quantity	Rate In Fig.	In Words.	Unit	Amount
1	Rewiring 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 existing PVC/Steel conduit (with out piano type switch, phenolic laminated sheet, MS box) and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1.01	Group - B	23	505	Rupees Five hundred five only.	Each	11615
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 Make :- Plaza , KEL Anchor as approved by Engineer-in -charge.					
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	25	184	Rupees One hundred eighty four only.	Each	4600
2.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	25	312	Rupees Three hundred twelve only.	Each	7800
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCconduit as required.					0
3.01	S&D 2 X 10 sq. mm wire	1	352	Rupees three hundred fifty two only.	Each	352
3.02	S&D 3 X 1.5 sq. mm wire	40	98	Rupees Ninety eight only.	Each	3920
3.03	S&D 3 X 4 sq. mm wire	40	220	Rupees Two hundred twenty only.	Each	8800
4	Providing, Installation, testing and commissioning of ceiling fan with socket type regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. Make:- Usha (TECHNIX PLUS 3 star), Bajaj, Crompton or its equivalent as approved by Engineer-in-charge not less than 3 star rating. (Five warranty year)	1	3828	Rupees three thousand eight hundred twenty eight only.	Each	3828
5	Supplying and fixing Aluminium batten LED 10 watt, 6500k, and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:- Jaquar (Model -LGLZ01X010XC)/Philips, Panasonic or its equivalent as approved by Engineer-in-Charge (Five YEAR WARRANTY).	1	409	Rupees Four hundred nine only.	Each	409
6	Supplying and fixing Ding dong bell suitable for single phase, 230 volts, complete as required.	1	266	Rupees Two hundred sixty six only.	Each	266

7	Supplying and erection of 5 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, C ^o curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required. Make L&T Legrand, Hager, ABB or its equivalent as approved by Engineer-in-charge.					
7.01	Single pole	2	265	Rupees Two hundred sixty five only.	Each	530
8	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- L&T, Legrand, Hager, ABB or its equivalent as approved by Engineer-in-charge.					
8.01	63 Amps.	1	3646	Rupees three thousand six hundred forty six only.	Each	3646
9	Supplying and fixing of voltage stabilizer having specification Input voltage range 150-290 volt .Digital display, Under voltage Protection, Over voltage protection including connections, testing and commissioning as required. Make:- Microtek , V- Gaurd , Godrej or its equivalent as approved by Engineer-in-charge (Three year warranty).	1	4276	Rupees Four thousand two hundred seventy six only.	Each	4276
10	Change of split type 1.5 ton indoor unit PCB including connections, testing and commissioning etc as required complete in all respect .	1	6800	Rupees Six thousand eight hundred only.	Each	6800
11	Change of split type 1.5 ton out door unit PCB including connections, testing and commissioning etc as required complete in all respect .	1	11000	Rupees Eleven thousand only.	Each	11000
12	Dismantaling, shifting and reinstallation of existing Split type 1.5 Ton A.C. connections, testing & commissioning etc. as required complete in all respect.	3	4000	Rupees Four thousand only.	Each	12000
13	Providing, laying and fixing of interconnecting copper piping with Nitrile tublar insulation AC indoor to outdoor for split type AC 1.5 ton and 1.8 AC as required complete in all respect.	3	1150	Rupees One thousand one hundred fifty only.	MTR	3450
14	Providing, laying and fixing of drian condensate drain water pipe with all necessary fitting for alll type A.C. required complete in all respect.	3	195	Rupees One hundred ninety five only.	MTR	585
G.Total:-						83877

Note:- The credit of dismantled material for Rs.750/- (Rs. Seven hundred fifty)only may be recover in the bill.


Executive Engineer,
Electrical Division,
HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY							Job No. 09
						Estimated Cost:- Rs. 94,427/-	
						Earnest Money:- Rs. 1,900/-	
						Time Limit:- Six Months.	
NAME OF WORK : Replacement of E.I. in the office of A.E. office, Account Branch (B&R) HPPWD Division Bangana and HPPWD Rest House Bangana.							
Sr.	No.	DESCRIPTION	Quantity	Rate In Fig.	In Words.	Unit	Amount
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.(Make:-KEI,Anchor,SSK)					
	1.01	3x1.5 Sq. mm.	60	111	Rupees One hundred eleven only.	P/Mtr	6660
	1.02	3x4.0 Sq. mm.	45	253	Rupees Two hundred fifty three	P/Mtr	11385
	1.03	3x60 Sq. mm.	26	380	Rupees Three hundred eighty only.	P/Mtr	9880
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 6 pin 15/16 amps socket outlet and 15/16 amps, Modular type switch, connections, painting etc. as required..(Make:-Legrand (Myrius),L&T(Oris/Entice),Anchor(Roma plus)SSK	10	999	Rupees Nine hundred ninety nine only.	Each	9990
3		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:-					
	3.01	Single pole. Cat-A..Makes:- L&T/Legrand/Schneider.					
4		Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	6	230	Rupees Two hundred thirty only.	Each	1380
	4.01	63 Amps. Cat-A.Makes:- L&T/Legrand/Schneider	2	566	Rupees Five hundred sixty six only.	Each	1132
5		Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	5.01	63 Amps. Cat-A.Makes:- L&T/Legrand/Schneider	2	3489	Rupees three thousand four hundred eighty nine only	Each	6978
6		Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
	6.01	S.P. 5/ 6 Amps one way Modular switch.Makes:- Legrand(Myrius),L&T(Entice),Anchor Roma(Plus)	50	152	Rupees One hundred fifty two only.	Each	7600
7		Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					
	7.01	3 pin, 5/ 6 Amps Modular socket outlet.Makes:- Legrand(Myrius),L&T(Entice),Anchor Roma(Plus)	10	200	Rupees Two hundred only.	Each	2000
8		Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.					

Sl. No.	Particulars	Nos.	Rate	Amount	Unit	Total
9.01	S.P. 5/ 6 Amps Two way Modular switch.Makes:- Legrand(Myrius),L&T(Entice),Anchor Roma(Plus)	8	254	Rupees Two hundred fifty four	Each	2032
9	Supplying and fixing following rating Modular Bell push in the existing switch box / cover plate including connections etc. as required.					
9.01	S.P. Modular Bell push switch.Makes:- Legrand(Myrius),L&T(Entice), Anchor Roma(Plus)	4	278	Rupees Two hundred seventy eight only	Each	1112
10	Providing Installation testing and commissioning of ceiling fan with socket size modular stee type electronic fan regulator including wiring the, down rods of standard length (Up to 20 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.					
10.01	Ceiling Fan 1200 mm sweep, Category-A Makes:- Usha Technic plus 3star/Bajaj Three Star.	1	2883	Rupees Two thousand eight hundred eighty three only	Each	2883
11	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make					
11.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Cat No:- Usha (Aeroclean-LD) (metal Body/Bajaj or Equivalent make					
12	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- Makes:- L&T/Anchor/Philips.	1	2177	Rupees Two thousand one hundred seventy seven only.	Each	2177
13	Supplying and fixing stepped type Modular fan regulator on the existing modular box including making connections etc. as required. (SSK, L&T, Anchor make)	1	928	Rupees Nine hundred twenty eight only.	Each	928
14	Supplying and fixing 8 way bell Indicator A.C. single phase, 230 volts complete as required:- Makes:- L&T/Anchor/Philips.	6	659	Rupees Six hundred fifty nine only.	Each	3954
15	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:- (Make:- KEI, Anchor, L&T) Legrand (Myrius), L&T (Oris/Entice), Anchor (Roma plus)	1	2000	Rupees Two thousand only.	Each	2000
15.01	2 modules (78mmx78mmx50mm)					
15.02	6 modules (140mmx78mmx50mm)	5	332	Rupees three hundred thirty two	Each	1660
15.03	8 modules (140mmx78mmx50mm)	1	500	Rupees Five hundred only.	Each	500
15.04	12 modules (140mmx78mmx50mm)	3	577	Rupees Five hundred seventy seven only.	Each	1731
16	Supplying and fixing recess mounting round type LED 18 Watt (1800 lumen), 5700K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. complete with all accessories, connections, testing and commissioning etc. as required .	3	970	Rupees Nine hundred seventy only.	Each	2910
16.01	Cat No: Panasonic (DDL M 26288(Round 18 W) /Wipro/Philips/Jaquar or Equivalent	10	1122	Rupees One thousand one hundred twenty two only.	Each	11220

[illegible]

DRAFT SCHEDULE OF QUANTITY							Job No. 10
Estimated Cost:- Rs. 99,833/-							
Earnest Money:- Rs. 2,000/-							
Time Limit:- Six Months.							
NAME OF WORK:-Replacement and Providing wires, accessories in various N.R. Building Under ESD Bilaspur (Section Chumarwin) under HPPWD (B&R) Division Jhandutta, Tehsil, Jhandutta, Distt. Bilaspur.							
Sr. No.	Description of Items	Quantity	Unit	Rate In fig.	In Words.	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 piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq mm. FRLS PVC insulated copper conductor single core cable etc as required	2	Each	976	Rupees one hundred seventy six only.	1952	
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 PVC conduit as required						
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	10	Meter	194	Rupees One hundred ninety four only.	1940	
2.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	7	Meter	312	Rupees three hundred twelve only.	2184	
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required						
3.01	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	6	Meter	1057	Rupees One thousand fifty seven only.	6342	
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required Make -KEL Plaza, Anchor,L&T or as approved by Engineer-in -charge Make - KEL Plaza, Anchor,L&T or as approved by Engineer-in -charge.						
4.01	3 x 1.5 sq. mm	3	Meter	97	Rupees Ninety seven only.	291	
5	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required Anchor (Roma classic),L&T(Entice),Legrand (Myrius) or as approved by Engineer-in -charge.						
5.01	5/6 amp Piano switch	3	Each	29	Rupees Twenty nine only.	87	
5.02	5 pin 5/6 amp socket outletPiano type	3	Each	54	Rupees Fifty four only.	162	
5.03	6 pin 15/16 amp switch	3	Each	100	Rupees One hundred only.	300	
5.04	6 pin 15/16 amp socket outlet	3	Each	108	Rupees One hundred eight only.	324	
5.05	Bell push	2	Each	57	Rupees Fifty seven only.	114	
6	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	2	Each	470	Rupees Four hundred seven only.	940	
7	Providing and installation exhaust fan of 300 mm sizes in the existing opening including making the hole to suit the size of the above fan, making good thedamages, connections, testing and commissioning etc. as required. Make - Usha,Bajaj,Crompton or as approved by Engineer-in-charge						
7.01	EXHAUST Fan Light duty 300 mm sweep	1	Each	2285	Rupees Two thousand two hundred eighty five only.	2285	
8	Supply and fixing exhaust fan louver shutter for 300/380mm exhaust fan on the existing wall painting including 12 mm thick wooden ply board for suitable size of exhaust fan hole.	1	Each	593	Rupees Five hundred ninety three only.	593	

9	Supplying and fixing Surface mounted LED Fixture 20 WATT, 4feet, 6500K, with poly carbonate diffuser with aluminium housing minimum system (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > 95, Harmonic Distortion < 20%, CRI > 80 and efficacy > 100 Lumens per watt, CRI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make - Wipro (Model - LL20-281-XXX-65-AL1)/Philips, Panasonic or its equivalent as approved by Engineer-in-Charge								
9.01	22 watt	2	Each						
10	Supplying and fixing batten/ angle holder including connection etc. as required Make :-Anchor (Roma classic),L&T(Entrice),Legrand(Myrtus) or its equivalent as approved by Engineer-in-Charge	3	Each						
11	Supplying and fixing 5 amps to 32 amps, 240/415 volts, 10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required Make L&T, Hager, ABB or as per best satisfaction of Engineer-in-Charge								
11.01	single pole	5	Each						
12	Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required -Make L&T, Hager, ABB or as approved by Engineer-in-Charge	2	Each						
13	Supplying and fixing copper strip bus-bars suitable for 63 Amp. 415 volts capacity 4 No. each of cross-sectional area (16mmx31.7mm), in the existing enclosure with all accessories including connections etc. as required :-	1	Each						
14	Supplying and fixing street light LED 25 watt with G1 bracket die cast Aluminium housing with frame and toughened glass, pipe mounting 5700K, (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > 9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make - Jaquar (Model - LPCRSRT25WLC)/Philips/wipro or its equivalent as approved by Engineer-in-Charge	1	Each						
15	Providing and laying of one number additional PVC insulated and PVC sheathed armoured / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling there nich etc as required, but excluding sand cushioning and protective covering. -Make -KEI,POLYCAB, Plaza or Equivalent make								
15.01	Armoured cable 6 sq. mm (twin core)	25	P/mtr						
16	Supplying and laying in service wire for energy meter 2x1.0sq mm PVC insulated aluminium conductor cable surface recess in PVC conduit as required including carriage of material within all leads and lifts as approved by the Engineer-in-Charge	18	P/mtr						
17	Supplying and fixing Post Top fixture / Gate lights Power LED 40 Watts, are mounted directly on inbuilt extruded Alum Heat Sinks. AUV stabilized thermoformed P.C diffuser is provided for glare Free Lighting with high visual comfort cat. no. MAKE Panasonic PPTM02408, wipro, Twinkle or as approved by Engineer-in-Charge	4	Each						
18	Supplying and fixing of cable box IP-66 with integrated membrane /metric knockout for cable entry 2.5 to 6 sq mm Hensal make 130x130x77 mm Cat.No. 0800H, IP 66/69, complete in all respects as required	4	Each						
19	Providing, Installation, testing and commissioning of ceiling fan without regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. Make - Usha (Model Allure plus), Bajaj, Crompton or its equivalent as approved by Engineer-in-Charge								
19.01	Ceiling Fan 1200mm sweep	1	Each						

20	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required	1	Each	3259	Rupees three thousand two hundred fifty nine only.	3259
21	Supplying and fixing following way, single pole and neutral sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB/RCCB/Isolator) Make L&T, Legrand ABB or its equivalent as per best satisfaction of Engineer-in-charge					
21.01	MCBDB 6 WAY Door	1	Each	1893	Rupees One thousand eight hundred ninety three only.	1893
22	Supplying and fixing of Indicating Bell 12 way on the existing board complete with connections etc. as required	1	Each	2000	Rupees Two thousand only.	2000
G. Total:-						99833


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY						
				Job No. 11		
				Estimated Cost:- Rs. 2,42,977/-		
				Earnest Money:- Rs. 4,900/-		
				Time Limit:- One Year.		
Name of Work:- C/O Mini Secretariat building at Nadaun Distt. Hamirpur, H.P. (SH: Providing E.I in Additional/alteration in waiting area & Block Development office, therein).						
Sr. No.	Description of Items	Quantity	Unit	Rate In Fig.	In words.	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. Make :- Anchor (Roma classic),L&T(Entice), Legrand (Myrius) or its equivalent as approved by Engineer-In-Charge					
1.01	Group C	15	Each	1052	Rupees One thousand fifty two only.	15780
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. Make:-Plaza,KEI,Finolex or its equivalent as approved by Engineer-In-Charge					
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	65	Meter	191	Rupees One hundred ninety one only.	12415
2.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	30	Meter	316	Rupees three hundred sixteen only.	9480
2.03	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	10	Meter	611	Rupees Six hundred eleven only.	6110
2.04	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	70	Meter	1129	Rupees One thousand one hundred twenty nine only.	79030
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.Make:- Plaza,KEI,Finolex or its equivalent as approved by Engineer-In-Charge					
3.01	2 x 1.5 sq. mm	30	Meter	71	Rupees Seventy one only.	2130
3.02	3 x 4sq. mm	20	Meter	231	Rupees Two hundred thirty one only.	4620
4	Supplying and drawing 2 core .75 sq mm cable with PVC Sheathed in existing surface /recessed steel/PVC Conduit as required.Make :Polycab, Finolex, KEI or its equivalent as approved by Engineer-In-Charge	70	Meter	54	Rupees Fifty four only.	3780
5	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as requiredMake :-Anchor (Roma classic),L&T(Entice),Legrand (Myrius) or its equivalent as approved by Engineer-In-Charge	4	Each	78	Rupees Seventy eight only.	312
6	Supplying and fixing 5 amp piano Gang type bell push switch/ socket on the existing switch box/ cover including connections etc. as required.	50	Each	48	Rupees Forty eight only.	2400

7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-In-Charge	5	Each	486	Rupees Four hundred eighty six only.	2430
8	Supplying and fixing suitable size GI box with modular plate and cover in FRL.Sont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand (Myrius) or its equivalent as approved by Engineer-In-Charge	4	Each	645	Rupees six hundred forty five only.	2580
9	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches & Sockets , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising frame and cover plate for each 2 module metal box and 12 module metal box , one no computer jack (RJ-45)with shutter including connections etc as required .Make :-Anchor (Roma classic),L&T(Entice),Legrand (Myrius) or its equivalent as approved by Engineer-In-Charge	4	Each	1772	Rupees One thousand seven hundred seventy two only.	7088
10	Supplying and fixing of following sizes of Heavy class PVC Conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed medium class PVC Conduit as required. Diplast/BEC /Polyfit. or its equivalent as approved by Engineer-In-Charge					
10.01	25 mm	150	Mtr.	98	Rupees Ninety eight only.	14700
11	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required.	50	Mtr.	65	Rupees Sixty five only.	3250
12	Supplying and drawing of telephone cable 2 pair in the existing surface/recessed steel/ PVC conduit as required.	500	Mtr.	24	Rupees Twenty four only.	12000
13	Supplying and fixing Loaded Wall- Wall Mount 2u Dimensions-5540-GR-DVR wall rack 2U-400D ,Unloaded Mounting Rail with U-Marking welded Side walls !U Cable Manager (1) Hardware Packet (1Pkt)3 socket 5amp .power distribution Unit(INO) .Make:- D-Link(CAT NO NWR-3535 DVR). Cisco, Digi link or its equivalent as approved by Engineer-in-Charge.	1	Each	1355	Rupes One thousand three hundred fifty five only.	1355
14	Supplying and fixing D- link DGS-1008 C 8-port 10/100/ 1000Mbps Unmanaged standalone gigabit switch in desk top (green ethernet) for getting blazing speed of giga bite that delivers power performance and reliability i.e increasing the speed of net work server in large in switching protocol storing and forwarding as required .Make:- D-Link(Code No DGS-1008C) Digilink, Cisco/ or its equivalent as approved by Engineer-in-Charge.	1	Each	2788	Rupees Two thousand seven hundred eighty eight only.	2788
15	Supplying and fixing D- link DGS-1016 C 16-port 10/100/1000Mbps Unmanaged standalone gigabit switch in desk top (green ethernet) for getting blazing speed of giga bite that delivers power performance and reliability i.e increasing the speed of net work server in large in switching protocol storing and forwarding as required .Make:- D-Link Digilink, Cisco/ or its equivalent as approved by Engineer-in-Charge.	1	Each	7468	Rupees Seven thousand four hundred sixty eight only.	7468

16	Providing, Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (up to 45 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing fan box ,phenolic laminated sheet cover on the fan box and earthing etc. as required: Make:- Usha(TECHNIX PLUS)Bajaj,Crompton or its equivalent as approved by Er-In Charge							
16.01	Ceiling Fan 1200 mm sweep	2	Each	3447	Rupees three thousand four hundred forty seven only.	6894		
17	Providing and fixing of following type surface mounted Luminaire LED batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >.9, Harmonic Distortion>15% and efficiency>100lumens per watt ,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as: Make Philips, Panasonic jaquar or its equivalent as approved by Er-In-Charge(Five year warranty)					0		
17.01	24 watt	4	Each	640	Rupees Six hundred forty only.	2560		
18	Supplying and fixing of LED panel driver4/8 watt with connector including connections, testing and commissioning as required Make:-Havells (Cat no LSSLNW0168) , Philips,Jaquar,Panasonic ,or its equivalent as approved by Er-in-charge	6	Each	242		1452		
19	Supplying and fixing LED strip 5 watt, 3000k, (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz,including driver complete with all accessories, connections, testing and commissioning etc. Make:-jaquar/Philips, wipro or its equivalent as approved by Engineer-in-Charge	35	Mtr.	211	Rupees Two hundred eleven only.	7385		
20	Supplying and fixing true power make advanced earthing system having copper pipe 3 meter long 50 mm dia with terminal size 50x6 mm ,internal strip size 25x3 with 50 Kg compound including exavation of pit and refilling the same and making earthing pit cover 12 inch dia as required complete in all respect. make :- True power ,Earth plus,Ashloka or its equivalent as per best satisfaction of Engineer-in -charge.	2	P/set	14002	Rupees Fourteen thousand two only.	28004		
21	Providing and fixing 4mm dia copper wire on surface or in recess for loop earthing along with existing surface/recess for loop earthing along with existing surface/recessconnections etc. as required.	20	P/Mtr.	200	Rupees Two hundred only.	4000		
22	Supplying and fixing following way, single pole and neutral,sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar,din bar, inter connections, powder paintedincluding earthing etc. as required. (But withoutMCB/ RCCB/ Isolator) Make L&T, Schneider,ABB or its equivalent as per best satisfaction of Engineer-in -charge.							
22.01	MCBDB 4 WAY	1	Each	1765	Rupees One thousand seven hundred sixty five only.	1765		

23	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:-Make L&T, Schneider,ABB or its equivalent as per best satisfaction of Engineer-in -charge.	1	Each	1201	Rupees One thousand two hundred one only.	1201
G. Total						242977


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY						
						Job No. 12
						Estimated Cost:- Rs. 4,85,229/-
						Earnes Money:- Rs. 9,700/-
						Time Limit:- Six Months.
Name of work :-C/O Additional building (Block C & D) for Govt.L.T.I building Una, Distt.Una (SH :-Balance work of Power wiring in Carpenter & Auto Electric workshop there in)						
Sr. No.	Description	Quantity	Rate In fig.	In Words.	Unit	Amount
1	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 (KEL/Anchor/L&T make)					
1.01	3x10 Sq. mm.	178	616	Rupees Six hundred sixteen only.	P/mtr.	109648
1.02	6x10 Sq. mm.	192	1199	Rupees One thousand one hundred ninety nine only.	P/mtr.	230208
2	S/F Clamp made from flat angle for fixing of existing PVC Trunking with nuts & bolts etc, as required.	30	274	Rupees Two hundred seventy four only.	Each	8220
3	S/F of additional fan rod of size 36" in place of 18 " fan rod etc as required.	19	142	Rupees One hundred forty two only.	Each	2698
4	Supplying and laying 8 SWG copper, wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25	142	Rupees One hundred forty two only.	P/mtr.	3550
5	Supplying and fixing 20 Amps, 220 volts, SPN industrial socket outlet, 2-pole & earth, metal enclosed plug top, sheet steel enclosure, suitable to accommodate a 20 Amp SP-MCB, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required. (Make :-L&T/Legrand/Havells)	17	1209	Rupees One thousand two hundred nine only.	Each	20553
6	Providing and fixing MCCB four pole 63 amps rating and 18 KA breaking capacity 415 volts AC supply 50 HZ four pole DU 100 D type in the existing enclosure including making connections etc,as required. (L&T/ABB/Standard make)	15	4774	Rupees Four thousand seven hundred seventy four only.	Each	71610
7	Providing and fixing MCCB enclosure for DU 100 D/DU MCCB following rating on the existing board complete as required (L&T/ABB/Legrand make)	16	1952	Rupees One thousand nine hundred fifty two only.	Each	31232
8	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No.4 Sq mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	5	339	Rupees three hundred thirty nine only.	P/mtr.	1695
9	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm 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 Casing capping, with modular switch, modular plate, suitable G1 box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	5	1163	Rupees One thousand one hundred sixty three only.	Each	5815
G.Total :-						485229

Executive Engineer,
Electrical Division,
HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY					Job No. 13	
					Estimated Cost:- Rs. 4,96,815/-	
					Earnest Money:- Rs. 9,900/-	
					Time Limit:- Six Months.	
Name of work :-C/O Additional building (Block C & D) for Govt.I.T.I. building Una, Distt.Una (SH :-Balance work of Power wiring in Machanic Diesel Engine workshop and Computer room there in)						
Sr. No.	Description	Quantity	Rate	In Fig.	In Words.	Amount
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 (KEI/Anchor/L&T make)					
1.01	3x10 Sq. mm.	198	616		Rupees six hundred sixteen only.	121968
10.2	6x10 Sq. mm.	92	1199		Rupees One thousand one hundred ninety nine only.	110308
2	S/F Clamp made from flat angle for fixing of existing PVC Trunking with nuts & bolts etc, as required.	23	274		Rupees Two hundred seventy four only.	6302
3	S/F of additional fan rod of size 36" in place of 18" fan rod etc as required.	8	142		Rupees One hundred forty two only.	1136
4	Supplying and fixing of following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.-(Make :- L&T/Legrand/Schneider)					
4.01	DP 63 Amps.	26	597		Rupees Five hundred ninety seven only.	15522
5	Supplying and laying 8 SWG copper. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	20	142		Rupees One hundred forty two only.	2840
6	Supplying and fixing 20 Amps, 220 volts, SPN industrial socket outlet, 2-pole & earth, metal enclosed plug top, sheet steel enclosure, suitable to accommodate a 20 Amp SP-MCB, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required. (Make :-L&T/Legrand/Havells)	8	1209		Rupees One thousand two hundred nine only.	9672
7	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
7.01	12 way, Double door	1	2350		Rupees Two thousand three hundred fifty only.	2350
8	Providing and fixing DLP U-PVC adaptable trunking system and accessories 105x50 mm.on existing wall at required height from floor level including fixing flexible cover, internal angle, external angle, flat angle, centre tap complete with end cap etc, as required. (Legrand Cat.No.010422 or its equivalent make)	38	1105		Rupees One thousand one hundred five only.	41990

9	Providing and fixing Internal angle adjustable from 80* to 100* on the DLP U-PVC trunking for making compact joint as required.(Legrand Cat.No.010602 or its equivalent make)	15	367	Rupees Three hundred sixty seven only.	Each	5505
10	Providing and fixing External angle adjustable from 60* to 120* on the DLP U-PVC trunking for making compact joint as required.(Legrand Cat.No.010622 or its equivalent make)	13	359	Rupees Three hundred fifty nine only.	Each	4667
11	Providing and fixing 90* Flat angle on the corner of DLP U-PVC 105x50 mm trunking for making compact and good looking joint as required.(Legrand Cat.No.010785 or its equivalent make)	9	505	Rupees Five hundred five only.	Each	4545
12	Providing and fixing end cap of the DLP U-PVC trunking for closing the end as required.(Legrand Cat.No.010702or its equivalent make)	5	162	Rupees One hundred six ty two only.	Each	810
13	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.(Make :-Legrand (Arteor)/Anchor Panassonic (Vision/L&T (Entice))	3	992	Rupees Nine hundred ninety two only.	Each	2976
14	Supplying and drawing LAN cable Cat.6,solid copper conductor protected with PVC sheath in the existing surface/recessed steel/PVC conduit as required.(D-Link or its equivalent make)	438	54	Rupees fifty four only.	P/mtr.	23652
15	S/F Computer board comprising 2 No.5 amps.switch (Modular) and 2 No.3 pin 5 amps. Socket out let (Modular) and 1 No.8 Modular cover plate,1 No. computer jack with shutter including connections etc.as required complete in all respects.(Make :-Legrand (Arteor)/Anchor Panassonic (Vision) .)	36	1530	Rupes One thousand five hundred thirty only.	Each	55080
16	Supplying and drawing of following sizes of FRLS PVC insulated copper conductor. single core cable in the existing surface/ recessed steel/PVC conduit as required.					
16.01	3x4.0 sq.mm.	10	235	Rupees Two hundred thirty five only.	P/mtr.	2350
16.02	6x16.0 sq.mm.	7	1767	Rupes One thousand seven hundred sixty seven only.	P/mtr.	12369
17	Wiring for power plug with 2x4 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.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	15	339	Rupees three hundred thirty nine only.	P/mtr.	5085
18	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm 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 Casing cappin, 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.	10	1163	Rupees One thousand one hundred sixty three only.	Each	11630

19	Supplying and fixing of Hub 16 port on the existing wall/board complete with connections etc, as required.(D-Link or its equivalent make)	5	7489	Rupees Seven thousand four hundred eighty nine only.	Each	37445
20	Supplying and fixing of Hub 24 port on the existing wall/board complete with connections etc, as required.(D-Link or its equivalent make)	1	12367	Rupees Twelve thousand three hundred sixty seven only.	Each	12367
21	Supplying and fixing of Storage Rack on the existing wall/board complete with connections etc, as required.(D-Link or its equivalent make)	2	3123	Rupees three thousand one hundred twenty three only.	Each	6246
G.Total :-						496815


 Executive Engineer,
 Electrical Division,,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY					Job No. 14	
					Estimated Cost:- Rs. 4,56,067/-	
					Earnest Money:- Rs. 9,100/-	
					Time Limit:- Six Months.	
Name of work :- C/O Additional building (Block C & D) for Govt.L.T.I. building Una, Distt.Una (SH :- Balance work of Power wiring in Turner workshop & Mech.Diesel Engine workshop there in)						
Sr. No.	Description	Quantity	Rate In fig.	In words.	Unit	Amount
1	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 (KEI/Anchor/L&T make)					
1.01	3x10 Sq. mm.	96	616	Rupees six hundred sixteen only.	P/mtr.	59136
1.02	6x10 Sq. mm.	117	1199	Rupees One thousand one hundred ninety nine only.	P/mtr.	140283
2	S/F Clamp made from flat angle for fixing of existing PVC Trunking with nuts & bolts etc. as required.	61	274	Rupees Two hundred seventy four only.	Each	16714
3	S/F of additional fan rod of size 36" in place of 18" fan rod etc as required.	22	142	Rupees One hundred forty two only.	Each	3124
4	Supplying and fixing of following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. -(Make :- L&T/Legrand/Schneider)					
4.01	DP 63 Amps.					
5	Supplying and laying 8 SWG copper. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	17	597	Rupees Five hundred ninety seven only.	Each	10149
		25	142	Rupees One hundred forty two only.	P/mtr.	3550
6	Supplying and fixing 20 Amps, 220 volts, SPN industrial socket outlet, 2-pole & earth, metal enclosed plug top, sheet steel enclosure, suitable to accommodate a 20 Amp SP-MCB, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required. (Make :- L&T/Legrand/Havells)	17	1209	Rupees One thousand two hundred nine only.	Each	20553
7	Providing and fixing MCCB four pole 63 amps rating and 18 KA breaking capacity 415 volts AC supply 50 HZ four pole DU 100 D type in the existing enclosure including making connections etc, as required. (L&T/ABB/Standard make)	22	4774	Rupees Four thousand seven hundred seventy four only.	Each	105028
8	Providing and fixing MCCB enclosure for DU 100 D/ DU MCCB following rating on the existing board complete as required (L&T/ABB/Legrand make)	23	1952	Rupees One thousand nine hundred fifty two only.	Each	44896
9	Providing and fixing DLP U-PVC adaptable trunking system and accessories 50X50 mm on existing wall at required height from floor level including fixing flexible cover, internal angle, external angle, flat angle, centre tap complete with end cap etc, as required.	58	608	Rupees Six hundred eight only.	P/mtr.	35264
10	Supplying and drawing of following sizes of FRILS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/PVC conduit as required.					
10.01	3x4 0 sq. mm.	10	235	Rupees Two hundred thirty five only..	P/mtr.	2350

11	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.	10	339	Rupees three hundred thirty nine only.	P/mtr.	3390
12	Wiring for light point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed Casing capping, with modular switch, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	10	1163	Rupees One thousand one hundred sixty three only.	Each	11630
G. Total :-						456067


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY						Job No. 15	
						Estimated Cost:- Rs. 4,67,967/-	
						Earnest Money:- Rs. 9,400/-	
						Time Limit:- Six Months.	
Name of work :-C/O Additional building (Block C & D) for Govt.I.T.I.building Una, Distt.Una (SH :-Balance work of Power wiring in Machanic Motor vehicle workshop 1& 2 there in)							
Sr. No.	Description	Quantity	Rate In fig.	In words.	Unit	Amount	
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 (KEI/Anchor/L&T make)						
1.01	3x10 Sq. mm.	218	616	Rupees six hundred sixteen only.	P/mtr.	134288	
1.02	6x10 Sq. mm.	156	1199	Rupees One thousand one hundred ninety nine only.	P/mtr.	187044	
2	S/F Clamp made from flat angle for fixing of existing PVC Trunking with nuts & bolts etc, as required.	28	274	Rupees Two hundred seventy four only.	Each	7672	
3	S/F of additional fan rod of size 36" in place of 18 " fan rod etc as required.	20	142	Rupees One hundred forty two only.	Each	2840	
4	Supplying and fixing of following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required:- (Make :- L&T/Legrand/Schneider)						
4.01	DP 63 Amps.	70	597	Rupees Five hundred ninety seven only.	Each	41790	
5	Supplying and laying 8 SWG copper. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	105	142	Rupees One hundred forty two only.	P/mtr.	14910	
6	Supplying and fixing 20 Amps, 220 volts, SPN industrial socket outlet, 2-pole & earth, metal enclosed plug top, sheet steel enclosure, suitable to accommodate a 20 Amp SP-MCB, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required. (Make :- L&T/Legrand/Havells)	48	1209	Rupees One thousand two hundred nine only.	Each	58032	
7	Supplying and drawing of following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/PVC conduit as required.						
7.01	3x4.0 sq mm.	10	235	Rupees Two hundred thirty five only.	P/mtr.	2350	
8	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No.4 Sq.mm. HRFRS/PVC insulated single core copper conductor cable for earthing as required.	15	339	Rupees three hundred thirty nine only.	P/mtr.	5085	

9	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm 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 Casing capping, with modular switch, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	12	1163	Rupes One thousand one hundred sixty three only.	Each	13956
G. Total :-						467967


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY							Job No. 16
						Estimated Cost:- Rs. 1,48,400/-	
						Earnest Money:- Rs. 3,000/-	
						Time Limit:- Six Months.	
Name of work :-C/O HP.PWD.Circuit House building at Una, Distt.Una (HP)							
(SH :- Providing Copper pipe, Copper wire & Cable tray there in)							
Sr. No.	Description	Quantity	Rate In Fig.	In Words.	Unit	Amount	
1	Supplying and fixing of copper pipe for A.C. of various capacity of size 1/4"x1/2"x5/8" with wire and insulator etc as required.	58	1150	Rupees One thousand one hundred fifty only.	P/mtr.	66700	
2	Supplying and fixing of copper wire 3 core 4.0 sq.mm. for A.C. indoor and out door unit of various capacity etc as required.	114	350	Rupees three hundred fifty only.	P/mtr.	39900	
3	Providing and fixing MS.Galvanised cable tray of size 200x50x1.6/20 G.	28	1100	Rupees One thousand one hundred only.	mtr.	41800	
G.Total :-						148400	


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY										Job No. 17
										Estimated Cost:- Rs. 1,39,830/-
										Earnest Money:- Rs. 2,800/-
										Time Limit:- One year.
Name of Work:- Annual Comprehensive Maintenance contract (AMC) of 1Nos. Passenger lift (Johnson make) in circuit house Hamirpur Distt Hamirpur HP.(For the year 2023-24).										
Sr. No.	Description	Quantity	Unit	Rate	In fig.	In Words.	Amount			
1.00	Regular examination, lubrication and Adjustment of the equipment and planned maintenance in the systematic manner and replacement of parts as detailed below:-									
1.01	Renew all wires ropes and chain to maintain an adequate factor of safety, to equalie tension on all hoisting ropes, repair or replace conductor cables and hoist way and machine room elevator wiring.	-		-						
1.02	Systematic examining and adjustment of following machine, worn gear, Thrust bearings Drives sheaves, Drive shelves bearings, brake contract, linings and components, Motor generator, motor, Motor generator, Motor windings, rotating elements, commutator, brushes brush holder, bearings, coils, resistance for operating and Motor circuit, magnet frames and other mechanical parts, controller, selector leveling, devices cams, relays, solid state components e.g PCB's transducers, resistance, condensers, power amplifier, transformers, contract, leads, dashpots timing devices, Steel selector tapes and mechanical and electrical driving equipment Governor, governor sheave, shaft assembly bearings and Governors jaws, cr and hall mechanical button, car and hall position indicators hall lanterns, car direction indicators and all other car and landings as installed by Johnson. Deflector or secondary sheave, bearing, car counter weight and counterweight guide rails and buffers, top and button limit switches, Governor tension sheaves assembly, compensating sheaves assembly car, counter weight and counter overweight guide shows including rollers or gibs, interlock on Hoist way.	-		-						
1.03	Examine periodically all safety devices and governor and all customary safety test.	-		-						
1.04	The firm will provide emergency minor adjustment all back services 24 hours as all working days as well as holidays/ Sunday. The firm will maintain the lift in reliable and efficient operating connections.	-		-						
1.05	(Machine No. L-J2338),	1.00	Job	139830.00		Rupees One Lac. Thirty nine thousand eight hundred thirty only.				
G. Total:-										139830


Executive Engineer,
Electrical Division,
HP.P.W.D., Una.

DRAFT SCHEDULE OF QUANTITY						
JOB NO. 18						
			Estimated cost:- Rs. 2,83,766/-			
			Earnest money:- Rs. 4,800/-			
			Time Limit:- Six Months.			
Name of work :-Replacement of damaged Street Light Fixtures,Cable & Timer on Ali Khad Bridge at Chandpur in Distt Bilaspur (H.P)						
Sr. No.	Description	Quantity	Rate In fig.	In words.	Unit	Amount
1	Providing and installation of LED Street light 70 W with bracket power coated pressure die cast aluminium high power led with heat resistant toughened glass with lens ,electronic driver; suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. as required.:Make ,wipro(LRO2-781-XXX-57-G3),Panasonic Philips or its equivalent as approved by Engineer-in - charge.(Five year warranty)					
1.01	Group-C	20	12154	Rupees Twelve thousand one hundred fifty four only.	Each	243080
2	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation sand cushioning, protective covering and refilling the trench etc. of the required size:-(Polycab,Finolex,L&T,KEI make)					
2.01	Armoured cable 6 sq.mm. (Twin Core)	75	514	Rupees Five hundrd fourteen only,	P/mtr.	38550
3	Supplying and fixing 240 Volts Timer Switch For Street Light of L& T make as per cat No. 67DDT0 , complete with connections, testing and commissioning etc. as required.	1	2136	Rupees Two thousand one hundred thirty six only.	Each	2136
TOTAL						283766


 Executive Engineer,
 Electrical Division,
 HPPWD., Una.

DRAFT SCHEDULE OF QUANTITY						Job No. 19
			Estimated Cost:-	Rs. 2,70,275		
			Earnest Money:-	Rs. 5,400/-		
			Time Limit :-	One year		
Name of work :-C/O Residential accommodation Type IV quarter 1 Nos for officer of Excise and Taxation at Pucca Bharo Distt Hamirpur(HP) (SH):- Providing E.I therein)						
Sr. No.	Description of Items	Qty.	Unit	Rate	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 / heavy class PVC conduit having wall thickness minimum 2 mm, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge					
1.01	Group B	45	Each	1058		47610
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / heavy class PVC conduit having wall thickness minimum 2 mm, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq FRLS PVC insulated copper conductor single core cable etc as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	4	Each	1379		5516
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed heavy class PVC conduit having wall thickness 2.0mm as required. Make:-Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
3.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	70	Meter	184		12880
3.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	72	Meter	303		21816
3.03	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	5	Meter	562		2810
3.04	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	48	Meter	533		25584
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make:-Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
4.01	3 x 1.5 sq. mm	25	Meter	97		2425
4.02	3 x 4 sq. mm	15	Meter	219		3285
5	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge					
5.01	5/6 amp Modular switch	6	Each	76		456
5.02	5 pin 5/6 amp socket outlet	6	Each	122		732
6	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	5	Each	25		125
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	4	Each	426		1704
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	2	Each	669		1338

9	Supplying and fixing suitable size GI box with modular plate and cover in FRL Sont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	10	Each	559	5590
10	Supplying and fixing of following sizes of heavy class PVC conduit having wall thickness 2.0mm along with accessories insurface/recess including painting in case of surface conduit, or cutting the walland making good the same in case of recessed conduit as required. Diplast/BEC/Polyfit or its equivalent as approved by Er-In-Charge				
10.01	25 mm	25	Mtr.	109	2725
11	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	1	Each	78	78
12	Providing and installation exhaust fan of 300 mm light duty (pvc) in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required. Make : Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in -charge.	2	Each	2850	5700
13	Providing and installation exhaust fan of 300 mm light duty (Domestic type) in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required. Make : Usha, Bajaj, Crompton or its equivalent as approved by Er-In-Charge	2	Each	2169	4338
14	Supplying and fixing exhaust fan louver shutter for 300 mm exhaust fan on the existing wall, painting etc, as required,	2	Each	650	1300
15	Providing, Installation, testing and commissioning of ceiling fan with socket type regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. Make:- Usha(TECHNIX PLUS), Bajaj, Crompton or its equivalent as approved by Er-in-charge				
15.01	Ceiling Fan 1200 mm sweep	5	Each	2789	13945
16	Supplying and fixing LED Lamp 9 watts 6500 K E-27 ,900 Lumens 240 volts AC, supply 50 HZ in the existing batten holder, pendant holder, wall bracket & bulk head fitting etc, as required. Make TISVA (Cat no AL91661 IX), wipro, Philips or equivalent Make :-Tisva ,Panasonic Philips or its equivalent as approved by Er-In-Charge(Five year warranty)	5	Each	138	690
17	Supplying and fixing followig type surface round type LED dowlight ,6000K , and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, with three year warranty complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Er-In-Charge(Five year warranty)				
17.01	12W	12	Each	848	10176
17.02	18W	12	Each	1262	15144
18	Supplying and fixing of LED bulk head fitting with all accessories including making connections, testing etc. as required. Make Panasonic, Wipro Philips or its equivalent as approved by Er-In-Charge(Five year warranty)	2	Each	822	1644
19	Supplying and fixing of fancy wall bracket of chrome finish colour with opal glass diffuser made of mild steel, with single holder containing thread type LED lamp holder(s) of all sizes and shapes, complete with all accessories but excluding led lamp including making connections, testing etc. as required. Make Philips, Jaquar Tisva or its equivalent as approved by Er-In-Charge(Five year warranty)	3	Each	1552	4656
20	Supplying and fixing of fancy wall Double bracket of chrome finish colour with opal glass diffuser made of mild steel, with single holder containing thread type LED lamp holder(s) of all sizes and shapes, complete with all accessories but excluding led lamp including making connections, testing etc. as required. Make PHILIPS, wipro, jaquar or equivalent make	1	Each	2495	2495

21	Supplying and fixing of fancy Mirror/Dressing lights with double wall opal glass & base chrome finish complete with all accessories including making connections, testing etc. as required. Make PHILIPS, wipro, jaquar or equivalent make	2	Each	3357	6714
22	Providing and fixing of following type surface mounted Luminaire LED batten having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 15% and efficiency > 100 lumens per watt. CR> 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as: Make Philips, Panasonic Jaquar or its equivalent as approved by Er-In-Charge (Five year warranty)				
22.01	24 watt	4	Each	595	2380
23	Supplying and fixing batten/ angle holder including connection etc. as required Make :-Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge	1	Each	59	59
24	Supplying and fixing of LED 3 Watt fancy Bedside light of white colour with metal & synthetic material, complete with all accessories including making connections, testing etc. as required. Make Jaquar, wipro, Philips or its equivalent as approved by Engineer-in -charge (Five year warranty)	2	Each	2999	5998
25	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required	1	P/set	4532	4532
26	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required				
27	Supplying and fixing following way, single pole and neutral sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)/Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in -charge.	30	P/mtr	40	1200
27.01	MCBDB 12 WAY	1	Each	2257	2257
27.02	MCBDB 16 WAY	1	Each	2805	2805
28	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required /Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in -charge.				0
28.01	single pole				
29	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required.-Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in -charge.	20	Each	263	5260
30	Supplying and fixing of following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.-Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in -charge.	2	Each	1195	2390
30.01	40 AMP				
30.01	63 AMP	1	Each	2960	2960
31	Providing and installation of stationary storage type Electric water heater (Geyser) of following capacity various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required.-Make:-Usha, Bajaj, Recold or its equivalent as per best satisfaction of Engineer-in -charge.	1	Each	3662	3662
31.01	10 litre	1	Each	10182	10182
31.02	25 litre	2	Each	12557	25114
G. Total:-					270275

Executive Engineer
Electrical Division
HPU na PWD.,

DRAFT SCHEDULE OF QUANTITUV							Job No. 20
					Estimated Cost:- Rs. 1,63,004/-		
					Earnest Money:- Rs. 3,300/-		
					Time Limit:- One year.		
Name of work:-A/R & M/O of various type and different capacity of Air Conditioners installed in various N.R Govt. buildings under Electrical Sub-Division HP.PWD Una (Una Section) for the year 2023-2024.,							
Sr. No.	Description of Item	Quantity	Rate In Fig.	In Words.	Unit	Amount	
1	Annual , Repair & maintenance (Routine & preventive) of various makes/types and different capacity Split AC's with four numbers mandatory quarterly services and all emergency break down services as and when required from time to time as per the best satisfaction of Engineer-in-charge.The AMC will include the following:-						
1.01	Compress, Thermostat Relay, OLP,Fan Motors, Timers, Heaters, Air dampers, Ice maker, temperature sensors, Evaporators, Condensers, Refrigerant charging Driers Capillary Blowers, Fan Blade Control box, Magnetron, Electrical switches, Transformers(internal), Diodes, Capacitors, Wire hairness, Wash, & Spin motors Gear box Clutch assembly Drum Inner Bellows bears & Lip seal (Drain motor Pump, Electrical valves, Buzzer Suspension Key Members Remote PCB including cost of their replacement.						
1.02	All defective components shall be replaced with compatible working parts and defective parts shall be company's/firm./Contractor's property.						
1.03	Split type A.C 1.5ton capacity.	22 Numbers	4582	Rupees Four thousand five hundred eighty two only.	Each	100804	
1.04	Split type A.C. 2 ton capacity	9 Numbers	4800	Rupees Four thousand eight hundred	Each	43200	
1.05	Window type A.C.	5 Numbers	3800	Rupees three thousand eight hundred only.	Each	19000	


 Executive Engineer
 Electrical Division
 HPPWD., Una

DRAFT SCHEDULE OF QUANTITY						
					Estimated Cost:- Rs. 3,73,481/-	Job No. 21
					Earnest Money:- Rs. 7,500/-	
					Time Limit:- One year.	
NAME OF WORK:- Construction of Residential Qtrs. for CHC Markand in Distt. Bilaspur (H.P.). (SH:-Providing E.I. in 4 Nos Type II Qtrs. there in)						
Sr. No.	Description	Quantity	Rate	In fig.	In words.	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 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 (SSK(Lica model),Anchor,I&T make)					
1.01	Group A.	80	901		Rupees Nine hundred one only.	72080
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVCConduit with 2-way, 5/6 amps. 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 (SSK(Lica model),Anchor,I&T make)					
2.01	Group A.	1	1327		Rupees One thousand three hundred twenty seven only.	1327
3	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required (SSK (Lica model),I&T,Anchor make)					
3.01	S.P. 5/ 6 Amps one way Modular switch.	8	76		Rupees Seventy six only.	608
3.02	5 pin, 5/ 6 Amps Modular socket outlet.	8	150		Rupees One hundred fifty only.	1200
3.03	Bell push	4	149		Rupees One hundred forty nine only.	596
4	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required (SSK (Lica model),I&T,Anchor make) .	20	424		Rupees four hundred twenty four only.	8480
5	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. (SSK (Lica model), I&T,Anchor make)	20	585		Rupees five hundred eighty five only.	11700
6	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No 4 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required (Finolex,KEI,Anchor,I&T make)	118	312		Rupees three hundred twelve only.	36816
7	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 (Finolex,KEI,Anchor,I&T make)	61	532		Rupees Five hundred thirty two only.	32452

8	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 (Finolex,KEI,Anchor,I&T make)							
8.01	2x1.5 Sq. mm.	148	194		Rupees One hundred ninety four only.			28712
8.02	2x10 Sq. mm	25	558		Rupees Five hundred fifty eight only.		P/mtr. P/mtr.	13950
9	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.(Finolex,KEI,Anchor,I&T make)							
9.01	3x1.5 Sq. mm.							
10	Supplying and fixing call bell / buzzer, suitable for D.C./A.C.single phase, 230 volts complete as required.-(SSK,Anchor make)	24	97		Rupees Ninety seven only.		P/mtr.	2328
11		4	287		Rupees Two hundred eighty seven only.		Each	1148
12	Supplying and fixing bakelite batten/angle holder including connections etc. as required.-(SSK,Anchor make)	16	47		Rupees forty seven only.		Each	752
	Supplying and fixing Aluminium batten LED 24 watt, 6000K. (Five YEAR WARRANTY) and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make:-Jaquar (Cat No LGLZ01X024XN)/Philips,Panasonic or its equivalent as approved by Engineer-in-Charge	12	595		Rupees five hundred ninety five only.		Each	7140
13	Supplying and fixing of bulk head fitting LED 10 watts and should be compatible with specifications i.e power factor <0.9 Harmonic distortion < 10% & efficacy > 100 Lumen per watts CRI> 80 6500 K suitable for input voltage 220-240 volts 50 HZ Length 232x Width 105x Height 50 mm size complete with connections etc. as required (Panasonic Ellipto Code No. PBHM01107,Philips & Decon make or its equivalent	4	822		Rupees Eight hundred twenty two only.		Each	3288
14	Supplying and fixing Fancy wall bracket Decon make, ventessa model Cat.No. 0553,240V, 50Hz,0.8p.f. containing GLS lamp holder (s) of all sizes and shapes, complete with all accessories but excluding CFL lamp including making connections, testing etc. as required. Decon cat.no.0553/philips/Wipro or its equivalent	8	1200		Rupees One thousand two hundred only.		Each	9600
15	Supplying and fixing LED Batten 10 watts Mirror Light and it should be compatible with specifications i.e power factor>0.9 Harmonic distortion<10%& efficacy>100, lumen per watts,CRI>80, CCT 6500K suitable for input voltage 220-240 volts,50Hz,IP rating20,surge rating 3.0kv, and length 59.5 cm complete with connections etc. as required(Tisva code No.FT10001WT,Panasonic& Philips make)	4	457		Rupees Four hundred fifty seven only.		Each	1828
16	Providing, Installation, testing and commissioning of ceiling fan without step type fan regulator modular, air delivery 215m3/min power input 30 watts speed 530RPM, 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.- Tech. specifications:-100-240V,50 Hz,speed 380 rpm,power consumption 68 watt							
16.01	Usha Technix plus BEE 5 Star rated model) or its equivalent make) as approved by the Engineer-in-charge							
16.02	aCeiling fan 1200mm sweep.							
17	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:- (Hager,ABB,I&T make)	12	2895		Rupees Two thousand eight hundred ninety five only.		Each	34740
17.01	Single pole, 6 Amps Cat-A.	32	252		Rupees Two hundred fifty two only.		Each	8064

18	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.-(Haggar,ABB,I&T make)								0
18.01	40 Amps. Car-A.	4	1105		Rupees One thousand one hundred five only.	Each			4420
19	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.-(Haggar,ABB,I&T make)								
19.01	Double door-12 way	4	2257		Rupees Two thousand two hundred fifty seven only.	Each			9028
20	Supplying and fixing true power make advanced earthing system having copper pipe 3 meter long 50 mm dia with terminal size 50x6 mm internal strip size 25x3 with 50 Kg compound including excavation of pit and refilling the same and making earthing pit cover 12 inch dia as required complete in all respect. make :- True power ,Earth plus,Ashloka or its equivalent as per best satisfaction of Engineer-in -charge.	2	10074		Rupees ten thousand seventy four only.	P/set			20148
21	Supplying and laying 8 SWG G.I wire at 0.50 mtr. Below ground level for earth electrode conductor, including soldering etc. as required.	40	31		Rupees thirty one only.	P/mtr.			1240
22	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-								
22.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Usha/Crompton make)	8	2347		Rupees Two thousand three hundred forty seven only.	Each			18776
23	Supplying and fixing surface mounting LED 15 watt metal panel round down light for soft diffuse lighting white cool and should be compatible with specifications i.e power factor>0.9, Harmonic distortion<10%& efficiency>100Lumen per watt, CRI>80, 4000K, suitable for input voltage 220-240 volts, 50Hz, IP rating20,surge rating upto 3 kv, dimensions 421.2 C3.0 complete with connections etc. as required (Tisva EZIO Series Code no. DL.P 18232M/Panasonic/Philips or its equivalent make	8	1065		Rupees One thousand sixty five only.	Each			8520
24	S/F of LED lamp 9 watts 6500 K. E-27, 900 Lumens 240 volts AC supply 50 HZ in the existing batten holder, pendant holder wall bracket & Bulk head fitting etc. as required. (Tisva Panasonic & Philips make)	16	190		Rupees One hundred ninety only.	Each			3040
G. Total :-									373481


 Executive Engineer
 Electrical Division,
 HP, PWD, Una.

DRAFT SCHEDULE OF QUANTITY									
Sr. No		Name of work: SITC of CCTV/Video Surveillances system in ground floor at Auditorium, Samoor Kalan, Distt. Una (HP)			Estimated cost:- Rs. 4,53,791/- Earnest money:- Rs. 9100/- Time Limit:- 45 days.		Job No. 22		
ITEM DESCRIPTION		Quantity	Unit	Rate	In Fig.	Amount			
1	Supply, installation, testing and commissioning of 5MP IP Bullet Network Camera with Specifications as follow: Image Sensor: 1/2.7" 5 Megapixel Progressive Scan Sensor; Image Pixels: Max: 2592 x 1944 Pixels (5.0 Mega Pixels); Min Illumination: 0.01Lux/0Lux with IR; Day/Night: Auto (ICR) / Color / Black & White; WDR: ≥120db; IR Led: Yes; IR Distance: 50-60 Meters; Lens Mount: Varifocal 28MM to 12MM Motorized Lens; Network Interface: 10/100 MBPS RJ45 Connector; Intelligent AI Feature: Face Detection; Network Protocol: HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IP-v4/v6, SNMP, QoS, UPnP, NTP; Electronic Shutter Speed: Manual/Auto (1/25 ~ 1/1000000 S); Should support ONVIF; Audio Input: 1Ch; Audio Output: 1Ch; Video Encoding: H.265+, H.265 and H.264; Video Bitrate: 128kbps ~ 8Mbps; Video Streams: Main Stream : 2592 x 1944; 25/30 Fps, Sub Stream : 720 x 576; Operation Temperature: -10°C ~ +55°C; Operation Humidity: 0% ~ 90%; Power Supply: DC12V / 2Ampere; PoE: PoE (IEEE802.3af); Housing Material: Metal Body (IK10); IP Rating: IP67; RJ45 Connector: Weatherproof RJ45 Connector; SD Card Slot should be available; Certifications: CE,FCC, RoHS, BIS & IEC 60950-1/UL etc complete as required. In case of Foreign OEM submission of Certification of Testing is mandatory as per govt notification (Makes: Axis/Avigilon/Panasonic/Securus/ Mobitix/Arecont Vision)	11	Nos		32,798.00	Rupees Thirty two thousand seven hundred ninety eight only			
2	Supply, installation, testing and commissioning of 32 Channel NVR with Specifications as follow: User Interface: Graphic User Interface (GUI); Operating System: Embedded Linux; Operation Mode: Preview, Record, Playback, Backup, Network; Password Security: Multi-level User Management; ONVIF Support should be available; Video Input: 32CH SMP/Up to 4K; HDMI Output: 1 x HDMI; VGA output: 1 Nos; Audio compression: G.711a; Audio In/Out: 1CH RCA In / 1CH RCA Out; Video compression: H.265+/H.265/H.264; Stream Type: Video and Audio/Video Supported; Recording mode: Always/Schedule/Alarm recording/Motion detection recording; Intelligent AI Feature: Face Detection; Playback Mode: Common Playback, Smart Search, Face Search; Video search: Time/Channel/Event; Dual-stream should be supported; Mobile Monitoring; Free Application for Android and iPhone available; HDD Port: 4 SATA; HDD Maximum Capacity: 10TB for each SATA connector; Network protocol: DHCP, DNS, FTP, DDNS, NTP, UPnP, Email, RTSP; Network: 1 RJ45 10M/100M/1000M; NVR to NVR Cascading Remote; Local Viewing, Recording, USB Connector: 2 x USB 2.0 ; 1 x USB 3.0 for Faster Backup; Firmware update: Support USB update/Network update; Alarm In/Out: 16 Inputs / 4 Outputs; Operation Temperature: (-10°C ~ +55°C); Operation Humidity: 10%~90%; Certifications: CE,FCC, RoHS, BIS, IEC 60950-1/UL. Makes: Axis/Avigilon/Panasonic/Securus/Mobitix/Arecont Vision)	1	Nos		93,013.00	Rupees Ninety three thousand thirteen only			
G. Total :-						4,53,791.00			


 Executive Engineer,
 Electrical Division,
 HP PWD, Una.

DRAFT SCHEDULE OF QUANTITY						Job No. 23
					Estimated Cost:- Rs. 4,82,711/-	
					Earnest Money:- Rs. 9,700/-	
					Time Limit:- 45 days.	
Name of work: SITC of CCTV/Video Surveillances system in Projector room at Auditorium, Samoor Kalan, Distt. Una (HP)						
Sr. No.	ITEM DESCRIPTION	Quantity	Unit	Rate In Fig.	In Words.	Amount
1	Supply, Installation, testing and commissioning of 16 port PoE Network switch with specifications as follows: Network Ports: 16 Ports POE 10/100 Mbps Poe RJ45 Port, 2 Ports Uplink 10/100/1000 Mbps, 1 Ports Uplink 10/100/1000 Mbps Gigabit SFP Port, POE Standard: IEEE802.3 afat, Power Wattage: 200 Watts or more, Network Standard: IEEE802.3, IEEE802.3ab, IEEE802.3az, IEEE802.3x, VLAN Mode: Supported, POE Network Transmission Distance: Max 250 Meters should be supported for POE, Uplink Network Transmission Distance: Max 100 Meters, Bandwidth: 7.2 Gbps In case of Foreign OEM submission of Certification of Testing is mandatory as per govt notification. (Makes: Netgear/Cisco/ Juniper/ Securus/Allied Telesys/Extreme)	2	Nos	49,700.00	Rupees Forty nine thousand seven hundred only.	99,400.00
2	Supply, Installation, Testing & Commissioning of Wireless Transmitter/ Receiver Radio with specifications as follow: Range 2 Kms or better, Antenna Beamwidth 9° (Azimuth)/7° (Elevation), Processor Qualcomm 750MHz or better; Memory 128 MB DDR2 RAM, 16 MB Flash, Interface 1 10/100/1000 Mbps Shielded Ethernet Port (LAN/POE), 1 Reset Button, Power Supply Passive Power over Ethernet via LAN; Enclosure Material: Outdoor PC stabilized plastic; Weatherproof: IP65 water and dust proof design; Wireless Standards IEEE 802.11ac, Wireless Speeds Up to 867 Mbps (80 MHz, Dynamic), Frequency 5.15-5.85 GHz, Transmit Power Max. 27 dBm, Certifications CE/FCC/UL (Makes: TP-Link/Cambium/Wavesight)	2	Nos	43,954.00	Rupees Forty three thousand nine hundred fifty four only.	87,908.00
3	Supplying and drawing of CAT-6 4 Pair cable with specifications as follow: Conductor: 23 AWG Solid bare Copper; Insulation: High Density Polyethylene, Solid Pairs: 2 Insulated conductors twisted together, Sheath: CM rated PVC, Cable Diameter: 6.0 +/- 0.2mm; Bending Radius: < 4 X; Cable Diameter; Pulling Force: 11.5kg; Temperature Range: -20° to +70°C; Standards: ANSI/TIA-568 2-D; ISO/IEC 11801, IEC-60332-1, Approvals UL Listed ETL Verified (Makes: Molex/Commscope/Kramer)	250	Mtrs	91.00	Rupees Ninety one only.	22,750.00
4	Supply, Installation, Testing & Commissioning of 9U System Rack with specifications as follow: Height: 9U; Width x Depth: 550mm * 500mm; Provisions: Front toughened glass with lock and key; Ventilation: Fan 90CFM 230V AC fitted on rack top; Wiring: 1U Cable Manger Metal with PVC Loop; Cable Manager: On top and bottom of Rack; Power Distribution: PDU 6 Point 5Amp Socket, Indian round pin with power Cable; Accessories: Mounting hardware packet of 10 piece (Makes: Rittal/Conrack/Dyark)	3	Nos	12,705.00	Rupees Twelve thousand seven hundred five only.	38,115.00
5	Supply, Installation, Testing & Commissioning of 20U System Rack with specifications as follow: Height: 20U; Width x Depth: 550mm * 500mm; Provisions: Front toughened glass with lock and key; Ventilation: Fan 90CFM 230V AC fitted on rack top; Wiring: 1U Cable Manger; Cable Manager: On top and bottom of Rack; Power Distribution: PDU 6 Point 5Amp Socket, Indian round pin with power Cable; Accessories: Mounting hardware packet of 10 piece (Makes: Rittal/Conrack/Dyark)	1	Nos	46,426.00	Rupees Forty six thousand four hundred twenty six only.	46,426.00
6	Supply, Installation Testing & Commissioning of RJ 45 Connectors with 100 connectors per box	1	Box	3,430.00	Rupees three thousand four hundred thirty only.	3,430.00
7	Supply, Installation Testing & Commissioning of 8 TB Surveillance Hard Disk Drive complete as reqd (Makes: WD/Seagate)	2	Nos	42,834.00	Rupees Fourty two thousand eight hundred thirty four only.	85,668.00
8	Supply, Installation Testing & Commissioning of 5 METER HDMI Cable complete as reqd. (Makes: Kramer/Creston/Manhattan)	1	Nos	3,641.00	Rupees three thousand six hundred forty one only.	3,641.00
9	Supply, Installation, Testing & Commissioning of 1KVA UPS with 15 Mins backup (Makes: Microtek/APC/Intex)	3	Nos	11,141.00	Rupees Eleven thousand one hundred forty one only.	33,423.00
10	Supplying & Laying of 25mm PVC Conduit. (Makes: AKG/Kalinga/Diplast)	400	Mtr	145.00	Rupees One hundred forty five only.	58,000.00
11	Supplying & Laying of 2 core 1.5 sqmm Power cable etc complete as required (Makes: Havells/Finolex/Polycab)	50	Mtr	79.00	Rupees Seventy nine only.	3,950.00
					G. Total :-	4,82,711.00

Executive Engineer,
Electrical Division,
HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY										Job No. 24	
									Estimated Cost:- Rs. 4,96,254/-		
									Earnest Money:- Rs. 9,900/-		
									Time Limit:- 45 days.		
Name of work:SITC of CCTV/Video Surveillances system in first floor at Auditorium, Samoor Kalan, Distt. Una (HP)											
Sr. No.	ITEM DESCRIPTION						Quantity	Unit	Rate In Fig.	In words.	Amount
1	Supply, installation, testing and commissioning of 5MP IP Bullet Network Camera with Specifications as follow: Image Sensor: 1/2.7" 5 Megapixel Progressive Scan Sensor; Image Pixels: Max: 2592 x 1944 Pixels (5.0 Mega Pixels); Min. Illumination: 0.01Lux/0Lux with IR; Day/Night: Auto (ICR) / Color / Black & White; WDR ≥120db; IR Led: Yes; IR Distance : 50-60 Meters; Lens Mount: Varifocal 2.8MM to 12MM Motorized Lens; Network Interface: 10/100 MBPS RJ45 Connector; Intelligent AI Feature: Face Detection, Network Protocol: HTTP, TCP, ARP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPV4/V6, SNMP, QoS, UPnP, NTP, Electronic Shutter Speed: Manual/Auto (1/25 ~ 1/100000 S); Should support ONVIF; Audio Input: 1Ch, Audio Output: 1Ch; Video Encoding: H.265+, H.265 and H.264; Video Bitrate: 128kbps ~ 8Mbps; Video Streams: Main Stream : 2592 x 1944; 25/30 Fps, Sub Stream : 720 x 576; Operation Temperature: -10°C ~ +55°C; Operation Humidity 0% ~ 90%; Power Supply: DC12V / 2Amperes, PoE: PoE (IEEE802.3at) Housing Material: Metal Body (IK10); IP Rating: IP67; RJ45 Connector: Weatherproof RJ45 Connector; SD Card Slot should be available; Certifications: CE,FCC, RoHS, BIS & IEC 60950-1/UL etc complete as required. In case of Foreign OEM submission of Certification of Testing is mandatory as per govt notification. (Makes: Axis/Avigilon/Panasonic/Securus/Mobitix/Arecont Vision)						10	Nos	32,798.00	Rupes thirty two thousand seven hundred ninety eight only.	3,27,980.00
2	Supply, installation, testing and commissioning of Video Management software with specifications & Features as follow: The Unified Video Management Software (VMS) shall be IP-enabled security & Safety software solution. The VMS shall support industry standard for the interface of IP-based physical security products, ONVIF and shall be based on a server/ client model. The VMS shall be based on a true open architecture that shall allow for use of non-proprietary workstation and server hardware, non-proprietary network infrastructure and non-proprietary storage. The VMS shall offer a complete and scalable video surveillance solution which allows cameras to be added on a unit-by-unit basis. All software and firmware upgrades shall be free of charge during the warranty period. The VMS Should support Multiple Recording Server, Should be expandable to Unlimited number of cameras, Should have scalable distributed network architecture supporting multiple Recording Servers per Management Server, VMS shall be open to any IP and Analog cameras integration. It should support Windows operating system on Server machine; The VMS shall consist of a role-based architecture, Roles can be moved from one server to another without disturbing the regular operations; It should support Video wall and multiple monitor support for scalable video display of large number of cameras (64 Cameras x 4 Screen). It should support support E-Maps showing real time device alarms with option to view live or recorded video. It should support recording of all video streams supplied from IP cameras / Encoders. The same shall be digitally encoded in MPEG-4, MJPEG-2, MJPEG, H.264 or compression formats and can be recorded simultaneously in real time. Should allow configuration all functionalities of the camera once the same is connected to the software; Discovery on IP network and set IP Address, Frame Rate, Resolution, Motion detection within camera or server based, Bit Rate, Key frame interval, Digital I/O, Audio Inputs/Outputs, Facilitate update of camera or encoder through the VMS. The VMS shall allow independent configuration of each camera and it shall also have a configuration tool to copy a specific or all configuration on other cameras. In case of Foreign OEM submission of Certification of Testing is mandatory as per govt notification. (Makes: Axis/Avigilon/Panasonic/Securus/Mobitix/Arecont Vision)						1	Nos	11,670.00	Rupes Eleven thousand six hundred seventy only.	11,670.00
3	Supply installation testing and commissioning of 50" UHD (3840 x 2160) LED Display with all HDMI input, USB, audio input/output, control, RJ -45 Ethernet, inbuilt speaker etc. and necessary accessories, VGA & HDMI Connectivity complete etc. as reqd. (Makes: Sony/Samsung/Panasonic)						1	Nos	75,054.00	Rupes Seventy five thousand fifty four only.	75,054.00

4	Supply, Installation, testing and commissioning of 16 port PoE Network switch with specifications as follows: Network Ports: 16 Ports POE 10/100 Mbps Poe RJ45 Port, 2 Ports Uplink 10/100/1000 Mbps, 1 Ports Uplink 10/100/1000 Mbps Gigabit SFP Port; POE Standard: IEEE802.3 af/at; Power Wattage : 200 Watts or more; Network Standard: IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az, IEEE802.3z; VLAN Mode: Supported; POE Network Transmission Distance: Max 250 Meters should be supported for POE; Uplink Network Transmission Distance: Max 100 Meters; Bandwidth: 7.2 Gbps. In case of Foreign OEM submission of Certification of Testing is mandatory as per govt notification (Makes: Netgear/Cisco/Juniper/Securus/Allied Telesys/Extreme)	1	Nos	49,700.00	Rupees Forty nine thousand seven hundred only.	49,700.00
5	Supplying and drawing of CAT-6 4 Pair cable with specifications as follow: Conductor: 23 AWG Solid bare Copper; Insulation: High Density Polyethylene; Solid Pairs: 2 Insulated conductors twisted together; Sheath: CM rated PVC; Cable Diameter: 6.0 +/- 0.2mm; Bending Radius: < 4 X; Cable Diameter; Pulling Force: 11.5kg; Temperature Range: -20° to +70°C; Standards: ANSI/TIA-568.2-D, ISO/IEC 11801, IEC-60332-1; Approvals UL Listed ETL Verified. (Makes: Molex/CommScope/Kramer)	350	Mtrs	91.00	Rupees Ninety one only.	31,850.00
G. Total :-						4,96,254.00


Executive Engineer
Electrical Division,
HP.PWD., Una.

DRAFT SCHEDULE OF QUANTITY

Job No. 25

Estimated Cost:- Rs. 3,35,483/-

Earnest Money:- Rs. 6,700/-

Time Limit:- One year.

NAME OF WORK: C/O PHC Building at Chaniari in Tehsil Bangana Distt. Una (HP) (SH:-Providing Balance work E.L. therein).

Sr. No.	DESCRIPTION	QUANTITY	Rate In fig.	Rate in In words.	UNIT	AMOUNT
1	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal or coke and salt complete as required.	2 Sets	18749	Rupees Eighteen thousand seven hundred forty nine only.	Per Set	37498.00
2	Supplying and fixing of G.I. pipe medium class 32 mm dia. as required complete in all respects Makes: Dipplast, BEC, Finolex.	10 Metre	193	Rupees One hundred ninety three only.	P/Mtr	1930
3	Providing, Installation, testing and commissioning of ceiling fan without Fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required: of Approved Make					
3.01	Cat No:- Usha(Ceiling Fan 1200 mm sweep 3 star Technic Plus) Bajaj or Equivalent make	13 Nos.	3038	Rupees Three thousand thirty eight only.	Each	39494
4	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make					
4.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep Cat No:- Usha (Aeroclean-LD (metal Body) Bajaj or Equivalent make	6 Nos.	2177	Rupees Two thousand one hundred seventy seven only.	Each	13062
5	Providing, Installation, testing and commissioning of wall fan of following size by means of suitable rag-bolt/ nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer-in-charge of Approved Make :-Wall Fan 400 mm sweep	1 Nos.	2726	Rupees Two thousand seven hundred twenty six only.	Each	2726
6	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 20 Watt (2000 lumen) 6500K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficiency ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 20 Watt complete with all accessories, connections, testing and commissioning etc. as required. Including five years warranty as required.					
6.01	Cat No :-WIPRO (LL20-281-XXX-65AL1-20W-Tube Light 4 Feet Long) Panasonic/Bajaj or equivalent.	20 Nos.	3094	Rupees three thousand ninety four only.	Each	61880
7	Supplying and fixing surface mounting Round type LED 15 Watt (1500), 5700K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. Including five years warranty as required.					
7.01	Cat No :-WIPRO (LD06-171-XXX-57SMG1)(Round 15 W) Panasonic/Bajaj or Equivalent	8 Nos.	3798	Rupees three thousand seven hundred ninety eight only.	Each	30384
8	Supplying and fixing surface mounting 2'x2' size LED solution suitable for surface application with the use of the latest technology 36 Watt (3600 lumen) 5700K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. Including five years warranty as required.					
8.01	Cat No: Wipro(CRGO08036HP57GL1-36W) Panasonic/Bajaj or equivalent.	3 Nos.	6446	Rupees Six thousand four hundred forty six only.	Each	19338
9	Supplying and fixing Surface mounting 1'x4' size LED solution suitable for surface application with the use of the latest technology 36 Watt (3600 lumen) 5700K and it should be compatible with specifications i.e. power factor ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 100 lumens per watt, CRI > 80 , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. as required. Including five years warranty as required.					
9.01	Cat No: Wipro(CRGO13S036HP57GL1-36W) Bajaj/ Panasonic or equivalent.	5 Nos.	7857	Rupees Seven thousand eight hundred fifty seven only.	Each	39285

[illegible]

DRAFT SCHEDULE OF QUANTITY							Job No. 26	
							Estimate Cost:- Rs. 4,06,602/-	
							Earnest Money:- Rs. 8,200/-	
							Time Limit:- One year.	
NAME OF WORK:- C/O 2 Numbers, Type-II Qtrs. with parking for Distt. Welfare office employees at Una., Distt. Una (H.P) (SH:- Prov. E.I. therein)								
Sr. No.	Description of Items	Quantity	Rate In Fig.	In words.	Unit	Amount		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit and earthing the light point with 1.5 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable as required (Plaza, KEI, Anchor, L&T make)							
1.01	Group A.	56	1395	Rupees One thousand three hundred ninety five only.	Point	78120		
2	Wiring for Twin Control 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 a/w 2 way P/T switch and earthing the light point with 1.5 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable as required (Plaza, KEI, Anchor, L&T make)							
2.01	Group A.	4	1555	Rupees One thousand five hundred fifty five only.	Point	6220		
3	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. 1.5 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required (Plaza, KEI, Anchor, L&T make)	28	292	Rupees Two hundred ninety two only.	Meter	8176		
4	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. 4 Sq. mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required (Plaza, KEI, Anchor, L&T make)	44	362	Rupees three hundred sixty two only.	Meter	15928		
5	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 (Plaza, KEI, Anchor, L&T make)	32	442	Rupees Four hundred forty two only.	Meter	14144		
6	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 (Plaza, KEI, Anchor, L&T make)							
6.01	2x1.5 Sq. mm.	82	292	Rupees Two hundred ninety two only.	Meter	23944		
6.02	2x10Sq mm.	40	567	Rupees Five hundred sixty seven only.	Meter	22680		
7	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 (Plaza, KEI, Anchor, L&T make)							
7.01	3x1.5Sq mm.	40	137	Rupees One hundred thirty seven only.	Meter	5480		
8	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.	14	283	Rupees Two hundred eighty three only.	Each	3962		

	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.	12	486	Rupees Four hundred eighty six only.	Each	5832
	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:- (SSK, Anchor make)	2	417	Rupees Four hundred seventeen only.	Each	834
11	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	10	97	Rupees Ninety seven only.	Each	970
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:-					
12.01	Single pole 6 Amp Cat-A	8	230	Rupees Two hundred thirty only.	V	1840
12.02	Single pole 16 Amp Cat-A	12	230	Rupees Two hundred thirty only.	each	2760
13	Supplying and fixing of following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required:- (Make :- L&T/Legrand/Schneider)					
13.01	63 Amps Double pole. Cat-A.	2	597	Rupees Five hundred ninety seven only.	Each	1194
14	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.					
14.01	63 Amps. Cat-A.	2	3456	Rupees three thousand four hundred fifty six only.	Each	6912
15	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:-					
15.01	Double door-16 way	2	2598	Rupees Two thousand five hundred ninety eight only.	Each	5196
16	Earthing with G.I. earth pipe 4.5 mtr. long and 40mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1	3531	Rupees three thousand five hundred thirty one only.	Set	3531
17	Extra for using salt and charcoal for G.I. pipe earth electrode complete as required.					
18	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	1	1613	Rupees One thousand six hundred thirteen only.	Set	1613
19	Providing and installation of stationary storage type Electric water heater (Geyser) vertical 35 ltrs capacity 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:- (Jaquar /Recold make)	48	40	Rupees Forty only.	Mtr.	1920
19.01	35 Liter capacity water heater (Cat-A)	2	13254	Rupees thirteen thousand two hundred fifty four only.	Each	26508
20	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0 20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-					
20.02	Ceiling fan 1200 mm sweep (Bajaj Ultima/Havells Velocity/Usha Technix Plus and Crompton H.S Plus 5 star) Category-A	6	2964	Rupees Two thousand nine hundred sixty four only.	Each	17784
21	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:-					
21.01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	4	2505	Rupees Two thousand five hundred five only.	Each	10020

Supplying and fixing Fancy wall bracket, single holder size 170x255 GLS 60w.mm.excluding of lamp, complete making connections etc.as required.(Decon make, Cat.No..050Q or its equivalent make)						
S/F of exhaust fan louver shutter for 300 mm exhaust fan on the existing wall,painting etc.as required.						
24	Supplying and fixing Fan box of M.S.sheet with iron rod hook 12 mm.in place of junction box complete as required.	6	1914	Rupees One thousand nine hundred fourteen only.	Each	11484
25	Supply& Fixing of led fixture 18 W LED Surface Mounted Downlighter Round Shape. The Input voltage range shall be 150V to 270V .Fixture have Surge Protection 2kV .Driver Output voltage shall be less than SELV Limits for safe operation and maintenance.Wipro Cat. No LD80-171-XXX-60-SM or Equivalent in Philips: SM251C LED20S- 6500 PSU WH or Trilux :Ambiella IND D LED1000-860 ET 01 ET or LT :	4	592	Rupees five hundred ninety two only.	Each	2368
26	Providing and fixing LED Street light 60 watts die cast aluminium housing,AC 85-270 volts ,available color temperature 5700 K,CRI 80,IP rating 66, up to 10KVA electric surge protection complete with all Bracket, accessories,connections,testing and commissioning etc.as required. (Wipro Skyline Code No.LR 02 -671-XXX-57-G2/Clair/Philips make)	6	45	Rupees forty five only.	Each	270
		6	2838	Rupees Two thousand eight hundred thirty eight only.	Each	17028
27	Supplying and fixing LED Lamp 9 watts 6500 K E-27 ,900 Lumens 240 volts AC,supply 50 HZ in the existing batten holder,pendent holder,wall bracket & bulk head fitting etc, as required.(Tisva cat. No.AL946611X/Panasonic/Philips make)	6	10583	Rupees Ten thousand five hundred eighty three only.	Each	63498
28	Supplying and fixing of sub main wiring with 10 sq mm. weather proof twin core aluminium conductor cable on the G.I.bearer wire etc.as required.	80	62	Rupees Sixty two only.	P/mtr.	4960
29	Supplying and fixing LED Lamp 9 watts 6500 K E-27 ,900 Lumens 240 volts AC,supply 50 HZ in the existing batten holder,pendent holder,wall bracket & bulk head fitting etc, as required.(Tisva cat. No.AL946611X/Panasonic/Philips make)	18	256	Rupees Two hundred fifty six only.	Each	4608
30	Supply and fixing of 2ft Led Batten 10 W surface mounted with polycarbonate diffuser and with extruded aluminium housing/polycarbonate housing.The Input voltage range shall be 150V to 270V . Driver Output voltage shall be less than SELV Limits for safe operation and maintenance.Wipro Cat. No.LL20-111-XX-65NE3 or Equivalent in Philips : BN 021 LED10S- 6500 PSU GR S1 or Trilux:TRL-X F OTA 2000-857 ET or LT	2	720	Rupees Seven hundred twenty only.	Each	1440
31	Supplying and fixing of Bulk head fitting LED 10 watts and it should be compatible with specifications i.e.Power factor >0.9,Harmonic distortion <10%& efficacy >100 Lumen per watts,CRI >80 ,6500 K suitable for input voltage 220-240 Volts,50 HZ., Length 232x Width 105x Height 50 mm size complete with connections etc.as required (Panasonic Ellipto Code No.PBHM01107/Philips/ Jaquor/Tisva make)	6	1383	Rupees One thousand three hundred eighty three only.	Each	8298
32	Supply and fixing of IP40 Led fixture 40 W with Surface Mounted 4 Feet with Polycarbonate diffuser with aluminium housing .The Input voltage range shall be 150V to 270V . Driver Output voltage shall be less than SELV Limits for safe operation and maintenance.Wipro Cat. No LL24-541-XXX-57-XX or Equivalent in Philips : BN308C LED40S-6500 L120 PSU WH or Trilux:TRL-X F OTA 4000-857 ET	8	3004	Rupees three thousand four only.	Each	24032
33	Supplying and fixing following rating P/T switch /socket in the existing switch box / cover plate including connections etc. as required. (SSK,L&T,Anchor make)	24	52	Rupees Fifty two only.	Each	1248
	Supplying and fixing following rating P/T switch /socket in the existing switch box / cover plate including connections etc. as required. (SSK,L&T,Anchor make)	24	75	Rupees Seventy two only.	Each	1800
	G. Total:-					406602


Executive Engineer,
Electrical Division
HPPWD., Una.

DRAFT SCHEDULE OF QUANTITY						
					Job No. 27	
					Estimated cost:- Rs.2,83,838/-	
					Earnest money:- Rs. 5,700/-	
					Time Limit:- One Month.	
N.O.W:-C/O SITC of 5 KVA UPS for Hon'able Chief Minister office Nadaun Tehsil Nadaun Distt Hamirpur HP						
Sr. No.	Description of Items	Qty.	Unit	Rate Fig.	In words.	Amount
1	Supplying Installation, testing and commissioning of 5 kVA/4.4 KW True on line UPS suitable 1phase AC input and 1 phase AC output with INBUILT ISOLATION TRANSFORMER 60 min back up ON 100% LOAD 12V x 18 no. of 42 AH/45 AH) SMF batteries Bank with rack(min VAH required= 8000 VAH) . The UPS should be with IGBT Based Rectifier and IGBT based inverter and with LED/ILCD display for monitoring of its status along with inbuilt Galvanic isolation transformer of same OEM POWER FACTOR : INPUT P F should be 99 AND out put PF NOT LESS than 8 .Efficiency up to 94% (with out isolation Tx) Communication interface :RS 232//USB warning/overload / FAULT & Byepass mode, certification & standard: ISO 9001-14001 Certified, PEP & ROHS Compliance, CE & BIS Certification, compatibility with DG set, Built in automatic Bypass switch, Warranty: 5 Years on UPS and 3 year on Batteries. Make: Microtech(5.5 KVA /192 IMAXX), APC/ Emerson- Vertiv /Legrand - NUMERIC,	1	Each	255906	Rupees Two Lac. Fifty five thousand nine hundred six only.	255906
2	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator) Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in-charge.					
2.01	MCB DB 12 WAY	2	Each	1765	Rupees One thousand seven hundred sixty five only.	3530
3	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required.-Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in-charge.	2	Each	1201	Rupees One thousand two hundred one only.	2402
4	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed Heavy class PVC Conduit having wall thickness minimum 2.0 mm as required. Make:- Plaza, KEL, Finolex or its equivalent as approved by Er-In-Charge					
4.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	50	Meter	440	Rupees Four hundred forty only.	22000
					G. Total	283838


 Executive Engineer,
 Electrical Division,
 H.P.P.W.D. Una.

DRAFT SCHEDULE OF QUANTITY										Job No. 28
								Estimated Cost:- Rs. 4,41,763/-		
								Earnest Money:- Rs. 9,000/-		
								Time Limit:- One Month		
Name of Work:- C/O Judicial Court complex at Amb Amb Distt una.(HP).(SH:-PITC Balance work Fire Fighting system therein).										
Sr. No.	Description	Unit	Quantity	Rate In Fig.	In words.	Amount				
	FIRE HYDRANT PIPING & ACCESSORIES									
1.00	Providing and fixing Cast Cast Iron/steel double flanged horizontal type with gunmetal seat non return valve conforming to class - I, IS: 5312 swing type with Nitrile Rubber Flab Glanded end to IS 1538 including nuts , bolts, 1.5mm thick compressed asbetos gasket as per table "E" and specificationms complete in all respect.									
1.01	200 mm dia.	NO	1	46465.00	Rupees Forty six thousand four hundred sixty five only.	46465.00				
2.00	Make:- Zoloto /Sant/Kartar Providing & fixing of IS marked (IS:15683) portable fire extinguisher, carbon dioxide 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 (ISI MARK)									
2.01	4.5 Kg.	No	12	13331.00	Rupees thirteen thousand three hundred thirty one only.	159972.00				
3.00	Make:- Mainimax/CeaseFire/Safe fire Providing and fixing Water Co2 9. Litre. Type fire extinguishers consisting of seamless cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, conforming to IS: 15683 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge (ISI MARK)									
	Make:- Mainimax/CeaseFire/Safe fire Providing and Laying of One No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface as required.									
4.01	Armoured cable 95 Sq.mm.(3.5core).	Mtrs.	10	1234.00	Rupees One thousand two hundred thirty four only.	12340.00				
5.00	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.									
5.01	4 pole MCCB, 200-250A, 36 KA (L&T) DU 250	No	1	13563.00	Rupees thirteen thousand five hundred sixty three only.	13563.00				
6.00	Providing and fixing MCCB enclosures for DU250C/DU250 MCCB following rating on the existing board complete as required (L&T/ABB/Legrand make).	No	1	4146.00	Rupees Four thousand one hundred forty six only.	4146.00				

7.00	Supplying and erection of wall mounted metal boards for switch gear mounting of suitable size, with permissible variation in size of plus minus 5mm, welded frame work made of M.S. angle iron (35mmx35mmx6mm thick) with sufficient numbers of horizontal and vertical intermediate members (25mmx6mm thick) flat iron including painting and bonding to the existing earth as required.	Sq. Mtrs.	0.3	1609.00	Rupees One thousand six hundred nine only.	482.70
8.00	Providing & Laying of One number copper conductor, PVC insulated/PVC sheathed round flexible cable 1.1KV grade of following size on wall/surface as required. KEI/Plaza					
8.01	1.5Sq.mm 2 core.	Mtrs.	30	92.00	Rupees Ninety two only.	2760.00
8.02	2.5Sq.mm 2 core	Mtrs.	20	128.00	Rupees One hundred twenty eight only.	2560.00
8.03	4.0Sq.mm. 2 core.	Mtrs.	20	177.00	Rupees One hundred seventy seven only.	3540.00
9.00	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface/recess including painting in case of surface conduit, or current the wall and making good the same in case of recessed conduit as required:- As per BEC plast price list 02/2023/D-Plast ISI Mark.					
9.01	25mm dia.					
10.00	Providing pipe protection for underground M.S. Pipe from corrosion covered with anti Corrosive tape.	Mtrs.	30	104.00	Rupees One hundred four only.	3120.00
11.00	Execution and Laying of M.S. Pipe 6" dia at 1 Mtr. Below ground and removing and fixing of paver blocks including concrete work etc. as required complete in all respect.	Mtrs.	70	667.00	Rupees Six hundred sixty seven only.	46690.00
		Mtrs.	70	990.00	Rupees Nine hundred ninety only.	69300.00
G. Total:-						441762.70


 Executive Engineer,
 Electrical Division,
 HP.PWD., Una.