

HIMACHAL PRADESH  
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2022-23/- 4964-72

Dated: 05/9/2022

To


The Executive Engineer (IT Cell),  
Nigam Vihar, Shimla-2.

Subject: Publishing of Tender Notice.

Enclosed please find herewith the Tender Notice of works as given in the Notice Inviting Tenders along with Schedule of Quantities for uploading on departmental website as per Notification Pr. SEC(PW) to the Govt. of HP letter No. PBW(B)A9(3)1/2020 dated Shimla-26<sup>th</sup> July 2021.

It is certified that the works mentioned in the Notice Inviting Tenders are urgent in nature and in public Interest.

DA/NIT,SQs

  
Executive Engineer  
Electrical Division  
HP PWD Palampur

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

1. The Superintending Engineer, 2<sup>nd</sup> Electrical Circle, HP PWD Dharamshala.
2. The Drawing Branch in this office.
3. All the Assistant Engineers working under this Division.

  
Executive Engineer  
Electrical Division  
HP PWD Palampur

**HIMACHAL PRADESH**  
**PUBLIC WORKS DEPARTMENT**  
**"Notice Inviting Tenders"**

Sealed item rate tenders on form 6&8 are hereby invited by the Executive Engineer, Electrical Division, HP PWD Palampur on behalf of the Governor of H.P. for the following work from the approved and eligible contractors enlisted in HP.PWD, (Elect.) whose registration stood renewed as per revised rules and also registered under the H.P. General Sales Tax Act, 1968 so as to reach in his office on or before **26-09-2022** up to 11.00 AM, and the same shall be opened on the same day at 11.30 A.M. in the presence of intending contractors or their authorized representatives. The tender documents can be had from [hppwd.gov.in](http://hppwd.gov.in).

The earnest money in the shape of FDR/saving account of the Post office/Bank in H.P. duly pledged in favour of the XEN and the cost of tender in shape of Bank Draft must accompany with each tender. Conditional/ incomplete tenders & tender without earnest money will be summarily rejected. The XEN reserves the right to accept or reject any or all tenders or drop the proposal of tenders without assigning any reasons.

**Conditions:**

1. The contractor should have the EPF No. from the competent authority, failing which no tender form will be issued.
2. The contractor should be registered as a dealer under GST and should produce GST registration certificate.
3. The contractor should produce a copy of latest enlistment/renewal.
4. The bidders enlisted in a particular class shall be eligible to tender for his own class or one step below.
5. The bidder should attach authorization and work done certificate with application for Specialized Jobs.

Sr. No	Name of Work	Estimated Cost	Earnest Money	Time Limit	Form No.	Cost of Form
1	Replacement of Electrical Installation and switchgear system into new one in the Court of Civil Judge-cum Judicial Magistrate at Chamba in Tehsil & Distt. Chamba (H.P).	359656/-	7200/-	Six Months	8	350/-
2	C/O workshop and teaching block in Govt. Polytechnic collage at Talwar in Tehsil Palampur Distt. Kangra.(H.P)(SH:- Providing MCCB, fan rod etc. I workshops Additional Work)	237391/-	5000/-	Three Months	8	350/-
3	Repair of 01 No. 7.5 KVA D.G Set installed in Combined office building at Palampur Distt. Kangra (HP)	103124/-	2100/-	One Month	8	350/-
4	Repair & Maintenance of 1 No. 26 Passengers Staff Lift, 1 No. Freight lift of "KONE" make installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda for the year 2022-23.	235262/-	4700/-	One Year	8	350/-
5	Providing Up gradation of Main Panel, Sub Panel SCVB College at Palampur Distt. Kangra (H.P.).	498951/-	10000/-	One Month	8	350/-
6	Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers without machine room elevator to Mini sect. Building Dehra Tehsil Dehra Distt. Kangra w.e.f.2022-23 to 2024-25.	409788/-	8200/-	Three Years	8	350/-
7	Replacement of old / damaged wiring and safety devices along with other electrical accessories in the Residence of Joint Director (Administration) Dr. RPGMC Kangra at Tanda.	314391/-	6300/-	One Year	8	350/-
8	Repair and maintenance of E.I. to the residential accommodation at old Kangra of Sr. Civil Judge-cum-ACJM Kangra in Distt. Kangra (H.P)(SH:-Providing rewiring and replacement of old fixtures with LEDs	218884/-	4400/-	One Month	8	350/-

	therein).					
9	Shifting of D.G. Set 62.5 KVA T.B Hospital Chamba 82.5 KAV PSA Plant and 250 KVA OPD Block Medical College & Hospital at Chamba in Tehsil and Distt. Chamba (H.P).	401829/-	8100/-	Three Month	8	350/-
10	C/o Additional /Alternation on PWD Rest – House at Koti in Tehsil Churah Distt. Chamba (H.P)(SH:- Providing Campus Lighting thereof).	420008/-	8500/-	Six Months	8	350/-
11	Construction of Additional Accommodation at Child Care Institute at Sahoo in Tehsil & Distt. Chamba (H.P)(SH:- Providing E.I. & therein).	166115/-	3400/-	Two Months	8	350/-
12	C/o Gym Hall at SCVB Degree College at Palampur in Tehsil Palampur Distt. Kangra (H.P)(SH:-Providing E.I. therein).	159625/-	3200/-	One Month	8	350/-
13	Annual Repair and comprehensive Maintenance contract of 250 KVA D.G. Set installed in the Complex of H.P Board of School Education Dharamshala in District Kangra (H.P.) for three year 2022-25.	395516/-	8000/-	Three Year	8	350/-
14	Annual Repair and comprehensive Maintenance contract of 320 KVA D.G. Set installed in the Complex of H.P Board of School Education Dharamshala in District Kangra (H.P.) for three year 2022-25.	411629/-	8300/-	Three Year	8	350/-
15	Modification of Meeting hall for Administrative Block(A) of HP Board of School Education at Tehsil Dharamshala in Distt Kangra (H.P) (SH: Providing Air Conditioning system Therein).	228982/-	4600/-	Three Months	8	350/-

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## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Replacement of Electrical Installation and switchgear system into new one in the Court of Civil Judge -Cum judicial Magistrate at Chamba in Tehsil & Dist. Chamba (HP).

**Job No 1**

**ESTIMATED COST:** Rs.3,39,656/-only.  
**EARNEST MONEY:** Rs. 6800/-only  
**TIME ALLOWED:** Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
1.1	Group C	43			P/Point	
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
2	Wiring for twin control point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box)					
2.2	Group C	3			P/Point	
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
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 2.5 sq. mm	50			P/Mtrs.	
3.2	2x4.0 Sq. mm.	100			P/Mtrs.	
3.3	4x4.0 Sq. mm.	40			P/Mtrs.	
	<b>Make : KEI/Plaza/SCI/Anchor.</b>					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
4.1	3x2.5 Sq. mm.	25			P/Mtrs.	
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
5	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
5.1	1 or 2 module - Modular GI box with Modular base & cover plate.	1			Each	

5.2	3 module - Modular GI box with Modular base & cover plate	8				Each	
5.3	6 module - Modular GI box with Modular base & cover plate	5				Each	
	<b>Makes:- Anchor (Roma plus)</b>						
6	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 Amps modular Socket outlet and 3 Nos. 5/6 Amps modular switches, connection etc. as required. For light plugs to be used in non residential building).						
6.1	Modular G.I box for 12 module						
	<b>Makes:- Anchor (Roma plus)</b>	7				Each	
7	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 Amps modular socket outlet and 5/6 Amps modular Switch connection etc. as required.	6				Each	
8	Supplying and fixing suitable size G.I box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 15/16 Amps modular socket outlet and 15/16 Amps modular Switch connection etc. as required.	12				Each	
	<b>Makes:- Anchor (Roma plus)</b>						
9	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor unarmored telephone cable in the existing surface/recessed steel/ PVC conduit as required.						
9.1	1 Pair.	30					
10	Supplying and fixing following rating Modular switch/Socket in the existing switch box/ cover plate including connections etc. as required.					P/Mtrs.	
	<b>Telephone socket outlet modular type.</b>	1				Each	
11	Supplying and Fixing of following size 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.						
11.1	PVC conduit 25mm	30					
	<b>Makes:- BEC Plas/Anchor.</b>					Each	
12	Supplying and fixing PVC batten/angle holder including connection etc. as required.	2					
13	Providing and installation of LED fixture 1200mmx300mm 36 W+/- 1 W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100lm/W with CRCA housing and PMMA Diffuser with P.F>0.95, THD<10%, CCT 5700 K , CRI 80. The LED shall be tested with LM80-08 standard with Useful life 50000 Hrs at L70 Bajaj Cat. No. BZSSL 36L LED WH IW/pro/philips.					Each	
13.1	Rectangular LED panel Light 4'x1 36 Watt Surface.	11				Each	

14	Supplying and fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. power factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V , 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
14.1	LED Batten Light 20Watt.						
	Make Bajaj.	8				Each	
15	Wall light fixture, brushed nickel finish body, Opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base						
15.1	Fancy Wall Bracket.	8				Each	
16	Supplying and fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. power factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V , 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
16.1	LED Batten Light 10Watt.						
17	Supplying and fixing call/bell/buzzer suitable for single phase, 230 volts, complete as required.	1				Each	
	Makes:- Anchor.	4				Each	
18	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.						
18.1	Ceiling Fan 1200 mm sweep						
18.2	Ceiling Fan 1400 mm sweep	4				Each	
18.3	Wall Fan.	4				Each	
	Makes:- Usha/Anchor/Bajaj	2				Each	
19	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:-						
19.1	Exhaust Fan, light duty 300mm	1				Each	
	Makes:- Usha/Anchor/Bajaj						

20	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, interconnections, powder painted, including earthing etc. as required.-(But without MCB/RCCB/isolator).					
20.1	Double door-12 way Makes: Legrand,Schiender,Anchor	1			Each	
21	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-					
21.1	Single pole. Makes: Legrand,Schiender,Anchor	8			Each	
22	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.					
22.1	63 Amps. Makes: Legrand,Schiender,Anchor	1			Each	
23	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
23.1	40 Amps.	1			Each	
	63 Amps.Makes: Legrand,Schiender,Anchor	1			Each	
	Total					

Executive Engineer  
 Electrical Division  
 HPPWD Palampur

# SCHEDULE OF QUANTITY

NAME OF WORK: C/O workshop and Teaching block in govt. Polytechnic college at Talwar in Teshil palampur District kangra (H.p)  
( Sh:- Providing MCCB , fan rod etc. in workshops Additional work Therein)

Job No 2

ESTIMATED COST: Rs 2,37,391 /-only.  
EARNEST MONEY: Rs.5000 /-only  
TIME ALLOWED: Six Months

Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Providing and fixing TP&N switch disconnector fuse unit cubical type, 415/500 volts with 3 No. HBC/HRC fuses, in sheet steel enclosure including drilling holes on the board, connections, earthing the body etc. as required.					
1.01	63 amps	12			Each	
	Make :- L&T( Cat No.EM9098400H0), ABB,Schneider					
1.02	160 amps	2			Each	
	Make :- L&T( Cat NoCM9806500M0), ABB,Schneider					
1.03	200 amps	1			Each	
	Make :- L&T( Cat NoCM9806500N0), ABB,Schneider					
2	Supplying and fixing extra down rod of 10 cm length G.I. pipe; 15 mm dia; heavy gauge including painting etc.as required. ( Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored):- complete in all respect and to the best satisfaction of engineer in charge as required:-	127			Each	
3	Supplying and Fixing hanging steel wire to install the industrial tube fixtures complete all respect & to the best satisfaction of engineer in charge	280			Each	
	<b>Total</b>					


Executive Engineer

Electrical Division

HP PWD Palampur

## SCHEDULE QUANTITY

NAME OF WORK: Repair of 01 No. 7.5 KVA D.G. Set installed in Combined office building at Palampur Distt. Kangra HP			Job No <b>3</b>		ESTIMATED COST: Rs 1,03,124-only. EARNEST MONEY: Rs.2100 /-only TIME ALLOWED: Six Months	
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Repair of DG Set 7.5 KVA along with AMF panel including replacent of all types of filters, i.e. separator water filter, pre-filter, lubricant oil filter, coolant, lubricant oil etc., testing commissioning of DG set in manual and auto modes etc. as required complete in all respects as per satisfaction of Engineer-in-charge.	1			P/Job	
	Fuel Filter-1 No.					
	Air Filter-1 No.					
	Exhaust bellow -1No					
	Fuel Pipe Set-3No.					
	Air Assembly-1No.					
	Battery Charger-1No.					
	Battery 100 AH-1No.					
	Fuel Pump Repair -1No.					
	Indicator Repair -1No					
	Self Starter Repair-1No.					
	Alternator Repair 1No.					
	Panel Repair-1No.					
	Lub. Oil- 8Ltr.					
	Engine Wiring - 1No.					
	SylincerCutting & Welding-1No.					
	Labour Charges-1No					
	Canopy Repair,Cutting,welding,Painting-1No.					
	<b>Total</b>					

  
 Executive Engineer  
 Electrical Division  
 HP PWD Palampur

## SCHEDULE OF QUANTITY

NAME OF WORK: Repair and Maintenance of 1 No. 20 Passengers Staff Lift, 1 No. Freight Lift of "KONE" make installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda for the year 2022-23.			Job No <del>8</del>		ESTIMATED COST: Rs 2,35,262 /-only. EARNEST MONEY: Rs.4700 /-only TIME ALLOWED: Six Months	
Sr. No.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURE S	WORDS		
1	Annual Repair and Maintenance of 1 No. 20 Passengers Staff Lift, 1 No. Freight Lift of "KONE" make i.e. routine services at the regular interval of one month, regular systematic examination adjustment, lubrication of machines, motors controller parts including replacement of worn-out parts gears etc., bearing break shoe, rotating element, contact coils, resistance for operating motors, magnetic frames etc. and other mechanical as well as electrical parts etc. as required to maintain the lifts in proper and safe operating conditions including emergency break down all attending services and best satisfaction of the Engineer-in-charge for the year 2022-23					
i)	1 No. 20 Passengers Lift (1360 Kgs.) and 1 No. Freight Lift (2000 Kgs.) for twelve months.	1			Each	
	<b>Total</b>					

  
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 Electrical Division  
 HP PWD Palampur

### SCHEDULE OF QUANTITY

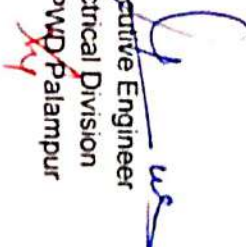

**NAME OF WORK :- Providing Upgradation of Main L.T. Panel and Sub-Panel of SCVB Govt. Degree college Palampur District Kangra (H.P.)**

NAME OF WORK :- Providing Upgradation of Main L.T. Panel and Sub-Panel of SCVB Govt. Degree college Palampur District Kangra (H.P.)		Job No 5		ESTIMATED COST: Rs. 4,98,951/-only. EARNEST MONEY: Rs. 10000/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT
				WORDS		
1	Supplying, Installation, Testing and Commissioning of indoor s/door, Cubical type L.T. Panel. The Panel shall be compartmentalized type having space and arrangement for incoming and outgoing cables/bus ducting, switchgear, insulated and properly supported compartmentalized bus-bars, interconnection between bus bars and switchgear with auxiliary bus bars/insulated conductors/strips etc. It shall be fabricated in 16G CRCA sheet, base frame 40X40X5MM angle duly painted with Siemens Grey Powder Coated paint as per specification Approximate Size of Panel H-1300 X W-1500 X D-450MM X I-450mm. Assembly of 630A 4 strip copper Bus-Bar (Vertical /Horizontal) & Earth strip through out the length of panel n(current density ) of copper Bus-Bar shall be 1mmx1mm=1.66 Amp} copper shall be Electric grade DMC epoxy insulator . All Busbars links shall be covered / insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black Assembly Charges of Copper solid/ Copper flexible wire interconnection Busbar to MCCB/MCB to field side for Cable termination duly covered/ insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue & Black. All Interconnections of fields side are supported by conical, L & Finger type insulators of adequate size to support & sustain the weight of cables. Control Wiring with Copper Flexible Wire (size of control wire shall be 2.5 sq. mm copper flexible for C.T. Circuit & 1.0 sq. mm for Control Wiring) with thimbles printed sleeves, tie & belt etc. Assembly Charges of Accessories like Gasket, Doorlocks, Copper Flexible door earth, legend plates etc. as required complete in all respects and panel should be Approved/ Tested from CPRI Lab and should confirm IS 61439. (EVA/KSB Approved equivalent make)					
	The panel shall include the following switchgears & Accessories as per the make of Schneider, L&T, Siemens, ABB etc.					
	Material					

i	Main Incomer:- MCCB 630 A 4P- 36 KA TMR with O/L & S/C protection-1No., spreader link 630A 4P-1 No. Digitally metering set including Amp meter 96X96mm-1 No., Volt meter 96X96mm-1No., Ampere selector switch-1 No., Voltmeter selector, Phase indicating Lamp-3 Nos,						
ii	Outgoing:-						
iii	MCCB 100A 4P 25 KA TMR with O/L & S/C protection=4No, Spreader link MCCB 100A 4P= 4Nos, Indicating Lamps LED type RYB=6 Nos,						
iv	All interconnections of fields side are supported by conical, L & finger type insulators of adequate size to support & sustain the weight of cables, Control wiring with copper flexible FRLS wire with thimbles, printed sleeves, tie & belt etc;						
v	The prices of complete job as per the specifications above shall be inclusive of gasket, doorlocks, reading glass, wooden, copper flexible door earth, legend plates etc,	1				Per Job	
	Makes for MCCB : Schneider/L&T/ABB .						

<p>Supplying, Installation, Testing and Commissioning of indoor s/door, Cubical type L.T. Panel. The Panel shall be compartmentalized type having space and arrangement for incoming and outgoing cables/bus ducting, switchgear, insulated and properly supported compartmentalized bus-bars, interconnection between bus bars and switchgear with auxiliary bus bars/insulated conductors/strips etc. It shall be fabricated in 16G duly painted with Siemens Grey Powder Coated paintas per specification</p> <p>Approximate Size of Panel H-1000 X W-600 X D-200MM. Assembly of 100 A 4 strip copper Bus-Bar (Vertical /Horizontal) &amp; Earth strip through out the length of panel n(current denesty ) of copper Bus-Bar shall be 1mmx1mm=1.66 Amp; copper shall be Electric grade DMC epoxy insulator . All Busbars links shall be covered / insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue &amp; Black Assembly Charges of Copper solid/ Copper flexible wire interconnection Busbar to MCCB/MCB to field side for Cable termination duly covered/ insulated with Heat Shrinkable sleeves of coloured coded Red, Yellow, Blue &amp; Black. All Interconnections of fields side are supported by conical, L &amp; Finger type insulators of adequate size to support &amp; sustain the weight of cables. Control Wiring with Copper Flexible Wire (size of control wire shall be 2.5 sq. mm copper flexible for C.T. Circuit &amp; 1.0 sq. mm for Control Wiring) with thimbles printed sleeves, tie &amp; belt etc. Assembly Charges of Accessories like Gasket, Doorlocks, Copper Flexible door earth, legend plates etc. as required complete in all respects and panel should be Approved/Tested from CPRI Lab and should confirm IS 61439. (EVA/KSB Approved equivalent make)</p>				
<p>The panel shall include the following switchgears &amp; Accessories as per the make of Schneider, L&amp;T, Siemens, ABB etc.</p>				
<p><b>Material</b></p> <p>Main Incomer:- MCCB 63/100 A 4P- 25 KA TMR with O/L &amp; S/C protection- 1No., spreader link 63/100A 4P-1 No. Digitally metering set including Amp meter 96X96mm-1 No., Volt meter 96X96mm-1No., Ampere selector switch- 1 No., Voltmeter selector, Phase indicating Lamp-3 Nos.</p>				
<p><b>Outgoing:-</b></p> <p>MCCB 100A 4P 25 KA TMR with O/L &amp; S/C protection=1No. Spreader link MCCB 100A 4P= 1Nos. Indicating Lamps LED type RYB=3 Nos.</p>				

	All interconnections of fields side are supported by conical, L & finger type insulators of adequate size to support & sustain the weight of cables. Control wiring with copper flexible FRLS wire with thimbles, printed sleeves, tie & belt etc;					
	The prices of complete job as per the specifications above shall be inclusive of gasket, doorlocks, reading glass, wooden, copper flexible door earth, legend plates etc.					
	<b>Makes for MCCB : Schneider/L&amp;T/ABB</b>	2			Per Job	
3	Wiring for circuit /Sub-main wiring alongwith the following sizes of FRLS PVC insulated copper conductor , single core cable in surface /Recessed steel conduit as required <b>Make:- SC/KEI/Plaza</b>					
	<b>4X16 sq mm+ 2X6 sq mm earth wire</b>	8			P/Mtr	
	<b>Total</b>					

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur  


## SCHEDULE OF QUANTITY

NAME OF WORK :- Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers without machine room elevator to Mini sect. Building Dehra Tehsil Dehra Dist. Kangra w.e.f. 2022-23 to 2024-25.					
SR. NO.		DESCRIPTION		QTY.	
				FIGURES	
				RATES	
				WORDS	
				UNIT	
				AMOUNT	
1		Repair and Comprehensive Maintenance of 1 No. Electric Traction 13 Passengers without machine room elevator "Kone" make i.e. routine services at the regular interval of one month, regular systematic examination adjustment, lubrication of machines, motors controller parts including replacement of worn-out parts gears etc., bearing break shoe, rotating element, contact coils, resistance for operating motors, magnetic frames etc. and other mechanical as well as electrical parts etc. as required to maintain the elevator and safe operating conditions including emergency break down all attending services and sudden damages of mechanical parts etc. and best satisfaction of the Engineer-in-charge.			
2		1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2022-23. (From 1st September 2022 to 31st August 2023)		1	
					Per Year
3		1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2023-24. (From 1st September 2023 to 31st August 2024)		1	
					Per Year
3		1 No. 13 Passengers Lift (Capacity 884 Kgs) for the year 2024-25. (From 1st September 2024 to 31st August 2025)		1	
					Per Year
		Make : Kone			
		Total			

ESTIMATED COST: Rs. 4,09,788/-only.  
EARNEST MONEY: Rs. 8200/-only  
TIME ALLOWED: Three Year

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HPPWD Palampur

## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Replacement of old/damaged wiring and safety devices along with other electrical accessories in the Residence of Joint Director (Administration) Dr. RPGMC Kangra at Tanda.

**Job No 7**

**ESTIMATED COST:** Rs.3,14,391/-only.  
**EARNEST MONEY:** Rs. 6300/-only  
**TIME ALLOWED:** One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1.1	Group B	44			Point	
	<b>Make : KEI/Plaza/Anchor/SCI</b>					
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way 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. <b>Make : KEI/Plaza/Anchor/SCI.</b>	4			Point	
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. <b>Make : KEI/Plaza/Anchor/SCI</b>					
3.1	2x1.5 Sq. mm.	85			P/Mtr	
3.2	2x4.0 Sq. mm.	100			P/Mtr	
3.3	4x4.0 Sq. mm.	58			P/Mtr	
3.4	2x10 Sq. mm.	28			P/Mtr	
	<b>Make : KEI/Plaza/BEC/SCI</b>					
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. <b>Make : KEI/Plaza/Anchor/SCI</b>					
4.1	3x1.5 Sq. mm.	50			P/Mtr	
5.0	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/isolator)					

5.1	8 way double door	1				Each	
5.2	12 way double door	2				Each	
	<b>Make:-Lerand/Schneider/Anchor.</b>						
6.0	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 amps modular switch connection etc. as required. <b>Make : KEI/Plaza/Anchor/SCI</b>	31				Each	
7.0	Supplying and fixing suitable size GI box with modular plate and cover in FRLS on surface or in recess including providing and fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch connection etc. as required.	15				Each	
	<b>Make : KEI/Plaza/Anchor/SCI</b>						
8	Supplying and fixing call bell/buzzer suitable for single phase 230 volts complete as required	1				Each	
9	Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
9.1	6-32 A, Single pole	21				Each	
	<b>Makes:- L&amp;T/Legrand/Schneider</b>						
10	Supplying and fixing 40/50/63 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
10.1	63 A, Double pole	3				Each	
	<b>Makes:- L&amp;T/Legrand/Schneider</b>						
11	Supplying and fixing following rating double pole (single phase & neutral)240 volts residual current circuit breaker (RCCB) having a sensitivity current 30 milli ampere in the existing MCBDB complete with connections testing and commissioning etc. as required.						
11.1	63 A,	1				Each	
12	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens,CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc.						
12.1	10 Watt LED Bulkhead	3				Each	

	<b>Makes:- Philips/Wipro/Trilux</b>							
13	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:-							
13.1	Exhaust Fan, light duty 300mm							
	<b>Makes:- Usha/Anchor/Bajaj</b>							
14	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.							
14.1	Ceiling Fan 1200 mm sweep							
	<b>Makes:- Usha/Anchor/Bajaj</b>							
15	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-							
15.1	25 Liter capacity water heater							
	<b>Makes:- Havells/Bajaj/Racold</b>							
16	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube, up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required, complete in all respects.							
16.1	LED 18 Watt Tube fixture							
	<b>Makes:- Havells/Bajaj/Wipro</b>							
17	Supplying and fixing surface round/square type LED 18 Watt (1800 lumen), 6000K made of white powder-coated pressure die-cast aluminium housing and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz complete with all accessories, connections, testing and commissioning etc.							
17.1	18 Watt LED round surface							
		23					Each	

18	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens, CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc.						
18.1	LED Bulkhead, 10 Watt	4				Each	
	<b>Make : Philips/Trilux/Wipro</b>						
19	Providing and fixing decorative LED mirror light having high quality design suitable for LED tube up to 10Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
19.1	10 Watt LED Mirror Light	3				Each	
	<b>Make:- Bajaj / Havells / Osram</b>						
20	Providing installation testing and commissioning of wall fan of following size by means of suitable rag-boltnuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer-in-charge of approved make.						
20.1	Wall fan 400mm sweep	1				Each	
	<b>Make:- Usha / Bajaj / anchor</b>						
	<b>Total</b>						

  
 Executive Engineer  
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## SCHEDULE OF QUANTITY

NAME OF WORK :- Repair and maintenance of E.I. to the residential accommodation at Old Kangra of Sr. Civil Judge-cum-ACJM Kangra in Distt. Kangra (H.P.) (SH: Providing rewiring and replacement of old fixtures with LEDs therein)		Job No 8		ESTIMATED COST: Rs.2,18,884/-only. EARNEST MONEY: Rs. 4400/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without modular switch, modular plate and G.I. box) Make : KEI/Plaza/Anchor/SCI					
	Group B	48			Point	
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.Make : KEI/Plaza/Anchor/SCI					
2.1	2x1.5 Sq. mm.	90			P/Mtr	
2.2	2x4.0 Sq. mm.	103			P/Mtr	
2.3	2x10 Sq. mm.	20			P/Mtr	
2.4	4x4.0 Sq. mm.	20			P/Mtr	
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.					
	3x1.5 Sq. mm.Make : KEI/Plaza/Anchor/SCI	40			P/Mtr	
4	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
4.1	S.P. 5/6 amps, one way modular switch	80			Each	
4.2	S.P. 15/16 amps, one way modular	14			Each	
4.3	3 pin 5/6 amps modular socket outlet	29			Each	
4.4	6 pin 15/16 amps modular socket outlet	16			Each	

4.5	Modular bell push, ISI marked	2				Each	
	Makes:- L&T/LeGrand/Schneider						
5	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.						
	Modular blanking plate	24				Each	
	Makes:- L&T/LeGrand/Schneider						
6	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.						
6.1	2 module - Modular GI box with Modular base & cover plate	4				Each	
6.2	3 module - Modular GI box with Modular base & cover plate	7				Each	
6.3	4 module - Modular GI box with Modular base & cover plate	2				Each	
6.4	5 module - Modular GI box with Modular base & cover plate	11				Each	
6.5	12 module - Modular GI box with Modular base & cover plate	8				Each	
	Makes:- L&T/LeGrand/Schneider						
7	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.						
	Stepped type Modular Fan regulator (2 module)	7				Each	
	Makes:- L&T/LeGrand/Schneider						
8	Supplying and fixing of LED Bulkhead with a nominal system output of 1000 lumens, CCT 6500K Ceiling and wall mount LED bulk head serves as an excellent energy efficient alternative to CFL/incandescent bulkhead luminaires suitable for surface and wall mounting application as required complete with all accessories, connections, testing and commissioning etc.						
	10 Watt LED Bulkhead	11				Each	
	Makes:- Wipro/Philips/Trilux						
9	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:-						
	Exhaust Fan, light duty 300mm	2				Each	
	Makes:- Usha/Anchor/Bajaj						
10	Providing, installation, testing and commissioning of wall fan, including wiring with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.						

	Wall Mounting Fan 400mm	1				Each	
	Makes:- Usha/Anchor/Bajaj						
11	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.						
	Ceiling Fan 1200 mm sweep	1				Each	
	Makes:- Usha(Model: Technix Plus 3 Star)\Bajaj\Havells						
12	Providing and fixing decorative extruded tube fixture having high quality design suitable for LED tube up to 18Watt (1800 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, including one no. tube rod 18 Watt complete with all accessories, connections, testing and commissioning etc. as required, complete in all respects.						
	LED 18 Watt Tube fixture	12				Each	
	Makes:- Havells\Wipro\Bajaj						
13	Providing and fixing decorative LED mirror light having high quality design up to 10 Watt (1000 lumen) 6500K and it should be compatible with specifications i.e. power factor $\geq 0.9$ , harmonic distortion $\leq 10\%$ and efficacy $\geq 100$ lumens per watt, CRI $> 80$ , suitable for input voltage AC 220-240V, 50/60 Hz, complete with all accessories, connections, testing and commissioning etc. as required.						
	10 Watt LED Mirror Light	2				Each	
	Makes:- Havells/ Bajaj/Osram						
	Total						

  
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## SCHEDULE OF QUANTITY

NAME OF WORK :- Shifting of D.G Set 62.5 Kva T.B Hospital Chamba.82.5 Kva PSA Plant and 250 Kva OPD Block medical College & Hospital at Chamba in Tehsil and Distt. Chamab (H.P)					
SR. NO.		DESCRIPTION		QTY.	
				Job No 9	
				ESTIMATED COST: Rs. 4,01,829/-only. EARNEST MONEY: Rs. 8100/-only TIME ALLOWED: Three Months	
				RATES	
				FIGURES	WORDS
				UNIT	
				AMOUNT	
1		Hiring Charger of Hydra for Shifting of D.G Set 62.5 Kva at T.B Hospital Chamba.82.5 Kva at PSA Plant and 250 Kva OPD Block at medical College & Hospital at Chamba	1		Job
3		Excavation work by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.			
i.		(6.35x2.75x0.45) =7.85 cum.	7.85		P/cum
		Centering and shuttering including strutting propping etc. and removal of form work for Retaining walls, return walls, (any thickness) including attached pilasters buttresses,plinth and string courses fillets, kerbs and steps etc.(5.25x0.40x=4.2)(2.75x0.40x2=2.2)=6.44 Cum	6.44		P/cum
ii		Providing and laying 1:4:8 (1 cement : 4 Coarse sand : 8graded stone aggregate 20 mm nominal size) in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering , finishing and reinforcement.(5.85x2.75x0.050=0.80) Cum	0.80		P/cum
iv		Providing and laying in position 1:2:4 cement concrete of specified grade excluding the cost of centering and shuttering- All work up to plinth level. 5.10x1.80x0.40x0.40=3.67 Cum.	3.67		P/cum
4		Providing and fixing following rating, four pole, 415 volts, On-Load change over switch unit, in sheet steel enclosure, with side handle operation, including drilling holes on the board, making connections, etc. as required.			
i		63 amps. TPN, On Load Change over switch(SS enclosure type)	3		Each

5	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.	12				Set	
6	Providing and fixing 20mm x 3mm copper strip on surface or in recess for earth connections etc. as required.	120				mtrs.	
	Total						

  
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## SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Additional/Alternation on PWD Rest-House at Koti in Tehsil Churah Distt. Chambah.P. (SH:-Providing Campus Lighting thereof)					Job No 10		ESTIMATED COST: Rs. 4,20,008/-only. EARNEST MONEY: Rs. 8500/-only TIME ALLOWED: Six Months	
SR. NO.	DESCRIPTION	QTY.	FIGURES		RATES		UNIT	AMOUNT
						WORDS		
1	Supplying and fixing of ruby Small LED Post Top fixture of following capacity are made of Die cast alum. housing with three nos. die cast aluminium arms are provided to support the housing Power LED's are mounted on metal clad PCB's and LED's & PCB assembly are mounted extruded aluminium Heat Sinks. A UV stabilized PC diffuser is provided as complete in all respects as required:-							
1.1	<b>RUBY Small-40W LED</b>	10					Each	
	<b>Makes: Twinkle LuxMax/Electrocine</b>							
2	Supplying and erection of Steel Ribbed Poles- are combination of Galvanised Ribbed steel tubes having 105mm dia at bottom and 81mm dia at Top with cast alum. Embellishments-Q1. The Poles are primer coated and painted with Polyurethane paint. Poles are suitable for Single/Double/Triple/Four Side Post Top / Drop Down Luminaires. The Poles has a service window at the bottom comprising four way 25Amp connector terminal and a MCB. Poles has a mild steel base plate having four numbers mounting holes and can be mounted with four numbers anchor bolts complete in all respects as required:-							
2.1	<b>3 Mtr. - LuxMax-Steel Ribbed Pole - 105 -81 with EMB-Q1</b>	8					Each	
	<b>Makes: Twinkle LuxMax/K-Lite/Bajaj</b>							
3	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering.							
3.1	<b>Armoured cable 6 sq. mm. (twin core) in Ground</b>	185					Per Meter	
4	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, 1.1 KV grade of following size on the Wall Surface etc. as required. <b>Make : KEI/Plaza/Anchor/SCI</b>							

4.1	Armoured cable 6 sq. mm. (twin core) on Surface	10				Per Meter	
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.						
5.1	3x2.5 Sq. mm.	30				P/Mtr	
	Make : KEI/Plaza/Anchor/SCI						
6	Supplying and fixing Polycarbonate box including din bar to fix MCB & Cable termination link, complete with fixing in the existing wall including making good the damages etc. as required complete in all respect.						
6.1	Polycarbonate Box. Makes:- Sintex.	10				Each	
7	Providing and Installation of LED fixture 18 W+/- 1 W LED Round Surface Mounted Downlighter Round shape with minimum system lumen efficacy of 85 lm/W with and P.F>0.95 with THD<20%, CCT 6000 K, CRI 80. The LED with Useful life of 50000 Hrs at L70. The Input voltage range shall be 150V to 270V. Wipro Cat No. LD80-171 XXX-60-SM/Philips/Trilux.						
7.1	Square/round LED panel Light	15				Each	
	18 Watt Surface.						
8	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, interconnections, powder painted, including earthing etc. as required:- (But without MCB/RCCB/isolator).						
8.1	Double door-8 way	1				Each	
	Makes:- Anchor/Legrand/Schneider .						
9	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-						
9.1	Single pole. Makes:- Anchor/Legrand/Schneider .	2				Each	

	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
10	40 Amps.	1			Each	
10.1	Makes:-Anchor /Legrand/Schneider					
10	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
10.1	40 Amps.	1			Each	
	Makes:-Anchor /Legrand/Schneider					
	Total					

  
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## SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Construction of Additional Accommodation at Child Care Institute at Sahoo in Tehsil & Distt. Chamba H.P. (SH:- Providing E.I & therein).		Job No 11		ESTIMATED COST: Rs. 1,66,115/-only. EARNEST MONEY: Rs. 3400/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
	Make:- Legrand (Myrius)/ Schneider(Livia)/Anchor Roma (Plus)/SCI/KEI/Plaza.					
	Group C.	23			Per point	
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Make:-SCI/KEI/Plaza					
i	2 X 2.5 sq. mm	30			P/Mtr	
ii	2x4.0 Sq. mm.	40			P/Mtr	
iii	2 X 06 sq. mm	10			P/Mtr	
iv	4x4.0 Sq. mm.	2			P/Mtr	
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.					
i	3x2.5 Sq. mm.	12			P/Mtr	
	Make : KEI/Plaza/Anchor/SCI					
4	Supplying and fixing suitable size G.I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 Amps modular socket outlet and 5/6 Amps modular Switch connection etc. as required.	4			Each	
5	Supplying and fixing suitable size G.I box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 15/16 Amps modular socket outlet and 15/16 Amps modular Switch connection etc. as required.	5			Each	
i	Makes:- Anchor (Roma plus)					

6	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:-					
i	P/1 25 liter capacity water heater (Cat.-A). <b>Make:-Bajaj /Usha/Racold.</b>	1			Each	
7	Supplying and fixing 32 Amp. power unit (with cable output) for geyser/ Air Conditioner including connections, installation, testing and commissioning etc. as required and to the best satisfaction of Engineer-in-charge.					
i	<b>32 Amps. Power Unit</b>	1			Each	
	<b>Make: Legrand/L&amp;T/Anchor (Roma Plus) or equivalent make as approved by the Engineer-in-charge.</b>					
8	Providing and erection of LED 45 watt street light luminaires, powder coated pressure-die-cast aluminium SMDLED Street light with resistant toughened glass including connections, testing and commissioning etc. as required <b>Make Jaquar/Panasonic/Wipro.</b>					
	<b>Street Light 45 Watt.</b>	2			Each	
9	Supplying and fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. power factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i	<b>LED Batten Light 20Watt.</b>	12			Each	
	<b>Make Bajaj.</b>					
10	Wall light fixture, brushed nickel finish body, Opal Glass diffuser, suitable for 7 Watt retrofit LED lamp E27 base					
i	<b>Fancy Wall Bracket.</b>	1			Each	
11	Supplying and fixing following type of Surface mounted luminaires, white power coated CRCA housing diffuser to avoid glare, it should be compatible with specification i.e. power factor > 0.9, Harmonic Distortion < 20% and efficacy > 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required.					
i	<b>LED Batten Light 10Watt. Make:-Bajaj.</b>	1			Each	

12	Providing, installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.							
i	Ceiling Fan 1200 mm sweep	1					Each	
ii	Ceiling Fan 1400 mm sweep	3					Each	
	<b>Makes:- Usha/Anchor/Bajaj</b>							
13	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:-							
i	Exhaust Fan, light duty 300mm	2					Each	
	<b>Makes:- Usha/Anchor/Bajaj</b>							
14	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, interconnections, powder painted, including earthing etc. as required.-(But without MCB/RCCB/isolator).							
i	<b>Double door-12 way</b>	1					Each	
	<b>Makes:- Anchor/Legrand/Schneider.</b>							
15	Supplying and erection of 6 amps. to 32 amps. rating, 240/415 volts, 10 KA, 'C' curves, miniature circuit breaker suitable for inductive load: of following poles in the miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:-							
i	<b>Single pole. Makes:- Anchor/Legrand/Schneider.</b>	8					Each	
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 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
i	<b>40 Amps.</b>	1					Each	
	<b>Makes:- Anchor /Legrand/Schneider</b>							
17	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
i	<b>40 Amps.</b>	1					Each	
	<b>Makes:-Anchor /Legrand/Schneider</b>							

18	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 of 2.7 meter long etc. with charcoal/coke and salt as required.	1			Per set	
19	Providing and laying earth connection from earth with 4.00mm dia copper wire in 15 mm dia G.I pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	20			P/Run. Mtrs.	
Total						

  
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## SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Gym Hall at SCVB Degree college Palampur in Teshil Palampur Distt. Kangra (H.P.) (Sh:- Pdg. E.I therein)		Job No 12		ESTIMATED COST: Rs.1,59,625/-only. EARNEST MONEY: Rs. 3200/-only TIME ALLOWED: One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	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.					
	Group C.	23			Per point.	
	SCI/KEI/Plaza make					
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	18			P/Mtr.	
	SCI/KEI/Plaza make					
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					
	3X2.5 sqmm	12			P/Mtr.	
	SCI/KEI/Plaza make					
4	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	22			P/Mtr.	
	SCI/KEI/Plaza make					
5	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required	17			P/Mtr.	
	SCI/KEI/Plaza make					

6	Wiring for circuit /Submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required						
	2X6 sqmm+1X6 sq mm earth wire	2				P/Mtr.	
	<b>SCI/KEI/Plaza make</b>						
7	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. <b>Make:- Anchor /Legrand/ Schneider.</b>	5				Each.	
8	Supplying and fixing suitable size G I box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required. <b>Make:- Anchor /Legrand/ Schneider.</b>	4				Each.	
9	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.						
	Ceiling Fan 1200 mm sweep, Category-A	6				Each	
	<b>Makes :-Ceiling Fan 1200 mm sweep, Category-A usha Technix Plus 3 Star,Philips,Bajaj</b>						
10	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:-						
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep <b>Make:- Usha/Philips /Bajaj.</b>	2				Each	
11	Providing and installation of LED Fixture 18W+/- 1W with LEDround surface mounted Downlighter round shape with minimum system lumen efficacy of 85lm/W with and P.F > 0.95 WITH THD, <20%, CCT 6000 K, CRI 80, The LED with uses ful life of 50000 Hrs. at L70. The Input voltage range shall be 150v to 270v. Wipro Cat No. Ld80-171-XXX-60-SM 1/Philips/ Trilux with <b>five year warranty.</b>						

	Square/round LED Panel Light 18 Watt	11				Each	
	<b>Makes :-Wipro (Cat. No. LL20-281-XXX-ALI ) Philips/Trilux any other approved by Engineer-in-Charge.</b>						
12	Supplying and fixing of 6 amps. to 32 amps. rating, 240/415 volts,10 kA 'C' curves, miniature circuit breaker suitable for inductive load of following poles in the existing miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc. as required:- <b>Make:- Anchor /Legrand/ Schenider.</b>						
	6 Amp Single pole. Cat-A.	2				Each	
	16 Amp Single pole. Cat-A.	4				Each	
13	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>Make:- Anchor /Legrand/ Schenider.</b>						
	63 Amps. Cat-A.	1				Each	
14	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>Make:- Anchor /Legrand/ Schenider.</b>						
	63 Amps. Cat-A.	1				Each	
15	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:- <b>Make:- Anchor /Legrand/ Schenider.</b>						
	Double door-12 way	1				Each	

16	Earthing with copper earth plate 600 mmx600 mmx 3 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal or coke and salt complete as required.	1				Each	
17	Supplying and laying 8 SWG Copper wire at 0.50 mtr. below ground level for earth electrode conductor, including soldering etc. as required.	25				Each	
18	Providing and installation of IP65 LED Bulk Head 10 W +/- 1 W LED with system with efficacy 100 lm/W with Aluminium housing and P. F $\geq$ 0.95 with THD < 10%, CCT 5700 K, CRI 70, Surge protection 4 Kv. The LED with useful life of 50000 Hrs at L70. The input voltage range shall be 150V to 270V . with five year warranty.	4				Each	
	Makes :- Wipro Philips/Trilux						
	Total						

  
 Executive Engineer  
 Electrical Division  
 HPPWB Palampur

## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Annual Repair and comprehensive Maintenance contract of 320 KVA D.G.Set installed in the Complex of H.P Board of School Education Dharamshala in District Kangra (H.P.) for three year 2022-25.

**Job No** 14

**ESTIMATED COST:** Rs.4,11,629/-only.  
**EARNEST MONEY:** Rs. 8300/-only  
**TIME ALLOWED:** Three Years

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Annual repair and comprehensive maintenance contract (routine & preventive) of DG Set 320 KVA along with AMF panel including providing 2 Nos Half yearly services or after 250 running hours which ever is earlier for defect liability period of one year including replacement of all types of filters, i.e. Fuel filter, super bye pass filter,screen filter, air filter, lubricant oil filter, coolant, lubricant oil etc., testing commissioning of DG set in manual and auto modes etc. as required including emergency breakdown call attending and and service with Engineer/Supervisor of authorised company etc. and including the cost of replacements of batteries as per the requirement of site as required complete in all respects as per satisfaction of Engineer-in-charge. The Half yearly service include the following material.					
	..... Diesel filter			= 1 No.		
	..... Super Bye Pass filter			= 1 No.		
	..... Lubricant Oil Filter			= 1 No.		
	..... Air filter			= 1 No.		
	..... Screen filter			= 1 No.		
	..... Coolant			= 5 Liters		
	..... Lubricant Oil			= 40 Liters.		
	First year	1			Per / Year	
	Second year	1			Per / Year	
	Third year	1			Per / Year	

Supplying, erection, testing & commissioning of 12V Battery suitable for 320 KVA DG set as required complete in all respects and to the best satisfaction of Engineer-in-Charge.	2				Each	
Total						

  
 Executive Engineer  
 Electrical Division  
 HPPWD Palampur

## SCHEDULE OF QUANTITY

NAME OF WORK :- Modification of Meeting hall for Administrative Block(A) of HP Board of School Education at Tehsil Dharamshala in Distt Kangra (H.P) (SH: Providing Air Conditioning system Therein).						
SR. NO.		DESCRIPTION	QTY.	Job No 15		ESTIMATED COST: Rs.2,28,982/-only. EARNEST MONEY: Rs. 4600/-only TIME ALLOWED: Three Months
				FIGURES	RATES	
				WORDS		
1		Supplying, installation, testing and commissioning of 2 Ton (Hot & Cold) 4 star Inverter Split type Air-Conditioning unit of following make confirming to I.S.I.-1391 PART-1992 with ammendment No. 1 (expect power consumption norms) fitted with hermetically shielded air-compressor as required complete in all respects. Makes: O-General/ Mitsubishi.	2			Each
2		Supplying and fixing wall mounting Automatic voltage stabilizer of 5KVA rating with output 240 volts with voltage regulation range from 130 volt to 300 volt and auto cut off beyond this range and time delay operation for the surges and fluctuations suitable for 2 TR capacity split type Air-Conditioner including making connections etc. as required complete in all respects. Makes:- Godrej/Bluestar/Blue bird	2			Each
3		Providing & fixing of M.S. Outdoor heavy duty stand powder coated suitable to hang 1.5/2.0 TR Split type AC with six nos. anchor bolts as required complete in all respects and as per direction of Engineer in charge.	2			Each
4		Providing & fixing of extra copper tubes for refrigerant and condensate (1/4" x 5/8") for 2 T.R. split type A.C. units and wiring with suitable size of HRFRLS copper conductor single core cables, including the cost of insulation etc. as required complete in all respects.	6			Per Meter
5		Supplying and fixing of following sizes of Chlorinated polyvinyl chloride (CPVC) drain pipe IS: 15778 ISI mark, ISO 9001:2015, significantly more flexible and can withstand higher temperatures than standard PVC, along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. Make: Vectus/Astral/Diplast	10			Per Meter
Total						

Executive Engineer  
 Electrical Division  
 HPPWD Palampur

## SCHEDULE OF QUANTITY

**NAME OF WORK :-** Annual Repair and comprehensive Maintenance contract of 250 KVA D.G.Set installed in the Complex of H.P Board of School Education Dharamshala in District Kangra (H.P.) for three year 2022-25.

Job No 13

**ESTIMATED COST:** Rs.3,95,516/-only.  
**EARNEST MONEY:** Rs. 8000/-only  
**TIME ALLOWED:** Three Years

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Annual repair and comprehensive maintenance contract (routine & preventive) of DG Set 250 KVA along with AMF panel including providing 2 Nos Half yearly services or after 250 running hours which ever is earlier for defect liability period of one year including replacent of all types of filters, i.e.fuel filter, Inhabitor corrossion filter, lubricant oil filter,air filter, coolant, lubricant oil etc., testing commissioning of DG set in manual and auto modes etc. as required including emergency breakdown call attending and and service with Engineer/Supervisor of authorised company etc. and including the cost of replacements of batteries as per the requirement of site as required complete in all respects as per satisfaction of Engineer-in-charge. The Half yearly service include the following material.					
	..... Diesel filter			= 1 No.		
	..... Inhabitor corrossion filter			= 1 No.		
	..... Lubricant Oil Filter			= 1 No.		
	..... Kit Air Cleaner			= 1 No.		
	..... Coolant			= 5 Liters		
	..... Lubricant Oil			= 35 Liters.		
First year		1			Per / Year	
Second year		1			Per / Year	
Third year		1			Per / Year	

2	Supplying, erection, testing & commissioning of 12V Battery suitable for 250 KVA DG set as required complete in all respects and to the best satisfaction of Engineer-in-Charge.	2				Each	
	<b>Total</b>						

Executive Engineer  
 Electrical Division  
 HPPWD Palampur