



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/-

5252-82

Dated:- 29-9-2022

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 **12.10.2022** 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 **10.10.2022** 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 **10.10.2022** 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 Ware House for storage of EVM Machine & VVPATs at Bilaspur (H.P) (SH:- Providing E.I. Balance Work therein.)	1,70,607/-	3,400/-	Six Months.	350/-	Class-D
2	C/O Indoor Auditorium at Bilaspur Distt Bilaspur (SH:- Balance Work of Providing, Installation, Testing and Commissioning of Surveillance system therein).	4,95,100/-	9,900/-	Six Months. .	350/-	Specialized Job
3	C/O Indoor Auditorium at Bilaspur Distt Bilaspur (SH:- Balance Work of Addressable Fire Alarm system and PA System therein).	2,54,076/-	5,100/-	Six Months. .	350/-	Specialized Job
4	C/O State Vigilance and Anti Corruption Bureau Building at Bilaspur .H.P.(SH:- Providing E.I. Balance work therein.)	2,13,904/-	4,300/-	Six months. .	350/-	Class-D
5	Replacement of Damaged Electrical accessories and E.I. in various Govt. Rest Houses and Circuit House under Electrical Sub-Division HP.PWD. Bilaspur (Rest House Shri. Naina Devi	2,10,089/-	4,200/-	Six Months.	350/-	Class-D

	Ji, Rest House Dholra, Rest House Pangain and Circuit House Bilaspur).					
6	C/O Indoor Auditorium Building at Bilaspur Distt. Bilaspur (HP). SH:-PITC of Balance work of Fire Fighting system sprinkler system therein	4,78,786/-	Rs. 9,600/-	Six Months.	350/-	Specialized Job
7	C/O Indoor Auditorium Building at Bilaspur Distt. Bilaspur (HP) SH:-PITC of Balance work of Fire Fighting system Hydrant system therein).	4,97,661/-	10,000/-	Six Months.	350/-	Specialized Job
8	Providing/Dismantling and Re-installation and topping-up of refrigerant etc. of Air-conditioning units installed in HPPWD Circuit House Bilaspur & HPPWD Rest House Dholra, in Distt. Bilaspur (H.P).	2,91,999/-	Rs. 5900/-	Six Months.	350/-	Specialized Job
9	C/O 50 Bedded Hospital at Shri Naina Devi Ji Distt. Bilaspur (H.P.) (SH:- Supplying and laying conduit pipe in 1st Floor therein.)	4,92,350/-	9,900/-	Six Months.	350/-	Class-C
10	C/O MPCC at Samoor Kalan, Distt. Una (H.P) (SH:- Supplying and laying of unarmoured cable 300 Sq. mm 3.5 core for VRV unit therein).	3,08,985/-	6,200/-	Six Months.	350/-	Class-C
11	C/O Health Sub-Centre building at Bharmout Tehsil Bangana District Una (H.P.)(S.H:-Providing E.I. in First Floor)	1,26,951/-	2600/-	Six Months.	350/-	Class-D
12	Providing 2 Nos. Split Type 1.5 ton Air Conditioner in Rest house Patlander, Tehsil Sujampur, Distt. Hamirpur, (H.P)	1,39,920/-	2,800/-	Six Months,	350/-	Specialized Job
13	Construction of additional accommodation (2rooms alongwith stair) case at Govt. High School Bane Di Hatti (Mubarikpur) Tehsil Ghanari, Distt. Una (SH:- Providing E.I. therein)	1,47,263/-	3,000/-	One Year	350/-	Class-D
14	Construction of additional accommodation (2 rooms alongwith stair) case at Govt. High School Gagret Tehsil Ghanari, Distt. Una (SH:- Providing E.I. therein)	1,47,263/-	3,000/-	One Year	350/-	Class-D
15	Construction of additional accommodation (2 rooms alongwith stair) case at Govt. High School Prithipur, Tehsil Ghanari, Distt. Una (SH:- Providing E.I. therein)	1,47,263/-	3,000/-	One Year	350/-	Class-D
16	Construction of Ayurvedic Dispensary building at Mari Tehsil Amb distt. Una (H.P)(SH:- Providing E.I. therein).	4,30,157/-	8,600/-	One year.	350/-	Class-C
17	C/O New store room at PWD R.H. Daulatpur Tehsil Ghanari Distt. Una H.P(SH:-Providing E.I. therein)	1,36,184/-	2,800/-	Six Months.	350/-	Class-D

18	C/o 4 Nos. Class room with varandah at Govt. S. S. S. Sanoli, Distt Una, (HP) (SH:- Providing E.I. therein)	2,98,327/-	6,000/-	One year	350/-	Class-D
19	A/R & M/O of various type and different capacity of Air Conditioners installed in various N.R. Govt. buildings under Electrical sub-Division, HP.PWD., Bilaspur (Swarghat Section) for the year 2022-2023 (w.e.f. 1/08/2022 to 31/07/2023)	48,950/-	1,000/-	One Year.	350/-	Specialized Job
20	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	C/O 4 no. class rooms along with Varandah in Govt. High School Nalanger, at Changer Distt. Hamirpur (H.P) (SH:-Providing E.I Therein.)	1,97,005/-	4,000/-	One year.	350/-	Class-D
22	C/o Junior Engineer office cum residence Section-Kehadroo, at Bhira Distt. Hamirpur, (H.P) (SH:-Prov. E.I. therein)	3,95,617/-	7,900/-	One year.	350/-	Class-C
23	Replacement of damaged accessories and E.I. in various NR Govt. buildings Rest house Nadaun, G.F kitchen, Dinning, set no 1, F.F Lobby, Set No 4, 5 Court Complex Nadaun F.F. Bar room, under ESD Hamirpur (H.P)	94,275/-	1900/-	Six Months.	350/-	Class-D
24	C/O Type IV Qtr 1 No. for Distt Planning Officer in Pooled colony at Hamirpur Distt Hamirpur, (H.P) (SH:- Providing E.I therein)	2,99,494/-	6,000/-	One year.	350/-	Class-D
25	Providing special repair in Judicial court complex Hamirpur Tehsil & Distt Hamirpur H.P	2,36,821/-	4,800/-	Six Months.	350/-	Class-D
26	A/R&M/O of various type and different capacity of Air Conditioners installation in various N.R. Govt. building Electrical Sub-Division, HP.PWD., Bilaspur (Gumarwin Section) for the year 2022-2023 (w.e.f. 1/07/2022 to 30/06/2023).	97,761/-	2,000/-	One Year.	350/-	Specialized Job
27	Replacement of damaged accessories in various non-residential Buildings Rest House Samirpur, Rest House Sujanpur and HP,PWD Division office Tauni Devi, under ESD Hamirpur, (Sujanpur Section)	1,04,833/-	2,100/-	Six Months.	350/-	Class-D

28	Replacement of damaged accessories and E.I. in various Residential Govt. buildings i.e. ADJ Residence, CJM Residence, ACJM residence, pooled colony Qtrs., E.E (B&R) Residence, PWD Colony Qtrs. under ESD Hamirpur Distt Hamirpur (HP).	1,36,136/-	2,800/-	Six Months.	350/-	Class-D
29	C/o Circuit House building at Una Distt. Una (H.P) (SH:- Providing 05 Nos. Air Conditioners in the VIP suits therein).	4,62,992/-	9,300/-	45 Days	350/-	Specialized Job

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 the 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
HP PWD, Una

SCHEDULE OF QUANTITY

Job No. 1

Estimated Cost:-
Earnest Money:-
Time:-

Rs. 1,70,607/-
Rs. 3,400/-
Six Months.

Name of Work:- C/O Ware House for storage of EVM Machine & VVPATs at Bilaspur H.P.(SH:-Providing E.I. Balance Work therein.)

Sr. No.	Quantity	Qty.	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.					
1.01	Group C	6.00	Each			
2	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	7.00	Each			
3	Supplying and fixing suitable size GI box with modular plate and cover in FRLS 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.	13.00	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 Make:- Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
4.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	60.00	Mtr.			

4.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	58.00	Mtr.				
4.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	10.00	Mtr.				
5	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 Make:- Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge						
5.01	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	8.00	Mtr.				
6	Providing, Installation, testing and commissioning of ceiling fan without regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha(TECHNIX PLUS), Bajaj, Crompton or its equivalent as approved by Er-in-charge						
6.01	Ceiling Fan 1200 mm sweep	1.00	Each				
7	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 Jaquar or its equivalent as approved by Engineer-in -charge.(Five year warranty)						

01	10 watt		6.00	Each				
7.02	22 watt		1.00	Each				
8	Supplying and fixing batten/ angle holder including connection etc. as required. Make :- Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge		2.00	Each				
9	Supplying and Fixing two module stepped electronic fan regulator on the existing modular plate switch box in/c connections but excluding modular plate etc		1.00	Each				
10	Supplying and fixing D-link DGS-1100-24V2 24port 10/100/1000Mbps 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 Digilink, Cisco		1.00	Each				
11	Supplying and fixing Loaded Wall- Wall Mount 4u x55o wx4 Front Glass Door(tinted,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(INO) . Make:- D-Link. Cisco, Digi link		1.00	Each				
12	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge							
12.01	MCBDB 6 WAY		1.00	Each				
12.02	MCBDB 8 WAY		1.00	Each				

13	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.					
13.01	Single pole	6.00	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.	1.00	Each			
15	Supplying and fixing of integral CFL Post Top Lantern of following capacity, cast aluminium spigot, spun aluminium canopy, opal acrylic diffuser, complete with all accessories but excluding CFL lamp including making connections, testing etc. as required.					
15.01	Gate post top lantern	3.00	Each			
16	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 .	8.00	P/Mtr.			
17	Supplying and fixing L & T or its equivalent make Manual Changeover Switch in Sheet Steel Enclosure 250 Amp Type CO3-250 of L & T make cat No CO32500SOO with connection, etc. as required complete in all respect..Make:- L & Tor its equivalent as approved by Engineer-in-Charge.	1.00	Each			

18	Supplying and fixing L & T or its equivalent make Manual FN-TPN S D-F in Sheet Steel Enclosure 250 Amp Type FN 250 TPN of L & T make cat No SK90489 with connection, etc. as required complete in all respect..Make:- L & Tor its equivalent as approved by Engineer-in-Charge.	1.00	Each			
19	Supplying and erection of 25 amps, 15 KA breaking capacity, 440 volts, 'C' curves, miniature circuit breaker of pole Four pole in the existing MCB DB complete with connections etc. as required:-Make L&T, Make Cat No.BB40250C, Hager,ABB or its equivalent as approved by Engineer-in -charge.	1.00	Each			
20	Supplying and erection of SS Enclosure for MCCBs suitable upto 125 amps, 36 KA breaking capacity MCB DB complete with connections etc. as required:-Make L&T, Cat No.CM909960000, or its equivalent as approved by Engineer-in -charge.	1.00	Each			
21	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 Engineer-in -charge.	1.00	Each			
G.Total:-						


 Executive Engineer,
 Electrical Division,
 HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 2

Estimated Cost:- Rs. 4,95,100/-
 Earnest Money:- Rs. 9,900/-
 Time:- Six Months.

Name of Work:- C/O Indoor Auditorium at Bilaspur Distt Bilaspur(SH:- Balance Work of Providing,Installation,Testing and Commissioning of Surveillance system therein).					
Sr. No.	Quantity	Qty.	Unit	Rate in figure.	Rate in words.
1	Supply, Installation, Testing and Commissioning of 4MP IP Dome camera with specifications as follow: Sensor: The camera should be equipped with a minimum of 1/3" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects. Resolution: Minimum 2688 x 1520 for high definition video quality. Frame Rate: The camera should capture images at a frame rate of 25/30fps @ 4M (2560 x 1440) so as to give a swift video output even in case of fast moving objects. Video Compression: H.265+, H.265, H.264+, H.264, Electronic Shutter Speed: Auto/Manual, 1/3-1/1000000s; S/N Ratio: More than 50dB; Lens: The camera should be provided with an OEM fitted 3.6 mm Fixed lens or better with angle of view Horizontal: 84.0°, Vertical: 55.0°, Diagonal: 100.0°; Privacy Masking: Camera should support up to 4 areas; Minimum Illumination: Color 0.01 Lux @ F1.6, 0Lux/F1.6(IR on); ICR: The camera shall incorporate a physical ICR filter for quality images both during day and night; IR Distance: The camera should have inbuilt IR and cover distance up to 30 Mtr. or above; Video Streaming: The camera should output a master and a slave stream that are individually configurable. Should support Triple Streaming, ROI Support: The Camera should allow at least 2 sections of the camera view to be streamed separately for distinguished viewing and recording. Backlight Compensation: BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source. Furthermore it should give the capability to configure these streams individually; Wide-Dynamic-Range: The camera should give a WDR range of minimum 120 dB Real WDR (Must be Hardware driven); Noise Reduction: 3D-DNR; Camera Tampering: The camera shall provide real time tampering protection by means of alerts generated at the software; Pre/Post Event Buffering: The camera should support a least of 3 seconds of pre & post event buffering; Event Notification: Through Relays, E-Mails or FTP; Network: HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP; ONVIF (Profile S, Profile G); Security: Password protection, HTTPS (SSL, TLS), IP filtering, IEEE 802.1X, Others: Exposure Control, AGC, White Balance; Micro SD Slot: Should support up to a maximum of 256GB micro-SD; Video Content Analytics supported by Camera: Motion detection, Tripwire, Intrusion, Abandoned/Missing, Scene Change, Crossing line, Object removal/Network Ethernet: RJ-45 (10/100Base-T), Event Notification: Video tampering, Network disconnection, IP address conflict, Illegal Access,Storage anomaly; Network Compatibility: ONVIF(Profile S/Profile G),CGI/P2P; Power Source: The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible; Smart Phone: It should support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC; Operation Temperature/Humidity: -30 °C to 60 °C / Less than 95% RH; Weather Proof Standard: IP67 rated weather proofing standards, Vandal Proof: IK10 Vandal resistance; Open Protocol: ONVIF Profile S or higher; Certifications: UL,FCC ,CE, ISO certified.	15.00	Each		
2	Supply, Installation, Testing and Commissioning of 4MP IP Bullet camera with specifications as follow: Sensor: The camera should be equipped with a minimum of 1/3" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects. Resolution: Minimum 2688 x 1520 for high definition video quality. Frame Rate: The camera should capture images at a frame rate of 25/30fps @ 4MP (2560 x 1440) so as to give a swift video output even in case of fast moving objects; Video Compression: H.265+, H.265, H.264+, H.264, Electronic Shutter Speed: Auto/Manual, 1/3-1/1000000s; Audio Compression: G.711a/G.711u; S/N Ratio: More than 50dB; Lens: The camera should be provided with an OEM fitted 6mm Fixed lens or better with angle of view H.55° V.31°; Privacy Masking: Camera should support up to 4 areas; Minimum Illumination: Color 0.08Lux/F2.0, 0Lux/F2.0(IR on); ICR: The camera shall incorporate a physical ICR filter for quality images both during day and night; IR Distance: The camera should have inbuilt IR and cover distance up to 80 Mtr. or above; Video Streaming: The camera should output a master and a slave stream that are individually configurable. Should support Triple Streaming, ROI Support: The Camera should allow at least 2 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore it should give the capability to configure these streams individually; Backlight Compensation: BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source; Wide-Dynamic-Range: The camera should give a WDR range of minimum 120 dB Real WDR (Must be Hardware driven); Noise Reduction: 3D-DNR; Camera Tampering: The camera shall provide real time tampering protection by means of alerts generated at the software; Pre/Post Event Buffering: The camera should support a least of 3 seconds of pre & post event buffering; Event Notification: Through Relays, E-Mails or FTP; Network: HTTP, HTTPS, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP; Security: Security Password protection, HTTPS (SSL, TLS), IP filtering, IEEE 802.1X; Micro SD Slot: Should support up to a maximum of 128GB micro-SD; Others: Exposure Control, AGC, White Balance; Video Content Analytics supported by Camera: Motion detection, Tripwire, Intrusion, Abandoned/Missing, Scene Change, Crossing line, Object removal; Network Ethernet: RJ-45 (10/100Base-T);Event Notification: Video tampering, Network disconnection, IP address conflict, Illegal Access,Storage anomaly; Alarm In/Out: 1/1 channel In/Out; Audio In/Out: 1/1 so as to equip the camera with 2-way audio; Network Compatibility: ONVIF(Profile S/Profile G),CGI/P2P; Power Source: The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible; Smart Phone: It should support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC; Operation Temperature/Humidity: -30 °C to 60 °C / Less than 95% RH; Weather Proof Standard: IP67 rated weather proofing standards; Open Protocol: ONVIF Profile S or higher; Certifications: UL,FCC ,CE, ISO certified (Makes: Bosch/Panasonic/CP Plus/Axis/Mobotix/Avigilon)	15.00	Each		

3	Supplying and fixing of 4 Pair, Cat 6 UTP Cable in existing Conduit Complete as Required (Makes D-Link/Molex/Beddon)	300.00	Metre		
4	Supplying and fixing of 25 mm PVC Conduit complete as required	300.00	Metre		
5	Supplying and fixing of HDMI Cable 3 mtrs length.	1.00	Each		
G.Total:-					


 Executive Engineer,
 Electrical Division,
 HPPWD, Una.

SCHEDULE OF QUANTITY

Job No. 3

Estimated Cost:- Rs. 2,54,076/-
Earnest Money:- Rs. 5,100/-
Time:- Six Months.

Name of Work:- C/O Indoor Auditorium at Bilaspur Distt Bilaspur (SH:- Balance Work of Addressable Fire Alarm system and PA System therein).					
Sr. No.	Quantity	Qty.	Unit	Rate in Fig.	Rate in Words.
1	Supply Installation and Commissioning of UL and FM approved Intelligent Addressable Multicriteria Smoke detector having responsiveness of photoelectric, thermal (Rate-of-Rise and Fixed), Built-in isolation (inbuilt fault isolator in detector), ionization technology and false alarm resistance along with standard base. The detector shall be Polarity insensitive, dust- resistant photoelectric chamber, Automatic environment compensation, field programmable as rate-of- rise or fixed temperature. The detector shall have Tri-color detector-status light-emitting diode (LED) with 360° view. The detector shall be approved by UL, ULC, FM, CSFM & NYC Fire Department. complete the work upto the entire satisfaction of Engineer In Charge.	62.00	Each		
	Make: Siemens Cerberus / Bosch / Schneider Electric (ESMI) / Honeywell XLS3000				
					G. Total:-


Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 4

Estimated Cost:- Rs. 2,13,904/-
 Earnest Money:- Rs. 4,300/-
 Time:- Six Months.

Name of Work:- C/O State Vigilance and Anti Corruption Bureau Building at Bilaspur .H.P.(SH:- Providing E.I. Balance work therein.)						
Sr. No.	Quantity	Qty.	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 M.S. 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	27.00	Point			
2	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.Make :- Anchor (Roma classic).L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in -charge.	1.00	Each			
3	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 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 as approved by Engineer-in -charge.	7.00	Each			
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.Make :- Anchor (Roma classic).L&T (Entice),Legrand(Myrius) or as approved by Engineer-in -charge.	8.00	Each			

	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 PVC conduit as required. Make:-Plaza,KEI,Finolex or its equivalent as approved by Engineer-in -charge.					
5.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	70.00	Meter			
5.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	50.00	Meter			
5.03	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	25.00	Meter			
5.04	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	30.00	Meter			
6	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, Jaquar or its equivalent as approved by Engineer-in -charge.(Five year warranty)					
6.01	22 watt	2.00	Each			
7	Supplying and fixing of following watts surface/Recess round type LED downlight ,6000k , and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in -charge.(Five year warranty)					
7.01	20W	16.00	Each			
8	Supplying and fixing batten/ angle holder including connection etc. as required. Make :-Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge	3.00	Each			

	Providing, Installation, testing and commissioning of ceiling fan without regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make:- Usha(TECHNIX PLUS), Bajaj, Crompton or its equivalent as approved by Engineer-in-charge						
9.01	Ceiling Fan 1200 mm sweep	4.00	Each				
10	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 Engineer-in-charge.	1.00	Each				
11	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(Enice), Legrand(Myrius) or its equivalent as approved by Engineer-in-charge.	4.00	Each				
12	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge						
12.01	MCBDB 8 WAY	1.00	Each				
12.02	MCBDB 12 WAY	1.00	Each				

3	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.							
13.01	single pole	16.00	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.	2.00	Each					
15	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation, made from 1.6 mm thick M.S. sheet duly fabricated in a segregated manner for housing of switch fuse units, by welding each compartment on five sides & front side hinged, complete with locking arrangement, with sufficient No. vertical and horizontal intermediate switchgear housing compartments. The cubical pedestal shall have cable entry box at one or two sides, with epoxy powder coated approved paint and bonding to the existing earth etc. The same shall be erected in the 1:2:4 cement concrete plat-form of suitable dimensions 15 cm high from ground level and 45 cm thick. or hinged on wall. The cubical pedestal shall be 15 cm from the top of cement concrete plat-form:-1100mm x 750mm x 300mm deep (nominal) including, MCCB 80-100 Amp with thermal Magnetic Release = 1 No. Bus Bar 100Amp. = 4 mtr. .Changeover Switch 100 Amp=1 No. Phase indicator= 3Nos, Selector switch =2Nos Digital Ammeter = 1No, Digital Volt Meter= 1No, CT Coil =3Nos and internal control wiring etc. as required complete in all respect.	1.00	Each					
G.Total:-								


Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 5

Estimated Cost:- Rs. 2,10,089/-
Earnest Money:- Rs. 4,200/-
Time:- Six Months.

Name Of Work:-Replacement of Damaged Electrical accessories and E.L. in various Govt.Rest Houses and Circuit House under Electrical Sub-Division HP.PWD. Bilaspur.(Rest House Sh.Naina Devi Ji,Rest House Dholra ,Rest House Pangain and Circuit House Bilaspur).						
Sr. No.	Quantity	Qty.	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 poin twith 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1.01	Group C	11.00	Each			
2	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	3.00	Each			
3	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.	4.00	Each			
4	Wiring for circuit/submain wiring alongwithearthwrewith the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required.Make:-Plaza,KEI,Finolex or its equivalent as approved by Engineer-in -charge.					
4.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	20.00	Metre			
4.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	40.00	Metre			

4.03	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	4.00	Metre			
4.04	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	6.00	Metre			
5	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 Jaquar or its equivalent as approved by Engineer-in -charge.(Five year warranty)					
5.01	22 watt	17.00	Rach			
6	Supplying and fixing of following watts surface/Recess round type LED downlight ,6000k , and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion < 10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Engineer-in -charge.(Five year warranty)					
6.01	15W	12.00	Each			
7	Supplying and fixing batten/ angle holder including connection etc. as required. Make :- Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge	9.00	Each			
8	Providing, Installation, testing and commissioning of ceiling fan without regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required with minimum 3 star rating: Make :- Usha (TECHNIX PLUS), Bajaj, Crompton or its equivalent as approved by Er-in-charge					

6.01	Ceiling Fan 1200 mm sweep	5.00	Each			
9	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 Engineer-in -charge.	2.00	Each			
10	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			
11	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). Make L&T, Legrand, Hager or its equivalent as approved by Engineer-In-Charge					
11.01	MCB DB 8 WAY	1.00	Each			
12	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.					
12.01	Single pole	6.00	Each			
13	Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, "C" curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:- Make L&T, Hager, ABB or its equivalent as approved by Engineer-in -charge.	2.00	Each			

14	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required:-Make:-Usha(Model Mist 25 litre),Bajaj,Recold or its equivalent as approved by Er-in-charge	4.00	Each			
15	Supplying and fixing of LED Bulb following watts 6500 K E-27 ,900 Lumens 240 volts AC,supply 50 HZ in the existing batten holder,pendent holder,wall bracket & bulk head fitting etc, as required:Make TISVA ,wipro,philips or its equivalent as approved by Engineer-in -charge.(Five year warranty)					
15.01	9 Watt	28.00	Each			
16	Providing & Laying of one number aluminium conductor,PVC insulated and PVC sheathed armoured/XLPE power cable,1.1 grade of 2 core 6sqmm as required.Make:-KEI,POLYCAB,PLAZA or its equivalent as approved by Engineer-in-Charge.	200.00	Metre			
17	S/F of LED 25 watt street Light(Five Year Warranty)Luminaire of die cast AL housing with IP diffisur pipe mounting with specification i.e. power factor >9, and efficacy>100Lumans per watt,CRI>80 suitable for input voltage: AC 220-240V,50/60 Hz.Complete with all accessories,connection,testing and commissioning etc. as required. Make:-Panasonic,Jaquar/ Philips,Wipro or its equivalent as approved by the Engineer-in Charge.	3.00	Each			
G.Total:-						


 Executive Engineer,
 Electrical Division,
 HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 6

Estimated Cost:- Rs. 4,78,786/-
Earnest Money:- Rs. 9,600/-
Time:- Six Months.

Name of Work:- C/O Indoor Auditorium Building at Bilaspur Distt. Bilaspur (HP).SH:- (PITC of Balance work of Fire Fighting system sprinkler system therein).						
Sr. No.	Quantity	Qty.	Unit	Rate in Fig.	Rate in Words.	Amount
1	Providing, laying, jointing and testing in following sizes of MS Class 'C' (heavy class) pipes Conforming to IS: 1239/3589 with accessories like fittings including tees, elbows, reducers, flanges gaskets, G.I. nus, blots complete with all accessories as required.					
1.01	25 mm dia	300.00	Metre			
1.02	40 mm dia	90.00	Metre			
1.03	50 mm dia	61.00	Metre			
2	Providing Cast iron /steel Foot Valve Confirming to type P.N 1.6 of I.S 13095-1991 Complete with Flanges bolt ,nuts ,gasket etc. As per table 'E' specification complete in all respect hydraulically test to 20 K./sqcm. Make SANT,ZOLOTO,LEADER					
2.01	150 mm	2.00	Each			
2.02	Providing and Fixing Chilly Clamp with tie rod ,Fashner complete in all respect.					

2.03	25 mm		140.00	Each			
2.04	40 mm		32.00	Each			
2.05	50 mm		26.00	Each			
2.06	65 mm		18.00	Each			
2.07	80 mm		19.00	Each			
2.08	100 mm		26.00	Each			
3	Earth work excavation by mechanical means(Hydraulic excavator)/manual means over area(exceeding 30cm in depth,1.5m in width as well as 10sq. on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5m as directed by the Engineer-in-charge.		134.00	P/Cum.			
G. Total:-							


 Executive Engineer,
 Electrical Division,
 HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 7

Estimated Cost:- Rs. 4,97,661/-
 Earnest Money:- Rs. 10,000/-
 Time:- Six Months.

Name of Work:- C/O Indoor Auditorium Building at Bilaspur Distt. Bilaspur (HP).SH:-(PITC of Balance work of Fire Fighting system Hydrant system therein).						
Sr. No.	Quantity	Qty.	Unit	Rate in Fig.	Rate in Words.	Amount
1	Providing, laying, jointing and testing in following sizes of MS Class 'C' (heavy class) pipes Conforming to IS: 1239/3589 with accessories like fittings including tees, elbows, reducers, flanges gaskets, G.I. nus, blots complete with all accessories as required.					
1.01	80 mm dia	50.00	Each			
1.02	100 mm dia	36.00	Each			
1.03	150 mm dia	42.00	Each			
2	Providing and fixing angle sport for MS ring line Pipe For Bountry wall .size 32x5	295.00	Each			
3	Providing fixing,testing and commissioning of 15mmdia chorme furnihsed sprinkler head with quartz type bulb, set to opreate at 68 degree C complete as per specification,sprinkler to be installed using wrench for each type of sprinkler up right type automatic sprinkler (UL Listed)	113.00	Each			
G. Total:-						


 Executive Engineer,
 Electrical Division,
 HPPWD.,Una.

SCHEDULE OF QUANTITY

Job No. 8

Estimated Cost:-
Earnest Money:-
Time:-

Rs. 2,91,999/-
Rs. 5,900/-
Six Months.

Name of Work:- Providing/Dismantling and Re-installation and topping-up of refrigerant etc. of Air-conditioning units installed in HPPWD Circuit House Bilaspur & HPPWD Rest House Dholra, in Distt. Bilaspur (H.P).						
Sr. No.	Quantity	Qty.	Unit	Rate in Fig.	Rate in Words.	Amount
1	Supplying and fixing 1.5 ton inverter split type air conditioner 4 Star Rating Hot and Cold with voltage stabilizer 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 out door unit of split type A,C including carriage of material with in all leads and lift. Make -Daikin (model:FTHT50), O Genral/Mitsubsi or equivalent as approved by the Engineer Charge.	1.00	Each			
2	Supplying and fixing 1.8/2.0 ton inverter split type air conditioner 4 Star Rating Hot and Cold with vlotage 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 3mtrs long 2 nos copper pipe with insulator for inlet and outlet approximatey 3 mtrs long and M.S power coated frame /stand for erection of out door unit of split type A,C including carriage of material with in all leads and lift.Make -Daikin (model:FTHT60), O Genral/Mitsubsi or equivalent as approved by the Engineer Charge.	2.00	Each			

3	Dismantling, re-installation, testing and commissioning of 1.5/2 Ton capacity split type air-conditioning outdoor units as required complete in all respects and as per directions of Engineer-in-charge.	6.00	Per Job			
4	Providing & fixing of extra copper tubes for refrigerant and condensate (1/4" x 1/2") for 1.5 T.R. split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.	12.00	Per Meter			
5	Checking leakage, testing with nitrogen gas and vacuumation of ductable air-conditioning unit as required complete in all respects and to the best satisfaction of Engineer-in-charge.	6.00	Each			
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 .	8.00	P/Mtr			
Total:-						


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

SCHEDULE OF QUANTITY

Job No. 9

Estimated Cost:- Rs. 4,92,350/-
Earnest Money:- Rs. 9,900/-
Time:- Six Months.

Name of work :- C/O 50 Bedded Hospital at Shri Naina Devi Ji Distt. Bilaspur . (H.P.) (SH:- Supplying and laying conduit pipe in 1st Floor there in.)						
Sr. No.	Quantity	Qty.	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. Make:- BEC,AKG NIO or its equivalent make as approved by the Engineer-in-charge.					
1.01	25 mm. dia	1450.00	P/mtr.			
2	Supplying and fixing of following sizes of PVC 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.					
2.01	25 mm. dia	1000.00	P/mtr.			
G.Total :-						


Executive Engineer,
Electrical Division,
HPPWD, Una.

SCHEDULE OF QUANTITY

Job No.10

Estimated Cost:- Rs. 3,08,985/-
Earnest Money:- Rs. 6,200/-
Time:- Six Months.

NAME OF WORK:- C/O MPCC. At Samoor kalan, Distt. Una (HP) (SH:- S/Laying of unarmoured cable 300 sq. mm. 3.5 core for VRV. Unit therein)						
Sr. No.	Quantity	Qty.	Unit	Rate in Fig.	Rate in Words.	Amount
1	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, Unarmoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- (Polycab, Finolex, L&T, KEI make)					
1.01	UnArmoured cable 300 sq.mm. (3.5 Core)	75.00	P/mtr.			
2	supplying and fixing of following sizes of PVC conduit 2.0 mm thick along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Diplast, Polycab make)					
2.02	50 mm.dia	15.00	P/mtr.			
3	Supplying and laying 6 SW/G G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	150.00	Each			
Total:						


Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

Job No.11

Estimated Cost:-
Rs. 1,26,951/-
Earnest Money:-
Rs. 2,600/-
Time:-
Six Months.

NAME OF WORK:-C/O Health Sub-Centre building at Bharmout Tehsil Bangana District Una (H.P.) (S.H:-Providing E.I. in First Floor)

Sr. No.	Quantity	Qty.	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 (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.(Make:-Legrand (Myrius),L&T(Oris/Entice),Anchor,SSK					
1.01	Group A	18.00	P/Point			
2	Wiring for twin control light point with 1.5 sq.mm FRLSPVC insulated copper conductor single core cable insurface / recessed steel conduit, 2 way piano type switch,phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable etc. as required.(Make:-Legrand (Myrius),L&T(Oris/Entice),Anchor,SSK					
2.01	Group A	2.00	P/Point			
3	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.(Make:-KEI,Anchor,SSK)	25.00	P/Mtr			
4	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.(Make:-KEI,Anchor,SSK)	25.00	P/Mtr			
5	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.(Make:-KEI,Anchor,SSK)					
5.01	2x1.5 Sq. mm.	60.00	P/Mtr			
5.02	2x6.0 Sq. mm.	12.00	P/Mtr			

6	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. (Make:-KEI,Anchor,SSK)				
6.01	3x1.5 Sq. mm.	22.00	P/Mtr		
7	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required. (Make:- L&T/Anchor/Philips.	1.00	Each		
8	Supplying and fixing Metal box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. (Make:-Legrand (Myrius), L&T(Oris/Entice), Anchor(Roma plus)	7.00	Each		
9	Supplying and fixing Metal box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. (Make:-Legrand (Myrius), L&T(Oris/Entice), Anchor(Roma plus)	5.00	Each		
10	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-				
10.01	Single pole. Cat-A. Makes:- L&T/Legrand/Schneider.	8.00	Each		
11	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
11.01	40 Amps. Cat-A. Makes:- L&T/Legrand/Schneider/Havell	1.00	Each		
12	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
12.01	40 Amps. Cat-A. Makes:- L&T/Legrand/Schneider/Havell	1.00	Each		
13	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-				
13.01	Double door-12 way. Makes:- L&T/Legrand/Schneider/Havell.	1.00	Each		

[illegible]

SCHEDULE OF QUANTITY

Job No.12

Estimated Cost:- Rs. 1,39,920/-
 Earnest Money:- Rs. 2,800/-
 Time:- Six Months.

Name of work :- Providing 2 nos Split Type 1.5 ton Air conditioner in Rest house Patlander Tehsil Sujanpur Distt Hamirpur H.P

Sr. No.	Description of Items	Quantity	Unit	Rate	In fig.	In words.	Amount
1	SITC 1.5 ton inverter split type air conditioner Hot and Cold four star rating with voltage stabilizer 140V 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 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 leads and lift. Make -Daikin (model FHT50), O General/Mitsubishi or equivalent as approved by the Engineer Charge.	2.00	Each				
2	Supplying and drawing copper conductor 3 core 4 Sqmm industrial cables & PVC insulated, PVC round sheathed multicore industrial Cables as required complete in all respect.	6.00	Mtr.				
3	Providing, laying and fixing of drain condensate drain water pipe with all necessary fitting for all type A.C as required complete in all respect.	10.00	Mtr.				
G.Total:-							

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

SCHEDULE OF QUANTITY

Job No.13

Estimated Cost:- Rs. 1,47,263/-
Earnest Money:- Rs. 3,000/-
Time:- One Year.

Name of work: - Construction of additional accommodation (2rooms alongwith stair) case at Govt. High School Bane Di Hatti (Mubarikpur) Tehsil Ghanari, Distt. Una HP (SH:- Providing E.I. there in).						
Sr. No.	Description of Items	Quantity	Unit	Rate	In fig.	In words.
1	Wiring for light point/ fan point / exhaust fan/ call bell point with 1.5 sq.mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (Flexible) copper conductor cable in surface/ recessed steel conduit and earthing the light point with 1. 5sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. (Make:- Legrand , L&T ,Anchor)					
1.01	Group C	29.00	Each			
2	Wiring for power plug with 2x4 sq.mm. PVC insulated hear resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/ recessed steel conduit along with 1 NO. 2 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI /Plaza make)	14.00	Per Metre			
3	Wiring for power plug with 4x4 sq.mm. PVC insulated hear resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 NO. 4 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI /Plaza make)	10.00	Per Metre			
4	Wiring for circuit/ sub main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. (KEI, Anchor, Finolex/Plaza make)					
4.01	2x1.5sq.mm.	38.00	Per Metre			
4.02	2x10sq.mm.	1.00	Per Meter			

5	Supplying and Drawing following size of PVC insulated, heat resistant, flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in existing surface/recessed, steel/PVC conduit as required. a) 3x1.5sq.mm. (KEI, Anchor, Finolex make)	12.00	Per Metre			
6	Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required.(SSK/Anchor/L&T)					
6.01	S.P. 5/ 6 Amps one way switch, piano type.	4.00	Each			
6.02	5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.	4.00	Each			
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recessed 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, connection, painting etc. as required. (SSK/anchor/L&T)	2.00	Each			
8	Supplying and fixing bakelite batten /angle holder including connections etc. as required.	6.00	Each			
9	Supplying and erection of 6Amp to 32Amps 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.Category-A.(Haggar,ABB,L&T make)	5.00	Each			
10	Supplying and erection of 40/50/63Amps 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. Double pole Category-A.(Haggar,ABB,L&T make)	1.00	Each			
11	Supplying and fixing of 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. a) 40Amp Category-A.(Haggar,ABB,L&T make)	1.00	Each			
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface/recess, complete with tinned copper bus bar, wire-set neutral link, earth bar, din bar, detachable gland plate blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required including carriage of material with in all leads and lifts.					

12.01	12 way Double door (Haggar,ABB,I&T make)	1.00	Each				
13	Earthing with G.I. earth pipe 4.5 meter long and 40 mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke salt) complete as required.	1.00	Per Set				
14	Extra for using salt and charcoal for pipe earth electrode complete as required including carriage of material with in all leads and lifts.	1.00	Per Set				
15	Supplying and laying 6SWG G.I. wire at 0.50 meter below ground level for earth electrode conductor including soldering etc. as required. Including carriage of material with in all leads and lifts.	30.00	Per Metre				
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:- (CromptonVWHE ISI mark/Usha-Technixplus BEE 3star/ Bajaj 3 Star rated						
16.01	Ceiling Fan 1200 mm sweep.	8.00	Each				
17	Supplying and fixing fan box made of M.S. sheet with iron rod Hook 12mm in place of junction box complete with Bakelite Round sheet as required.	8.00	Each				
18	Providing and fixing LED surface/pendent mounting Tube fixture 36 watts LED batten anodized aluminium housing PC diffuser with PC end caps,spring steel clamps for surface mounting arrangement and it should be compatible with specifications i.e.Power factor >0.9,Harmonic distortion <10% & efficacy >100 Lumen per watts,CRI >80 ,5700 K suitable for input voltage 220-240 Volts,50 HZ, Length 1175X30X36 mm.complete with connections and as per best satisfaction of Engineer-in-Charge complete as required.(Panasonic Harrow AI Code No.PBTM08368/Philips/Wipro make)	13.00	Each				
19	Providing and fixing LED streetlight 30watts CCT 5700K ,CRI>80,Surge rating 5kv, IP 66 , input voltage140V-270v,50Hz,A.C.Supply with M.S.bracket 62 mm.dia with die cast aluminium housing with IP diffuser on the existing pole including connections complete in all respects and best satisfaction of Engineer -in-charge at site (Panasonic Cat.NoPSTM27308XX/Philips/Wipro make)	2.00	Each				
20	Supplying and fixing of sub main wiring with 10 sq.mm. weather proof twin core aluminium conductor cable on the G.I.bearer wire etc.as required..(Polycab,Havells,Finolex)	40.00	P/mtr.				

21	Supplying and fixing LED Lamp 9 watts ,825 Lumens 240 volts AC supply 50 Hz in the existing batten holder,pendent holder,wall bracket & bulk head fitting etc, as required.(Philips Ace Saver HSN CODE 85395000/Tisva/Panasonic make)	6.00	Each			
G.Total						


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

SCHEDULE OF QUANTITY

Job No.14

Rs. 1,47,263/-
Rs. 3,000/-
One Year

Estimated Cost:-
Earnest Money:-
Time:-

Name of work:- Construction of additional accommodation (2rooms alongwith stair) case at Govt. High School Gagnet Tehsil Ghanam Distt. Una HP (SH:- Providing E.I. there in).-						
Sr. No.	Description of Items	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 (HRFR) and low smoke single core (Flexible) copper conductor cable in surface/ recessed steel conduit and earthing the light point with 1.5sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. (Make:- Legrand, L&T, Anchor)					
1.01	Group C	29.00	Each			
2	Wiring for power plug with 2x4 sq.mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/ recessed steel conduit along with 1 No. 2 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI /Plaza make)	14.00	Per metre			
3	Wiring for power plug with 4x4 sq.mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 NO. 4 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI /Plaza make)	10.00	Per metre			
4	Wiring for circuit/ sub main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. (KEI, Anchor, Finolex/Plaza make)					
4.01	2x1.5sq.mm.	38.00	Per metre			
4.02	2x10sq.mm.	1.00	Per meter			
5	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. a) 3x1.5sq.mm. (KEI, Anchor, Finolex make)	12.00	Per metre			
6	Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required. (SSK/Anchor/L&T)					
6.01	S.P. 5/ 6 Amps one way switch, piano type.	4.00	Each			
6.02	5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.	4.00	Each			
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recessed 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, connection, painting etc as required. (SSK/Anchor/L&T)	2.00	Each			

8	Supplying and fixing bakelite button /angle holder including connections etc. as required	6.00	Each			
9	Supplying and erection of 6Amp to 32Amps 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 Category-A (Hager-ABB,L&T make)	5.00	Each			
10	Supplying and erection of 40/50/63Amps 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 Double pole Category-A (Hager-ABB,L&T make)	1.00	Each			
11	Supplying and fixing of following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB) having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. a) 40Amp Category-A (Hager-ABB,L&T make)	1.00	Each			
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface/recess, complete with tuned copper bus bar, wire-set neutral link, earth bar, din bar, detachable gland plate blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required including carriage of material with in all leads and lifts.					
12.01	12 way Double door (Hager-ABB,L&T make)	1.00	Each			
13	Earthing with G.I. earth pipe 4.5 meter long and 40 mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke salt) complete as required.	1.00	Per Set			
14	Extra for using salt and charcoal for pipe earth electrode complete as required including carriage of material with in all leads and lifts.	1.00	Per Set			
15	Supplying and laying 6SWG G.I. wire at 0.50 meter below ground level for earth electrode conductor including soldering etc. as required. Including carriage of material with in all leads and lifts.	30.00	Per Metre			
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:- (Crompton/WWHE ISI mark/Usha-Technoplus BEE 3star/ Bajaj 3 Star rated model)					
16.01	a) Ceiling Fan 1200 mm sweep,	8.00	Each			
17	Supplying and fixing fan box made of M.S. sheet with iron rod Hook 12mm in place of junction box complete with Bakelite Round sheet as required.	8.00	Each			
18	Providing and fixing LED surface/pendant mounting Tube fixture 36 watts LED button anodized aluminium housing PC diffuser with PC end caps/spring steel clamps for surface mounting arrangement and it should be compatible with specifications i.e Power factor >0.9, Harmonic distortion <10% & efficacy >100 Lumen per watts, CKD >80, >700 K suitable for input voltage 220-240 Volts, 50 HZ, Length 1175X30X36 mm complete with connections and as per best satisfaction of Engineer-in-Charge complete as required.(Panasonic Harrow AI Code No.PBTM08368/Philips/Wipro make)	13.00	Each			
19	Providing and fixing LED streetLight 30watts CCT 5700K, CRI>80, Surge rating 5kv, IP 66 input voltage 140V-270v, 50Hz, A.C Supply with M.S bracket 62 mm dia with die cast aluminium housing with IP diffuser on the existing pole including connections complete in all respects and best satisfaction of Engineer -in-charge at site (Panasonic Cat.NoPSTMT27308XX/Philips/Wipro make)	2.00	Each			
20	Supplying and fixing of sub main wiring with 10 sq mm. weather proof twin core aluminium conductor cable on the G.I bearer wire etc.as required (Polycab,Havells,Finolex)	40.00	P meter			

21	Supplying and fixing LED Lamp 9 watts .825 Lumens 240 volts AC supply 50 Hz in the existing button holder,pendent holder,wall bracket & bulk head fitting etc. as required.(Philips Ace Saver HSN CODE 85395000/Tiwa/Panasonic make)	6.00	Each			
				G.Total:-		


 Executive Engineer,
 Electrical Division,
 HPPWD, Una.

SCHEDULE OF QUANTITY

Job No.15

Estimated Cost:- Rs. 1,47,263/-
Earnest Money:- Rs. 3,000/-
Time:- One Year

Name of work: - Construction of additional accommodation (2rooms alongwith stair) case at Govt. High School Pirthipur, Tehsil Ghanari Distt. Una HP (SH: - Providing E.I. there in).

Sr. No.	Description of Items	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 (HRFR) and low smoke single core (Flexible) copper conductor cable in surface/ recessed steel conduit and earthing the light point with 1. 5sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. (Make:- Legrand , L&T ,Anchor)					
1.01	Group C	29.00	Each			
2	Wiring for power plug with 2x4 sq.mm. PVC insulated hear resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/ recessed steel conduit along with 1 NO. 2 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI /Plaza make)	14.00	Per metre			
3	Wiring for power plug with 4x4 sq.mm. PVC insulated hear resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 NO. 4 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI /Plaza make)	10.00	Per metre			
4	Wiring for circuit/ sub main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required. (KEI, Anchor, Finolex/Plaza make)					
4.01	2x1.5sq mm.	38.00	Per metre			
4.02	2x10sq mm.	1.00	Per Meter			

5	Supplying and Drawing following size of PVC insulated, heat resistant, flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in existing surface/recessed, steel/PVC conduit as required. a) 3x1.5sq.mm. (KEI, Anchor,Finolex make)	12.00	Per metre			
6	Supplying and fixing following rating Piano-type switch /socket on the existing switch box / cover including connections etc. as required (SSK/Anchor/L&T)					
6.01	S.P. 5/ 6 Amps one way switch, piano type.	4.00	Each			
6.02	5 pin 5/ 6 Amps socket outlet, porcelain base/ piano type.	4.00	Each			
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recessed 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, connection, painting etc. as required (SSK/anchor/L&T)	2.00	Each			
8	Supplying and fixing bakelite batten /angle holder including connections etc. as required.	6.00	Each			
9	Supplying and erection of 6Amp to 32Amps 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 Category-A.(Haggar,ABB,L&T make)	5.00	Each			
10	Supplying and erection of 40/50/63Amps 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. Double pole Category-A.(Haggar,ABB,L&T make)	1.00	Each			
11	Supplying and fixing of 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. a) 40Amp Category-A.(Haggar,ABB,L&T make)	1.00	Each			
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface/recess, complete with tinned copper bus bar, wire-set neutral link, earth bar, din bar, detachable gland plate blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required including carriage of material with in all leads and lifts.					
12.01	12 way Double door (Haggar,ABB,L&T make)	1.00	Each			

13	Earthing with G.I. earth pipe 4.5 meter long and 40 mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke salt) complete as required.	1.00	Per Set			
14	Extra for using salt and charcoal for pipe earth electrode complete as required including carriage of material with in all leads and lifts.	1.00	Per Set			
15	Supplying and laying 6SWG G.I. wire at 0.50 meter below ground level for earth electrode conductor including soldering etc. as required Including carriage of material with in all leads and lifts.	30.00	Per Metre			
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- (CromptonWWHE ISI mark/Usha-Technixplus BEE 3star/ Bajaj 3 Star rated model)					
16.01	Ceiling Fan 1200 mm sweep,	8.00	Each			
17	Supplying and fixing fan box made of M.S. sheet with iron rod Hook 12mm in place of junction box complete with Bakelite Round sheet as required.	8.00	Each			
18	Providing and fixing LED surface/pendent mounting Tube fixture 36 watts LED batten anodized aluminium housing PC diffuser with PC end caps, spring steel clamps for surface mounting arrangement and it should be compatible with specifications i.e.Power factor >0.9, Harmonic distortion <10% & efficacy >100 Lumen per watts, CRI >80, 5700 K suitable for input voltage 220-240 Volts, 50 HZ, Length 1175X30X36 mm, complete with connections and as per best satisfaction of Engineer-in-Charge complete as required. (Panasonic Harrow AI Code No. PBTM08368/Philips/Wipro make)	13.00	Each			
19	Providing and fixing LED street light 30watts CCT 5700K, CRI>80, Surge rating 5kv, IP 66, input voltage 140V-270v, 50Hz, A.C. Supply with M.S. bracket 62 mm. dia with die cast aluminium housing with IP diffuser on the existing pole including connections complete in all respects and best satisfaction of Engineer -in-charge at site (Panasonic Cat.NoPSTM27308XX/Philips/Wipro make)	2.00	Each			
20	Supplying and fixing of sub main wiring with 10 sq. mm. weather proof twin core aluminium conductor cable on the G.I. bearer wire etc, as required. (Polycab, Havells, Finolex)	40.00	P/mtr.			

21	Supplying and fixing LED Lamp 9 watts ,825 Lumens 240 volts AC supply 50 Hz in the existing batten holder,pendent holder,wall bracket & bulk head fitting etc, as required (Philips Ace Saver HSN CODE 85395000/Tisva/Panasonic make)	6.00	Each			
						G.Total


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

SCHEDULE OF QUANTITY

Job No.16

Estimated Cost:- Rs. 4,30,157/-
Earnest Money:- Rs. 8,600/-
Time:- One Year

Name of work: - Construction of Ayurvedic Health Centre at Mairi in Tehsil Amb Distt. Una HP (SH:- Providing E.I. there in).						
Sr. No.	Description of Items	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 (HRFR) and low smoke single core (Flexible) copper conductor cable in surface/ recessed steel conduit and earthing the light point with 1.5sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. (Make:- Legrand , L&T ,Anchor)					
1.01	Group C	55.00	Each			
2	Wiring for power plug with 2x4 sq.mm. PVC insulated hear resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/ recessed steel conduit along with 1 NO. 2 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI/Plaza make)	69.00	Per metre			
3	Wiring for power plug with 4x4 sq.mm. PVC insulated hear resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 NO. 4 sq.mm. HRFRLS/PV C insulated single core copper conductor cable for earthing as required. (Finolex/Anchor/KEI/Plaza make)	38.00	Per metre			
4	Wiring for circuit/ sub main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductr cable in surface/recessed steel conduit along with 1 No. HRFRLS/PVC insulated single core copper conductor cableof same size for earthing as required. (KEI, Anchor, Finolex/Plaza make)					
4.01	2x1.5sq.mm.	56.00	Per metre			
4.01	4x1.5sq.mm.	15.00	Per metre			

4.03	2x10sq mm.	1.00	Per Meter			
4.04	2x6sq mm.	38.00	Per Meter			
5	Supplying and Drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface/recessed, steel/PVC conduit as required. a) 3x1.5sq.mm. (KEI, Anchor, Finolex make)	44.00	Per metre			
6	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recessed 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, connection, painting etc. as required.	9.00	Each			
7	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recessed 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, connection, painting etc. as required. (L&T/SSK/Anchor make)	8.00	Each			
8	S/F Computer board comprising 3 No.5 amps switch (P/T) and 3 No.3 pin 5 amps. Socket out let (P/T) and 1 No.200x250x100mm metal box with cover plate and 1 No.4 modular switch board with cover plate and 1 No.computer jack with shutter including connections etc.as required,complete in all respects.(L&T/SSK/Anchor make)	1.00	Each			
9	Supplying and fixing Power plug socket with MCB Protection 25 Amps with Plug top and 4 Module box including making connections,testing etc.as required.(SSK ,Cat.No.PSM-1501,HSN Code 8536/Anchor/ L&T make)	2.00	Each			
10	Supplying and fixing bakelite batten /angle holder including connections etc. as required.	1.00	Each			
11	Supplying and fixing call bell buzzer, suitable for D/C/A.C. single phase, 230 volts complete as required.	1.00	Each			
12	Supplying and erection of 6Amp to 32Amps 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.Category-A.(Hagger,ABB,L&T make)	14.00	Each			

13	Supplying and erection of 40/50/63Amps 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. Double pole Category-A. (Haggar, ABB, L&T make)	1.00	Each			
14	Supplying and fixing of 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. a) 63Amp Category-A. (Haggar, ABB, L&T make)	1.00	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 bar, detachable gland plate blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required including carriage of material with in all leads and lifts.					
15.01	4 way Double door (Haggar, ABB, L&T make)	1.00	Each			
15.02	16way Double door (Haggar, ABB, L&T make)	1.00	Each			
16	Earthing with G.I. earth pipe 4.5 meter long and 40 mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke salt) complete as required.	1.00	Per Set			
17	Extra for using salt and charcoal for pipe earth electrode complete as required including carriage of material with in all leads and lifts.	1.00	Per Set			
18	Supplying and laying 6SWG G.I. wire at 0.50 meter below ground level for earth electrode conductor including soldering etc. as required. Including carriage of material with in all leads and lifts.	30.00	Per Metre			
19	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. (Crompton WWHE ISI mark/Usha-Technixplus BEE 3star/ Bajaj 3 Star rated model)					

19.01	a) Ceiling Fan 1200 mm sweep,		7.00	Each			
20	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:-						
20.01	Exhaust Fan Light Duty 300mm (Crompton Drift Air Plus Metal Anti Dust/Usha Aeroclean LD GBD)		2.00	Each			
20.02	Exhaust Fan Heavy Duty 300mm (CromptonSemi Commercial Double Ball Bearing/Usha - SPH Turbo HDEF 900 RPMISI/Bajaj)		3.00	Each			
21	Supplying and fixing fan box made of M.S. sheet with iron rod Hook 12mm in place of junction box complete with Bakelite Round sheet as required.		7.00	Each			
22	S/F of exhaust fan louver shutter for 300 mm.exhaust fan on the existing wall complete with connections etc. as reqd.		5.00	Each			
23	Supplying and fixing 4x1' LED Tube fixture 36 watts surface mounting with HET plastic diffuser with CRCA powder coated housing and it should be compatible with specification i.e Power factor >0.9, Harmonic distortion < 10% & efficacy> 100 Lumen per watts, CRI > 80, 5000-5700 K suitable for input voltage 150-270 volts 50 HZ IP rating 20 Surge rating upto 2 KV, Driver output voltageshall be less than SELV limits for safe operation and maintenance.complete with all accessories, connections, testing and commissioning etc. as required (Wipro cat no. CRCO13SO36HP57GL1/ Philips /OSRAM make)		2.00	Each			
24	Supplying and fixing surface mounting LED 36 watts metal square down Light for soft diffuser lighting and white and it should be compatible with specification i.e Power factor >0.9, Harmonic distortion < 10% & efficacy> 100 Lumen per watts, CRI > 80, CCT5700 K suitable for input voltage 220-240 volts 50 HZ IP rating 20 Surge rating upto 3 KV, complete with all accessories connections, testing and commissioning etc. as required (Wipro Cat No.CRCO10S038HP57GL/Tisva/ Philips make or its equivalent),		1.00	Each			
25	Supplying and fixing LED Tube fixture20 watts surface mounting extruded aluminium coated body and it should be compatible with specification i.e 4000 Lumen output,80, 6500 K,length 4 feet Beam angle120 degree suitable for input voltage130-270 volts 50 HZ, Surge rating upto 3 KV, complete with all accessories connections, testing and commissioning etc. as required (Wipro Trim Neo LL20-221-XX-65NE3/Philips/ Tisva make),		10.00	Each			

26	Supplying and fixing LED Batten 10 watts Mirror Light and it should be compatible with specifications i.e power factor>0.9, Harmonic distortion<10%& efficacy>100, lumen per watts,CRI>80, CCT 6500K suitable for input voltage 150-270 volts,50Hz,IP rating 20,surge rating 2.0kv, and length 59.5 cm complete with connections etc. as required (Wipro Trim Neo LL-20-111-XXX-65NE3/Tisva /Philips make)	5.00	Each			
27	Supplying and fixing of Bulk head fitting LED 10 watts and it should be compatible with specifications i.e.Power factor >0.9,Harmonic distortion <10% & efficacy >100 Lumen per watts,CRI >80 ,6500 K suitable for input voltage 220-240 Volts,50 HZ, Length 232x Width 105x Height 50 mm size complete with connections etc.as required.(Panasonic Ellipto Code No.PBHM01107/Jaquar/ Tisva/ make)	6.00	Each			
28	Supplying and fixing surface LED 18 watt round down lighter with high efficacy .Housing made of casted aluminium housing with SS Strips and it should be compatible with specifications i.e Power factor >0.9,Harmonic distortion <10% & efficacy >100 Lumen per watts,CRI >80 5700 K suitable for input voltage 220-240 Volts,50 Hz,IP rating 20,Surge rating up to 2 K V,Dia 169mm complete with connections etc.as required. Panasonic PDLM26188 (Jaquar,Philips or its equivalent make)	9.00	Each			
29	Providing and fixing LED streetLight 45 watts CCT 5700K ,CRI>80,Surge rating 5kv, IP 66 , input voltage140V-270v,50Hz,A.C.Supply with M.S bracket 62 mm dia with compact and aesthetic powder coated aluminium housing on the existing pole including connections complete in all respects and best satisfaction of Engineer -in-charge at site (Wipro Skyline + LR06-611-XXX-57-XX/Philips/Tisva make)	2.00	Each			
30	Supplying and fixing Fancy wall bracket Decon make, Srilanka model Cat.No. 050Q, GLS-60W,240V,50Hz,0.8p.f. containing GLS lamp holder (s) of all sizes and shapes, complete with all accessories but excluding CFL lamp including making connections, testing etc. as required Decon cat .no.0553/philips/Tisva	3.00	Each			
31	Supplying and fixing LED Lamp 9 watts ,825 Lumens 240 volts AC.supply 50 Hz in the existing batten holder,pendent holder,wall bracket & bulk head fitting etc, as required.(Philips Ace Saver HSN CODE 85395000/Tisva/Panasonic make)	4.00	Each			

32	Supplying and fixing of 1.5 ton Split type (Inverter type) Air conditioner , Smart A.C. Cold with intelligence heating LCD operated, Advance Filter, E Saver mode, Quit mode, dual display / auto clean Anti Bacteria filter jet cool ON/OFF timer sleep mode compressor cordless remote alongwith voltage stabilizer 4KVA (EM4140)(130 to 300 volts Microteck/Numeric/APC/Emerson complete in all respects comprising to ISI with latest amendment suitable to operate on 140-300volts +/- 10% A.C. supply operating ambient temperature range -7oC to 52oC, compressure type high EER rotary BLDC Refrigerent R32, filter quadra filter protection with sleek mode capable to perform the function of cooling dehumidification Air circulation, ventilation and fitting in the size of nominal cooling capacity complete with drain pipe 20mm dia approximately 3 Mtrs. 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 outdoor unit of split type A.C. including carriage of material within all leads and lifts. Make: Sprint 3starVoltas SAC183VSZS-Floral(R32)/Blue star/O-General/Daikin.as approved by the Engineer-in-charge.	1.00	Each			
33	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-					
33.01	Storage water heater, 25 Liter capacity Cat-A Jaquar (Elena vertical)/Recold Min 4 star	1.00	Each			
34	Supplying and fixing of sub main wiring with 10 sq.mm.weather proof twin core aluminium conductor cable on the G.I.bearer wire etc.as required.. (Polycab,Havells,Finolex)	40.00	P/mtr.			
G.Total:-						


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

SCHEDULE OF QUANTITY

Job No.17

Estimated Cost:- Rs. 1,36,184/-
Earnest Money:- Rs. 2,800/-
Time:- Six Months

Name of work :-C/O New store room at PWD R.H. Daulatpur Tehsil Chanari Distt. Una (H.P) (SH:-Providing E.L therein)						
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 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.					
1.01	GROUP C	10.00	POINT			
2	Wiring for circuit / sub-main along with earth wire. with following size of FRLS PVC insulated copper conductor single core cable in surface /recessed medium class pvc conduit as required (KEL,Anchor,Plaza)					
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	36.00	METER			
2.02	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	15.00	METER			
2.03	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	11.00	METER			
2.04	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	29.00	METER			
2.05	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	22.00	METER			
2.06	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	12.00	METER			

3	Supplying and fixing recess LED 24 watt down lighter with high efficacy. Housing made of extruded aluminium with high translucent HET diffuser and it should be compatible with specifications i.e. Power factor >0.9, Harmonic distortion <10% & efficacy >100 Lumen per watt. CRI >80, 5700 K suitable for input voltage 220-240 Volts, 50 Hz, IP rating 20, dimensions 275x275mm. complete with connections etc. as required. (Jaquar NEVE Plus LNEP01SO24XXW/Panasonic/Philips make)	6.00	EACH			
4	Providing, Installation, testing and commissioning of ceiling fan with step type fan regulator modular, air delivery 215m ³ /min power input 43 watts speed 330RPM, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. Tech. specifications:-100-240V, 50 Hz, speed 330 rpm, power consumption 43 watt					
4.01	(CromptonWWHE ISI mark/Usha-Technixplus BEE 3star/ Bajaj Star rated model)					
4.02	Ceiling Fan 1200 mm sweep, Category-A	4.00	EACH			
5	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-(Haggar,ABB,L&T make)					
5.01	Single pole. Cat-A.	20.00	EACH			
6	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
6.01	63 Amps. Cat-A.	1.00	EACH			
7	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-(Haggar,ABB,L&T make)					
7.01	DOUBLE DOOR 12WAY	1.00	EACH			

8	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.	2.00	EACH		
9	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 15/16 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	4.00	EACH		
10	Supplying and fixing of sub main wiring with 10 sq. mm. weather proof twin core aluminium conductor cable on the G.I. bearer wire etc. as required. (Polycab, Havells, Finolex)	12.00	P/mtr.		
11	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.				
11.01	3x1.5 Sq. mm.	36.00	P/mtr.		
12	Supplying and fixing Power plug socket with MCB Protection 25 Amps with Plug top and 4 Module box including making connections, testing etc. as required (SSK , Cat.No.PSM-1501, HSN Code 8536/Anchor/ L&T make)	1.00	Each		
13	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches & Sockets , G.I box 2 module for jack box and G.I Box 12 module for 5 amp switches and 5 amp sockets comprising sheet cover for each 2 module metal box , one no computer jack (RJ-45) with shutter including connections etc as required.	4.00	Each		
14	Supplying and drawing Lan cable, 1000Mbps speed, Unshielded Cat 6, D-Link make, Twisted pair (UTP) solid copper conductor protected with PVC. Sheath in the existing surface/recessed Steel/PVC conduit as required.	50.00	P/mtr.		
15	Providing and laying of aluminium conductor, PVC insulated and PVC sheathed, unarmoured/XLPE power cable, working voltage 1100 volts grade direct in ground in the same trench, in one tier horizontal formation to be laid 1 meter below the ground level including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering etc. of required size:-				
15.01	armoured cable 10 sq. mm (Twin core)	46.00	P/mtr.		
16	S/F of cable junction box IP-66 with integrated membranes/ metric knockouts for cable entry 4/10 sq. mm. Hensal make 130X180X77 mm. Cat No. DK1010G with terminals in/c complete in all respects as required.	15.00	Each		
G.Total:-					


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

SCHEDULE OF QUANTITY

Job No. 18

Estimated Cost:- Rs. 2,98,327/-
 Earnest Money:- Rs. 6,000/-
 Time Limit:- One year.

NAME OF WORK :- C/o 4 Nos. Class room with varandah at Govt. S. S. S. Sanoli, Distt Una, (HIP) (SH:- 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 (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.(Finolux,KEI,Anchor,L&T make)					
1.01	Group C.	62.00	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 (flexible) copper conductor cable in surface/recessed steel conduit with 2-way, 5/6 amps. piano type switch and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.(Finolux,KEI,Anchor,L&T make)					
2.01	Group C.	2.00	Each			
3	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No. 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required.(Finolux,KEI,Anchor,L&T make)	52.00	P/mtr.			

4	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required (Finolex,KEI,Anchor,L&T make)					
4.01	2x1.5 Sq. mm.	66.00	P/mtr.			
4.02	2x10 Sq. mm.	2.00	P/mtr.			
5	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.(Finolex,KEI,Anchor,L&T make)					
5.01	3x1.5 Sq. mm.	94.00	P/mtr.			
6	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.-					
6.01	25 mm. dia	10.00	P/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.	4.00	Each			

9	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
9.01	Single pole. Cat-A.	12.00	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:-					
10.01	Double pole. Cat-A.	1.00	Each			
11	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamps in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
11.01	63 Amps. Cat-A.	1.00	Each			
12	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
12.01	Double door-16 way	1.00	Each			
13	Earthing with G.I earth pipe 4.5 mtr. long and 40mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	1.00	P/set			

14	Extra for using salt and charcoal for pipe earth electrode complete as required.	1.00	P/set			
15	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	30.00	P/mtr.			
16	Providing, Installation, testing and commissioning of ceiling fan without step type fan regulator modular, air delivery 215 m3 /min power input 30 watts speed 330 RPM, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- (Usha-Technixplus BEE 3 Star rated model) or its equivalent make)					
16.01	Ceiling Fan 1200 mm sweep, Category-A	5.00	Each			
17	Supplying and fixing Fan box of M.S. sheet with iron rod hook 12 mm. in place of junction box complete as required.	20.00	Each			
18	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)	20.00	Each			
19	Supply & Fixing of led fixture 18 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 90 lm/W with and P.F. > 0.95 with THD < 20% ,CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 6000 K with CRI of minimum 80. LEDs used must be tested as per EN62471 for Photobiological Safety of humans. The Input voltage range shall be 150V to 270V. Fixture have Surge Protection 2kV. Driver Output voltage shall be less than SELV Limits for safe operation and maintenance. Wipro Cat. No LD80-171-XXX-60-SM or Equivalent in Philips: SM251C LED20S- 6500 PSU WH or Trilux :Ambiella IND D LED1000-860 ET 01 ET or LT :	7.00	Each			

20	Supply and fixing of IP40 Led fixture 40 W with Surface Mounted 4 Feet with Polycarbonate diffuser with aluminium housing minimum lumen output 4000 lumens with P.F.>0.95 with THD<10% ,CRI 80, Surge Protection 2 Kv with IP Protection of IP20. The LEDs with minimum life of 50000 burning hours. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80. LEDs used must be tested as per EN62471 for Photobiological Safety of humans. The Input voltage range shall be 150V to 270V . Driver Output voltage shall be less than SELV Limits for safe operation and maintenance. Wipro Cat. No LL24-541-XXX-57-XX or Equivalent in Philips : BN308C LED40S-6500 L120 PSU WH or Trilux:TRL-X F OTA 4000-857 ET	32.00	Each			
21	Providing and fixing LED Street light 25 watts aluminium die cast housing ,with Polycarbonate LENS for uniform light distribution ,AC 85-270 volts with 4MV electric surge,lumen 2400,available color temperature 6500 K,CRI 80,IP rating 66, up to 10KVA electric surge protection and bracket of steel conduit pipe 32 mm., complete with all accessories,connections,testing and commissioning etc.as required. (Wipro LR02-291-XXX-57-XX/Clair/Philips make)	4.00	Each			
22	Supplying and fixing of sub main wiring with 10 sq.mm.weather proof twin core aluminium conductor cable on the G.I bearer wire etc.as required.	30.00	P/mtr.			
Total:-						


 Executive Engineer,
 Electrical Division
 HPPWD, Una

SCHEDULE OF QUANTITY

Job No.19

Estimated Cost:-
Rs. 48,950/-
Earnest Money:-
Rs. 1,000/-
Time:-
One Year

Name of work:-A/R & M/O of various type and different capacity of Air Conditioners installed in various N.R Govt. buildings under Electrical Sub-Division HP.PWD Blasapur (Swarghat section) for the year 2020-202 (w.e.f. 1/08/2022 to 31/07/2023).						
Sr. No.	Description of Items	Quantity	Unit	Rate	In fig.	Rate In words.
1	Annual , Repair & maintenance (Routine & preventive) of various makes/types and different capacity Split AC's with four numbers mandatory quarterly services and all emergency break down services as and when required from time to time as per the best satisfaction of Engineer-in-charge. The AMC will include the following:-					
1.01	Compress, Thermostat Relay, OLP,Fan Motors, Timers, Heaters, Air dampers, Ice maker, temperature sensors, Evaporators, Condensers, Refrigerant charging Driers Capillary Blowers, Fan Blade Control box, Magnetron, Electrical switches, Transformers (internal), Diodes, Capacitors, Wire hairness, Wash, & Spin motors Gear box Clutch assembly Drum Inner Bellows bears & Lip seal (Drain motor Pump, Electrical valves, Buzzer Suspension Key Members Remote PCB including cost of their replacement					
1.02	All defective components shall be replaced with compatible working parts and defective parts shall be company s/firm./Contractor's property.					
1.03	Split type A.C 1.5ton capacity.	11.00	Numbers			
G.Total:-						


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

SCHEDULE OF QUANTITY

Job No.20

Estimated Cost:- Rs. 67,791/-
Earnest Money:- Rs. 1,400/-
Time:- Six Months

Name of work:- 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).						
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),L&T(Entice),Legrand(Myrius) 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 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.	3.00	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(Myrius) 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 PLUS)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(Myrius) 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 aluminum 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)						
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 : Usha, 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(Entice), Legrand(Myrius) or its equivalent as approved by Er-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,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.						
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				
G.Total:-							


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

SCHEDULE OF QUANTITY

Job No.21

Estimated Cost:-
Rs. 1,97,005/-
Earnest Money:-
Rs. 4,000/-
Time:-
One Year

Name of work:- C/O 4 Nos. Class rooms along with Varandah in Govt High School Nalanger, at Changer Distt Hamirpur (H.P) (SH:-Providing E.I Therein.)						
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 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					
1.01	Group C	41.00	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	2.00	Each			
3	Wiring for circuit/submain wiring along with B earth wire 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					
3.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	60.00	Meter			

3.02	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	3.00	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, Finolex or its equivalent as approved by Er-In-Charge						
4.01	3 x 1.5 sq. mm	20.00	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						
5.01	5/6 amp Modular switch	4.00	Each				
5.02	5 pin 5/6 amp socket outlet	4.00	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	10.00	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	8.00	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: Make:- Usha(TECHNIX PLUS) Bajaj, Crompton or its equivalent as approved by Er-In Charge					
8.01	Ceiling Fan 1200 mm sweep	20.00	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 Er-In-Charge	20.00	Each			
10	Supplying and fixing following commercial surface round type LED downlight ,6000k , and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion <10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, with 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)					
10.01	15W	6.00	Each			
11	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 ,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)					

11.01	24 watt		4.00	Each			
12	Providing and installation of LED Street light 60W with bracket power coated pressure die cast aluminium high power led with heat resistant toughened glass with lens ,electronic driver; suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. as required.:Make Panasonioc ,wipro,Philips or its equivalent as approved by Er-In-Charge(Five year warranty)		2.00	Each			
13	Providing and installation of following Watts LED Lamp with E-27 base polycarbonate diffuser and aluminium heat sink including connections,etc. as required.:Make TISVA,wipro,Philips or its equivalent as approved by Engineer-in-Charge(Five year warranty)						
13.01	9 Watt		4.00	Each			
14	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	P/set			
15	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.		30.00	P/mtr			
16	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 paintedincluding earthing etc. as required. (But withoutMCB/RCCB/Isolator)Make L&T, Schneider,ABB or its equivalent as per best satisfaction of Engineer in -charge.						

16.01	MCBDB 12 WAY	1.00	Each			
17	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.					
17.01	single pole	6.00	Each			
18	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:-Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in -charge.	1.00	Each			
19	Supplying and fixing 40 amp rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 300 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.	1.00	Each			
G.Total:-						


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

SCHEDULE OF QUANTITY

Job No.22

Estimated Cost:- Rs. 3,95,617/-
Earnest Money:- Rs. 7,900/-
Time:- One Year

Name of work:-C/O Junior Engineer office cum residence Section- Kehadroo at Bhira Distt.Hamirpur (H.P) (SH. Prov. E.I.therein)						
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 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					
1.01	Group A	25.00	Each			
1.02	Group C	29.00	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	10.00	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					
3.01	5/6 amp Modular switch	8.00	Each			

3.02	5 pin 5/6 amp socket outlet	8.00	Each			
4	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. Make :- Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	14.00	Each			
5	Supplying and fixing suitable size GI box with modular plate and cover in FRLS 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	11.00	Each			
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	2.00	Each			
7	Supplying and fixing Computer board comprising 3 nos 5 amp modular switches , GI 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. Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	3.00	Each			
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 steel conduit as required Make:-Plaza,KEL,Finolex or its equivalent as approved by Er-In-Charge					
8.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	101.00	Mtr.			

8.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	100.00	Mtr.			
8.03	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	48.00	Mtr.			
8.04	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	9.00	Mtr.			
9	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required.	36.00	Mtr.			
10	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.					
10.01	25 mm	30.00	Mtr.			
11	Providing, Installation, testing and commissioning of ceiling fan without regulator,including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required: Make:- Usha(TECHNIX PLUS),Bajaj,Crompton or its equivalent as approved by Er-in-charge					
11.01	Ceiling Fan 1200 mm sweep	8.00	Each			

12	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 Er-in-charge						
12.01	Exhaust Fan, Light duty, 300 mm sweep	1.00	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 Er-in-charge	2.00	Each				
14	S/F louver and shutter for 300mm/350 mm on 12mm thick ply board as required complete in all respect	1.00	Each				
15	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required. Make:-Usha(Model Mist 25 litre),Bajaj,Recold or its equivalent as approved by Er-in-charge	1.00	Each				
16	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, making good the damages, electrical connections, testing etc. complete as required. Make:-Usha(Model Mist 6 litre),Bajaj,Recold or its equivalent as approved by Er-in-charge	1.00	Each				

17	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	18.00	Each			
18	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	8.00	Each			
19	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:- panasonic (Model - PBTM17228)/Philips, Wipro or its equivalent as approved by Engineer-in-Charge	2.00	Each			
20	Supplying and fixing Aluminium batten 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:- Jaquar/ Philips, Panasonic or its equivalent as approved by Engineer-in-Charge	3.00	Each			
21	Supplying and fixing of bulk head fitting LED 10 watt ,6500k ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc Make -Jaquar (Model - J/Jaquar/PHILIPS ,Panasonic or its equivalent as approved by Engineer-in-Charge	3.00	Each			

22	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.	4.00	Each			
23	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:-	2.00	Each			
24	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.					
24.01	40amp, double pole, (single phase and neutral)	2.00	Each			
25	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.	17.00	Each			

26	Supplying and fixing of 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						
26.01	12 way, Double door	1.00	Each				
26.02	16 way Double door	1.00	Each				
27	Supplying and fixing PVC batten/ angle holder including connection etc. as required.	7.00	Each				
28	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 25x2 with 50 Kg compound including excavation 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.	2.00	Each				
29	Supplying and laying 8 SWG copper. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required	30.00	Mtr.				
30	Supplying and fixing street light LED 60 watt with G.I bracket die cast Aluminium housing with frame and toughened glass, pipe mounting 5700k, (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make - Jaquar (Model LSRT015060XW)/Philips/wipro or its equivalent as approved by Engineer-in-Charge	3.00	Each				
G.Total:-							


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

SCHEDULE OF QUANTITY

Job No.23

Estimated Cost:- Rs. 94,275/-
Earnest Money:- Rs. 1,900/-
Time:- Six Months

Name of work:- Replacement of damaged accessories and E.I. in various NR Govt. buildings Rest House Nnadaun, G.F kitchen, Dinning, set no 1, F.F Lobby, Set No 4, 5 Court complex Nadaun F.F bar room, under ESD Hamirpur (H.P).					
Sr. No.	Description of Items	Quantity	Unit	Rate In fig.	Rate In Words.
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 pointwith 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Make :-Anchor (Roma classic),L&T(Entice),havells(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).L&T(Entice),havells(crabtree) 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 ,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:						
6.01	24 watt	6.00	Each				
6.02	36 watt	6.00	Each				
7	Supplying and fixing of followig 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 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 Er-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 Er-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 Er-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 Er-in-charge	1.00	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.	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				
						G.Total	


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

SCHEDULE OF QUANTITY

Job No. 24

Estimated Cost:-
Earnest Money:-
Time:-

Rs. 2,99,494/-
Rs. 6,000/-
One Year

Name of work :- C/O Type IV Qtr 1 No for Distt Planning Officer in Pooled colony at Hamirpur Distt Hamirpur H.P (SH:- Providing E.I therein)

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 steel conduit, with modular switch, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- Anchor (Roma classic), L&T (Entice), Legrand(Myrius) or its equivalent as approved by Er-In-Charge					
1.01	Group B	38.00	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	4.00	Each			
3	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make:- Plaza, KEI, Finolex or its equivalent as approved by Er-In-Charge					
3.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	110.00	Meter			
3.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	72.00	Meter			
3.03	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	5.00	Meter			

3.04	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	40.00	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, Finolex or its equivalent as approved by Er-In-Charge					
4.01	3 x 1.5 sq. mm	50.00	Meter			
4.02	3 x 4 sq. mm	25.00	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					
5.01	5/6 amp Modular switch	10.00	Each			
5.02	5 pin 5/6 amp socket outlet	10.00	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	15.00	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	10.00	Each			
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required. Make :- Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge	2.00	Each			

9	Supplying and fixing suitable size GI box with modular plate and cover in FRL Sont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	9.00	Each			
10	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 Er-In-Charge					
10.01	25 mm	10.00	Meter			
11	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required Make :-Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Er-In-Charge	1.00	Each			
12	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	3.00	each			
13	Supplying and fixing exhaust fan louver shutter for 300 mm.exhaust fan on the existing wall,painting etc, as required,	3.00	Each			
14	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					
14.01	Ceiling Fan 1200 mm sweep	5.00	Each			
15	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	5.00	Each			

16	Supplying and fixing LED Lamp 9 watts 6500 K E-27 900 Lumens 240 volts AC supply 50 HZ in the existing batten holder,pendent 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)	8.00	Each			
17	Supplying and fixing following type surface round type LED downlight ,6000k , and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz,with three year warranty complete with all accessories, connections, testing and commissioning etc.Make Panasonic,Wipro Philips or its equivalent as approved by Er-In-Charge(Five year warranty)					
17.01	15W	12.00	Each			
18	Supplying and fixing of LED bulk head fitting with all accessories including making connections, testing etc. as required Make Panasonic,Wipro Philips or its equivalent as approved by Er-In-Charge(Five year warranty)	6.00	Each			
19	Supplying and fixing of fancy wall bracket of chrome finish colour with opal glass diffuser made of mild steel, with single holder containing thread type LED lamp holder(s) of all sizes and shapes, complete with all accessories but excluding led lamp including making connections, testing etc. as required.: Make Philips, Jaquar Tisva or its equivalent as approved by Er-In-Charge(Five year warranty)	1.00	Each			
20	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 jaquar or its equivalent as approved by Er-In-Charge(Five year warranty)					
20.01	10 watt	2.00	Each			
20.02	24 watt	5.00	Each			

21	Supplying and fixing batten/ angle holder including connection etc. as required. Make :- Anchor (Roma classic),L&T(Entice),Legrand(Myrius) or its equivalent as approved by Engineer-in-charge	4.00	Each				
22	Supplying and fixing of LED 3 Watt fancy Bedside light of white colour with metal & synthetic material, complete with all accessories including making connections, testing etc. as required. Make Jaquar ,wipro, Philips or its equivalent as approved by Engineer-in-charge. (Five year warranty)	2.00	Each				
23	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	P/set				
24	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	30.00	P/mtr				
25	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.						
25.01	MCB DB 12 WAY	2.00	Each				
26	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.						
26.01	Single pole	12.00	Each				
27	Supplying and fixing pole blanking plate in the existing MCB DB complete etc. as required. - Make L&T, Schneider, ABB or its equivalent as per best satisfaction of Engineer-in-charge.	4.00	Each				
28	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.	2.00	Each				
29	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.						

29.01	40 AMP	1.00	Each			
29.02	63 AMP	1.00	Each			
30	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.					
30.01	6 litre	1.00	Each			
30.02	25 litre	2.00	Each			
				G.Total		


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

SCHEDULE OF QUANTITY

Job No. 25

Estimated Cost:-
Earnest Money:-
Time:-

Rs. 2,36,821/-
Rs. 4,800/-
One Year

Name of work:- Providing special repair in Judicial court complex Hamirpur Tehsil & Dist 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 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					
1.01	Group C	25.00	Each			
2	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required Make:- Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	25.00	Meter			
2.02	2 X 4 sq. mm + 1 X 1.5 sq. mm earth wire	5.00	Meter			
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required Make:- Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
3.01	3 x 1.5 sq. mm	110.00	Meter			
3.02	3 x 4 sq. mm	25.00	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 Diplast/BEC/ Polyfit. or its equivalent as approved by Er-In-Charge					

4.01	25 mm		80.00	Meter			
5	Supplying and fixing following size PVC box alongwith phenolic laminated sheet cover and cutting the sheet as required in surface/recess including screw ,washer , connection ,testing etc.as required.						
5.01	150mm.x75mm.x60mm. Deep		14.00	Each			
5.02	180mm.x100mm.x60mm. Deep		1.00	Each			
5.03	200mm.x150mm.x75mm. Deep		1.00	Each			
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		20.00	Each			
6.02	15/16 A switch		2.00	Each			
6.03	3 pin 5/6 A socket outlet		10.00	Each			
6.04	6 pin 15/16 A socket outlet		2.00	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		28.00	Each			
8	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 FRLS on including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required.		2.00	Each			
9	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 FRLS on including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.		2.00	Each			

10	Providing and installation exhaust fan of 300mm PVC 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:- Bajaj(model Maxmadxi 300 mm white dom Ex fan),Crompton, Usha or its equivalent as approved by Er-in-charge	8.00	Each			
11	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required. Make:- Usha, Bajaj, Crompton or its equivalent as approved by Er-in-charge	1.00	Each			
12	Supplying and fixing exhaust fan louver shutter for 300 mm exhaust fan on the existing wall, painting etc, as required,	1.00	Each			
13	Providing and Installation of Ceiling mounting fan of 400 mm sizes i/e hang the same in position on the ceiling with a 360 degree oscillation including connections, testing and commissioning etc as required with best satisfaction of Engineer in charge. Make:- Usha(MAXX AIR ROTO CAB FAN WH), Bajaj, Crompton or its equivalent as approved by Er-in-charge	3.00	Each			
14	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.	11.00	Each			
15	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					
15.01	Ceiling Fan 1200 mm sweep	28.00	Each			
16	Supplying and fixing Fan hook with anchor bolt faster as required.	20.00	Each			
17	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 $\gamma > 100$ Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make Panasonic, Wipro Philips or its equivalent as approved by Er-In-Charge(Five year warranty)					
17.01	12W	2.00	Each			

17.02.	15W		4.00	Each			
18	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 .6500k , 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, Wipro Philips or its equivalent as approved by Er-In-Charge(Five year warranty)						
18.01	10 watt		1.00	Each			
18.02	24 watt		24.00	Each			
19	Supplying and fixing batten/ angle holder including connection etc. as required. Make :-Anchor (Roma classic), L&T (Entice), Legrand (Myrius) or its equivalent as approved by Er-In-Charge		1.00	Each			
20	Supplying and fixing of voltage stabilizer having specification Input voltage range 150-290V , Digital display, Under voltage Protection, Over voltage protection including connections, testing and commissioning as required. Make :- V Guard (MODEL VND 400 DIGITAL) Microtek , Godrej or its equivalent as approved by Engineer-in-charge (Five year warranty)		1.00	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)		1.00	Each			
22	Supplying and fixing ceiling rose sheet on the existing junction box including round pvc sheet connections etc. as required.		25.00	Each			
23	Supplying and fixing PVC round sheet on the existing junction box including screw etc. as required.		25.00	Each			
G. Total							


Executive Engineer,
Electrical Division,
HPPWD., Una.

Job No. 26

Estimated Cost:-
Earnest Money:-
Time:-

Rs. 97,761/-
Rs. 2,000/-
One Year

Name of work:- A/R & M/O of various type and different capacity of Air Conditioners installed in various N.R Govt. buildings under Electrical Sub-Division HP.PWD Bilaspur (Ghumarwinsection) for the year 2022-2023 (w.e.f. 1/07/2022 to 30/06/2023)

Sr.No	Description of items	Quantity	Rate	In Fig.	Rate In words,	Units	Amount
1	Annual , Repair & maintenance (Routine & preventive) of various makes/types and different capacity Split AC's with four numbers mandatory quarterly services and all emergency break down services as and when required from time to time as per the best satisfaction of Engineer-in-charge.The AMC will include the following:- Compress, Thermostat Relay, OLP,Fan Motors, Timers, Heaters, Air dampers, Ice maker, temperature sensors, Evaporators, Condensers, Refrigerant charging Driers Capillary Blowers, Fan Blade Control box, Magnetron, Electrical switches, Transformers(internal), Diodes, Capacitors, Wire hairness, Wash, & Spin motors Gear box Clutch assembly Drum Inner Bellows bears & Lip seal (Drain motor Pump, Electrical valves, Buzzer Suspension Key Members Remote PCB including cost of their replacement.						
1.01	All defective components shall be replaced with compatible working parts and defective parts shall be company's/firm,/Contracot's property.						
1.02	Split type A.C 1.5ton capacity.	19.00					
1.03	Window Type A.C.	1.00					
2	Supplying and fixing of voltage stabilizer having specification Input voltage range 150-290v ,Digital display,Under voltage Protection,Over voltage protection including connections, testing and commissioning as required. Make:- Microtek , V Gaurd ,Godrej or its equivalent as approved by Er-in-charge(Three year warranty)	2.00					
	G.Total:-						

[Signature]
Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 27

Estimated Cost:- Rs. 1,04,833/-
 Earnest Money:- Rs. 2,100/-
 Time:- Six Months

NAME OF WORK:- Replacement of damaged accessories in various non Residential Buildings Rest House Samirpur, Rest House Sujanpur, HPPWD., Division Office Tauni Devi, under ESD Hamirpur, Sujanpur Section.						
Sr. No.	Description of Items	Quantity	Unit	Rate In fig.	Rate In words.	Amount
1	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:- KEI, Anchor, Plaza as approved by Engineer -in -charge					
1.01	3x1.5 Sq. mm.	15.00	Metre			
1.02	3x4.0 Sq. mm.	35.00	Metre			
1.03	3 X 6 sq. mm	20.00	Meter			
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	40.00	Meter			
3	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 thedamages, connections, testing and commissioning etc. as required: Make:- Usha (S.PH TURBO HDEF 900 RPM),Bajaj,Crompton or its equivalent as approved by Er-in-charge					

3.01	Exhaust Fan, (Heavy Duty), 300 mm swee	1.00	Each			
4	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
4.01	5/6 Amp Switch	10.00	Each			
4.02	5 pin 5/6 Amp Socket	10.00	Each			
4.03	15/16 A switch	8.00	Each			
4.04	6 pin 15/16 A socket outlet	8.00	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 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	2.00	Each			
6	Supplying and fixing suitable size GI 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.	1.00	Each			
7	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, Hagar,ABB or its equivalent as per best satisfaction of Engineer-in -charge.	8.00	Each			
8	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.					
9	single pole	6.00	Each			

10	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)						
11	4 way, Double door	1.00	Each				
12	Supplying and fixing Aluminium batten LED 22 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						
12.01	22 watt	4.00	Each				
13	Providing and laying of one number additional PVC insulated and PVC sheathed armoured /XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.:-Make:-KEI,POLYCAB, Plaza or Equivalent make						
13.01	Armoured cable 6 sq. mm (twin core)	50.00	Meter				
13.02	Armoured cable 6 sq. mm (three core)	73.00	Meter				
14	Supplying and fixing driver 36 watt in the existing Green square light LED 36 watt connections, testing and commissioning etc as required .	3.00	Each				
14.01	Supplying and fixing for M.S stand for inverter and batteries.	1.00	Each				

15	Supplying and fixing street light LED 60 watt with G.I bracket die cast Aluminium housing with frame and toughened glass, pipe mounting 5700k, (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make - Jaquar (Model -LSRT015060XW)/Philips/wipro or its equivalent as approved by Engineer-in-Charge	3.00	Each			
16	Supplying and fixing two module stepped type electronic fan regulator on the existing plate switch box including connections but excluding modular plate etc. as required.	4.00	Each			
17	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.					
17.01	MCB ,4 pole	1.00	Each			
G.Total:-						


Executive Engineer,
Electrical Division,
HPPWD., Una.

SCHEDULE OF QUANTITY

Job No. 28

Estimated Cost:- Rs. 1,36,136/-
Earnest Money:- Rs. 2,800/-
Time:- Six Months

Name of work:- Replacement of damaged accessories and E.L. in various Residential Govt. buildings i.e ADJ Residence, CJM Residence, ACJM residence, pooled colony Qtrs, E.E (B&R) Residence, PWD Colony Qtrs under ESD Hamirpur Distt 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 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					
1.01	Group A	8.00				
2	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed pvc conduit as required. Make:-Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	50.00				
2.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	35.00				
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make:- Plaza,KEI,Finolex or its equivalent as approved by Er-In-Charge					
3.01	3 X 1.5 sq. mm	60.00				

3.02	3 x 4 sq. mm	45.00				
3.03	2x 6 sqmm	20.00				
4	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
4.01	5/6 amps switch	20.00				
4.02	5/6 amps socket	30.00				
4.03	6 pin 15/16 amp switch	20.00				
4.04	6 pin 15/16 amp socket outlet	25.00				
4.05	Bell Push	10.00				
5	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 Et-In-Charge					
5.01	20 mm	40.00				
6	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	12.00				

7	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 FRL.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.	16.00					
8	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 Philips,Panasonic jaquar or its equivalent as approved by Er-In-Charge(Five year warranty)	15.00					
8.01	20 watt						
9	Supplying and fixing street light LED 25 watt with G.I bracket die cast Aluminium housing with frame and toughened glass, pipe mounting 5700k, (Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc. Make - Panasonic (Model -PSTM 23257) /Philips/wipro or its equivalent as approved by Engineer-in-Charge	2.00					
10	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					
11	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.						
11.01	single pole	35.00					
12	Supplying and erection of 40/50/63 amps, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of pole Double pole in the existing MCB DB complete with connections etc. as required:-Make L&T, Hager,ABB or its equivalent as approved by Engineer-in -charge.	10.00					

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. - Make L&T, Schneider, ABB or its equivalent as approved by Engineer-in -charge.							
13.01	40 amp	6.00						
13.02	63 amp	5.00						
								G.Total


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

SCHEDULE OF QUANTITY

Job No. 29

Estimated Cost:- 4,62,992/-

Earnest Money:- 9,300/-

Time Limit:- 45 Days

NAME OF WORK:- Construction of Circuit House Building at Una Distt. Una (HLP) (SH:- Providing 5 Nos. Air Conditioners in the VIP suits therein).

Sr. No.	Description of Items	Quantity	Unit	Rate	In fig.	Rate In words.	Amount
1	Supplying, installation, testing and commissioning of following capacity (Hot & Cold) 3 star Inverter Split type Air-Conditioning unit of following make conforming to I.S.I.-1391 PART-1992 with amendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor as required complete in all respects.						
1.01	A.C. Unit 1.5 Ton capacity (Split Inverter)Makes:- Daikin (Model No. : FTHT50U (R-32)/4 Star)/Mistubishi/Bluestar	1.00	Each				
1.02	A.C. Unit 1.8 Ton capacity (Split Inverter) Makes:- Daikin (Model No. : FTHT60U (R-32)/4 Star)/Mistubishi/Bluestar	4.00	Each				
2	Supplying and fixing wall mounting voltage stabilizer of following rating with output 240 volts with voltage regulation range from 130 volt to 270 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 1.5 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects.						
2.1	Automatic Voltage Stabilizer 4 kVA	1.00	Each				
2.2	Automatic Voltage Stabilizer 5 kVA (Makes:- V-Guard/Godrej/Whirlpool)	4.00	Each				
3	Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	5.00	Each				
4	Providing & fixing of extra copper tubes for refrigerant and condensate of following sizes different capacity split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.						

4.01	1/4" x 1/2" for 1.5 TR capacity AC Unit	2.00	Per Meter			
4.02	1/4" x 5/8" for 2 TR capacity AC Unit	5.00	Per Meter			
5	Supplying and fixing of 25mm dia of PVC drain pipe along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	12.00	Per Meter			
G.Total:-						


 Executive Engineer,
 Electrical Division,
 HP PWD Una.