



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/2022-23/- 5322-51

Dated:- 30/9/22

To,

The Director,
Information & Public Relation Deptt.,
H. P. Shimla-171002.


Subject: - Regarding publication of tenders notice.

Sir,

“JAI HIND”


Enclosed please find herewith tenders notice for publication in **Giriraj/Tribune/ Punjab Kesari/Hindustan Times Newspaper** as well as in the other reputed/ leading newspapers on or before **05.10.2022**, at the earliest under intimation to this office 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 Engineer-in-Chief, HPPWD., Shimla-2.
2. The Superintending Engineer, 2nd Electrical Circle, HPPWD, Dharamshala.
3. The Assistant Engineer, Electrical Sub Division, HP PWD Hamirpur/Una & Bilaspur.
4. All the contractors working under the control of this Division.
5. Drawing Branch in this office.
6. Notice Board.


Executive Engineer,
Electrical Division,
HPPWD, Una



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NOTICE INVITING TENDER

Sealed item rate tenders on PWD form No. 6 & 8 are invited/re-invited by the Executive Engineer, Electrical Division, HPPWD Una on behalf of the Governor of H.P. for the following works from approved and eligible Contractors enlisted with HPPWD (Electrical) in appropriate class/authorized dealers so as to reach in the office of undersigned on **15.10.2022** up to **10.30 A.M** and will be opened on the same day at **11.00 A.M.** in the presence of the intending contractors or their authorized representatives. The tender forms can be had from the office of the Executive Engineer, Electrical Division, HPPWD, Una against cash payment (Non Refundable) on dated **13.10.2022** during office hours i.e. **1:00 P.M. to 5:00 P.M.** The applications for obtaining the tender forms will be received on dated **13.10.2022** up to **1:00 PM**. The earnest money in the shape of fresh FDR/NSC, duly pledged in favour of the undersigned must be submitted with the application for issue of tender form. **The earnest money should be submitted separately for each work.**

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:-

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	C/O Indoor Auditorium at Bilaspur Distt Bilaspur(SH:- Balance Work of Providing Un-armoured cable for AHU units & Outdoor units therein).	4,99,290/-	10,000/-	Six Months.	350/-	Class-C ✓
2	C/O Indoor Auditorium at Bilaspur in Distt Bilaspur(SH:- Providing Un-armoured cable for outdoor units of VRV system therein).	4,04,640/- 494640/-	8,100/-	Six Months.	350/-	Class-C ✓
3	C/O Indoor Auditorium at Bilaspur in Distt Bilaspur(SH:- Providing Un-armoured cable for AHU units of VRV system therein).	4,93,675/-	9,900/-	Six Months.	350/-	Class-C ✓
4	C/O Administrative Block for Govt. Polytechnic Kalol, Tehsil Jhandutta, Distt. Bilaspur (H.P.) (SH:- Supplying and laying conduit pipe there in.)	99,660/-	2,000/-	Six Months.	350/-	Class-D ✓

5	C/O Two room with Verandah in Govt. Sr. Sec .School at Ghran, Tehsil Jhandutta, Distt. Bilaspur (HP) (SH:- C/O Two room with verandah)	99,516/-	2,000/-	One Year.	350/-	Class-D
6	Replacement of damaged accessories and E.I. in various Residential Govt. buildings i.e. Additional Distt, & Session residence, Distt. Attorney residence , PWD Qtr. G. 53,55,56,57, 58 and CJM Residence and various residential buildings under ESD Bilaspur (HP)	89,219/-	1,800/-	Six Months	350/-	Class-D
7	Replacement of damaged accessories and E.I. in various N.R. Govt. buildings Rest house Dholra, Panjgain, Circuit House and various Non- Residential buildings under ESD Bilaspur. H.P	1,15,703/-	2,300/-	Six Months.	350/-	Class-D
8	Replacement of damaged accessories and E.I. in various NR Govt. buildings i.e. Rest House Hamirpur, Circuit house Hamirpur, Court complex Hamirpur, Chief office ,Circle office ,(B&R) Division office under ESD Hamirpur, Distt Hamirpur, (HP).	1,81,495/-	3,700/-	Six Months.	350/-	Class-D
9	SITC one no 2 KVA inverter in ADJ earmarked residence at Matani, Tehsil & Distt Hamirpur H.P.	58,993/-	1,200/-	Six Months.	350/-	Specialized Job
10	Replacement of burnt Air Conditioner, fan motor, PCB, capacitor in Circuit House, Judicial Court Complex Hamirpur, Tehsil & Distt Hamirpur (HP).	51,600/-	1,100/-	Six Months.	350/-	Specialized Job
11	Providing Servicing of Diesel Generator sets CUMMINS (SUDHIR) make 125 KVA at Chief office Hamirpur, Distt Hamirpur, (H.P)	26,509/-	600/-	One Month.	350/-	Specialized Job
12	C/O sub-Centre building at Chattara Tehsil & Distt. Una Distt. Una (H.P).(SH:- Providing E.I. therein).	1,90,885/-	3,800/-	One year	350/-	Class-D
13	Providing and fixing of 1 No. Split Type A.C. (H&C) in VIP Suit Bed Room) at HP.PWD Rest House Langjiana, Distt. Hamirpur, (H.P).	78,059/-	1,600/-	Six Months.	350/-	Specialized Job
14	Providing E.I. for new establish MRU Lab in Administrative block at Dr. RKGMC Hamirpur.	3,67,903/-	7,400/-	Six Months.	350/-	Class-C

15	Service of diesel Generator Set CUMMINS (SUDHIR) 25 KVA, 50 KVA, 100 KVA at Dr. RKGMC Hamirpur.	55,658/-	1,100/-	Six Months.	350/-	Specialized Job
16	Providing E.I. for phototherapy unit 402 and patient wards new reception counter in Radiologist department at Dr. RKGMC Hamirpur Distt. Hamirpur (H.P)	2,97,768/-	6,000/-/-	Six Months..	350/-	Class-D
17	Providing power supply of motors in 140 LPM oxygen plant instruments in main Lab, Principal offices and 24 V Self repair of 125 KVA D.G. Set Hamirpur.	1,57,016/-	3,200/-	Six Months.	350/-	Specialized Job
18	SITC One No. 1.5 ton Inverter split type Air conditioner and replacement of damaged indoor unit of A.C in Rest House Samirpur.	1,03,663/-	2,100/-	Six Months.	350/-	Specialized Job
19	Replacement of damaged accessories and E.I. in various residential Govt. buildings i.e. Additional & Session Judge residence, PWD colony type II set no 7,9,14 Type III set no 4,9, ACJM residence , under ESD Hamirpur (H.P).	67,791/-	1400/-	Six Months.	350/-	Class-D
20	Providing E.I. in Health Sub Centre building at Dhani ,Tehsil Jhandutta Distt. Bilaspur (H.P.)	96,766/-	1,900/-	Six Months.	350/-	Class-D
21	Construction of Additional Accommodation in PWD Rest House Building at Namhol, in Distt. Bilaspur (H.P) (SH: - Providing Air Conditioners therein)	4,54,173/-	9,100/-	Six Months.	350/-	Specialized Job
22	Providing/Replacement of wiring accessories in Ayurvedic Health Centre building at Dohak Tehsil Jhandutta, Tehsil Jhandutta, Distt. Bilaspur, (H.P).	67,943/-	1,400/-	Six Months.	350/-	Class-D
23	Annual Comprehensive Maintenance contract (AMC) of 1Nos. Passenger lift (Johnson make) in the ADR centre Hamirpur Distt Hamirpur HP.(For the period 10.09.2022 to 09.09.2023).the period 10.09.2022 to 09.09.2023).	99,710/-	2,000/-	Six Months.	350/-	Specialized Job
24	Construction of Mini Secretariat. Building at Ghumarwin, Distt. Bilaspur (H.P) (SH:- Supplying and Laying conduit pipe therein).	3,52,300/-	8,000/-	Six Months.	350/-	Class-C
25	C/O Helipad at Kohla, Tehsil	2,53,858/-	5,100/-	One year.	350/-	Class-D

	Nadaun, Distt Hamirpur, (H.P) (SH:- Providing E.I therein).					
26	C/o Science Lab in Govt. Sr. Sec. School building at Bassi in Distt. Bilaspur (H.P) (SH:- Providing E.I therein).	4,91,939/-	9,900/-	One year.	350/-	Class-C
27	C/o Science Lab in Govt. Sr. Sec. School building at Swarghat in Distt. Bilaspur (H.P) (SH:- Providing E.I therein).	4,91,939/-	9,900/-	One year.	350/-	Class-C
28	C/o Science Lab in Govt. Sr. Sec. School building at Namhole in Distt. Bilaspur (H.P) (SH:- Providing E.I therein).	4,91,939/-	9,900/-	One year.	350/-	Class-C
29	Restoration of rain damages building of Junior Engineer section at Jamali in Distt. Bilaspur (H.P)(SH:- Providing E.I therein).	69,908/-	1,400/-	One year.	350/-	Class-C

GENERAL TERMS AND CONDITIONS:-

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. The eligible Contractors/Firm should performance certificate for specialized jobs as required.
7. The tendered amount should be within the limit of (+) 5% to (-) 10% 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

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**


*** CORRIGENDUM***

The tender for **Job No. 01 to 29** called vide this office Letter No. PW/EDU/CB/TA/e-tender/2022-2023/- 5322-51 dated 30.09.2022, and also send to published in Giri Raj on or before **05.10.2022**. The applications for these tender to be received in this office on **13.10.2022 up to 1:00 P.M.** and to be sold on 13.10.2022 from 1:00 P.M. to 5:00 P.M. and the financial bid of which to be opened on **15.10.2022 at 11.00 A.M.** Out of which **Job No. 19** for the work of :- Replacement of damaged accessories and E.I. in various residential Govt. buildings i.e. Additional & Session Judge residence, PWD colony type II set no 7,9,14 Type III set no 4,9, ACJM residence , under ESD Hamirpur (H.P), is hereby cancelled due to Administrative reason and Job No. 02 there are some correction in the DNIT amount as per the detail given below:-

Sr. No.	Job No.	Name of Work	Estimated. Cost (In Rs.)	Time Limit	Cost of form (In Rs.)	Eligibility Class of Contractor
1	Job No. 02	C/O Indoor Auditorium at Bilaspur in Distt Bilaspur(SH:- Providing Un-armoured cable for outdoor units of VRV system therein).	May be read as Rs. 4,94,640/- instead of Rs. 4,04,640/-	Six Months	350/-	Class-D

Rest of other terms and conditions shall remain unchanged.

HIM SUCHANA AVAM JAN SAMPARK


**Executive Engineer,
Electrical Division,
HPPWD Una.**


No-PW/EDU/CB/TA/Tender/2022-2023-

3700-20

Dated:- 06/10/2022

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

1. The Superintending Engineer 2nd Electrical Circle HPPWD Dharamshala.
2. All the Assistant Engineers working under this Division.
3. All the Head of branches of this office.
4. Notice Board.


**Executive Engineer,
Electrical Division,
HPPWD Una.**

SCHEDULE OF QUANTITY

Job No. 1

Estimated cost:- Rs. 4,99,290/-
 Earnest money :- Rs. 10,000/-
 Time Limit:- Six Months.

Name of Work:- C/o Indoor Auditorium at Bilaspur Distt Bilaspur (S.H):- Balance Work of Providing Un-armoured cable for ALL units & (Outdoor units therein).

Sr. No.	Description	Quantity		RATE In Fig.	Rate In Words.	AMOUNT
		Quantity	Unit			
1	Providing, laying and fixing of PVC Un-Armoured power/control copper conductor, XL PE insulated, PVC inner-sheathed 4 core 16 sqmm cable for voltage grade up to 1100 volt., on surface/ recess Existing Cable Tray as required complete in all respect. Make :- Plaza/Finolex/Havell/Polycab/KEI or it equivalent.	90.00	P/Mtr			
2	Providing, laying and fixing of Un-Armoured power/control copper conductor, XL PE insulated, PVC inner-sheathed 3 core 16 sqmm cable for voltage grade up to 1100 volt on surface/recess /Existing Cable Tray as required complete in all respect. Make :- Plaza/Finolex/Havell/Polycab/KEI or it equivalent.	139.00	P/Mtr			
3	Providing, laying and fixing of Un-Armoured power/control copper conductor, XL PE insulated, PVC inner-sheathed 4 core 6 sqmm cable for voltage grade up to 1100 volt., on surface/ recess /Existing Cable Tray as required complete in all respect. Make :- Plaza/Finolex/Havell/Polycab/KEI or it equivalent.	89.87	P/Mtr			
4	Providing, laying and fixing of Un-Armoured power/control copper conductor, XL PE insulated, PVC inner-sheathed 3 core 4 sqmm cable for voltage grade up to 1100 volt., on surface/recess /Existing Cable Tray as required complete in all respect. Make :- Plaza/Finolex/Havell/Polycab/KEI or it equivalent.	40.00	P/Mtr			
G.Total:-						


 Executive Engineer,
 Electrical Division,
 HPPV.D., Una.

SCHEDULE OF QUANTITY

Job No. 2

Estimated Cost:- Rs. 4,94,640/-
Earnest Money:- Rs. 8,100/-
Time Limit:- Six Months.

Name of Work:- C/o Indoor Auditorium at Bilaspur in Distt Bilaspur, (Sht:- Providing 1 n-armoured cable for outdoor units of VRF system therein).

Sr. No.	Description	Qty.	Unit	Rate in Fig.	Rate in Words.	Amount
1	Providing, laying and fixing of PVC Lin-Armoured power/control copper conductor, XLPE insulated, PVC inner sheathed 4 core 16 sqmm cable for voltage grade up to 1100 volt. on surface/recess/Existing Cable Tray as required complete in all respect. Make :- Plaza/Inoles/Havell/ Polycab/KIEI or it equivalent.	270.00	P/Mtr			
G.Total:-						


Engineer,
Electrical Division,
HPPWD, Una.


SCHEDULE OF QUANTITY

Job No. 3

Estimated Cost:- Rs. 4,93,675/-
Earnest Money:-Rs. 9,900/-
Time Limit:- Six Months.

Name of Work:- C/O Indoor Auditorium at Bilaspur in Distt Bilaspur (SH:- Providing Un-armoured cable for AHU units of VRV system therein).

Sl. No.	Description	Qty.	Unit	Rate in Fig.	Rate in Word	Amount
1	Providing, laying and fixing of Un-Armoured power/control copper conductor, XLPE insulated, PVC inner-sheathed 3 core 16 sqmm cable for voltage grade up to 1100 volt on surface/recess /Existing Cable Tray as required complete in all respect. Make :- Plaza/Finolex/Havell/Polycab/KEL or it equivalent.	325.00	P/Mtr.			
G.Total:-						


Executive Engineer,
Electrical Division,
HPPWD, Una.

SCHEDULE OF QUANTITY

Job No. 4

Estimated Cost:- Rs. 99,660/-
Earnest Money:- Rs. 2,000/-
Time Limit:- Six Months.

Name of work :- (C/O Administrative Block for Govt. Polytechnic Kalol Tehsil, Jhandutta, Dist. Bilaspur (H.P.)) (SH:- Supplying and laying conduit pipe therein.)

Sr. No.	Description	Quantity	Unit	Rate in fig.	Rate in words.	Amount
1	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
1.01	25 mm. dia	345.00	P/mtr.			
2	Supplying and fixing of following sizes of PVC conduit 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.					
2.01	25 mm. dia	85.00	P/mtr.			
G.Total :-						


Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 5

Estimated Cost:- Rs. 99,516/-
 Earnest Money:- Rs. 2,000/-
 Time Limit:- One Year.

NAME OF WORK:- C/O Two room with Verandah in Govt. Sr.Sec. School at Ghan (Joshi) Jhantuta, Dist:Bilaspur (HP) (SH: C/O Two room with verandah) :-

Sr. No.	Description	Quantity	Unit	Rate in fig.	Rate 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 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 C	33.00	Point			
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required	1.00	Point			
3	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 medium class PVC conduit as required.					
3.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	30.00	P/mt			
3.02	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	5.00	P/mt			

4	Supplying and drawing following sizes of 1 x 1.5 PVC Insulated copper conductor single core cable in the existing surface/ recessed steel/ PVC conduit as required.								
4.01	3 x 1.5 sq. mm	25.00	P/mtr.						
5	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required:-								
5.01	(a) 25 mm. dia	6.00	P/mtr.						
6	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.								
6.01	5/6 amps switch	2.00	Each						
6.02	3 pin 5/6 A socket outlet	2.00	Each						
7	Supplying and fixing brass barrel/ angle holder including connection etc. as required.	29.00	Each						
8	Supplying and fixing 5 A to 32 A rating, 240/415 V, 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.								
8.01	Single pole 6 Amp Cat-A.	6.00	Each						
9	Supplying and erection of 40/50/63 amps rating, 10 kA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-								
9.01	40 Amps, Cat-A.	1.00	Each						
10	Supplying and fixing 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.								

11	40 Amp.	1.00	Each			
12	MC B distribution board, 240 volts, on surface/ recess, complete with timed copper bus bar, neutral bus bar, earth bar, tin bar, interconnections, powder painted including earthing etc. as required. (But without MC B/R/C B/Isolator)					
12.01	12 way, Double door	1.00	Each			
13	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.	1.00	Each			
14	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing as required.	25.00	pintr			
15	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
15.01	25 mm	5.00	Pintr			
16	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-					
16.01	Ceiling Fan 1200 mm sweep	9.00	Each			
17	Supplying and fixing LED, Lamp 9 watts E-27 base in the existing batten holder/pendant holder. Make:- Philips, Wipro.	29.00	Each			
18	Providing and fixing of surface mounted luminaire LED 22 Watt batten, having high Quality design aluminium extruded decorative end caps with five year warranty and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10%, 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. as required. Make :- Panasonic (PBTNM17228), Jaquar, Philips, wipro or its equivalent as approved by Engineer-in-charge.	2.00	Each			

19. Supplying and fixing of LED 48 Watt Street Light (Five Year Warranty) Luminare comprises of the cast aluminium housing with IP 67/IK8 pipe mounting with specification as: Power Factor > 0.9, and efficacy > 100 lumens per watt, < Rf > 80 suitable for input voltage AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. as required. Make - Panasonic/code PS (M27458), Jaquar /Philips/ wipro or its equivalent as approved by Engineer-in-Charge.

	2.300	1 each							
G. Total:-									

Executive Engineer,
Electrical Division,
HPPWD, Una.

SCHEDULE OF QUANTITY

Job No. 6

Estimated Cost:- Rs. 89,219/-
Earnest Money:- Rs. 1,800/-
Time Limit:- Six Months.

Name of work:- Replacement of damaged accessories and E.L. in various residential Govt. buildings i.e. Additional & Session Judge residence, Distt. Attorney residence, PWD Qtr. No. G/53, S5,56,57,58 and C/311 residence and various residential buildings under ESD Bilaspur H.P.

Sr. No.	Description of Items	Qty.	Unit	Rate in Fig.	Rate in Words.	Amount
1	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					
1.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	25.00	Meter			
1.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	15.00	Meter			
2	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
2.01	5/6 amps switch	20.00	Each			
2.02	3 pin 5/6 amp socket outlet	10.00	Each			
3	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 AL&T(Entice),Legrand(Myrtus) or its equivalent as approved by Engineer-in	5.00	Each			

4	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRI/Sort 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.	3.00	Each				
5	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(Mytrius) or its equivalent as approved by Engineer-in-charge.	1.00	Each				
6	Providing, Installation, testing and commissioning of ceiling fan, 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 fan box, phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha/TECHNIX P.L.I/S)Bajaj,Crompton or its equivalent as approved by Engineer-in-charge.						
6.01	Ceiling Fan 1200 mm sweep	6.00	Each				
7	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. Make :-Anchor (Roma classic)L&T(Entice), Legrand(Mytrius) or its equivalent as approved by Engineer-in-charge.	8.00	Each				
8	Providing and Installation of Wall mounting fan of 400 mm sizes i/e hang the same in position on the wall, connections, testing and commissioning etc. as required with minimum 3 star rating. Make:- Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in-charge.	2.00	Each				

9	Providing and fixing of surface mounted Luminaire following Watt batten, having high Quality design aluminium extruded decorative end caps with (five year warranty) and it should be compatible with specification i.e. Power Factor > 0.9, Harmonic Distortion < 10% 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. as required. Make:- Jaquar / Philips, Panasonic or its equivalent as approved by Engineer-in-Charge; Make Philips, Panasonic Jaquar or its equivalent as approved by Engineer-in-Charge (Five year warranty)							
9.01	24 watt	5.00	Each					
10	Supply and fixing D fan hook with screw and fastener complete in all respect as required	1.00	Each					
11	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 : Isha, Bajaj, Crompton or its equivalent as approved by Engineer-in-charge.	2.00	Each					
12	Supplying and fixing exhaust fan louver shutter for 300 mm. exhaust fan on the existing wall, painting etc, as required,	2.00	Each					
13	Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required. Make :- Anchor (Roma classic), L&T (Enice), Legrand (Myrius) or its equivalent as approved by Engineer-in-Charge	2.00	Each					
14	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, Hager, ABB or its equivalent as approved by Engineer-in-charge.							

14.01	40 AMP	2.00	Each				
14.02	63 AMP	2.00	Each				
15	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.						
15.01	Single pole	10.00	Each				
16	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.	4.00	Each				
17	Providing and installation of stationary storage type Electric water heater (Geyser) of 25 liters 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: Lisha, Bajaj, Recold or its equivalent as per best satisfaction of Engineer-in-charge.	2.00	Each				
G. Total:-							


 Executive Engineer,
 Electrical Division,
 HPPW D. Una.

SCHEDULE I OF QUANTITY

Job No. 7

Estimated Cost:-Rs. 1,15,703/-
Earnest Money:- Rs. 2,400/-
Time Limit:- Six Months.

Name of work:- Replacement of damaged accessories and E.L. in various N.R Govt. buildings Rest house Dholra, Circuit House Bilaspur and Rest House House Panjain and various N.R buildings under ESD Bilaspur (H.P)

Sr. No.	Description of Items	Quantity	Unit	Rate in fig.	Rate 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&I (Enice), haveli (crabtree) or its equivalent as approved by Engineer-in-charge.					
1.01	Group C	2.00	Each			
2	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
2.01	5/6 amps switch	15.00	Each			
2.02	3 pin 5/6 amp socket outlet	5.00	Each			
2.03	6 pin 15/16 amp switch	5.00	Each			
2.04	6 pin 15/16 amp socket outlet	3.00	Each			

3	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)J&T(Enice),havelis (grabtree) or its equivalent as approved by Engineer-in-charge.					
3.01	5/6 amp Modular Switch	10.00	Each			
3.02	5/6 amp Modular Socket	8.00	Each			
3.03	15/16 amp Modular Switch	10.00	Each			
3.04	15/16 amp Modular Socket	8.00	Each			
4	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					
4.01	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	10.00	Meter			
5	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,KEL,Finolex or its equivalent as approved by Er-In-Charge					
5.01	3 x 1.5 sq. mm	130.00	Meter			
5.02	3 x 4 sq. mm	40.00	Meter			

6	Providing and fixing of surface mounted Luminaire following Watt batten having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion < 10% and efficacy > 100 lumens per watt (RI > 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required .. Make:-Jaquar /Philips,Panasonic or its equivalent as approved by Engineer-in-Charge.					
6.01	24 watt	6.00	Each			
6.02	36 watt	6.00	Each			
7	Supplying and fixing of following watts surface/recess round type LED downlight, and it should be compatible with specification e.i. Power Factor > 9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, (RI > 80 suitable for input voltage: AC 220-240 V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. Make Jaquar, Wipro Philips or its equivalent as approved by Engineer-in-charge (Five year warranty)					
7.01	12 W	4.00	Each			
7.02	18 W	6.00	Each			
8	Providing, Installation, testing and commissioning of ceiling fan, 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 fan box ,phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha/TECHNIX PLUS/Bajaj,Crompton or its equivalent as approved by Engineer-in-charge.					

8.01	Ceiling Fan 1200 mm sweep	8.00	Each			
9	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. Make :- Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in-charge.	11.00	Each			
10	Supplying and fixing of LED panel driver 9/12 watt with connector including connections, testing and commissioning as required. Make:- Havells (Cat no LSSLNW0169), Philips, Jaquar, Panasonic, or its equivalent as approved by Engineer-in-charge.	4.00	Each			
11	Supplying and fixing of LED panel driver 15/18 watt with connector including connections, testing and commissioning as required. Make:- Havells (Cat no LSSLNW0170), Philips, Jaquar, Panasonic, or its equivalent as approved by Engineer-in-charge.	4.00	Each			
12	Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required. Make :- Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Engineer-in-charge.	3.00	Each			
13	Providing and installation exhaust fan of 250mm (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.	1.00	Each			
14	Supplying and erection of 40/50/63 amps, 10 KVA 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.	2.00	Each			

15	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, Hager, ABB or its equivalent as approved by Engineer-in-charge.					
15.01	63 AMP	1.00	Each			
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, Havells or its equivalent as per best satisfaction of Engineer-in-charge.					
16.01	single pole	10.00	Each			
17	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)					
17.01	9 Watt	6.00	Each			
18	Providing and installation of stationary storage type Electric water heater (Geyser) of 25 liters 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: Usba, Bajaj, Recold or its equivalent as per best satisfaction of Engineer-in-charge.	2.00	Each			
G.Total:-						


 Executive Engineer,
 Electrical Division,
 HPPWD, Una.

SCHEDULE OF QUANTITY

Job No. 8

Estimated Cost:- Rs. 1,81,495/-
 Earliest Money:- Rs. 3,700/-
 Time Limit:- Six Months.

Name of work:- Replacement of damaged accessories and E.L. in various NR Govt. buildings i.e Rest house hamirpur, (circuit house hamirpur, (court complex hamirpur, (chief office, (circle office, (B&R)
 Division office under ESD Hamirpur Dist hamirpur HP

Sr. No.	Description of Items	Quantity	Unit	Rate in Fig.	Rate 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 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 (enice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge					
1.01	Group c	8.00	Each			
2	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, KEL, Finolex or its equivalent as approved by Er-In-Charge					
2.01	3 x 1.5 sq. mm	25.00	Meter			
2.02	3 x 4 sq. mm	30.00	Meter			
2.03	3 x 10 sqmm	10.00	Meter			

3	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.				
3.01	6 pin 15/16 amp switch	20.00	Each		
3.02	6 pin 15/16 amp socket outlet	25.00	Each		
4	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Diplast/BFC/Polyfit or its equivalent as approved by Engineer-in-Charge				
4.01	25 mm	50.00	Meter		
5	Supplying and fixing PVC 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 (Myrius) or its equivalent as approved by Engineer-in-Charge.	10.00	Each		
6	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.	10.00	Each		

7	Providing and fixing of surface mounted luminaire following Watt batten having high Quality design aluminium extruded decorative end caps with (Five year warranty) and it should be compatible with specification i.e. Power Factor > 9, Harmonic Distortion < 10% 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.as required .. Make:-Jaquar / Philips, Panasonic or its equivalent as approved by Engineer-in-Charge: Make Philips, Panasonic Jaquar or its equivalent as approved by Er-In-Charge(Five year warranty)					
7.01	20 watt	10.00	Each			
8	Supplying and fixing of following watts surface/recess round type LED downlight, and it should be compatible with specification e.i. Power Factor > 9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, CRI > 80 suitable for input voltage: AC 220-240 V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc. Make panasonic, Jaquar, Wipro Philips or its equivalent as approved by Engineer-in -charge.(Five year warranty)					
8.01	12 W	6.00	Each			
8.02	18 W	6.00	Each			
9	Supplying and fixing of LED panel driver 9/12 watt with connector including connections, testing and commissioning as required Make:- Havells (Cat no LSSLNW0169) , Philips, Jaquar, Panasonic ,or its equivalent as approved by Er-in-charge	15.00	Each			

10	Supplying and fixing of LED panel driver 15/18 watt with connector including connections, testing and commissioning as required Make:-Havells (Cat no LNS1,NV0170) , Philips,Jaquar,Panasonic or its equivalent as approved by Engineer-in-charge	20.00	Each				
11	Supplying and fixing of LED panel driver 36/40 watt with connector including connections, testing and commissioning as required Make:-Havells , Philips,Jaquar, Panasonic or its equivalent as approved by Engineer-in-charge	20.00	Each				
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.	2.00	Each				
13	Supplying and fixing 5 amps to 32 amps , 240/415 volts, 10 kA, "C" curve,minature 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.						
13.01	single pole	20.00	Each				
14	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.	5.00	Each				
15	Supplying & installation, testing, commissioning of air cooler , environment friendly . Total tank capacity 55 L. and air delivery capacity 4000 m3/h and air throw distance 13.7 m and all accessories etc. . Make Usha, Blue Star, V Gaurd or its equivalent make.	2.00	Each				
16	Supplying and fixing 4 pole MCCB for 63 to 100 amp Enclosure with all accessories including connections, . as required	1.00	Each				

17	Supplying of Double Door steel Almirah for division office of 4 Nos. 6 ft size with all charges	1.00	Each			
18	Providing and fixing 63 Amp rating and 18 kA 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. Make L&T, Schneider, ABB or its equivalent as approved by Engineer-in-charge.	1.00	Each			
19	Supplying and fixing of following 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, Legrand, ABB or its equivalent as approved by Engineer-in-charge					
19.01	1 triple pole and Neutral	2.00	Each			
20	Supplying and fixing 63 amp 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 approved by Engineer-in-charge.					
20.01	40 amp	2.00	Each			
20.02	63 amp	3.00	Each			
21	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, KEL, Plaza or its equivalent as per best satisfaction of Engineer-in-charge.					

21.01	Armoured cable 6 sqmm	60.00	Meter		
22	Supply and fixing (G-4) motherboard of office computer with complete in all respect	1.00	Each		
G.Total:-					


 Executive Engineer,
 Electrical Division,
 HPPWD, Una.

SCHEDULE OF QUANTITY

Job No. 9

Estimated Cost:- Rs. 58,993/-

Earnest Money:-Rs. 1,200/-

Time Limit:- Six Months.

Name of Work :- SITC one no 2 KVA inverter in Adj earmarked residence at Matani Tesil & Dist hamirpur H.P.

Sr. No.	Description of Items	Quantity	Unit	Rate in fig.	Rate in words.	Amount
1	Supplying Installation, testing and commissioning of 2KVA inverter suitable for AC single phase input 100 to 285 .50 HZ , output maximum load 1600 watt key feature high over load handling capacity advanced battery management which enhances battery life up to 70 % , installation and maintenance friendly no user action required automatic satrt . with 24 month warranty and with maximum charging current 21amp and protection Overload,short-circuit,Battery ,deep discharge protection & Battery reverse polarity protection .Battery two nos. 12V,150AH with warranty of 36 month with back up time 3hour with 2no battery cable etc as required ,complete in all respect as per satisfaction of the Engineer in-charge. (2 year warranty on Inverter and Batterieshaving 36 month warranty).Make:- Luminous/Cruze+ 2KVA-24V batteryLE180361T 12V150AH).Microtech,APC, NUMERIC.	1.00	Job			
2	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(Myritus) or its equivalent as approved by Engineer-in-charge.	1.00	each			
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,KEL,Finolex or its equivalent as approved by En-In-Charge					

3.01	1 x 1.5 sq. mm	60.00	Meter				
4	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Dipplast/BEC/Polyfit or its equivalent as approved by I-T-In-Charge						
4.01	20 mm	2.00	Meter				
G.Total:-							


 Executive Engineer,
 Electrical Division,
 HPPVD, Una.

SCHEDULE OF QUANTITY

Job No. 10

Estimated Cost:- 51,600/-

Earnest Money:- Rs. 1,100/-

Time Limit:- Six Months.

Name of Work :- Replacement of burnt air conditioner fan motor, PCB capacitor in circuit house, Judicial court complex Hamirpur Tehsil & Dist Hamirpur HP

Sr. No.	Description of Items	Quantity	Unit	Rate in Fig.	Rate in Words.	Amount
1	Providing and fixing PCB of Inverter Split type Air conditioner of indoor unit Make Daikin	2.00	Each			
2	Providing and fixing PCB of Inverter Split type Air conditioner of outdoor unit Make Daikin	2.00	Each			
3	Providing and fixing fan motor of Inverter Split type Air conditioner of outdoor unit Make Daikin	1.00	Each			
4	Providing and fixing fan motor of Inverter Split type Air conditioner of indoor unit Make Daikin	1.00	Each			
5	Refilling following Gas of split type Air Conditioner					
5.01	Gas R.32 and R. 410A ●	1.00	Each			
5.02	Gas R.22 and R. 290A	2.00	Each			
6	Providing service of Split type air conditioner	5.00	Each			

7	proving and fixing Capacitor in split type air conditioner	2.00	Each			
8	Testing and visiting charges	4.00	Each			
Note :- Less dismateral Credit @ 1/5 Rs. 2500/- (Rs. Two thousand five hundred only) to be recover final bill).						G.Total:-


 Executive Engineer,
 Electrical Division,
 HPPWD, Una.


SCHEDULE OF QUANTITY

Job No. 11

Estimated Cost:- Rs. 26,509/-
Earnest Money:- Rs. 600/-
Time Limit:- One Month.

Name of work :- Providing Servicing of Diesel Generator sets CLIMMINS (SUDHIR) make 125 KVA at Chief office Hamirpur, Distt Hamirpur (H.P)

Sr. No.	Description of items	Qty.	Unit	Rate in Fig.	Rate in words.	Amount
1	Servicing of Diesel Engine SUDHIR Make 125KVA Diesel Generator with replacement of lubrication oil ,filter , fuel filter kit ,air filter kit item, lubricating oil 20 ltr refilling etc as required complete in all respect. (First Service)	1.00	Each			
G.Total:-						


Executive Engineer,
Electrical Division,
HPPWD, Una.

SA HEDULE OF QUANTITY

Job No. 12

Estimated Cost: Rs. 1,90,885/-
Earnest Money: Rs. 3,800/-
Time limit: One year.

NAME OF WORK :- C/O Sub Centre Building at Chhatar, Dist. L. Na (H.P.) (SH :-2) Providing E.L. therein)

Sr. No.	Description	Quantity	Unit	Rate	In Fig.	Rate 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 (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit and earthing the light point with 1.5 Sq. mm. HFR/S/PVC insulated single core copper conductor cable as required.(Finolex,KEL,Anchor,L&T make)						
1.01	Group A.	16.00	Each				
1.02	Group C.	20.00	Each				
2	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.1.5 Sq. mm. HFR/S/PVC insulated single core copper conductor cable for earthing as required.(Finolex,KEL,Anchor,L&T make)	10.00	P/mtr.				
3	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.4 Sq. mm. HFR/S/PVC insulated single core copper conductor cable for earthing as required.(Finolex,KEL,Anchor,L&T make)	44.00	P/mtr.				
4	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq. mm. HFR/S/PVC insulated single core copper conductor cable for earthing as required.(Finolex,KEL,Anchor,L&T make)	24.00	P/mtr.				
5	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HFR/S/PVC insulated single core copper conductor cable of same size for earthing as required.(Finolex,KEL,Anchor,L&T make)						

5.01	2x1.5 Sq. mm.	33.00	Pr/mtr.			
5.02	2x10 Sq. mm.	3.00	Pr/mtr.			
6	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HREB) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.(Finolex,KEL,Anchor,L&T make)					
6.01	3x1.5 Sq. mm.	25.00	Pr/mtr.			
7	Supplying and fixing following rating Piano type switch /socket on the existing switch box / cover including connections etc. as required.					
7.01	S.P. 5/6 Amps one way switch, piano type.	4.00	Each			
7.02	5 pin 5/6 Amps socket outlet, porcelain base/ piano type.	4.00	Each			
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.	6.00	Each			
9	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.	6.00	Each			
10	Supplying and fixing bakelite batten/angle holder including connections etc. as required:- (SSK,Anchor make)	8.00	Each			
11	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase,230 volts complete as required:- (SSK,Anchor make)	2.00	Each			

12	Supplying and erection of 6 amps, 6.3 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	6Amps,Single pole Cat-A.	6.00	Each			
12.02	16Amps,Single pole Cat-A.	6.00	Each			
13	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:-					
13.01	Double pole Cat-A.	2.00	Each			
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 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
14.01	40 Amps, Cat-A.	2.00	Each			
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-bay, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
15.01	Double door-12 way	2.00	Each			
16	Earthing with G.I earth pipe 4.5 mtr. long and 40mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1.00	P/set			
17	Extra for using salt and charcoal for pipe earth electrode complete as required.	1.00	P/set			

18	Supplying and having 6 SWG 6.2 L wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	35.00	1/mtr.			
19	Providing, installation, testing and commissioning of ceiling fan without step type fan regulator modular, 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-Techinplus) or its equivalent make)					
19.01	Ceiling Fan 1200 mm sweep, Category-A	6.00	Each			
20	Supplying and fixing Fan box of M.S. sheet with iron rod hook 12 mm in place of junction box complete as required.	6.00	Each			
21	Supplying and fixing Step type fan regulator (Socket type) 100 watts on the existing switch box/cover complete making connections etc. as required, (SSK/Anchor or its equivalent make)	6.00	Each			
22	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 1124541-XXX-57-NX or Equivalent in Philips : BN308C LED40S-6500 L120 PSU WH or Trilux:TRL-X F OTA 4000-857 ET	6.00	Each			
23	Providing and fixing LED Street light 25 watts aluminium die cast housing, with Polycarbonate LENS for uniform light distribution and bracket of steel conduit pipe 32 mm., complete with all accessories, connections, testing and commissioning etc. as required. (Wipro LR02-291-XXX-57-NX/C lair/Philips make)	3.00	Each			
24	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)					
24.01	Exhaust Fan, Light duty, 300 mm sweep	4.00	Each			
25	Supplying and fixing exhaust fan louver shutter for 300 mm, exhaust fan on the existing wall, painting etc. as required. (National or its equivalent make)	4.00	Each			

26	Supplying and fixing of bulk head fitting LED 10 watts and suitable for input voltage 220-240 Volts, 50 HZ, Length: 232x Width: 105x Height: 50 mm size complete with connections etc. as required (Panasonic, Elipso Code No. PRHM01107/Philips/Decoon or its equivalent make)	1.00	Each			
27	Supplying and fixing of 113 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 cat. No. A1946611X/Panasonic/Philips make)	8.00	Each			
28	Supply and fixing of 261 Led Batten 10 W surface mounted with polycarbonate diffuser and with extruded aluminum 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 PSI GR S1 or Trihex: TRL-X FOTX 2000-857 ET or LT	2.00	Each			
29	Supplying and fixing Fancy wall bracket Decoon make, Shri Lanka Model Cat. No. 050Q containing GLS Lamp holder(s) of all sizes and shapes, complete with all accessories but excluding CFL Lamp including making connections etc. as required.	3.00	Each			
6. Total:-						


 Executive Engineer,
 Electrical Division,
 HPPWD, (Ira).

SCHEDULE OF QUANTITY

Job No.13

Estimated Cost:- Rs. 78,059/-
 Earnest Money:- Rs. 1,600/-
 Time Limit:- Six Months.

Name of work :- Providing and fixing of 1 No Split Type A.C. (1.8T) in VIP Suit (Bed Room) at HPPWD Rest House Langjama Dist Hamirpur H.P.

Sr. No.	Description of Items	Quantity	Unit	Rate in fig.	Rate in Words.	Amount
1	Supplying and fixing 1.5 ton inverter split type air conditioner Hot and Cold with voltage stabilizer 150v to 280 v , advanced filter, 1 saver mode, quit mode, dual display, auto clean, anti bacteria filter jet Cool on/off timer sleep mode compressor 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 approximately 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A.C. including carriage of material with in all heads and lift. Make:- Daikin (Model:- FTH750), O General/Mitsubishi or its equivalent as approved by the Engineer Charge.	1.00	Each			
2	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make:- Legrand(Myristis), L&T(ence), Anchor (Roma classic) as approved by Engineer-in-charge.	1.00	Each			
3	Supplying and drawing following size of FRLS PVC insulated copper conductor single core cable in existing surface / recessed, Steel/medium class PVC conduit as required. Make:- KEL, Anchor, Plaza as approved by Engineer-in-charge.					
3.01	3x4.0 Sq. mm.	20.00	Meter			
4	Supplying and fixing of following sizes of medium class PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. Make:-Diplast/BEC/Polyfit or its equivalent as approved by Engineer-in-charge.					
4.01	25 mm. dia	15.00	Meter			

5	Shifting and Installation of existing split type 1.5 Ton A.C. (cold) from Rest House Jangana to Rest House Barsar in Sur No 4 connections, testing & commissioning etc. as required complete in all respect.	1.00	Each				
G. Total							1.5


 Executive Engineer,
 Electrical Division,
 HPWD, Una.

SCHEDULE OF QUANTITY

Job No. 14

Estimated Cost:- Rs. 3,67,993/-
Earnest Money:- Rs. 7,400/-
Time Limit:- Six Months.

Name of work:- Providing E.L. for newly establish VRL LNB in Administrative block, AT Dr RKGVMC Hamirpur Distt Hamirpur (H.P)

Sr. No.	Description of Items	Quantity	Unit	Rate	in Fig.	Rate 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 G1 box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	21.00	Each				
2	Supplying and fixing suitable size G1 box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc as required.	6.00	Each				
3	Supplying and fixing suitable size G1 box with modular plate and cover in front 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.	5.00	Each				
4	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , G.1 box 2 module for jack box and G.1 Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RL-45)with shutter including connections etc as required.	6.00	Each				
5	Supplying & fixing suitable size G1 box with modular plate and cover in front on surface or in recess i/e providing and fixing 32 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required.	4.00	Each				
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 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	37.00	Metre				
6.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	32.00	Metre				

6.03	4 N 4 sq. mm - 2 N 4 sq. mm earth wire	48.00	Metre				
7	1.17 Supplying and drawing following sizes of E.R.S. PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.						
7.01	S/D 3 N 4 sq. mm	150.00	Metre				
8	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ N/PE power cable, 1.1 KV grade of following sizes on wall surface as required, Make:- KELPOLYCAB, PLAZA or its equivalent as approved by Er-in-charge						
8.01	Armoured cable 35 sq. mm (3.5 core)	45.00	Metre				
9	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 ² in twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as req. wired: Make:- 1 sha(TECHNIX PLUS), Bajaj, Crompton or its equivalent as approved by Er-in-charge						
9.01	Ceiling Fan 1200 mm sweep	6.00	Each				
10	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: Make:- 1 sha(S.P.H TURBO HDEF 900 RPM), Bajaj, Crompton or its equivalent as approved by Er-in-charge						
10.01	Exhaust Fan, (Heavy Duty), 300 mm sweep	3.00	Each				
11	Supplying and fixing Aluminium batten LED 30watt, 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, etc. Make:- panasonic (Model -PBT M08368)/Philips, Panasonic or its equivalent as approved by Engineer-in-Charge	6.00	Each				

12	Supplying and fixing Aluminium button LED 10 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:- Jaguar/Philips, Panasonic or its equivalent as approved by Engineer-in-Charge	1.00	Each		
13	Supplying and fixing SURFACE 1x4 36 WATT LED , 5700k, (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:- WIPRO (Model CRC013R036HP57G11)/Philips, Jaguar or its equivalent as approved by Engineer-in-Charge	4.00	Each		
14	Supplying and fixing surface round type LED 12 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:- Jaguar (Model -LNRO02R0012SC)/Philips, wipro or its equivalent as approved by Engineer-in-Charge	3.00	Each		
15	Supplying and fixing following rating Modular 6 amp switch one module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Myrius code(673000),MK or its equivalent as per best satisfaction of Engineer in -charge.	27.00	Each		
16	Supplying and fixing following rating Modular 6amp socket two module in the existing switch box / cover plate including connections etc. as required. Make :-Legrand Arctor code(673044),MK or its equivalent as per best satisfaction of Engineer in -charge.	27.00	Each		
17	Supplying and fixing following rating Modular 6/16 amp socket two module in the existing switch box / cover plate including connections etc. as required. Make :-Legrand Arctor code(573471),MK or its equivalent as per best satisfaction of Engineer in -charge.	15.00	Each		
18	Supplying and fixing following rating Modular 20 amp switch with indicator one module in the existing switch box / cover plate including connections etc. as required. Make :-Legrand Arctor code(673010),MK or its equivalent as per best satisfaction of Engineer in -charge.	15.00	Each		
19	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 4 module for 85 mm cover in DLP System .Make :-Legrand (010994),MK or its equivalent as required complete in all respect .	4.00	Each		
20	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 6 module for 85 mm cover in DLP System .Make :-Legrand (010996),MK or its equivalent as required complete in all respect .	19.00	Each		

21	Supplying and fixing of DLP 105/50 mm PVC adaptable trunking on the existing 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.	4.00	Each			
22	Supplying and fixing internal angle adjustable from 80 degree to 100 degree on the DLP 105/50 mm PVC adaptable trunking for making compact joint. Make:-Legrand, MK or its equivalent as required complete in all respect.	3.00	Each			
23	Supplying and fixing flat angle 90 degree on the DLP 105/50 mm PVC adaptable trunking for making compact joint. Make:-Legrand, MK or its equivalent as required complete in all respect.	2.00	Each			
24	Supplying and fixing end cap for 85 mm cover for 105/50mm DLP System. Make:-Legrand (I), MK or its equivalent as required complete in all respect.	3.00	Each			
25	Supplying and fixing of Segregated triple pole and neutral 12way, 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 shrouds /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-DBPCL0012DD) /Legrand, Hager, or its equivalent as approved by Engineer-in charge.	1.00	Each			
26	Supplying and erection of 40/50/63 amps rating, 10 kA breaking capacity, 240 volts, 'C' curve, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	3.00	Each			
27	Supplying and fixing 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.	3.00	Each			
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.	36.00	Each			
29	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 require					
29.01	MCCB 100 AMP	1.00	Each			

30	Supplying and drawing of 1 TP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel PVC conduit as required.					
30.01	4 pair UTP CAT 6 1 run of Cable	40.00	Metre			
31	Supplying and fixing of following sizes of PVC conduit 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.					
31.01	25 mm	20.00	Metre			
32	Providing and installation of stationary storage type Electric water heater (Geyser)of various sizes by means of expansion-bolts with nuts and washers, includingembedding of expansion-bolts in the wall, making good the damages, electricalconnections, testing etc. complete as required:-Make:-1 sha(Mist 25 litre),Bajaj,Recolid or its equivalent as approved by Er-in-charge					
32.01	Geyser 25 ltr	1.00	Each			
33	Supplying and fixing D-link DGS-1100-16V2 16port 10/100/1000Mbps L2managed 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-1100-16V2) Digilink, Cisco/ or its equivalent as approved by Engineer-in-Charge.	1.00	Each			
34	Supplying and fixing Loaded Wall-Mount 2u Dimensions 44 X57 X20 CM Front Glass Door(tinted,toughened) with LOCK &KEY, 2PAIRS OF 19" Mounting Rail with U-Marking welded Side walls 1U Cable Manager (1) Hardware Packet (1Pkt)3 socket Samp .power distribution Unit(1NO) .Make:- D-Link(CAT NO NMR-2U-5540-CR-DVR), Cisco. Digi link or its equivalent as approved by Engineer-in-Charge.	1.00	Each			
G. Total:-						


 Executive Engineer,
 Electrical Division,
 HPPWD, Una.

SCHEDULE OF QUANTITY

Job No. 15

Estimated Cost:-Rs. 55,568/-
Earnest Money:- Rs. 1,100/-
Time Limit:- Six Months.

Name of work :- Servicing of Diesel Generator Sets (CLIMINS (SUDHIR) make 25 KVA, 50 KVA, 100 KVA make at Dr. RKGMC Hamirpur, Distt Hamirpur (HP).

Sr. No.	Description of items	Quantity	Unit	Rate in Fig.	Rate in Words.	Amount
1	Servicing of Diesel Engine SUDHIR Make 25KVA Diesel Generator with replacement of lubrication oil filter i, fuel filter kit, air filter kit item, lubricating oil 8 lit refilling etc as required complete in all respect. (first Service)	1.00	P/Job			
2	Servicing of Diesel Engine SUDHIR Make 50KVA Diesel Generator with replacement of lubrication oil filter i, fuel filter kit, air filter kit item, lubricating oil 8 lit refilling etc as required complete in all respect (first Service)	1.00	Each			
3	Servicing of Diesel Engine SUDHIR Make 100KVA Diesel Generator with replacement of lubrication oil filter i, fuel filter kit, air filter kit item, lubricating oil 20 lit refilling etc as required complete in all respect. (First Service)	1.00	Each			
G.Total						


Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

JOB NO.16

Estimated cost:- Rs. 2,97,768/-
Earnest money:- Rs. 6,000/-
Time Limit:- Six Months

Name of work - Providing E.I for phototherapy unit in 402 and pediatrics ward new, cash counter in Radiology department at Dr RKGMC Hamirpur Distt Hamirpur (H.P)

S. No.	Description of Items	Quantity	Rate In Fig.	In Words.	Unit	
1	Supplying and fixing following rating Modular 6 amp switch one module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Myrius code(673000),MK or its equivalent as per best satisfaction of Engineer in-charge.	30			each	
2	Supplying and fixing following rating Modular 6amp socket two module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Aretor code(673044),MK or its equivalent as per best satisfaction of Engineer in-charge.	30			each	
3	Supplying and fixing following rating Modular 6/16 amp socket two module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Aretor code(573471),MK or its equivalent as per best satisfaction of Engineer in-charge.	11			each	
4	Supplying and fixing following rating Modular 20 amp switch with indicator one module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Aretor code(673010),MK or its equivalent as per best satisfaction of Engineer in-charge.	11			each	

5	Supplying and fixing power socket 25 amp with 25 amp switch on existing DLP making connection ,testing etc as required. Make:- L&T/Anchor/Havells or its equivalent make.	3			each	
6	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 4 module for 85 mm cover in DLP System .Make :-Legrand (010994)).MK or its equivalent as required complete in all respect .	2			each	
7	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 6 module for 85 mm cover in DLP System .Make :-Legrand (010996)).MK or its equivalent as required complete in all respect .	20			each	
8	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 2 module for 85 mm cover in DLP System .Make :-Legrand (010952)).MK or its equivalent as required complete in all respect .	2			each	
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.Make:- KEI.					
i	S/D 3 X 1.5 sq. mm	20			mtr	
ii	S/D 3 X 4 sq. mm	96			mtr	

10	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					
i	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	25			each	
11	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					
i	16 way, Double door	2			each	
ii	8 way double double door	2				
12	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:-	3			each	
13	Supplying and fixing 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.	3			each	
14	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.	26			each	

15	Supplying and fixing of DLP 105x50 mmPVC 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 .	40				each	
16	Supplying and fixing external angle adjustable from 60 degree to120 degree on the DLP U PVC adaptable trunking for making compact joint .Make:-Legrand ,MK or its equivalent as required complete in all respect .	5				each	
17	Supplying and fixing internal angle adjustable from 80 degree to100 degree on the DLP U PVC adaptable trunking for making compact joint .Make:-Legrand ,MK or its equivalent as required complete in all respect .	5				each	
18	Supplying and fixing flat angle 90 degree on the DLP U PVC adaptable trunking for making compact joint .Make:-Legrand ,MK or its equivalent as required complete in all respect .	3				each	
19	Supplying and fixing end cap for 85 mm cover for 105x50mmDLP System .Make :-Legrand ()),MK or its equivalent as required complete in all respect .	6				each	
20	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 steel conduit, with modularswitch, modular plate, suitable GI box and earthing the pointwith 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.						
i	Group C	1				each	

21	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	2			each	
22	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45)with shutter including connections etc as required.	1			each	
23	Supplying and fixing 12 module board comprising 3 nos 5 amp modular switches , G.I Box 12 module for 5 amp switches and 5 amp sockets, one no 15 amp switch, 15 amp socket comprising sheet cover for each including connections etc as required.	5			each	
24	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont 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.	2			each	
25	Supplying and fixing street light type LED 75 watt 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 - Panasonic (Model -PSTM16758)/Philips/wipro or its equivalent as approved by Engineer-in-Charge	2			each	

26	Supplying and fixing Aluminium batten LED 36 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:- panasonic (Model - PBTM17228)/Philips,Panasonic or its equivalent as approved by Engineer-in-Charge	1			each	
27	Providing and Installation of Wall mounting fan of 400 mm sizes i/e hang the same in position on the wall,connections,testing and commissioning etc.as required with best satisfaction of Engineer in charge .Make:- Usha(MIST AIR DUSOS/ICY),Bajaj,Crompton or its equivalent as approved by Er-in-charge	1			each	
28	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	18			each	
29	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					
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	5			mr	
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	8			mtr	
	2 X 6sq. mm + 1 X 6 sq. mm earth wire	15			mtr	
30	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					
i	2 X 10sq. mm + 1 X 6 sq. mm earth wire	38			mtr	

31	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required.	25				mtr	
32	Supplying and fixing of following sizes of PVC conduit 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.						
i	20 mm	22				mtr	
33	Providing and fixing 630A TP&N in sheet Enclosure disconnecter 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	
	Total						


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

SCHEDULE OF QUANTITY

JOB No. 17

Estimated cost:- Rs. 1,57,016/-

Earnest money:- Rs. 3,200/-

Time Limit:- Six months.


Name of work - Providing power supply for motors in 140 lpm PCA oxygen plant, instruments in main lab, Principal office and 24v self repair of 125 kva dg set Hamirpur (H.P)

S. No.	Description of Items	Quantity	Rate	In words.	Unit	Amount
1	Supplying and fixing following rating Modular 6 amp switch one module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Myrius code(673000),MK or its equivalent as per best satisfaction of Engineer in -charge.	4	174		each	
2	Supplying and fixing following rating Modular 6amp socket two module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Aretor code(673044),MK or its equivalent as per best satisfaction of Engineer in -charge.	4	338		each	
3	Supplying and fixing following rating Modular 6/16 amp socket two module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Aretor code(573471),MK or its equivalent as per best satisfaction of Engineer in -charge.	1	448		each	
4	Supplying and fixing following rating Modular 20 amp switch with indicator one module in the existing switch box / cover plate including connections etc. as required. Make :- Legrand Aretor code(673010),MK or its equivalent as per best satisfaction of Engineer in -charge.	1	339		each	

6	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 4 module for 85 mm cover in DLP System .Make :-Legrand (010994),MK or its equivalent as required complete in all respect .	2	353		each	
7	Supplying and fixing support for mounting wiring accessories clip on supports which can be fitted side by side supplied with finishing plate for 6 module for 85 mm cover in DLP System .Make :-Legrand (010996),MK or its equivalent as required complete in all respect .	1	446		each	
8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required					
I	5/6 amp Modular switch	8	89		each	
II	5 pin 5/6 amp socket outlet	8	151		each	
III	6 pin 15/16 amp switch	2	165		each	
IV	6 pin 15/16 amp socket outlet	2	271		each	
9	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					
i	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	33	565		mtr	
10	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVCConduit as required.					
i	S/D 3 X 4 sq. mm	10	234		mtr	

11	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: KEI, POLYCAB, PLAZA or its equivalent as approved by Er-in-charge					
i	Armoured cable 16 sq. mm (four core)	15	370		mtr	
ii	Armoured cable 35 sq. mm (3.5 core)	95	491		mtr	
12	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 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)					
i	4 (4+12)way, Double door	1	4483		each	
13	Supplying and fixing 40 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.					
i	63A, TP MCB, "C" curve, 10 KA breaking capacity	3	1766		each	
14	Supplying and fixing 40/50/63 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.					
i	63A ratings, TPN MCB, "C" curve, 10 KA breaking capacity	1	2215		each	

15	Supplying and fixing of DLP 105x50 mmPVC 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 .	3	1174		mtr	
16	Repairing and .reinstallation of 24 volt self of 125 kva gen set	2	15353		each	
17	Repairing and reinstallation of radiator of 125 dg set	1	2473		each	
18	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required	95	112		mtr	
19	Supplying and fixing of Manual Changeover, confirms to IEC60947-3,IS/IEC6047-3 200 amp 415 volts, 50 Hz suitable for horizontal as wellvertical mountingcomplete with connection, testing and commissioning etc as required. Make:- L&T Cat. No. (CO463000SOO), Legrand, Hager, or its equivalent as approved by Engineer-in-charge.	1	17720		each	
	Total					


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

SCHEDULE OF QUANTITY					JOB NO. 18	
					Estimated cost:- Rs. 1,03,663/-	
					Eanrest money:- Rs. 2,100/-	
					time Limit:- Six months.	
Name of Work:-SITC one no 1.5 Ton inverter split type Air Conditioner and replacement of damaged indoor unit of AC in Rest House Sujapur Distt Hamirpur (HP)						
Sr. No.	Description of Items	Quantity	Rate In fig.	In Words.	Unit	Amount
1	Supplying and fixing 1.5 ton inverter split type air conditioner 4* Hot and Cold with voltage stablizer 130V to 290 V , advanced filter ,E saver mode , quit mode, dual display ,auto clean ,anti bacteria filter jet Cool on/off timer sleep mode compressor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt + 10 % AC 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 3mrs long 2 nos copper pipe with insulator for inlet and outlet approximately 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/Mitsubsi or equivalent as approved by the Engineer Charge.	1			EACH	
2	Supplying Installation ,testing and commissioning of 1.5 TR Air conditioner split Type of diamnsion 1.085m (w)x29.5cm (D)x36.0cm (H) having gross wieght 11.00 kg of following make Godrej,Samsung, whirlpool or its equivalent as approved by Engineer in Charge	1			each	

3	Providing, laying and fixing of interconnecting copper pipe with Nitrile tubular insulation AC indoor to out door unit of split AC 1.5 TR and 2TR	10			per mts	
4	Dismantal and reinstallation of out door unit of split type 1.5 A.C	1			EACH	
5	Supplying and drawing 3 core 2.5 sq. mm cable with PVC insulated multi core FR PVC sheathed multi stand cable with bright annealed electrolytic ware copper conductor for voltage grade up to 1100 volt conforming to IS 694/2010 in existing surface /recessed steel/PVC Conduit as required. Make : Polycab, Finolex, KEL or its equivalent as approved by Er-In-Charge	6			Metre	
6	Supplying and fixing of DLP 105x50 mmPVC 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.	4			Metre	
	Total					


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

SCHEDULE OF QUANTITY

JOB No. 20

Estimated cost:- Rs. 96,766/-

Earnest money:- Rs. 1,900/-

Time Limit:- Six months.

Name of work:- Providing E.I. in Health Sub Centre building at Dhani, Tehsil Jhandutta, Distt. Biltaspur(H.P.)

S. No.	Description	Quantity	Rate In Fig.	In words.	Unit	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with 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.					
i	Group.A	12			Point	
ii	Group.C	7			Point	
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	34			p/mtr	
3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit alongwith 1 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	10			p/mtr	
4	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;KEI,Anchor ,L&T as approved by Engineer -in -charge .					
i	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	25			p/mtr	
ii	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	10			p/mtr	
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required;KEI,Anchor ,L&T as approved by Engineer -in -charge .					
i	3 x 1.5 sq. mm	10			p/mtr	
6	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
i	5/6 amps switch	3			each	
ii	3 pin 5/6 A socket outlet	3			each	

7	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. (For light plugs to be used in non residential buildings),Legrand(Myrius),L&T(Entice),Anchor (Roma plus) as approved by Engineer-in -charge.	4			Each	
8	Supplying and fixing metal 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,Legrand(Myrius),L&T(Entice),Anchor (Roma plus) as approved by Engineer-in -charge.	5			each	
9	Supplying and fixing 5 A to 32 A rating, 240/415 V, 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, Legrand,Hegar as approved by Engineer-in -charge.					
i	Single pole,6 Amp Cat-A.					
ii	Single pole,16 Amp Cat-A.	4				
10	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:-Make L&T, Legrand,Hegar as approved by Engineer-in -charge.	5			each	
i	40 Amps. Cat-A.					
11	Supplying and fixing 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, Legrand,Hegar as approved by Engineer-in -charge.	2			each	
i	40 A					
12	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, Legrand,Hegar as approved by Engineer-in -charge.	2			each	
ii	8 way , Double door					
ii	12 way , Double door	1			Each	
13	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- Usha Tech plus ,Bajaj ultima,Havell velocity not less than three star as approved by Er-in-charge .Usha Tech plus ,Bajaj ultima,Havell velocity not less than three star as approved by Er-in-charge .	1			Each	
i	Ceiling Fan 1200 mm sweep	3				
15	Supplying and fixing PVC batten/ angle holder including connections etc. as required.	8			each	
					Each	

16	Supplying and fixing LED, Lamp 9 watts E-27 base in the existing batten holder/pendent holder.	8			Each	
17	Providing and fixing of surface mounted Luminaire LED 22 Watt batten ,having high Quality design aluminium extruded decorative end caps with five year warranty) and it should be	3			Each	
18	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 the damages, connections, testing and commissioning etc. as required: Make:- Usha,Bajaj,Crompton or as approved by Er-in-charge					
i	EXHAUST Fan light duty 300 mm sweep	3			Each	
19	Supply and fixing exhaust fan lower 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.	3			Each	
20	Supplying and fixing Ding Dong bell suitable for single phase, 230 V, complete as requiredMake :- Anchor (Roma classic),L&T(Entice),Legrand(Myritus) as approved by Engineer-in -charge.	2			Each	
21	Supplying and fixing street light type LED 25 watt 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 - Panasonic (Model -PSTM278)/Philips/wipro or its equivalent as approved by Engineer-in-Charge	4			Each	
22	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			each	
23	Providing and fixing 6 SWG (4 mm dia.) G.I. wire on surface or in recess for loop earthing as required.	25			p/mtr	
Total:-						
24	less credit of Supplying and laying PVC Conduit pipe in lanter	25			p/mtr	
Total:-						


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

DRAFT SCJCHEDULE OF QUANTITY				JOB NO. 21		
			Estimated cost:- Rs. 4,54,173/-			
			Earnest money:- Rs. 9,100/-			
			Time Limit:- Six months.			
Name of work: - Construction of Additional Accomodation in PWD Rest House Building at Namhol in Distt. Bilaspur (H.P) (SH: - Providing Air Conditioners there in)						
Sr. No.	Discription of item	Quantity	Rate In fig.	In words.	Unit	Amount
1	Supplying and fixing 1.5 ton inverter split type air conditioner 4 Star Rating Hot and Cold with voltagge stablizer 140V to 2900 V , advanced filter ,E saver mode , quit mode, dual display ,auto clean ,anti bacteria filter jet Cool on/off timer sleep mode compressor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt + _ 10 % AC 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 outdoor unit of split type A.,C including carrigae of material with in all leads and lift. Make -Daikin (model:FTHT50), O Genral/Mitsubsi or equivalent as approved by the Engineer Charge.	3			each	

2	Supplying and fixing 1.8/2.0 ton inverter split type air conditioner 4 Star Rating Hot and Cold with voltage stabilizer 150 V TO 290 V, advanced filter, E saver mode, quit mode, dual display, auto clean, anti bacteria filter jet Cool on/off timer sleep mode compressor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt + 10 % AC 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 3mts long 2 nos copper pipe with insulator for inlet and outlet approximately 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A..C including carriage of material with in all leads and lift. Make - Daikin (model:FTHT60), O Genral/Mitsubi or equivalent as approved by the Engineer Charge.	3			each	
Total						


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


SCHEDULE OF QUANTITY					JOB NO. 22	
					Estimated cost:- Rs. 67,943/-	
					Earnest money:- Rs. 1,400/-	
					Time Limit:- Six months.	
Name of Work:- Providing/Replacement E.I. in Ayurvedic Health Centre Building at Dohak, Tehsil Jhandutta, Distt. Bilaspur (H.P.)						
Sr. No.	Description of Items	Quantity	Rate In Fig.	In words.	Unit	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with 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. Make:- Legrand (Myrius), L&T(entice), Anchor (Roma plus) as approved by Engineer-in-charge.					
i	Group C	15			Point	
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. Make:- KEI, Anchor, L&T as approved by Engineer -in-charge.	24			p/mtr	
3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit alongwith 1 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	10			p/mtr	

4	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.KEI, Anchor,L&T as approved by Engineer -in -charge.					
i	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	15			p/mtr	
ii	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	5			p/mtr	
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.KEI,Anchor,L&T as approved by Engineer -in -charge.	10			p/mtr	
i	3 x 1.5 sq. mm					
6	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
i	5/6 amps switch	6			each	
ii	3 pin 5/6 A socket outlet	6			each	
7	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. (For light plugs to be used in non residential buildings).Legrand (Myrius), L&T(entice) ,Anchor (Roma plus) as approved by Engineer-in-charge.	4				

8	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FR.Sont 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. Legrand (Myrius), L&T(entice) Anchor (Roma plus) as approved by Engineer-in-charge.	3			each	
9	Supplying and fixing 5 A to 32 A rating, 240/415 V, 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, Legrand, Hegar as approved by Engineer-in-charge.					
i	Single pole.6 Amp Cat-A.	2			each	
ii	Single pole.16 Amp Cat-A.	3			each	
10	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:- Make L&T, Legrand, Hegar as approved by Engineer-in-charge.					
i	40 Amps. Cat-A.	1			each	
11	Supplying and fixing 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, Legrand, Hegar as approved by Engineer-in-charge.					
i	40 Amp.	1			each	

12	MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Make L&T, Legrand, Hegar as approved by Engineer-in-charge.					
i	12 way, Double door	1			each	
13	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- Usha Tech plus Bajaj ultima,Havell velocity not less than three star as approved by Er-in-charge . Usha Tech plus, Bajaj ultima, Havell velocity not less than three star as approved by Er-in-charge.					
i	Ceiling Fan 1200 mm sweep	3			each	
14	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. Make :- Anchor (Roma classic),L&T(Entice), Legrand (Myrius) or as approved by Engineer-in-charge.	11			each	
15	Supplying and fixing PVC batten/ angle holder including connections etc. as required.	6			each	
16	Supplying and fixing LED. Lamp 9 watts E-27 base in the existing batten holder/pendent holder.	6			each	

17	Providing and fixing of surface mounted Luminaire LED 22 Watt batten ,having high Quality design aluminium extruded decorative end caps with(five year warranty) and it should be compatible with specification i.e. Power Factor >.9, Harmonic Distortion <10% 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.as required Make :Panasonic (PBTNM17228), Jaquar, Philips, wipro or as approved by Engineer-in-charge.	4			each	
18	Supplying and fixing street light type LED 25 watt 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 Panasonic (Model -PTM278)/Philips/wipro or its equivalent as approved by Engineer-in-Charge.	2			each	
19	Supplying and fixing Ding Dong bell suitable for single phase, 230 volts, complete as required.	1			each	
	TOTAL					


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

SCHEDULE OF QUANTITY

JOB NO. 23

Estimated cost:- Rs. 99,710/-

Earnest money:- Rs. 2,000/-

Time Limit:- Six months.

Name of Work:- Annual Comprehensive Maintenance contract (AMC) of 1Nos. Passenger lift (Johnson make) in the ADR centre Hamirpur Distt Hamirpur HP. (For the period 10.09.2022 to 09.09.2023).

S. 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	(i) 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	(ii) 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 comonents e.g PCB's transducers, resistance, condensers, power amplifier, transformers, contract, leads, dashpots timing devices, Steel selectotapes 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	(iii) Examine periodically all safety devices and governor and all customary safety test.	-	-	-	-	-
1.04	(iv) 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-M1470	1.00	Job			
TOTAL:						


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

SCHEDULE OF QUANTITY

Job No. 24

Estimated Cost:- Rs. 3,52,300/-
Earnest Money:- Rs. 8,000/-
Time Limit:- Six Months.

Name of work :- C/O Mini Secretariat Building at Ghatwarin Distt Bilaspur (H.P.) (Sh:- Supplying and laying conduit pipe there in.)

Sl. No.	Description	Quantity	Unit	Rate in Fig.	Rate in words.	Amount
1	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
1.01	25 mm. dia	1100.00	P/mtr.			
2	Supplying and fixing of following sizes of PVC conduit 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.					
2.01	25 mm. dia	600.00	P/mtr.			
G. Total :-						


Executive Engineer,
Electrical Division,
HPPWD, Una.

SCHEDULE OF QUANTITY					JOB NO.25	
					Estimated cost:- Rs. 2,53,858/-	
					Earnest money:- Rs. 5,100/-	
					Time Limit:- One year.	
Name of work :-C/O Helipad at kohla Tehsil Nadaun Distt Hamirpur H.P (SH:- Providing E.I therein)						
S. 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 steel 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 Er-In-Charge					
1.i	Group C	15	each			
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way 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	each			
3	Wiring for circuits/submain wiring along with earthing with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make:- Plaza, KEI, Finolex or its equivalent as approved by Er-In-Charge					

3.i	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	50	Meter			
3.ii	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	35	Meter			
3.iii	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	5	Meter			
3.iv	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	25	Meter			
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,Findlex or its equivalent as approved by Er-In-Charge					
i	3 x 1.5 sq. mm	15	Meter			
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.ii	5/6 amp Modular switch	3	each			
5.ii	5 pin 5/6 amp socket outlet	3	each			
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			

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			
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 Er-In-Charge	3	each			
9	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Diplast/BEC/ Polyfit.or its equivalent as approved by Engineer-in -charge.					
9.1	25 mm	30	Meter			
10	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required.	30	Meter			
11	Supplying and fixing D-link 8 10/100/1000 ports Easy L2 Switch L2 managed 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-1100-08) Digilink, Cisco/ or its equivalent as approved by Engineer-in-Charge.	1	each			

12	Supplying and fixing Loaded Wall- Wall Mount 2u Dimensions 44 X57 X20 CM Front Glass Door (lited, toughened) with LOCK &KEY, 2PAIRS OF 19" Mounting Rail with U-Marking welded Side walls !U Cable Manager (1) Hardware Packet (1Pkt)3 socket 5amp, power distribution Unit(1NO) .Make:- D-Link(CAT NO NMR-2U-5540-GR-DVR). Cisco, Digi link or its equivalent as approved by Engineer-in-Charge.	1	each		
13	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required.Make :-Anchor (Roma),L&T (Entice), Legrand(Myrius) or its equivalent as approved by Er-In-Charge	1	each		
14	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , GI box 2 module for jack box and GI Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 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.	2	each		
15	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 Er-In-Charge	1	each		
16	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	1	each		


17	Supplying and fixing exhaust fan louver shutter for 300 mm. exhaust fan on the existing wall, painting etc, as required.	1	each			
18	Providing, Installation, testing and commissioning of ceiling fan, 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 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					
18.i	Ceiling Fan 1200 mm sweep	3	each			
19	Providing and Installation of Wall mounting fan of 400 mm sizes i/e hang the same in position on the wall, connections, testing and commissioning etc as required with minimum 3 star rating. Make:- Usha, Bajaj, Crompton or its equivalent as approved by Engineer-in-charge.	1	each			
20	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. Make :-Anchor (Roma classic), L&T(Entice), Legrand(Myrius) or its equivalent as approved by Er-In-Charge	3	each			
21	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 AL916611X) ,wipro, Philips or equivalent Make :-Tisva ,Panasonic Philips or its equivalent as approved by Er-In-Charge(Five year warranty)	7	each			

22	Supplying and fixing Suspension light 5 head floral blown glass with bronze finish chandelier including LED lamp, making connections, testing etc. as required. Make Philips, Jaquar, Wipro or any other approved by Engineer-in-Charge. (Five year warranty)	1	each			
23	Supplying and fixing followig 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 Er-In-Charge(Five year warranty)					
23.i	12W	2	each			
23.ii	15W	4	each			
23.iii	18W	2	each			
24	Supplying and fixing of fancy wall bracket of floral blown glass andsteel, with single holder containing thread type LED lamp holder(s) of all sizes and shapes, complete with all accessories but including led lamp including making connections, testing etc. as required. Make Jaquar, wipro, Philips or its equivalent as approved by Er-In-Charge(Five year warranty)	1	each			

25	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>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 jaguar or its equivalent as approved by E-I-In-Charge(Five year warranty)					
25.i	10 watt	1	each			
26	Supplying and fixing 1.8/2.0 ton invertor split type air conditioner Hot and Cold with vlotage stabilizer 140 V TO 290 V, advanced filter , E saver mode , quit mode, dual display ,auto clean ,anti bacteria filter,jet Cool on/off timer sleep mode compressor cord less remote complete in all respect as per comprising to ISI with latest amendment suitable to operate on 230 volt /240 volt + _ 10 % AC 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 3mrs long 2 nos copper pipe with insulator for inlet and outlet approximately 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A.,C including carrgae of material with in all leads and lift.Make - Daikin (model: FTH160), O Genral/Mitsubsi or equivalent as approved by the Engineer Charge.	1	each			
27	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			

28	Providing and fixing 6 SW/G dia G.I. wire on surface or in recess for loop earthing as required.	30	P/mtr			
29	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.					
29.i	MCBDB 8 WAY	1	each			
29.ii	MCBDB 12 WAY	1	each			
30	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.					
30.i	single pole	10	each			
31	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			

32	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.					
32.i	63 AMP	1	each			
33	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.					
ii	10 litre	1	each			
	Total					


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

SCHEDULE QUANTITY					JOB NO. 26	
					Estimated cost:- Rs. 4,91,939/-	
					Earnest money:- Rs. 9,900/-	
					Time Limit:- One year.	
Name of work: - Construction of Science Lab in Govt, Sr.Sec. School Building at Bassi indistt. Bilaspur (H.P)						
Sr. No.	Discription of Item	Quantity	Rate In fig.	In Words.	Unit	Amount (SH: -
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
1.i	Group C	104			each	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core copper conductor cable in surface/recessed PVC conduit with 2way piano type switch and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.	3			each	
3	Supplying and Fixing following piano type switch/socket on the existing switch box/cover in/c connections etc as required. (i) 5 Amp Switch P/T	7			each	
3.i	3 pin 5/6 amps socket P/T	7			each	
4	Supplying and fixing metal box of 150 mm x75mm x 60 mm 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.	19			each	

5	Supplying and fixing metal box of 180 mm x100 mm x 60 mm deep (nominal size) on surface /recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 Pin 5/6 &15/16amps socket outlet and15/16 amps piano type switch connections painting etc. as required.	16				each	
6	Supplying and fixing computer board 3 Nos 5 Amps switches and metal box 200mmx150mmx75mm for 5 Amps switches and sockets comprising 3mm thick phenolic laminated sheet cover for metal box in/c connections etc as required.	9				each	
7	Wiring for circuit/submain wiring with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.1.5 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required.	127				meter	
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 surface/recessed PVC conduit along with 1 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required	115				meter	
9	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required	35				meter	

10	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HRRF/PVC insulated single core copper conductor cable of same size for earthing as required.					
1	2x10 sq.mm	30				
11	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 (4x10+2x6 sqmm)	10			meter	
12	Supplying and Drawing following size of FRLS PVC insulated copper conductor cable in the existing surface/recessed PVC conduit as required, (3x1.5 sqmm)	53			meter	
13	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: -KEI, POLYCAB, PLAZA or its equivalent as approved by Er-in-charge	35			meter	
14	Supplying and fixing bakelite batten angle holder including connections etc. as required.	18			each	
15	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	31			each	

16	Supplying and fixing surface round/Square type LED 15 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:- Panasonic (Model - PDLM10156BR)/Philips, wipro or its equivalent as approved by Engineer-in-Charge	14			each	
17	Supplying and fixing surface square type LED 36 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:- wipro (Model - CRC010S038HP57GL1)/Philips, Panasonic or its equivalent as approved by Engineer-in-Charge	2			each	
18	Providing and fixing street light LED 25 watts of Bajaj make "CUB" Seriea cat NO. 112906BC1ST 25 Watt LED or its equivalent make with pressure die cast housing with epoxy power coated dark graphite grey colour finish prismatic polycarbonate cover with individual LED lence including conduit pipe bracket nut bolts and connections etc. as required complete in all respects as per best satisfaction of Engineer in charge at site.	2			each	
19	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.					
19.i	Ceiling fan 1200 mm sweep Cat A	22			each	

20	Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM '1125 Air Delivery (CMM) Bajaj make DDxl Model on the existing opening complete with connections etc. as required (Exhaust fan 300mm H/D.	8			each	
21	Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM '1125 Air Delivery (CMM) Bajaj make DDxl Model on the existing opening complete with connections etc. as required. (exhaust fan 300 mm L/D	7			each	
22	Supplying and fixing of following way, single pole and neutral sheet steel MCB DB 240 volts, on surface/recess complete with tinned copper bus bar, wireset, neutral link, earth bar din bar, detachable gland plate blanking plate, cable identification labels interconnections phosphatized and powder painted, including earthing etc. as required.					
22.i	Double Door 8 way	1			each	
22.ii)Double door 12 way	3			each	
23	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 connection etc. as required.	31			each	
24	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 connection etc. as required.					
24.i)Double pole 40 amps cat A	4			each	
25	Supplying and fixing copper strip bus-bars suitable for 63 Amp. 415 volts capacity 4 No. each of cross-sectional area (16mmx3.17mm), in the existing enclosure with all accessories including connections etc. as required:-)	0.45			meter	

26	Supplying and Fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in the existing cubical pannel board drilling holes in cubical pannel making connections etc as reured				
26.i	63 Amp 25 KA	1		each	
27	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation made from (50 mm x 50 mm x 6 mm thick) M.S. angle iron frame, covered with 1.5 mm thick M.S. sheet duly welded on five sides & front side hinged, complete with locking arrangement with sufficient No. vertical and horizontal intermediate switchgear supporting members each of M.S. flat 50mmx6mm thick of suitable length duly welded. The cubical pedestal shall have cable entry box at one or two sides and 4 No. legs of 50mmx50mmx6mm thick M.S. angle iron each 60 cm long including, powder coated painting and bonding to the existing earth etc., the same shall be erected in the 1:2:4 cement concrete plat-form of suitable dimensions 15 cm high from ground level and 45 cm thick. The cubical pedestal shall be 15 cm from the top of cement concrete plat-form:- The panel should be approved /tested from the CPRI lab. & should confirmed to ISI: 64139 I) 300 Deep (Size 600x600 sqmm)	0.36 sqmm		P/Sqm	
28	Supplying and fixing CT coil 500/5 amp with burden of VA 15 accuracy class -1 Make:- Automatic Electric Ltd, L&T, Legrand .	1		each	
29	Supplying and Fixing indicator set RYB with 3 Nos kit Kat (LED Type) to shown the three indicating in the existing pannel complete etc as required. Make L&T, Legrand, ABB or its equivilant as per emtire satisfaction of the Engineer in charge	1		set	
30	Supplying and Fixing of Ammeter inbuilt selector switch CT/PT side programmable Accuracy class1,0,0,5 complete with connection testing and commissioning etc , Make Legrand, L7T, Hager, ABB or its equivilant as per best satisfaction of the Engineer in charge,	1		each	

31	Supplying and Fixing of Voltmeter inbuilt selector switch CT/PT side programmable Accuracy class 1,0,0.5 complete with connection testing and commissioning etc , Make Legrand, L7T, Hagger, ABB or its equivalent as per best satisfaction of the Engineer in charge,	1			each	
32	Supplying and fixing true power make advanced earthing system having copper pipe 2 meter long 50 mm dia with terminal size 50x6 mm , internal strip size 25x3 with 25 Kg compound including exavation of pit and refilling the same and making earthing pit cover 13 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			each	
33	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	20			meter	
34	Supplying and drawing of UTP 4 pair 6 Lan cable in the existing surface/recessed steel/ PVC conduit as required	55			meter	
	Total					


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

SCHEDULE QUANTITY				JOB NO. 27
			Estimated cost:- Rs. 4,91,939/-	
			Earnest money:- Rs. 9,900/-	
			Time Limit:- One year.	

Name of work: - Construction of Science Lab in Govt, Sr.Sec. School Building at Swarghat in Distt. Bilaspur (H.P)
(SH: - Providing E.I there in).

Sr. No.	Discription of Item	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 (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit and earthing the light point with 1.5 Sq.mm. HRRFLS/PVC insulated single core copper conductor cable as required.					
1.i	Group C	104			each	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core cable copper conductor cable in surface/recessed PVC conduit with 2way piano type switch and earthing the light point with 1.5 Sq.mm. HRRFLS/PVC insulated single core copper conductor cable as required.	3			each	
3	Supplying and Fixing following piano type switch/socket on the existing switch box/cover in/c connections etc as required. (i) 5 Amp Switch P/T	7			each	
3.i	3 pin 5/6 amps socket P/T	7			each	

4	Supplying and fixing metal box of 150 mm x 75 mm x 60 mm 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.	19			each	
5	Supplying and fixing metal box of 180 mm x 100 mm x 60 mm deep (nominal size) on surface /recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 Pin 5/6 & 15/16amps socket outlet and 15/16 amps piano type switch connections painting etc. as required.	16			each	
6	Supplying and fixing computer board 3 Nos 5 Amps switches and metal box 200mmx150mmx75mm for 5 Amps switches and sockets comprising 3mm thick phenolic laminated sheet cover for metal box in/c connections etc as required.	9			each	
7	Wiring for circuit/submain wiring with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.1.5 Sq.mm. HFR/L/PVC insulated single core copper conductor cable for earthing as required.	127			meter	
8	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.4 Sq.mm. HFR/L/PVC insulated single core copper conductor cable for earthing as required	115			meter	

9	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	35				meter	
10	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.						
1	2x10 sq.mm	30					
11	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 (4x10+2x6 sqmm)	10				meter	
12	Supplying and Drawing following size of FRLS PVC insulated copper conductor cable in the existing surface/recessed PVC conduit as required, (3x1,5 sqmm)	53				meter	
13	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:-KEI, POLYCAB, PLAZA or its equivalent as approved by Er-in-charge	35				meter	
14	Supplying and fixing bakelite batten angle holder including connections etc. as required.	18				each	

15	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	31			each	
16	Supplying and fixing surface round/Square type LED 15 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:- Panasonic (Model - PDLM10156BR)/Philips, wipro or its equivalent as approved by Engineer-in-Charge	14			each	
17	Supplying and fixing surface square type LED 36 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:- wipro (Model - CRC010S038HP57GL1)/Philips,Panasonic or its equivalent as approved by Engineer-in-Charge	2			each	

18	Providing and fixing street light LED 25 watts of Bajaj make "CUB" Seria cat NO. 112906BCLST 25 Watt LED or its equivalent make with pressure die cast housing with epoxy power coated dark graphite grey colour finish prismatic polycarbonate cover with individual LED lence including conduit pipe bracket nut bolts and connections etc. as required complete in all respects as per best satisfaction of Engineer in charge at site.	2				each	
19	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.						
19.i	Ceiling fan 1200 mm sweep Cat A	22				each	
20	Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM 1125 Air Delivery (CMM) Bajaj make DDxl Model on the existing opening complete with connections etc. as required (Exhaust fan 300mm H/D.	8				each	
21	Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM 1125 Air Delivery (CMM) Bajaj make DDxl Model on the existing opening complete with connections etc. as required. (exhaust fan 300 mm L/D	7				each	
22	Supplying and fixing of following way, single pole and neutral sheet steel MCB DB 240 volts, on surface/recess complete with tinned copper bus bar, wireset, neutral link, earth bar din bar, detachable gland plate blanking plate, cable identification labels interconnections phosphatized and powder painted, including earthing etc. as required.						
22.i	Double Door 8 way	1				each	

22.ii	1) Double door 12 way	3				each	
23	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 connection etc. as required.	31				each	
24	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 connection etc. as required.						
24.i	1) Double pole 40 amps cat A	4					
25	Supplying and fixing copper strip bus-bars suitable for 63 Amp. 415 volts capacity 4 No. each of cross-sectional area (16mmx3.17mm) in the existing enclosure with all accessories including connections etc. as required:-	0.45				each meter	
26	Supplying and Fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in the existing cubical pannel board drilling holes in cubical pannel making connections etc as reired						
26.i	63 Amp 25 KA	1				each	

27	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation made from (50 mm x 50 mm x 6 mm thick) M.S. angle iron frame, covered with 1.6 mm thick M.S. sheet duly welded on five sides & front side hinged, complete with locking arrangement with sufficient No. vertical and horizontal intermediate switchgear supporting members each of M.S. flat 50mmx6mm thick of suitable length duly welded. The cubical pedestal shall have cable entry box at one or two sides and 4 No. legs of 50mmx50mmx6mm thick M.S. angle iron each 60 cm long including, powder coated painting and bonding to the existing earth etc., the same shall be erected in the 1:2:4 cement concrete platform of suitable dimensions 15 cm high from ground level and 45 cm thick. The cubical pedestal shall be 15 cm from the top of cement concrete platform:- The panel should be approved /Tested from the CPRI lab. & should confirmed to ISI: 64139 I) 300 Deep (Size 600x600 sqmm)	0.36 sqmm				P/Sqm	
28	Supplying and fixing CT coil 500/5 amp with burden of VA 15 accuracy class -1 Make:- Automatic Electric Ltd, L&T, Legrand.	1				each	
29	Supplying and Fixing indicator set RYB with 3 Nos kit Kat (LED Type) to shown the three indicating in the existing panel complete etc as required. Make L&T, Legrand, ABB or its equivalent as per entire satisfaction of the Engineer in charge	1				set	
30	Supplying and Fixing of Ammeter inbuilt selector switch CT/PT side programmable Accuracy class 1,0,0,5 complete with connection testing and commissioning etc, Make Legrand, L7T, Hager, ABB or its equivalent as per best satisfaction of the Engineer in charge.	1				each	
31	Supplying and Fixing of Voltmeter inbuilt selector switch CT/PT side programmable Accuracy class 1,0,0,5 complete with connection testing and commissioning etc, Make Legrand, L7T, Hager, ABB or its equivalent as per best satisfaction of the Engineer in charge.	1				each	

32	Supplying and fixing true power make advanced earthing system having copper pipe 2 meter long 50 mm dia with terminal size 50x6 mm , internal strip size 25x3 with 25 Kg compound including exvavation of pit and refiling the same and making earthing pit cover 13 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			each	
33	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	20			meter	
34	Supplying and drawing of UTP 4 pair 6 Lan cable in the existing surface/recessed steel/ PVC conduit as required	55			meter	
	Total					


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

SCHEDULE QUANTITY					JOB NO. 28	
					Estimated cost:- Rs. 4,91,939/-	
					Earnest money:- Rs. 9,900/-	
					Time Limit:- One year.	
Name of work: - Construction of Science Lab in Govt, Sr.Sec. School Building at Namhole indist. Bilaspur (H.P) (SH: - Providing E.I there in).						
Sr. No.	Description of Item	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 and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
1.i	Group C	104			each	
2	Wiring for twin control light point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core cable copper conductor cable in surface/recessed PVC conduit with 2way piano type switch and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.	3			each	
3	Supplying and Fixing following piano type switch/socket on the existing switch box/cover in/c connections etc as required. (i) 5 Amp Switch P/T	7			each	
3.i	3 pin 5/6 amps socket P/T	7			each	

4	Supplying and fixing metal box of 150 mm x75mm x 60 mm 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.	19			each	
5	Supplying and fixing metal box of 180 mm x100 mm x 60 mm deep (nominal size) on surface /recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 Pin 5/6 &15/16amps socket outlet and15/16 amps piano type switch connections painting etc. as required.	16			each	
6	Supplying and fixing computer board 3 Nos 5 Amps switches and metal box 200mmx150mmx75mm for 5 Amps switches and sockets comprising 3mm thick phenolic laminated sheet cover for metal box in/c connections etc as required.	9			each	
7	Wiring for circuit/submain wiring with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.1.5 Sq.mm. HRRFSL/PVC insulated single core copper conductor cable for earthing as required.	127			meter	
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 surface/recessed PVC conduit along with 1 No.4 Sq.mm. HRRFSL/PVC insulated single core copper conductor cable for earthing as required	115			meter	

9	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	35				meter	
10	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.						
1	2x10 sq.mm	30				meter	
11	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 (4x10+2x6 sqmm)	10				meter	
12	Supplying and Drawing following size of FRLS PVC insulated copper conductor cable in the existing surface/recessed PVC conduit as required, (3x1,5 sqmm)	53				meter	
13	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:-KEI, POLYCAB, PLAZA or its equivalent as approved by Er-in-charge	35				meter	
14	Supplying and fixing bakelite batten angle holder including connections etc. as required.	18				each	


15	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	31			each	
16	Supplying and fixing surface round/Square type LED 15 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:- Panasonic (Model - PDLM10156BR)/Philips, wipro or its equivalent as approved by Engineer-in-Charge	14			each	
17	Supplying and fixing surface square type LED 36 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:- wipro (Model - CRC010S038HP57GL1)/Philips, Panasonic or its equivalent as approved by Engineer-in-Charge	2			each	

18	Providing and fixing street light LED 25 watts of Bajaj make "CUB" Seriea cat NO. 112906BCLST 25 Watt LED or its equivalent make with pressure die cast housing with epoxy power coated dark graphite grey colour finish prismatic polycarbonate cover with individual LED lence including conduit pipe bracket nut bolts and connections etc. as required complete in all respects as per best satisfaction of Engineer in charge at site.	2			each	
19	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.					
19.i	Ceiling fan 1200 mm sweep Cat A	22			each	
20	Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM 1125 Air Delivery (CMM) Bajaj make DDXI Model on the existing opening complete with connections etc. as required (Exhaust fan 300mm H/D.	8			each	
21	Supplying and fixing of Exhaust fan (Plastic) with Louver shutter 300mm 1000RPM 1125 Air Delivery (CMM) Bajaj make DDXI Model on the existing opening complete with connections etc. as required. (exhaust fan 300 mm L/D	7			each	
22	Supplying and fixing of following way, single pole and neutral sheet steel MCB DB 240 volts, on surface/recess complete with tinned copper bus bar, wireset, neutral link, earth bar din bar, detachable gland plate blanking plate, cable identification labels interconnections phosphatized and powder painted, including earthing etc. as required.					
22.i	Double Door 8 way	1			each	

22.ii	Double door 12 way	3			each	
23	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 connection etc. as required.	31			each	
24	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 connection etc. as required.					
24.i	Double pole 40 amps cat A	4			each	
25	Supplying and fixing copper strip bus-bars suitable for 63 Amp. 415 volts capacity 4 No. each of cross-sectional area (16mmx3.17mm) in the existing enclosure with all accessories including connections etc. as required:-	0.45			meter	
26	Supplying and Fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in the existing cubical pannel board drilling holes in cubical pannel making connections etc as required					
26.i	63 Amp 25 KA	1			each	

27	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation made from (50 mm x 50 mm x 6 mm thick) M.S. angle iron frame, covered with 1.6 mm thick M.S. sheet duly welded on five sides & front side hinged, complete with locking arrangement with sufficient No. vertical and horizontal intermediate switchgear supporting members each of M.S. flat 50mmx6mm thick of suitable length duly welded. The cubical pedestal shall have cable entry box at one or two sides and 4 No. legs of 50mmx50mmx6mm thick M.S. angle iron each 60 cm long including, powder coated painting and bonding to the existing earth etc., the same shall be erected in the 1:2:4 cement concrete plat-form of suitable dimensions 15 cm high from ground level and 45 cm thick. The cubical pedestal shall be 15 cm from the top of cement concrete plat-form:-The panel should be approved /Tested from the CPRI lab.& should confirmed to ISI: 64139 I) 300 Deep (Size 600x600 sqmm)	0.36 sqmm			P/Sqm	
28	Supplying and fixing CT coil 500/5 amp with burden of VA 15 accuracy class -1 Make:- Automatic Electric Ltd, L&T, Legrand .	1			each	
29	Supplying and Fixing indicator set RYB with 3 Nos kit Kat (LED Type) to shown the three indicating in the exsisting pannel complete etc as required. Make L&T, Legrand, ABB or its equivalant as per emtire satisfication of the Engineer in charge	1			set	
30	Supplying and Fixing of Ammeter inbuilt selector switch CT/PT side programmable Accuracy class1,0,0,5 complete with connection testing and commissiong etc , Make Legrand, L7T, Hagger, ABB or its equivalant as per best satisfication of the Engineer in charge,	1			each	
31	Supplying and Fixing of Voltmeter inbuilt selector switch CT/PT side programmable Accuracy class1,0,0,5 complete with connection testing and commissiong etc , Make Legrand, L7T, Hagger, ABB or its equivalant as per best satisfication of the Engineer in charge,	1			each	

32	Supplying and fixing true power make advanced earthing system having copper pipe 2 meter long 50 mm dia with terminal size 50x6 mm , internal strip size 25x3 with 25 Kg compound including exavation of pit and refilling the same and making earthing pit cover 13 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			each	
33	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	20			meter	
34	Supplying and drawing of UTP 4 pair 6 Lan cable in the existing surface/recessed steel/ PVC conduit as required	55			meter	
	Total					


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

SCHEDULE OF QUANTITY					JOB NO. 29	
					Estimated cost:- Rs. 69,908/-	
					Earnest money:- Rs. 1,400/-	
					Time Limit:- One year.	
Name of Work :- Restoration Of rain damages Building of junior Engineer Section Jamli DISTT Bilaspur (SH:- C/O RCC Slab Cement Concrete, Flooring cement plaster Door window & Painting Etc (SH :- Providing EI there in)						
S. No.	Description of Items	Quantity	Rate In fig.	In Words.	Unit	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with 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	18			each	
2	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.	5			each	
3	Supplying and fixing Bell Push Piano type on the existing switch box/ cover including connections etc. as required.	1			each	
4	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.	5			each	
5	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. (For light plugs to be used in non residential buildings).	2			each	
6	Supplying and fixing metal 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.	3			each	

7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required (2x1.5sqmm)	30				meter	
8	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 (2x4sqmm)	25				meter	
9	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 (4x4sqmm)	10				meter	
10	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 2x10 sqmm	5				meter	
11	Supplying and Fixing Batten Holder in/c connections etc as required complete in all respects	6				each	
12	Supplying and Fixing ding Dong be/electronic musical bell suitable for DC /AC single phase 230 volts etc as required.	1				each	
13	Supplying and fixing Aluminium batten LED 22 watt, 5700k, (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:- panasonic (Model - PBTM17228)/Philips,Panasonic or its equivalent as approved by Engineer-in-Charge	4				each	
14	Supplying and fixing LED Lamp 9 watts E-27 base in the existing batten holder/pendent holder. Make:- Philips, Wipro or its equivalent as approved by Engineer-in-charge.	6				each	

15	Providing, installation, testing and commissioning of ceiling fan with stepped type 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; Make:- Usha (TECHNIX PLUS), Bajaj, Crompton or its equivalent as approved by Engineer-in-charge	4			each	
16	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: Make:- Usha (AEROCLEAN PLUS DBB), Bajaj, Crompton or its equivalent as approved by Engineer-in-charge (300 mm Light Duty)	1			each	
17	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, neutral bus bar, earth bar, din bar, interconnections, and powder painted, including earthing etc. as required. (but without MCB/RCCB/isolator) Make:- L&T, Legrand, Hager, ABB or its equivalent as approved by Engineer-in-charge.					
17.i	Double door-8 way	1			each	
18	Supplying and erection of MCB DP 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; Make:- L&T, Legrand, Hager, ABB or its equivalent as approved by Engineer-in-charge.					
	Double pole	1			each	
19	Supplying and erection of 5 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; Make L&T Legrand, Hager, ABB or its equivalent as approved by Engineer-in-charge.					
19.i	Single pole	5			each	

20	Providing and fixing street light LED 25 watts of Bajaj make "CUB" Series cat NO. 112906BCLST 25 Watt LED or its equivalent make with pressure die cast housing with epoxy power coated dark graphite grey colour finish prismatic polycarbonate cover with individual LED lence including conduit pipe bracket nut bolts and connections etc. as required complete in all respects as per best satisfaction of Engineer in charge at site.	2				each	
Total:-							


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