

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

No.PW.-ESD. (MC)/Tender/ 2026 -27 -251-53
To

Dated:- 10/6/2026

✓ The Executive Engineer(IT),
Nirman Bhawan, HPPWD,
Shimla-2.

Subject: - Publication of Tender Notice.

Jai Hind

Please find enclosed herewith the tender notice of works as given in the notice inviting tender for uploading on department website as per Notification vide Pr. Secy.(PW) to the govt. of Himachal Pradesh letter No. PBW(B)1/2020 dated 27th May,2021 and PBW(B)A(3)1/2020 dated 16th July, 2021 and even file dated 12.01.2023 as the works mentioned in the tender notice is (are) urgent in nature and in public interest.


Assistant Engineer,
M.C. Elect. Sub-Division,
HPPWD, Snowdon Shimla.

Copy forwarded for information and further necessary action to:-

1. The Executive Engineer, Electrical Division No-II, HPPWD, Shimla-1.
2. Computer Cell O/O the Executive Engineer (IT Cell), Nirman Bhawan, Nigam Vihar, Shimla-2.

1
Assistant Engineer,
M.C. Elect. Sub-Division,
HPPWD, Snowdon Shimla.

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

'NOTICE INVITING TENDER'

Sealed Percentage rate tender on the prescribed form, terms and conditions mentioned in form- 6 & 7 ,8 are hereby invited for the following works by the undersigned from the approved firms/contractors, so as to reach in the office of the undersigned (i)Tender documents consisting of plans classes of work to be done and set of terms and conditions of contract to be complied with by the contractor/firms whose tender may be accepted and other necessary documents can be seen in the office of the Assistant Engineer between hours of 11.00 AM to 4.00 PM except on Sundays and public holidays. (2) The contractor who are not registered under HP general sale tax Act, 1968 and have not cleared all the dues on account of sale tax shall not be issued the tender documents. (3) The contractor who has no registration certificate with Excise and taxation department of HP will not be issued the tender documents (4) Tenders placed in sealed envelope with name of work and due date written on the envelope will be received by the undersigned and will be opened by him or his authorized representative in his office in the presence of contractors, present if any. (5)The earnest money in the shape of NSC/Time deposit account /saving account in any of the post offices of HP duly pledged in favour of undersigned must accompany with the tender in the separate envelope. The tenders without earnest money will summarily be rejected. (6)) In case of holiday, the tenders shall be received and opened on the next working day.(7)Tenders of contractors who quote two or more than two rates for any item of work shall be rejected. (8) 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.

- (i) Last date of issue of tender documents: - 18.6.2026 Up to 5.00 P.M
(ii) Last date of receipt of bids: 19.6.2026 Up to 10.30 A.M
(iii) Date of bid opening: 19.6.2026 AT 11.30 A.M

S. N.	Name of work	Estimated cost	Earnest money	Time	Eligible class of registration
1.	Providing MCB, DB for Fan coil units in 2 nd , 3 rd & 4 th Floor of cancer hospital building IGMCM Shimla.	Rs.99,217/-only	Rs.2000/-only	2 weeks	C & D
2.	Providing & Replacement of defective/outdated led Flood lights in Volleyball court at Indiragandhi Rajya Khel Parisar The Mall Shimla-171001(HP).	Rs.98,069/-only	Rs.2000/-only	2 weeks	C & D
3.	Replacement of Damaged MCP's at AIMSS Chamiana Shimla-12	Rs.99,500/-only	Rs.2000/-only	1 Month	Specialized Job
4.	Providing and fixing of PLC expansion module, phasing protection device and on-delay timer in the DG set synchronisation panel at New OPD, IGMCM Shimla(H.P)-171001	Rs.93,948/-only	Rs.2000/-only	15 days	Specialized Job

5.	Providing & Commissioning of electrical interlocking between Main LT Panel, LT synchronisation Panel and Diesel Generator sets for uninterrupted power supply at New OPD IGMC Shimla-171001	Rs.82,235/-only	Rs.2000/-only	15 days	Specialized Job
6.	Providing Special repair to E.I. in set No. 06 & 05 Driver Residence Near Cemetry Tunnel Shanti Vihar Sanjauli Shimla-171006	Rs.43,749/-only	Rs.900/-only	1 Month	C & D
7	Providing additional electrical installation work in female pulmonary ward 1 and 2, Bathrooms, corridor and D-Block, MMU corridor at IGMC Shimla-171001.	Rs.99,590/-only	Rs.2000/-only	1 Month	C & D
8	Repair, Replacement of Compressor, Refrigerant Gas Charging and Allied Maintenance Work of Mortuary Refrigerant Unit installed at New OPD Block at IGMC Shimla-171001.	Rs.57,000/-only	Rs.1200/-only	1 Month	Specialized Job

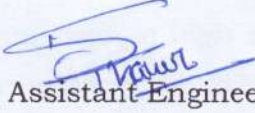
- 501 -
Assistant Engineer,
Electrical Sub-Division.
HPPWD, Snowdon

No.PW.-ESD. (MC)/Tender/ 2026 -27- 240-50

Dated:-10/6/2026

Copy forwarded for information to the following:-

1. The Executive Engineer, Elect. Division No.II, HPPWD Shimla-1.
2. All the JE's under this Sub. Divn.
3. The Income tax Officer, Shimla
4. All the approved contractors/firms/President Contrs./Association.
- ✓ 5. Notice Board.


Assistant Engineer,
Electrical Sub-Division.
HPPWD, Snowdon

CERTIFICATE: -

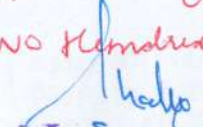
**IT IS CERTIFIED THAT THE TENDER FOR ABOVE WORK IS URGENTLY
REQUIRED IN PUBLIC INTEREST.**


Assistant Engineer
Electrical Sub Division
H.P.P.W.D., Snowdon,
Shimla-171001 (H.P.)

SCHEDULE OF QUANTITY						
					Estimated Cost:-Rs99,217/-Only	
					Earnest Money:-Rs2000/-Only	
					Time:- Two weeks	
Name of work : - Providing MCB , DB for fan coil units in 2nd, 3rd & 4th Floor of Cancer hospital building IGMC Shimla.						
S.No.	Description of Items	Qty.	Unit	Rate		Amount
				In Figures	In Words	
1	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:-					0
1.01	Two way Single Door	47	each	976	Rs. Nine Hundred Seventy Six only	45872
2	Supplying and fixing following rating, followings poles 10ka 240/415v 'C' curves miniature circuit braker MCB DP suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
2.01	6A to 32 A MCB Double Pole	47	each	1135	Rs. One Thousand One Hundred Thirty Five only	53345
Total						99217


 Assistant Engineer
 M.C. Elect. Sub Division
 HPPWD, Snowdon, Shir

Draft schedule of quantity approved for Rs 99217/-
 (Rs Ninety Nine Thousand Two Hundred Seventeen only)


 Executive Engineer,
 Electrical Division No.-II,
 HP PWD (U.S. Club) Shimla-1

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:-98069/-

Earnest Money:-2000/-

Time :- 15 days

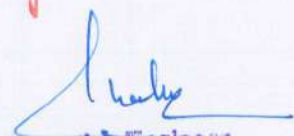
Name of Work:- Providing & Replacement of defective/outdated led Flood lights in Volleyball court at Indira Gandhi Rajya Khel Parisar at The Mall Shimla-171001 (H.P.)

S.No	Description of items	Qty.	Unit	Rates		Amount
1	S/E of LED Flood Light IP 66 rated with aluminium body/PDC housing The fitting should be installed on existing surface The job includes carriage, erection, making connections testing and commissioning of the fittings.			In figures	In words	
	Specification of LED fittings:					
	Wattage of LED fittings - As per following parameter.					
	Total lumens of the fittings - as per wattage					
	Diffuser - Polycarbonate diffuser/PMMA					
	Operating voltage - 140 V to 270 V, AC supply or better.					
	Input frequency - 50 Hz + 1 Hz					
	Power factor - Minimum 0.90					
	Luminaire efficacy - ≥80 lm/w					
	Color rendering index - CRI shall be greater than 80					
	Working/ operating temperature - 00 to + 450c or better					
	Color temperature - 60000K + 10%					
	Electronic Driver					
	Drive current (LED) - As per OEM.					
	Operating voltage - 140 V to 270 V, AC supply or better.					
	Type of driver - Constant current output driver					
	THD - Less than 10%					
	Surge Protection - 2 KV minimum					
	Efficiency Driver - ≥85%					
	Protection - Shall have under voltage and over voltage protection.					
	Guarantee of LED fittings including LED driver - 2 years against manufacturing defect.					
	Fixture - Should comply with LM 79 test from UL/NABL lab.					
	LED Type/ Make/ Model - Power Wipro/ OSRAM/ Bajaj/ Philips LUMILED with life more than 50,000 burning hours @70% lumen maintenance complying with LM 80 test report from the manufacturer.					
	Life of LED - 50000 burning hours at 70% lumen maintenance					
	Lumen output of the fitting					
1.1	LED Flood Light 150 W	12	Each	8007	₹ Eight Thousand Seven only.	96084
2	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as require					
2.01	S.P. 5/6 amps, one way Piano switch, ISI marked	5	Each	41	₹ Forty One only.	205
2.02	S.P. 15/16 A, one way switch, piano type ISI marked	5	Each	94	₹ Ninety Four only.	470
2.03	S.P. 6 pin 15/16 A socket outlet	5	Each	110	₹ One Hundred Ten only.	550

2.04	S.P. 3 pin 5/6 A socket outlet, piano type ISI marked	5	Each	59	₹ Fifty Nine only.	295
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.					
3.1	3 x 1.5 sq. Mm	5	Meter	93	₹ Ninety Three only.	465
	Total					98069


Assistant Engineer
Electrical Sub Division
HPPWD Snowdon, Shimla-1

*Dasht shedule of quantity approved for
Rs 98069/- (Rs Ninety Eight Thousand sixty Nine only)*


Executive Engineer
Electrical Division No.-II,
HP PWD (U.S. Club) Shimla-1

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:-99500 /-

Earnest Money:-2000/-

Time :- 1 Month

Name of Work:- Replacement of damaged MCP's at AIMSS Chamiana Shimla-12 (H.P)

S.No	Description of items	Qty.	Unit	Rates		Amount
				In figures	In words	
1	Supplying, installation, testing & commissioning of dual action addressable manual call point semi flush mounted with built in bi colour LED designed for 24 V DC with alarm current 5ma temepature range from 0 to 49 c with braille text on handle complete as required.Honeywell model no NBG12LX	15	NO	6400.00	₹ Six Thousand Four Hundred only.	96000
2	Welding of sprinkler line up to 3 metres as seggregated length in different locations , of sizes 19 mm, 25 mm, and 150 mm diameter, including cutting, alignment and welding with gas cutter/welding machine, complete in all respect as required.	1	NO	3500.00	₹ Three Thousand Five Hundred only.	3500
Total						99500

Assistant Engineer
Electrical Sub Division
HPPWD Snowdon ,Shimla-1

Schedule of quantity approved for Rs. 99,500 /- only.
(Ninety Nine Thousand five Hundred. Rupees Only)

Executive Engineer,
Electrical Division No.-II,
HP PWD (U.S. Club) Shimla-1

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:- 93948/-

Earnest Money:-2000/-

Time :- 15 days

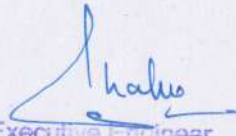
Name of Work:- Providing and fixing of PLC expansion module, phasing protection device and on-delay timer in the DG set synchronisation panel at New OPD, IGM C Shimla (H.P.) – 171001.

S.No	Description of items	Qty.	Unit	Rates		Amount
				In figures	In words	
1	Providing and fixing of Siemens SIMATIC S7-200 SMART EM AE04 analog input expansion module, including supply, installation, wiring, terminations, configuration, testing and commissioning, and integrating the module with the existing PLC system, complete in all respects as per site conditions and the direction of the Engineer-in-Charge.	1	Each	32620	₹ Thirty Two Thousand Six hundred Twenty Only.	32620
2	Providing and fixing of 3-Phase/1-Phase, 1-Way, 4-W Single Phasing Preventor with selectable ON-delay (0 to 15 seconds), including supply, installation, wiring, terminations, testing and commissioning, complete in all respects as per site requirements and the direction of the Engineer-in-	3	Each	3358	₹ Three Thousand Three Hundred Fifty Eight only.	10074
3	Providing and fixing of Analogue Timer, Micon 175, On-Delay type, with adjustable time range from 0.3 seconds to 30 hours, equipped with 1 changeover relay (CO), including supply, installation, wiring, terminations, testing and commissioning, complete in all respects as per site requirements and the direction of the Engineer-in-Charge.	2	Each	5277	₹ Five Thousand Two Hundred Seventy Seven only.	10554
4	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.					
4.1	1 run of cable	120	Metre	54	₹ Fifty Four only.	6480

	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
5.1	1 : 1.5 sq. mm	648	Metre	40	₹ Forty only.	25920
6	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.					
6.1	32 mm	50	Metre	166	₹ One Hundred Sixty Six Only.	8300
	Total					93948


 Assistant Engineer
 Electrical Sub Division
 HPPWD Snowdon, Shimla-1

Schedule of quantity approved, for Rs 93,948 only.
 In words (Ninety Three Thousand Nine Hundred forty eight only.


 Executive Engineer,
 Electrical Division No.-II,
 HP PWD (U.S. Club) Shimla-1

155-5.

✓

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:- 82235/-

Earnest Money:-2000/-

Time :- 15 days

Name of Work:- Providing and commissioning of electrical interlocking between Main LT Panel, LT Synchronization Panel and Diesel Generator sets for uninterrupted power supply at New OPD IGMCM Shimla-171002 (H.P.)

S.No	Description of items	Qty.	Unit	Rates		Amount
				In figures	In words	
1	Providing, installing, testing and commissioning of a complete electrical interlocking system between the Main Low Tension (LT) Panel and Diesel Generator sets, comprising 2 Nos. 250 kVA and 1 No. 500 kVA DG sets, to ensure safe and reliable changeover of power supply and to prevent simultaneous feeding of the LT bus from transformer/mains supply and DG supply, complete in all respects as per site conditions and directions of the Engineer-in-Charge.					
1.1	System Configuration The interlocking system shall be provided between the following: Transformer / mains incomer(s) of Main LT Panel DG incomer breakers corresponding to: 2 Nos. × 250 kVA DG sets 1 No. × 500 kVA DG set Bus coupler / changeover breakers, wherever applicable					
1.2	Electrical Interlocking Interlocking through control wiring, auxiliary contacts, relays and logic provided in the LT panel / AMF panel Ensuring that closing of DG incomer breaker is not possible when transformer/mains incomer breaker is in ON position and vice-versa Suitable for both automatic and manual modes of operation					

1.3	Functional Requirements Under normal conditions, the LT panel shall be fed from transformer/mains supply. On failure of mains supply, the DG set(s) shall start automatically. Load shall be transferred to DG supply through interlocked DG incomer breakers. On restoration of mains supply, load shall be transferred back to transformer supply and DG set(s) shall stop automatically after the preset cooling period. At no time shall transformer/mains supply and DG supply feed the LT panel simultaneously.					
1.4	Protection & Safety The interlocking system shall include all necessary safety and protection features such as: Over-current and short-circuit protection Earth fault protection Emergency stop arrangement Visual and audible indications for mains available, DG running and load on DG Electrical isolation for maintenance purposes					
1.5	The work shall include supply and installation of: Control wiring with FRLS / LSZH copper conductors Proper ferruling, tagging and termination Cable glands, lugs and accessories					
1.6	Testing & Commissioning Functional testing of the interlocking system under all operating conditions Simulation of mains failure and restoration Verification of electrical and mechanical interlocks Submission of interlocking drawings to the Engineer-in-Charge	1	P/Job	30153	₹ Thirty Thousand One hundred Fifty Three Only.	30153

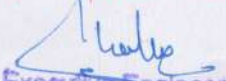
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2	Providing, installing, testing and commissioning of a complete electrical interlocking system between the LT Synchronization Panel and Diesel Generator sets, comprising 2 Nos. 250 kVA and 1 No. 500 kVA DG sets, to ensure safe, reliable and automatic operation, preventing simultaneous feeding of the LT bus from transformer/mains supply and DG supply, complete in all respects as per site conditions and directions of the Engineer-in-Charge.					
2.1	System Configuration The electrical interlocking system shall be provided between: LT Synchronization Panel DG incomer breakers corresponding to: 2 Nos. × 250 kVA DG sets 1 No. × 500 kVA DG set Transformer / mains incomer breakers of the Main LT Panel (through synchronization logic)					
2.2	Electrical Interlocking Arrangement Electrical interlocking shall be achieved through control wiring, auxiliary contacts, relays and logic circuits provided in the synchronization panel. The system shall ensure that: DG incomer breaker(s) cannot close when transformer/mains incomer breaker is in ON position. Transformer/mains incomer breaker cannot close when DG incomer breaker(s) are ON. Interlocking shall be effective in automatic as well as manual mode of operation. The system shall be compatible with load-based DG synchronization and load sharing scheme, wherever applicable.					

2.3	Functional Requirements Under normal conditions, the LT bus shall be fed from transformer/mains supply. On failure of mains supply, DG set(s) shall start automatically through the synchronization panel. Load shall be transferred to DG supply only after proper interlocking conditions are satisfied. On restoration of mains supply, load shall be transferred back to transformer/mains supply and DG set(s) shall stop automatically after the preset cooling period. At no time shall transformer/mains supply and DG supply feed the LT bus simultaneously.					
2.4	Protection & Safety The interlocking system shall include all necessary safety provisions such as: Over-current and short-circuit protection Earth fault protection Fail-safe logic to prevent mal-operation Visual indications for mains available, DG running and load on DG Electrical isolation facility for maintenance					
2.5	Testing & Commissioning Functional testing of electrical interlocking under all operating conditions Simulation of mains failure and restoration Verification of correct operation of interlocks with DG synchronization panel Submission of satisfactory test results to the Engineer-in-Charge				₹ Fifty Two Thousand Eighty Two Only.	
	Total	1	P/Job	52082		52082
						82235


 Assistant Engineer
 Electrical Sub Division
 HPPWD Snowdon, Shimla-1

schedule of quantity approved for the
 Fifty Two Thousand Two hundred Thirty Five Rupees only
 (82,235) / only


 Executive Engineer,
 Electrical Division No.-II,
 HP PWD (U.S. Club) Shimla-1

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:-43749 /-

Earnest Money:-900/-

Time :- 1 Month

Name of Work:-Providing Special repair to E.I. In set No.06 & 05 Driver Residence Near Cemetry Tunnel Shanti Vihar Sanjauli Shimla-171006 (H.P.)

S.No	Description of items	Qty.	Unit	Rates		Amount
				In figures	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 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.	3	Each	1283.00	₹ One Thousand Two Hundred Eighty Three only.	3849
2	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 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	5	Each	544.00	₹ Five Hundred Forty Four only.	2720
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 medium class PVC conduit as required.					
3.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	18	P/Mtrs	209.00	₹ Two Hundred Nine only.	3762
3.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	28	P/Mtrs	315.00	₹ Three Hundred Fifteen only.	8820
3.3	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	19	P/Mtrs	523.00	₹ Five Hundred Twenty Three only.	9937

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4	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required					
4.1	Single pole	8	each	241.00	₹ Two Hundred Forty One Only.	1928
5	Supplying and fixing following rating, followings poles 10ka 240/415v 'C' curves miniature circuit braker suitable for inductive load of following poles in the exsisting MCB DB complete with connections, testing and commissioning etc. as required.					
5.1	63 A DP	2	each	1479.00	₹ One Thousand Four Hundred Seventy Nine Only.	2958
6	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 bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
6.1	12 way , Double door	1	each	2300.00	₹Twenty Three Hundred Only.	2300
7	Providing and installation exhaust fan of following sizes in the existing opening, Double ball bearing type metal frame including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make Domestic type.					
7.1	Exhaust Fan, Light duty, (Domestic) 225/230 mm sweep	1	each	2176.00	₹Two Thousand One Hundred Seventy Six Only.	2176
8	S/E of LED Batten with polycarboante body and diffuser The fitting should be installed on existing surface/recess The job includes carriage, erection, making connections testing and commissioning of the fittings.					
	Specification of LED fittings:					
	Wattage of LED fittings - As per following parameter.					

	Total lumens of the fittings - as per wattage					
	Diffuser - Polycarbonate diffuser/PMMA					
	Operating voltage - 140 V to 270 V, AC supply or better.					
	Input frequency - 50 Hz + 1 Hz					
	Power factor - Minimum 0.90					
	Luminaire efficacy - ≥100 lm/w					
	Color rendering index - CRI shall be greater than 80					
	Working/ operating temperature - 00 to + 450c or better					
	Color temperature - 60000K + 10%					
	Electronic Driver					
	Drive current (LED) - As per OEM.					
	Operating voltage - 140 V to 270 V, AC supply or better.					
	Type of driver - Constant current output driver					
	THD - Less than 10%					
	Surge Protection - 2.5 KV minimum					
	Efficiency Driver - ≥85%					
	Protection - Shall have under voltage and over voltage protection.					
	Guarantee of LED fittings including LED driver - 2 years against manufacturing defect.					
	Fixture - Should comply with LM 79 test from UL/NABL lab.					
	LED Type/ Make/ Model - Power CREE/ OSRAM/ NICHIA/ Philips LUMILED with life more than 25,000 burning hours @70% lumen maintenance complying with LM 80 test report from the manufacturer.					
	Life of LED - 25000 burning hours at 70% lumen maintenance					
	Lumen output of the fitting					
8.1	LED Batten Light ≥2000Lumens.	8	Each	651.00	₹Six Hundred Fifty One Only.	5208

9	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	1	Each	91.00	₹Ninety One Only.	91
	Total					43749


 Assistant Engineer
 Electrical Sub Division
 HPPWD Snowdon, Shimla-1

Draft Schedule of quantity approved for Rs. 43749/- only.
 (Rs. Forty three thousand Seven Hundred forty Nine only)


 Executive Engineer,
 Electrical Division No.-II,
 HP PWD (U.S. Club) Shimla-1

DRAFT SCHEDULE OF QUANTITY						
				Estimated Cost:-57000 /-		
				Earnest Money:-1200/-		
				Time :-1 Months		
NAME OF WORK:- Repair, Replacement of Compressor, Refrigerant Gas Charging and Allied Maintenance Works of Mortuary Refrigeration Unit installed at New OPD Block at IGMCM Shimla-171001 (H.P)						
S No	Description of items	Qty.	Unit	Rates		Amount
1				In figures	In words	
	Replacement of existing mortuary refrigeration compressor with new hermetically sealed fixed speed compressor complete with crankcase heater, elbow-up discharge connection, suitable for 230V, 50Hz power supply, including dismantling of old compressor, installation, testing, commissioning and allied works, complete in all respects as required and as per the direction and satisfaction of the Engineer-in-Charge. Model: KCM511CAL-B310H.	1	Each	38000	₹ Thirty Eight Thousand only.	38000
2	Repair and servicing of mortuary refrigeration unit including refrigerant leakage detection and rectification, nitrogen pressure testing, flushing, vacuuming, gas charging and allied maintenance works, complete in all respects as required and as per the direction and satisfaction of the Engineer-in-Charge.	1	Job	2500	₹ Twenty Five Hundred only.	2500
3	Providing and charging of R-404A refrigerant gas in mortuary refrigeration unit including leak checking, vacuuming, testing and commissioning, complete in all respects as required and as per the direction and satisfaction of the Engineer-in-Charge.	1	Job	6500.00	₹ Sixty Five Hundred Only.	6500
4	Labour charges for dismantling/removal of defective refrigeration compressor and replacement with new compressor including brazing, alignment, testing, commissioning and allied installation works in mortuary refrigeration unit, complete in all respects as required and as per the direction and satisfaction of the Engineer-in-Charge.	1	Job	10000		
					₹ Ten Thousand only.	10000
	Total					57000


 Assistant Engineer
 Electrical Sub Division
 HPPWD Snowdon, Shimla-1

Draft Schedule of quantity approved for Rs 57000/-
 (Rs. fifty seven thousand only)


 Executive Engineer,
 Electrical Division No.-II,
 HPPWD (U.S. Club) Shimla-1

DRAFT SCHEDULE OF QUANTITY

Estimated Cost:- Rs.99,590/- only

Earnest Money:- Rs.2000/- only

Time:- One month

Name of work:- Providing additional electrical installation work in female pulmonary ward, ward 1 and 2, bathrooms, corridor and D- Block, MMU corridor at IGMCH Shimla-171001. (H.P.)

S.No.	Description of Items	Qty.	Unit	Rate		Amount
				In Figures	In words	
1.00	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 Sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface / recessed steel conduit including dismantling as required.					
1.01	Group C	8.00	Point	739.00	Rs. Seven Hundred Thirty Nine only	5912.00
2.00	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 including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connection, painting etc. as required.	2.00	Each	441.00	Rs. Four Hundred Forty One only	882.00
3.00	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
3.01	S.P. 5/6 amps, one way Piano switch, ISI marked	4.00	Each	41.00	Rs. Forty One only	164.00
3.02	S.P. 15/16 A, one way switch, piano type ISI marked	4.00	Each	94.00	Rs. Ninety Four only	376.00
3.03	3 Pin 5/6 A socket outlet, piano type	4.00	Each	59.00	Rs. Fifty Nine only	236.00
3.04	6 Pin 15/16 A socket outlet	4.00	Each	110.00	Rs. One Hundred Ten only	440.00
4.00	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 bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
4.01	8 way double door	1.00	Each	2570.00	Rs. Two Thousand Five Hundred Seventy only	2570.00

5	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required					0
5.1	Single pole	5	Each	241.00	₹ Two Hundred Forty One only.	1205
6	Supplying and fixing following rating, followings poles 10ka 240/415v 'C' curves miniature circuit braker suitable for inductive load of following poles in the exsisting MCB DB complete with connections, testing and commissioning etc. as required.					0
6.1	63 A DP	1	Each	1479	₹One Thousand Four Hundred Seventy Nine only.	1479
7	S/E of MCCB 4 Pole 415 Volt. with Thermomagnetic Release for overload and short circuit protection breaking Capacity (Ics=100% Icu with positive isolation) with/ without Spreader/ Rotary Handle.					0
7.1	MCCB 40- 100 Amp. 36 ka 4 Pole Release without rotary handle	1	Each	13724	₹Thirteen Thousand Seven Hundred Twenty Four only.	13724
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.					0
8.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	60	Metre	301	₹ Three Hundred One only.	18060
8.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	7	Metre	407	₹Four Hundred Seven only.	2849
8.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	13	Metre	534.00	₹Five Hundred Thirty Four only.	6942
9	S/E of LED Batten with polycarboante body and diffuser The fitting should be installed on existing surface/recess The job includes carriage, erection, making connections testing and commissioning of the fittings.					0

EF

Specification of LED fittings:					0
Wattage of LED fittings - As per following parameter.					0
Total lumens of the fittings - as per wattage					0
Diffuser - Polycarbonate diffuser/PMMA					0
Operating voltage - 140 V to 270 V, AC supply or better.					0
Input frequency - 50 Hz + 1 Hz					0
Power factor - Minimum 0.90					0
Luminaire efficacy - ≥ 100 lm/w					0
Color rendering index - CRI shall be greater than 80					0
Working/ operating temperature - 00 to + 450c or better					0
Color temperature - 60000K + 10%					0
Electronic Driver					0
Drive current (LED) - As per OEM.					0
Operating voltage - 140 V to 270 V, AC supply or better.					0
Type of driver - Constant current output driver					0
THD - Less than 10%					0
Surge Protection - 2.5 KV minimum					0
Efficiency Driver - $\geq 85\%$					
Protection - Shall have under voltage and over voltage protection.					
Guarantee of LED fittings including LED driver - 2 years against manufacturing defect.					
Fixture - Should comply with LM 79 test from UL/NABL lab.					
LED Type/ Make/ Model - Power CREE/ OSRAM/ NICHIA/ Philips LUMILED with life more than 25,000 burning hours @70% lumen maintenance complying with LM 80 test report from the manufacturer.					

	Life of LED - 25000 burning hours at 70% lumen maintenance					
	Lumen output of the fitting					
9.01	LED Batten Light ≥ 2000 Lumens.	17	Each	631.00	₹Six Hundred Thirty One only.	10727
12	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					
12.01	3 Module	4	Each	132	₹One Hundred Thirty Two Only.	528
12.02	6 Module	8	Each	164	₹One Hundred Sixty Four only.	1312
13	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required					0
13.01	5/6 amps switch	18	Each	88	₹ Eighty Eight only.	1584
13.02	3 pin 5/6 A socket outlet	18	Each	114	₹ One Hundred Fourteen Only.	2052
14	Providing and installation ventilating fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required: of Approved Make					
14.01	Ventilating Fan 250mm	13	Metre	2196	₹ Two Thousand One Hundred Ninety Six only.	28548
	Total:-					99590


 Assistant Engineer
 Electrical Sub Division
 HPPWD Snowdon, Shimla-1

*Draft schedule of quantity
 approved for Rs. 99590/- only.
 (Rs. Ninety nine thousand five
 hundred ninety only.)*


 Executive Engineer,
 Electrical Division No.-II,
 HP PWD (U.S. Club) Shimla-1