HIMAGHAL PRADESH
PUBLIC WORKS DEPARTMENT

NOTICE INVITING TENDER

Sealed Item / Percentage rate tender on Form No. 6&8 are invited by the Executive Engineer, Electrical Division, HPPWD, Mandi (H.P.) for the following works Sr. No. 1 to 11 from approved and eligible contractors enlisted in appropriate class in HPPWD (Electrical) department having valid Electrical license and for work No. 12 and 13 from OEM of Façade Lighting) or authorized agency of OEM so as to reach in his office on or before 27.06.2023 up-to 10.30 A.M. and will be opened on the same day at 11:00 A.M in the presence of intending contractors or their authorized representatives. The application for issuing of tender form will be received in his office against cash payment Rs. 350/-(Non-refundable) for each work on or before 26.06.2023 up to 01:00 P.M. and the tender forms can be had from his office on same day. The application for the purchase of the tender documents should be accompanied with earnest money of each work separately in the shape of National Saving Certificate/FDR/ Call Deposit / Bank draft of any Schedule Bank / Post Office duly pledged in favour of the Executive Engineer, Electrical Division, HP.PWD, Mandi (H.P.). Conditional tenders and the tenders received without earnest money will be rejected. The receipt of application for issue of tender forms by post shall not be entertained / considered in any case. The tender forms shall be issued to registered Contractors or their authorized representatives. The copy of enlistment / renewal order and valid Electrical License shall be attached with the application for purchase the tender document.. The ambiguous / telegraphic / conditional / fax / E-mail or by post tenders shall also not be entertained / considered in any case. The tender shall be issued to those Contractors / Firms who are found eligible, suitable and competent. The decision of the Executive Engineer regarding suitability / eligibility / competency of Contractors/ Firms shall be final binding on the Contractors / Firms applying for the issuing of the tender. The offer for the tenders shall be kept open for 120 days. The Executive Engineer reserves the right to reject the tender without assigning any reasons, if there happens to be any holiday the same will be opened on next working day.

Work No. 1:- Providing and laying SOP Cable for additional accommodation building to Circuit House at Manali District Kullu HP Estimated Cost: Rs. 496485/-only, Earnest money: Rs. 9950/- only, Time allowed: - Along with civil work.

Work No. 2:- Replacement of Old Switch and Sockets into Modular and other Accessories in Rest House Sissu District L&S HP Estimated Cost: Rs. 298596/-only, Earnest money: Rs. 6000/- only, Time allowed: - One Month

Work No. 3:- Supplying and fixing 6 Nos. Air Conditioners 1.5 tonne at Conference Hall of Multipurpose Bhawan at DC Office Kullu Estimated Cost: Rs. 488142/-only, Earnest money: Rs. 9800/- only, Time allowed: - One Month

Work No. 4:- Repair Maintenance of EI in various Non –Residence buildings at Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk District Mandi (SH: Replacement and maintenance of damaged EI accessories, worn out switch, sockets and light fixtures in Hospital Wards , Ground floor , 1st floor , Block A, B and Hostel of Medical College) Estimated Cost: Rs. 217200/-only, Earnest money: Rs. 4350/- only, Time allowed: - Two Months

Work No. 5:- Servicing of Diesel Generator Set 1010 KVA 2 Nos. , 625 KVA 4 Nos., 1250 KVA 8 Nos. installed at ESS I (DG Room) in Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk District Mandi) Estimated Cost: Rs. 401990/-only, Earnest money: Rs. 8040/- only, Time allowed: - Two Months

Work No. 6:- C/o 50 Bedded Hospital at Bagsaid District Mandi (SH: Providing occupancy sensors and street light timmer therein) Estimated Cost: Rs. 322881/-only, Earnest money: Rs. 6500/- only, Time allowed: - One Month.

Work No. 7:- C/o Examination Hall 2nd floor Govt. Sen Sec School at Bagachanogi Tehsil Thunag District Mandi (SH: Providing EI therein) Estimated Cost: Rs. 258971/-only, Earnest money: Rs. 5200/- only, Time allowed: - Along with civil work.

Work No. 8:- Hon'ble Prime Minister's visit to Mandi District Mandi HP (SH: Providing and installation of Copper Earthing, 5 and 15 Amps switch / sockets , Safety Device, Wires and cables etc.) Estimated Cost: Rs. 260110/-only, Earnest money: Rs. 5200/- only, Time allowed: - Along with civil work

Work No. 9:- C/o Four Rooms at Government Senior Secondary School Dharmpur District Mandi HP@SH: Providing EI therein) Estimated Cost: Rs. 126089/-only, Earnest money: Rs. 2550/- only, Time allowed: - Along with civil work

Work No. 10:- Interconnect PSA 1000 LPM Oxygen plant existing at makeshift Hospital to existing manifold Oxygen plant for Hospital of in Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk District Mandi) Estimated Cost: Rs. 393038/-only, Earnest money: Rs. 7900/- only, Time allowed: - Two Months

Work No. 11:- Repair Maintenance of different rating motors and pumps in existing DG Room and HVAC System in Shri Lal Bahadur Shastri Govt. Medical College and Hospital Nerchowk District Mandi) Estimated Cost: Rs. 302950/-only, Earnest money: Rs. 6100/- only, Time allowed: - Two Months

Work No. 12:- Supplying, installation, Testing and Commissioning of Façade Lighting for Dev Sadan Building at Kullu HP Balance work Estimated Cost: Rs. 490000/-only, Earnest money: Rs. 9800/- only, Time allowed: - One Month.

Work No. 13:- Supplying, installation, Testing and Commissioning of Façade Lighting for Dev Sadan Building at Kullu HP (SH:Balance work of programming and lights therein) Estimated Cost: Rs. 487600/-only, Earnest money: Rs. 9800/- only, Time allowed: - One Month.

CERTIFICATE:-

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

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

NOTE:-

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

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

No.PW-MED/TA/NIT/2023-2024-- 2194-2210 **Dated:** 14-6-23

Copy forwarded to the following for information please:-

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

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

Job-

Estimated Cost:- Rs. 496485/- only
Earnest Money:- Rs. 9950/- only
Time:- Along wth civil work .

Draft Schedule Of Quantity

Name of work.- Providing and laying SOP Cable for the A/A building to Circuit House at Manali District- Kullu H.P.

Sr. No	Description	Qty.		Rate		Units	Amount
				In figure	In words		
1	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation and refilling the trench etc.as required, but excluding sand cushioning and protective covering complete in all respect as per entire satisfaction of Engineer- in- Charge. **Cable Make : CCI/ Universal/ Finolex / Polycab / Rallison / Grandlay / KEI.**	59	Metre	8415.00	Rupees Eight Thousand Four Hundred Fifteen Only	Per Metre	496485.00
	Armoured cable 630 sq. mm (3.5 core)					Total-:	496485.00

Draft schedule of quantity checked and approved for RS. 496485/- only.

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

(5) 30-9-22

					Estimated Cost:- Rs. 2,98,596/- only		
					Earnest Money:-Rs. 6000/- only		
					Time:- one month		

Draft Schudule of Quantity

Name of work:- Replacement of old switch/socket into modular and other accessories in rest house at Sissu Distt. L&S

Sr.No	Description	Qty		Rate	Rate in words	Unit	Amount
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. as per entire satisfaction of the Engineer in charge. **(Make:-PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.)**	2	Nos	1123.00	Rupees One Thousand One Hundred TwentyThree Only	Each	2246
	Group C.						
2	Supplying & fixing following size modular base and cover plate on the existing modular metal boxes as required:-						
i	3 modules	12	Nos	342.00	Rupees Three Hundred FourtyTwo Only	Each	4104
ii	6 modules	47	Nos	589.00	Rupees Five Hundred EightyNine Only	Each	16074.00
iii	12 modules	10	Nos	856.00	Rupees Eight Hundred FiftySix Only	Each	5890.00
3	Supplying & fixing Modular blanking plate on the existing modular metal box as	44	Nos	50.00	Rupees Fifty Only	Each	2200.00
4	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.						
i	5/6 amps. 1-way Modular switch	46	Nos	72.00	Rupees SeventyTwo Only	Each	3312.00
ii	5/6 amps. 2-way Modular switch	7	Nos	107.00	Rupees One Hundred Seven Only	Each	749.00
iii	Bell push, Modular	6	Nos	103.00	Rupees One Hundred Three Only	Each	618.00
iv	15/16 amps. 1-way Modular switch	18	Nos	136.00	Rupees One Hundred ThirtySix Only	Each	2448.00
v	5 pin 5/6 amps. Modular socket outlet.	40	Nos	146.00	Rupees One Hundred FourtySix Only	Each	5840.00
vi	6 pin 15/16 amps. Modular socket outlet.	18	Nos	209.00	Rupees Two Hundred Nine Only	Each	3762.00
5.00	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required complete in all respectas per entire satisfaction of the Engineer in charge. **Cable Make : PLAZA / UNITECH / BONTON / KEI / BIYANI /**						
	3x1.5 Sq. mm.	40	Metre	90.00	Rupees Ninety Only	Per Metre	3600.00

6.00	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as						
	Single pole. Cat-A.	47	nos	258.00	Rupees Two Hundred FiftyEight Only	each	12126.00
7.00	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as						
	Double pole. Cat-A.						
8.00	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	40 Amps. Cat-A.	6	nos	1236.00	Rupees One Thousand Two Hundred ThirtySix Only	each	7416.00
9.00	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing						
	DD-12 way	3	nos	2503	Rupees Two Thousand Five Hundred Three Only	each	7509.00
	DD-16 way	3	nos	3224	Rupees Three Thousand Two Hundred TwentyFour Only	each	9672.00
10	Providing and fixing following rating and breaking capacity, 4-pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.	1	nos	6142	Rupees Six Thousand One Hundred FourtyTwo Only	each	6142.00
	100 amps cat-A					each	
11	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:-	3	nos	2058	Rupees Two Thousand FiftyEight Only	each	6174.00
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep						
12	Supplying and fixing bakelite batten/angle holder including connections etc. as required:-	6	nos	79	Rupees SeventyNine Only	each	474
13	Supplying and fixing of LED 10 watt on existing holder complete in all respect	6	nos	179	Rupees One Hundred SeventyNine Only	each	1074

14	Supplying and fixing 16 Amps, 240 volts, SPN industrial socket outlet, 2-pole & earth, metal enclosed plug top, sheet steel enclosure, suitable to accommodate a 20 Amp SPN-MCB/DP, on surface or in recess, with chained metal cover for the socket outlet, complete with connections, testing and commissioning etc. as required.	2	Nos.	1644.00	Rupees One Thousand Six Hundred FourtyFour Only	Each	3288.00
15	Supplying & fixing decorative pendent light with 4 watt 37 lamps in die cast aluminium housing with lens. complete with all accessories ,connections, testing and commissioning etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	3	Nos.	58336.00	Rupees FiftyEight Thousand Three Hundred ThirtySix Only	Each	175008.00
16	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.	5	Nos.	3774.00	Rupees Three Thousand Seven Hundred SeventyFour Only	Each	18870.00
						TOTAL	298596.00

Draft schedule of electricity checked & approved
₹ 298596/pm

Executive Engineer
Elect. Division, H.P.P.W.D
Mandi (H.P.)

	Job 3			Estimated Cost:- Rs. 488142/-only.
				Earnest Money :- Rs. 9800/-only.
				Time :- One Month

Draft Schedule of quantity

Name of work :-Supplying and Fixing 10 Nos AC 1.5 Tonne at Multi purpose Hall Of Multipurpose Bhawan

Abstract of cost

Sr.No	*Description*	*Qty*		*Rate*		*Unit*	*Amount*
1	Supplying and fixing of 1.5 tone capacity split type Inverter Hot and Cold AC,including copper pipe ,drain pipe and stand for out door AC unit complete with installation connection etc. as required complete in all respect. **Make:- Lloyd/Daikin/Voltas**.	6	Nos	81357	Rs. Eighty One thousand three hundred fifty seven only	each	488142
						Total	488142

Draft schedule of quantity checked and approved for Rs. 488142/- only.

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

	Job- 4			Estimated Cost:- Rs. 217200/-only.	
				Earnest Money:- Rs. 4350/-only.	
				Time :- Two Months.	

Draft Schedule of quantity

NAME OF WORK:- R/M of E.I accessories of various non-residential buildings at SLBSGMC&H Ner Chowk Distt Mandi [HP] (Sh:- Replacement & maintenance of damaged E.I. accessories worn out switch,socket & light fixture in Hospital wards ground floor, 1st floor Block A,B & Hostel, Medical college therein)

S.N.	Description	Qty.		Rate in figure.	Rate in words Rupees	Unit	Amount
1	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required complete in all respect as per entire satisfaction of the Engineer in Charge. **Cable Make: PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI.**						
1.01	1x1.5 Sq.mm.	200	Metre	58.00	Rupees FiftyEight Only	Per Metre	11600.00
1.02	1x4.0 Sq.mm.	100	Metre	43.00	Rupees FourtyThree Only	Per Metre	4300.00
1.03	1x6.0 Sq.mm.	50	Metre	58.00	Rupees FiftyEight Only	Per Metre	2900.00
1.04	1x10 Sq.mm.	20	Metre	86.00	Rupees EightySix Only	Per Metre	1720.00
2	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as requiredcomplete in all respect as per entire satisfaction of engineer in charge.						
2.01	3 Module	50	Nos.	76.00	Rupees SeventySix Only	Each	3800.00
2.02	6 module	50	Nos.	125.00	Rupees One Hundred TwentyFive Only	Each	6250.00
3	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as requiredcomplete in all respect as per entire satisfaction of engineer in charge. **Make : Legrand (Myriu) / L&T (Entice) / Anchor /SSK / ABB (Similar Class).**						

3.01	5/6 amps. 1-way Modular switch	100	Nos.	58.00	Rupees FiftyEight Only	Each	5800.00
3.02	15/16 amps. 1-way Modular switch	100	Nos.	109.00	Rupees One Hundred Nine Only	Each	10900.00
3.03	5 pin 5/6 amps. Modular socket outlet.	50	Nos.	116.00	Rupees One Hundred Sixteen Only	Each	5800.00
3.04	6 pin 15/16 amps. Modular socket outlet.	50	Nos.	167.00	Rupees One Hundred SixtySeven Only	Each	8350.00
5	Providing and fixing of surface mounted Luminaire LED 20 Watt batten ,having high Quality design aluminium extruded decorative end caps and it should be compatible with specification i.e. Power Factor >.9,Harmonic Distortion <10% and efficiency>100Lumens per watt ,CRI> 80 suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc.as required .Make :- Philips(BN021LED25S6500PSU GRS1),Havell,Crompton or its equivalent as approved by Engineer-in-charge.	10	Nos.	854.00	Rupees Eight Hundred FiftyFour Only	Each	8540.00
6	Supplying and fixing bakelite batten/angle holder including connections etc. as required complete in all respect as per entire satisfaction of engineer in charge. **Make:- Anchor , Cona , SSK**	30	Nos.	69.00	Rupees SixtyNine Only	Each	2070.00
7	Supplying and fixing LED Lamp 9 watt Havells make of base cap B- 22 having Cat No LHLDEUEEML8R009 6500 k in the existing Batten holder,Pendent holder, wall bracket as required complte in all respect. **Make Havell's, Philips, Crompton etc.**	30	Nos.	208.00	Rupees Two Hundred Eight Only	Each	6240.00
8	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect as per entire satisfaction of engineer in charge. i) Single pole. Cat-A. **Make : L&T / Legrand / SIEMENS.**	20	Nos.	217.00	Rupees Two Hundred Seventeen Only	Each	4340.00
9	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect as per entire satisfaction of engineer in charge. i) Double pole. Cat-A. **Make : L&T / Legrand / SIEMENS.**	5	Nos.	1138.00	Rupees One Thousand One Hundred ThirtyEight Only	Each	5690.00
10	Providing and fixing of LED Tube Rod retrofit PL-L 4Pin with direct plug of 18 Watt ,having Cat No. 18w/865 6500K of Make Philips in the existing tube fixture as required complete in all respects. Make Philips, Havell's, Crompton Greaves etc. as approved by Engineer-in-charge.						

10.01	LED Tube 18 W Rod	50	Nos.	633.00	Rupees Six Hundred ThirtyThree Only	Each	31650.00
10.02	LED Tube 10 W Rod	150	Nos.	586.00	Rupees Five Hundred EightySix Only	Each	87900.00
11	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required complete in all respect as per entire satisfaction of Engineer- in- Charge. i) 25 mm. dia **Make : AKG/ BEC / NIC/ Diplast.**	100	Nos.	72.00	Rupees SeventyTwo Only	Each	7200.00
12	Providing and fixing of following sizes of PVC casing and capping on surface as required: complete in all respect. i) 20 mmx 12 mm **Make :- AKG/ BEC / NIC/ Diplast.**	50	Nos.	43.00	Rupees FourtyThree Only	Each	2150.00
	Total						217200.00

Draft Schedule of Quantity checked and approved for RS. 217200/- only.

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

				Estimated Cost:- Rs. 401990/-only.
				Earnest Money:- Rs. 8040/-only.
				Time :- Two Months

Draft schedule of quantity

Name of Work :- Servicing of Generator set [DG Set]1010 KVA 2 Nos,625KVA 4Nos,1250KVA8Nos Installed at ESS-1{DG ROOM} in SLBS Govt. Medical Collage and Hospital at Nerchowk in Distt Mandi (HP)[(SH.Servicing of Generator set (DG Set)1010 KVA 2 Nos]

Sr Nos	Item Code	Description	Qty.		Rate		Unit	Amount
					In Fig.	In world		
1	3238204	Supply and Fixing Element Lub. Oil Filter for DG set (1010KVA) Make' Cummins' complete in all respectas of entire satisfaction of Engineer in Charge	8	Nos	789	Ruppes Seven hundred eighty nine only.	Each	6312
2	3238493	Supply and Fixing Kit Fuel Filter and Ring for DG set (1010KVA) Make' Cummins'complete in all respect of entire satisfaction of Engineer in Charge	4	Nos	1113	Ruppes One thousand one hundred thriteen Only.	Each	4452
3	3279488	Supply and Fixing Kit super BYP Filter for DG set (1010KVA)Make' Cummins' complete in all respect of entire satisfaction of Engineer in Charge	4	Nos	1630	Ruppes One thousand six hundred thrity Only.	Each	6520
4	3010937	Supply and Fixing SEAL' O' Ring for DG set (1010KVA)Make' Cummins' complete in all respectof entire satisfaction of Engineer in Charge	4	Nos	21	Rupees twanty Only.	Each	84
5	3167217	Supply and Fixing Inhibit or Corrosion 5 liters for DG set (1010KVA)Make' Cummins' complete in all respec tof entire satisfaction of Engineer in Charge	2	No.	2912	Ruppes two thousand nine hundred twelve Only.	Each	5824

6	4912590	Supply and Fixing STRIP Test for DG set (1010KVA) complete in all respect of entire satisfaction of Engineer in Charge	2	No.	100	Rupees one hundred Only.	Each	200
7	4020551	Supply and Fixing Element Air cleaner for DG set (1010KVA)Make' Cummins' complete in all respect of entire satisfaction of Engineer in Charge	4	Nos	16978	Rupees Sixteen thousand nine hundred seventy eight Only.	Each	67912
8	506655	Supply and Fixing Valvo Line Premium Blue 7800 Plus 1/55 Ltr. for DG set (1010KVA) complete in all respect of entire satisfaction of Engineer in Charge	6	Nos	28222	Rupees twnty eight thousand two hundred stwanty two Only.	Each	169332
9	3050692	Supply and Fixing Switch magnetic for DG set (1010/1250KVA)Make' Cummins' complete in all respect of entire satisfaction of Engineer in Charge	2	Nos	9018	Rupees nine thousand and eighteen Only.	Each	18036
10	PSHAN DLING7PF	Supply and Fixing Handling /P&F Charges for DG set (1010KVA) Make' Cummins'complete in all respect of entire satisfaction of Engineer in Charge	2	No.	1123	Ruppes One thousand one hundred twanty threeOnly.	Each	2246
11	PAL SERVICE E-11	Supply and Fixing Service Charges for set (1010KVA)Make' Cummins' complete in all respect of entire satisfaction of Engineer in Charge	2	No.	8413	Ruppes Eight thousand foure hundred thriteenOnly.	Each	16826
12	3050692	Supply and Fixing Valvo Line Premium Blue 7800 Plus 1/210 Ltr. for DG set (1010KVA)Make' Cummins' complete in all respect of entire satisfaction of Engineer in Charge	1	No.	104246	Rupee One lac foure thousand two hundred fourty six Only.	Each	104246
								401990

Draft schedule of quantity checked and approved for Rs. 401990/- only

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

	Job-				Estimated Cost :- Rs. 322881/- Only
					Earnest Money :- Rs.6500/- Only
					Time :- One Month.

Draft SCHEDULE OF QUANTITY

NAME OF WORK:- C/o 50 Beded Hospital at Bagsaid Distt Mandi (HP)Sh:- Prov. Occupancy Sensors and Street Light Timmer there in

S.No.	Description	Qty.		Rate		Unit	Amount
				In Figure	In Words		
1	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required complete in all respect ..**PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI Cable make.**						
	2x1.5 Sq. mm.	110	Metre	210.00	Rupees Two Hundred Ten Only	Per Metre	23100.00
	2x6.0 Sq. mm.	30	Metre	449.00	Rupees Four Hundred FourtyNine Only	Per Metre	13470.00
2	S/F surface/Mount occupancy Sensors PIR,Ultrasonic High frequency Densors Single load 360DEGREE i/c Connection etc as required complete in all respect Operated Single, Three, Four Lights	56	Metre	4834.00	Rupees Four Thousand Eight Hundred ThirtyFour Only	Per Metre	270704.00
3	Supplying and FixingDigital Time Switch capacity 16 A Max delay range from 30 Sec to 20 Mon capacity 150 MA Electric distribution bus bar out put power capacity cct 15223 3600 Watt smart programmable time switch including connection etc as required complete in all respect. **Schiandiar**	1	No.	15607.00	Rupees Fifteen Thousand Six Hundred Seven Only	Each	15607.00
	Total						322881.00

Draft Schedule of Quantity checked and approved for Rs. 3,22,881/- only.

Executive Engineer
Electrical Division
HPPWD Mandi [HP]

	Job-				Estimated Cost:- Rs.258971/-only.		
					Earnest Money Rs. 5200/-only.		
					Time :- Alongwith civil work.		
	Draft Schedule of quantity						
NAME OF WORK :- C/O Examination Hall 2nd Floor Govt Sr Sec School at Bagachanogi Tehsil Thunag DISTT. MANDI (SH:- PROVIDING E.I. THERE IN)							
S.N0.	Description	Qty.		Rate in figure	Rate in word.	Unit	Amount
1.00	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed Steel conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required complete in all respect. as per entire satisfcation of engineer in charge. i) Group C. **MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTION / KEI.**	30	Nos.	1701.00	Rupees One Thousand Seven Hundred One Only	Each	51030.00
2.00	Wiring for circuit/sub-main with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed Steel conduit along with 1 No.1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required. complete in all respect. as per entire satisfcation of engineer in charge. **MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTION / KEI.**						
2.01	2x1.5 Sq. mm.	75	Meter	315.00	Rupees Three Hundred Fifteen Only	Per Metre	23625.00
2.02	2x4.0 Sq. mm.	75	Meter	429.00	Rupees Four Hundred TwentyNine Only	Per Metre	32175.00
2.03	2x6 Sq. mm.	10	Meter	598.00	Rupees Five Hundred NinetyEight Only	Per Metre	5980.00
3.00	Wiring for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed Steel conduit along with 2 No.4 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable for earthing as required. complete in all respect. as per entire satisfcation of engineer in charge . **MAKE:- FINOLEX / PLAZA / RR / UNITECH / BENTION / KEI.**	20	Meter	694.00	Rupees Six Hundred NinetyFour Only	Per Metre	13880.00
4.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-	30	Meter	232	Rupees Two Hundred ThirtyTwo Only	Per Metre	6960.00
	Armoured cable 10 Sqmm Twin						

5.00	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required.ESS ESS KAY / COSMO/Anchor/L&T	2	Nos.	304.00	Rupees Three Hundred Four Only	Each	608.00
6.00	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required.ESS ESS KAY / COSMO/Anchor/L&T	4	Nos.	480.00	Rupees Four Hundred Eighty Only	Each	1920.00
7.00	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect. as per entire satisfcation of engineer in charge. i) Single pole. Cat-A. .**MAKE :- LEGRAND / L&T/ C&S / GE**	8	Nos.	281.00	Rupees Two Hundred EightyOne Only	Each	2248.00
8.00	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect. as per entire satisfcation of engineer in charge. i) Double pole. Cat-A.. **MAKE :- LEGRAND / L&T/ C&S / GE**	1	Nos.	1320.00	Rupees One Thousand Three Hundred Twenty Only	Each	1320.00
9.00	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required complete in all respect. as per entire satisfcation of engineer in charge..**MAKE :- LEGRAND / L&T / C&S / GE**						
	Double door-12way	1	Nos.	2693.00	Rupees Two Thousand Six Hundred NinetyThree Only	Each	2693.00

10.00	Supply,Erection,Installation and Commissioning of UniEarth Maintenance free chemical earthing system consisting of environment friendly ground enhancing compound 'G.E.C' 50 kg or as required at site having anticorrosive and hygroscopic properties to replace excavated soil. It should consist of "Uniearth" Copper bonded electrodes , as per site conditions and soil resistivity at various depth levels and different terrains. The electrodes should have coating of 250 microns of molecularly bonded pure electrolytic copper (99.9%) in 2 metre length, 17.2 mm diameter, Terminal joint 200x25x6mm GI Strip with exothermic welds. The electrode should be duly tested and certified by CPRI for 30 kA short time current test for 1 sec rms. with The earth pit cover 300 mm x 300mm will be heavy duty type made of FRP with a openable lid for periodic inspection of the earth pit.	1	Nos.	24943.00	Rupees TwentyFour Thousand Nine Hundred FourtyThree Only	Each	24943.00
11.00	Supplying and laying 8 SWG Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required complete in all respect. as per entire satisfcation of engineer in charge.	30	Meter	167.00	Rupees One Hundred SixtySeven Only	Per Metre	5010.00
12.00	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required complete in all respect. as per entire satisfcation of engineer in charge i) Exhaust Fan, Light duty, (Domestic) 300 mm sweep. **MAKE :- USHA /BAJAJ / CROMPTON**	2	Nos.	2188.00	Rupees Two Thousand One Hundred EightyEight Only	Each	4376.00
13.00	Prov. & Fixing glazed LED 20 watt batten high quality design aluminium extruded with decorative end caps complete with connection , testing , commissioning etc as required complete in all respect. as per entire satisfcation of engineer in charge. **Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.**	8	Nos.	544.00	Rupees Five Hundred FourtyFour Only	Each	4352.00
14.00	Prov. & fixing LED surface/recess / pendent mounted 1x1 20 watt square aluminium die cast housing of superior quality complete with connection , commissioning as required complete in all respect. as per entire satisfcation of engineer in charge. **Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.**	1	Nos.	2360.00	Rupees Two Thousand Three Hundred Sixty Only	Each	2360.00
15.00	Prov. & fixing LED surface mounted 2x2 36 watt square panel with aluminium die cast housing of superior quality complete with connection , commissioning as required complete in all respect. as per entire satisfcation of engineer in charge. **Make Twinkle / Great White/Syska / Opulus / Bajaj / Great White / Phillips etc.**	12	Nos.	3887.00	Rupees Three Thousand Eight Hundred EightySeven Only	Each	46644.00

16.00	.S/E of Street light bracket made of GI Pipe A Class of suitable lenth and dia the pipe bended to give an angle of 100 to 110 degree fitted with bolts and nuts at the top of existing pole or wall including paintingthe pipe with two coats of approved paints over primimg coat completed in all respect	2	Nos.	674.00	Rupees Six Hundred SeventyFour Only	Each	1348.00
	32 MM Dia GI pipe						
17.00	S/F LED Street Light 25 Watt LED Made up of pressure dia cast aluminium housing with high power LED asd lighting source and lens embedded PC Cover having top opening separate driver compartment with IP 66 Protection and impact resistance of IK 07 luminair complete with connection testing commissioning etc as required complete in all respect Bajaj/Siska,Jaquar,Philips						
	Street Light LED 25 Watt	2	Nos.	2377.00	Rupees Two Thousand Three Hundred SeventySeven Only	Each	4754.00
18.00	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required complete in all respect as per entire satisfaction of Engineer- in- Charge. **Make : Usha / Bajaj / Anchor Panasonic.**	5	Nos.	4549.00	Rupees Four Thousand Five Hundred FourtyNine Only	Each	22745.00
	TOTAL						258971.00

Draft schedule of Quantity checked and approved for RS. 258971/- only.

Executive Engineer
Electrical Division
HPPWD Mandi [HP]

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

DRAFT SCHEDULE OF QUANTITY

NAME OF WORK: Hon'ble Prime minister visit in Mandi H.P. (SH: Providing and Instalation of Copper Earthing, 5Amp. Switch / Sockets, 15 Amp. Switch / Sockets, Safety devices, wires and cables there in.)

S.No.	Description	Qty.		Rate		Unit	Amount
				In Figure	In Words		
1	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required complete in all respect. **Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .**						
i)	2x1.5 Sq. mm.	150	Metre	143.00	Rupees One Hundred FourtyThree Only	Per Metre	21450.00
ii)	2 core cable.	150	Meter	250.00	Rupees Two Hundred Fifty Only	Per Metre	37500.00
2	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required complete in all respect as per entire satisfaction Of Engineer In Charge. **Make- ESS ESS KAY / CONA /Anchor**	30	Nos.	269.00	Rupees Two Hundred SixtyNine Only	Each	8070.00
3	Supplying and fixing metal box of 180mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps, piano type switch, connections, painting etc. as required complete in all respect. **Make- ESS ESS KAY / CONA /ANCHOR.**	6	Nos.	434.00	Rupees Four Hundred ThirtyFour Only	Each	2604.00
4	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect. **Make : L&T / Legrand / SIEMENS.**	2	Nos.	1236.00	Rupees One Thousand Two Hundred ThirtySix Only	Each	2472.00
	Double pole Cat-A.	2	Nos.	423.00	Rupees Four Hundred TwentyThree Only	Each	846.00
5	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required complete in all respect. **Make : L&T / Legrand / SIEMENS.**						
	Single Door 4 Way	7	Set	11800.00	Rupees Eleven Thousand Eight Hundred Only	Per Set	82600.00
6	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required complete in all respect as per entire satisfaction of Engineer- in- Charge.**Copper (Pure).**						

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

Draft schedule of Quantity checked and approved for RS. 2,60,110/- only.

Executive Engineer,
Electrical Division,
HPPWD Mandi

	Job-				Estimated Cost:- Rs. 126089/- only		
					Earnest Money:- Rs. 2550/- only		
					Time:- Along with civiil work .		
	Draft Schedule Of Quantity						
Name of work:- C/o Four Rooms at Government.Senior Secondary School Dharmpur, District Mandi HP. (SH-Prov. E.I. in there in.)							
Sr. No.	Description	Qty.		Rate		Units	Amount
				In figure	In words		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/ recessed PVC conduit and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required complete in all respect. **Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .**	36	Nos.	1123.00	Rupees One Thousand One Hundred TwentyThree Only	Each	40428.00
	Group C						
2	Supplying and fixing metal box of 100mmx100mmx60mm deep (nominal size) on surface/recess with suitable size phenolic laminated sheet cover in the front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps, piano type switch, connections, painting etc. as required complete in all respect. **Make- ESS ESS KAY / CONA /Anchor**	8	Nos.	204.00	Rupees Two Hundred Four Only	Each	1632.00
3	Supplying and fixing bakelite batten/angle holder including connections etc. as required complete in all respect. **Make:- Anchor , Cona , SSK**	8	Nos.	69.00	Rupees SixtyNine Only	Each	552.00
4	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect. **Make : L&T / Legrand / ABB / SIEMENS.**	5	Nos.	258.00	Rupees Two Hundred FiftyEight Only	Each	1290.00
	Single pole. Cat-A.						
5	Supplying and erection of 40/50/63 amps rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required complete in all respect. **Make : L&T / Legrand / SIEMENS.**	1	No.	1236.00	Rupees One Thousand Two Hundred ThirtySix Only	Each	1236.00
	Double pole Cat-A.						
6	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required complete in all respect. **Make : L&T / Legrand / ABB / SIEMENS.**	1	No.	2720.00	Rupees Two Thousand Seven Hundred Twenty Only	Each	2720.00
	40 Amps Cat-A						

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 complete in all respect. **Make : L&T / Legrand / SIEMENS.**	1	No.	2503.00	Rupees Two Thousand Five Hundred Three Only	Each	2503.00
	Double Door 12 Way						
8	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed P_VC conduit along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required complete in all respect. **Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .**						
i)	2x1.5 Sq. mm.	50	Metre	189.00	Rupees One Hundred EightyNine Only	Per Metre	9450.00
ii)	2x6.0 Sq. mm.	20	Metre	286.00	Rupees Two Hundred EightySix Only	Per Metre	5720.00
9	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required complete in all respect. **Cable make : PLAZA / FINOLEX / UNITECH / BONTON / KEI / BIYANI / GEMSCAB / CMI .**	30	Metre	90.00	Rupees Ninety Only	Per Metre	2700.00
	3x1.5 Sq. mm.						
10	Earthing with G.I earth pipe 4.5 mtr. long and 40mm dia, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required complete as required complete in all respect.	1	Set	4654.00	Rupees Four Thousand Six Hundred FiftyFour Only	Per Set	4654.00
11	Extra for using salt and charcoal for pipe earth electrode complete as required complete in all respect.	1	Set	1404.00	Rupees One Thousand Four Hundred Four Only	Per Set	1404.00
12	Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required complete in all respect.	20	Metre	40.00	Rupees Fourty Only	Per Metre	800.00
13	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required complete in all respect. **Make : Usha / Bajaj / Anchor Panasonic.**	16	Nos	2468.00	Rupees Two Thousand Four Hundred SixtyEight Only	Each	39488.00
	Ceiling fan 1200 mm sweep (Category -A)						

14	Supplying and fixing stepped type Modular fan regulator on the existing modular box including making connections etc. as required complete in all respect. **Make : Usha / Bajaj / Anchor Panasonic.**	16	Nos.	222.00	Rupees Two Hundred TwentyTwo Only	Each	3552.0
15	Providing and fixing Glazed LED 20 watt Batten High quality design aluminium extruded with decorative end caps complete with Connection,testing commissioning as required complete in all respect as per entire satisfaction of the Engineer in charge. **Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max .**	12	Nos	544.00	Rupees Five Hundred FourtyFour Only	Each	6528.0
16	Providing and Fixing LED 9 Watt in the existing holder as required complete in all respect.**Make : Wipro / Bajaj / Phillips / Jaquar / (Twinkle) Lux Max .**	8	Nos	179.00	Rupees One Hundred SeventyNine Only	Each	1432.0
						Total-:	126089.0

Draft schedule of quantity checked and approved for Rs. 1,26089/- only.

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

	Job-				Estimated Cost:- Rs. 393038/- only	
					Earnest Money:- Rs. 7900/- only	
					Time:- Two Months.	

Draft Schedule Of Quantity

N.O.W. :- Interconnect PSA 1000 LPM oxygen plant exsiting at Make Shift Hospital to exsting Manifold oxygen plant for hospital of SLBS.Govt Medical college & Hospital Nerchowk in Distt. Mandi (HP)

S.N.	Description	Quantity		Rate in Figure	Rate in Words	Unit	Amount
1.00	Medical Grade Copper Pipe						
	The copper pipes shall be copper annealed ASTM B/75/B68 or equivalent standards.The Diameter of the pipe should be suitable for 1000 LPM average flow and this pipeline will have to be divided into two in the oxygen supply plant and attached to two pipelines systems presently feeding the hospital.All pipe work materials shall be manufactured by BS EN ISO 9001:2000 registered companies marking for sizes up to 108 mm, copper pipes shall be permanently and durably marked at regular intervals along its length with the following information						
	- Lloyds/BSI Kitemark or equivalent approved to EN 13348:2008						
	- Nominal dimensions, diameter x wall thickness;						
	- Temper designation to EN 1173;						
	- Manufacturer's identification;						
	- Date of production: year and month (1 to 12)						
	- Confirmation of degreasing for oxygen						
	Brazing shall be carried out flame source, temperatures and materials as per HTM/ NFPA recommendations						
	Brazed Pipeline Joints (Copper to copper) should be made using a silver-copper-phosphorous brazing alloy CP104 (5% Silver Brazing Filler metals Rod) to BS EN 1044-1999, no flux to be used.						
	Copper Fittings:						
	Medical Gas Pipeline Fittings shall be end feed type, manufactured from the same grade of copper as the pipes and be in accordance with the requirements of BS EN 1254-1:1998 Part 1. The manufacturing company should comply with BS EN ISO 9001:2000 and should be Kite Marked/Lyods or equivalent to EN 1254-1 (up to 54mm). Fittings should be factory degreased suitable for oxygen use and be supplied individually sealed in protective polythene bags. Fittings should be certified for medical use and accompany with oil analysis certificate and conformity certificate indicating suitability for medical use.						
1.01	Outer dia 22mm	18	Metre	1805.00	Rupees One Thousand Eight Hundred Five Only	Per Metre	32490.00
1.02	Outer dia 28mm	20	Metre	2700.00	Rupees Two Thousand Seven Hundred Only	Per Metre	54000.00

2.00	Isolation Valve Should be degreased and Teflon quoted to be used for medical Oxygen. Certificate from the manufacturer for degreasing to be provided						
2.01	22mm Isolation valve	3	Nos	5157.00	Rupees Five Thousand One Hundred FiftySeven Only	Each	15471.00
2.02	28mm Isolation Valve	1	No.	6107.00	Rupees Six Thousand One Hundred Seven Only	Each	6107.00
3.00	Pressure Reduction Station High Pressure Regulator for oxygen with inlet pressure 9 bar to 10 bar from LMO side and outlet pressure 4 bar to 7 bar. Flow rate is 0-600nm3 per hour (+/-10%) and BSP 1" sizeMS Stand powder coated to mount High Pressure Regulators & valves should be factory fitted.	1	No.	284970.00	Rupees Two Lakh EightyFour Thousand Nine Hundred Seventy Only	Each	284970.00
	Total						393038.00

Draft schedule of quantity checked and approved.
for Rs. 393038/-only.

Executive Engineer,
Electrical Division,
HPPWD Mandi (HP)

	Job-			Estimated Cost:- Rs. 302950/-only.			
				Earnest Money:- Rs. 6100/-only.			
				Time :- Two Months			

Draft Schedule Of quantity

NAME OF WORK: **R/M different rating motors & pumps in existing DG room & HVAC system in SLBSGMC&H mandi at Nerchowk Distt. Mandi HP**

S.N.	Description	Qty.		Rate in figure.	Rate in words Rupees	Unit	Amount
I	***A) For 50 HP motor :-***						
1	Rewinding of 50 HP three phase induction motor with copper insulated wire by F class insulation paper, F class sleeve, cotton tape including insulated with air dried varnish.	50	per hp	800.00	Rupees Eight Hundred Only	per hp	40000.00
2	Providing and fixing of connection plate as per sample.	1	each	2500.00	Rupees Two Thousand Five Hundred Only	each	2500.00
3	Dismantling and carriage of motor from site of work to workshop and then back to site of work including installation and testing of motor as per direction.	1	per job	2500.00	Rupees Two Thousand Five Hundred Only	per job	2500.00
II	***For 10 HP motor :-***						
1	Rewinding of 10 HP three phase induction motor with copper insulated wire by F class insulation paper, F class sleeve, cotton tape including insulated with air dried varnish.	10	job	9000.00	Rupees Nine Thousand Only	job	90000.00
2	Providing and fixing of connection plate as per sample.	1	each	750.00	Rupees Seven Hundred Fifty Only	each	750.00
3	Dismantling and carriage of motor from site of work to workshop and then back to site of work including installation and testing of motor as per direction.	1	per job	1500.00	Rupees One Thousand Five Hundred Only	per job	1500.00
III	***For 7.5 HP motor :-***						
1	Rewinding of 7.5 HP three phase induction motor with copper insulated wire by F class insulation paper, F class sleeve, cotton tape including insulated with air dried varnish.	7.5	per HP	8000.00	Rupees Eight Thousand Only	per HP	60000.00
2	Providing and fixing of connection plate as per sample.	1	each	500.00	Rupees Five Hundred Only	each	500.00
3	Dismantling and carriage of motor from site of work to workshop and then back to site of work including installation and testing of motor as per direction.	1	per job	1200.00	Rupees One Thousand Two Hundred Only	per job	1200.00
IV	***For 5 HP motor :-***						

1	Rewinding of 5.0 HP three phase induction motor with copper insulated wire by F class insulation paper, F class sleeve, cotton tape including insulated with air dried varnish.	5	per HP	6500.00	Rupees Six Thousand Five Hundred Only	per HP	32500.00
2	Providing and fixing of connection plate as per sample.	1	each	500.00	Rupees Five Hundred Only	each	500.00
3	Dismantling and carriage of motor from site of work to workshop and then back to site of work including installation and testing of motor as per direction.	1	per job	1000.00	Rupees One Thousand Only	per job	1000.00
V	**For Centrifugal Pump 86 HP :-**						
1	Repair and maintenance of Centrifugal pump for using condensing of the chiller which are jammed and not in working condition. All the mechanical faulty parts i.e. bearing, mechanical seal and repair of impeller including welding and turning complete in all respect as required to the full satisfaction of Engineer-in –charge.	4	per job	15000.00	Rupees Fifteen Thousand Only	per job	60000.00
2	Dismantling & carriage of pump from site to workshop and back to site including alignment with the motor.	4	per job	2500.00	Rupees Two Thousand Five Hundred Only	per job	10000.00
	Total						**302950.00**

Draft schedule of Quantity checked and approved for Rs. 302950/- only.

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

Job 12

Estimated Cost:- Rs.490000/- only
Earnest Money:- Rs.9800/- only
Time:- One Month .

Draft Schedule Of Quantity

Name Of Work:- Supply and Installation Testing Commisioning of Fascade Lighting For Dev Sadan Building in Kullu Himachal Pradesh(SH:-Balnce work ther in) (Elsewhere.in)

Sr. No.	Description	Qty.		Rate		Units	Amount
				In figure	In words		
1	1. Supply, installation, testing and commissioning of Colour Changing 24W RGBW surface mounted Flood Light with Narrow/Medium beam luminaire suitable for outdoor applications of Facade Lighting. 2. Luminaires should be enabled with high power LEDs, should consists of anti-aging and anti-UV high optical efficiency temperature-resistant lenses, suitable for architectural lighting as per design requirement. 3. Luminaire should have inbuilt DMX Chip and can be Controlled through DMX/Ethernet protocol using 8 bit DMX 512 Controller, Controller can achieve 16.7M colors. Luminaire should be complete with dedicated lens for each LED. DMX enabler circuit should be inside luminaire only. 4. The luminaire should be complete with dedicated Lens for each LED and should have options for various beam angles, actual will depend on the design by the contractor and site requirement. 5. Luminaire should be provided with suitable integral/separate non-integral power supply unit. 6. Lumen maintenance of at least L70B50 @ 50000 BH (Ta-25°C) 7. The luminaire should have Aluminium Die cast housing powder coated in Shiny Grey with coating tickness > 60um with minimum 3 mm thick Toughened Glass. 8. Ingress Protection ≥ IP 66, Impact resistance level ≥ IK 08. Adequate heat sink, heat transfer rod for each LED, for proper thermal management shall be provided. 9. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%. THD should be less than 10%. 10. Built in Surge protection : DM 4kV CM 6KV 11. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. 12. Connectors should have IP67 male/female connectors for DMX through wiring. 304 SUS fixed connector should be used for durable and long life. 13. The LED Luminaires and drivers should be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors etc. as required. 14. LM79 and LM80 reports must be submitted. Make of LED must be validated through LM-79 for each type of fitting. 15. Manufacture should have own NABL certified laboratory. 16. Color rendering index ≥ 70 and power factor of complete luminaire ≥ 0.90, at white colour.**Make:- Panasonic/Meyar/ERCO.**	11	Nos.	30000.00	**Rs. Thirty thousand only**	Each	330000.00
2	1. Supply, installation, testing and commissioning of Colour Changing 24W RGBW surface mounted Linear With Narrow/Medium beam luminaire suitable for outdoor applications of Facade Lighting, 2. Luminaires should be enabled with high power LEDs, should consists of anti-aging and anti-UV high optical efficiency temperature-resistant lenses, suitable for architectural lighting as per design requirement. 3. Luminaire should have inbuilt DMX Chip and can be Controlled through DMX/Ethernet protocol using 8 bit DMX 512 Controller, Controller can achieve 16.7M colors. Luminaire should be complete with dedicated lens for each LED. DMX enabler circuit should be inside luminaire only. 4. The luminaire should be complete with dedicated Lens for each LED and should have options for various beam angles, actual will depend on the design by the contractor and site requirement. 5. Luminaire should be provided with suitable integral/separate non-integral power supply unit. 6. Lumen maintenance of at least L70B50 @ 50000 BH (Ta-25°C) 7. The luminaire should have Aluminium Extrusion body with Surface anodic oxidation and UV stabilized minimum 3-4 mm thick toughened glass front cover 8. Ingress Protection ≥ IP 66, Impact resistance level ≥ IK 08. Adequate heat sink with proper thermal management shall be provided. 9. Operating Temperature : -10°C to +45°C, Operating Humidity : 10%-90%. THD should be less than 10%. 10. Built in Surge protection : DM 4kV CM 6KV 11. Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements. 12. Connectors should have IP67 male/female connectors for DMX through wiring. 13. The LED Luminaires and drivers should be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors etc. as required. 14. LM79 and LM80 reports must be submitted. Make of LED must be validated through LM-79 for each type of fitting. 15. Manufacture should have own NABL certified laboratory. 16. Color rendering index ≥ 70 and power factor of complete luminaire ≥ 0.90, at white colour.**Make:- Panasonic/Meyar/ERCO**	5	Nos.	32000.00	**Rs. Thirty two thousand only**	Each	160000.00
	TOTAL PRICE (INR)						490000.00

Draft schedule of quantity checked and approved for ₹ 490000/-

Executive Engineer
Elect. Divn. H.P.P.W.D
Mandi (H.P.)-175001

Job-13

Estimated Cost:- Rs.487600/- only
Earnest Money:- Rs.9800/- only
Time:- One Month .

Draft Schedule Of Quantity

Name Of Work:- Supply and Installation Testing Commisioning of Fascade Lighting For Dev Sadan Building in Kullu Himachal Pradesh{SH:- Balance work of programming and lights there in}

Sr. No.	Description	Qty.		Rate		Units	Amount
				In figure	In words		
1	Power Supply - 200W , 24V DC , IP67, BIS, All-Around Protection: OCP, OVP, SCP, OTP Compliance: EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2/3/4/5/6/8/11, EN61547 Reliability test report: High Temperature Operating Test (Tc=100degC for 500hrs), Thermal Shock Test (120degC/-50degC for 500cyc)**Make:- Panasonic/Meyar/ERCO**	27	Nos.	8000.00	Rs. Eight thousand only	Each	216000.00
2	Supply of **DMX Special cable** DMX cable (single pair) having one 22AWG pair stranded (7x30) tinned copper conductors, Datalene (FHDPE) insulation, twisted pairs, overall Beldfoil shield (100% coverage) plus tinned copper braid, PVC jacketCable. Beldon make or equivalent.**Make:- Fenolex/Polycab/Havells.**	400	Metre	260.00	Rs. Two hundred sixty only	Per Metre	104000.00
3	**Programming,** Testing, Troubleshooting and synchronization of DMX control system.The addressing of fixtures with the multiple scenes(atleast 20Themes) as per instruction of engineer in charge.**Make:- Panasonic/Meyar/ERCO**	1	No.	50000.00	Rs. Fifty thouasand only	Each	50000.00
4	Supply of **enclosure for Power Supply, DMX splitter, Controller :** Plain sides, grey cover, Degree of protection: IP 66/ IP 67, Impact strenght: IK 08, Material, base: Fiberglass reinforced polycarbonate, Material, cover: Polycarbonate, Material, cover screws: Polyamide, Material, gasket: Polyurethane, Colour: RAL 7035.**Make:- Panasonic/Meyar/ERCO**	13	Nos	3200.00	Rs. Thirty two hundred only	Each	41600.00
5	Supply Installation Testing Commissioning of Mounting Brackets/ Cages for fixtures.Make: Custom	38	Nos.	2000.00	Rs. Two thousand only	Each	76000.00
	TOTAL PRICE (INR)						487600.00

Draft schedule of quantity Checked and approved for ₹ 4,87,600/- only

Executive Engineer
Elect. Divn. H.P.P.W.D
Manali (H.P.)-175001