

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW/EDP/CB/TA/CONT/2022-23/- 4596-4604

Dated: 30/8/2022

To

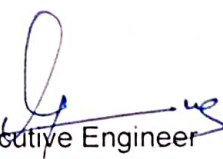
The Executive Engineer (IT Cell),
Nigam Vihar, Shimla-2.

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-26th 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, 2nd 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 **14.09.2022** 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.

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	Annual Repair and comprehensive Maintenance contract of 01 No. 62.5 KVA D.G. Set installed in the o/o Chief Engineer (KZ) office building Dharamshala in Distt. Kangra (H.P.) for three years (2022-25).	208367/-	4200/-	Three Year	8	350/-
2	Annual Repair and comprehensive Maintenance contract of 01 No. 100 KVA D.G. Set installed in Vidhan Sabha Building Complex at Tapovan (Dharamshala) in Distt. Kangra (H.P.) for three year (2022-25).	257913/-	5200/-	Three Year	8	350/-
3	Repair & Maintenance of HVAC system installed in 500 bedded hospital Dr. RPGMC Kangra at Tanda. (SH:- Rewinding of Compressor motor, Replacement of compressor oil, Refrigerant R-22, power contactor, temperature sensor etc. of chiller No. II).	480150/-	9700/-	One Month	8	350/-
4	C/o additional accommodation to Govt. Sr. Sec. School Building at Golwan in Tehsil Fatehpur Distt. Kangra (H.P.) (SH:- Providing E.I. in Ground & First Floor therein).	194397/-	3900/-	One Year	8	350/-
5	R/M of E.I. to various Govt. Non residential building in Distt. Kangra under Electrical Sub- Division HP PWD Dharamshala Distt. Kangra (HP).	148960/-	3000/-	One Month	8	350/-
6	Construction of office Cum residence for C.I.D wing of police Department at Chamba Distt. Chamba (Sub-Head :- Providing Water Heater (Geyser) Therein).	127078/-	2600/-	Three Months	8	350/-
7	R/M of E.I. to various Govt. Non Residential building in Distt. Kangra under Electrical Sub - Division HP PWD Dharamshala Distt. Kangra (H.P.).	101270/-	2100/-	One Year	8	350/-
8	C/O Govt. Sr. Sec. School at Seul in Tehsil Jaswan Distt. Kangra (HP) (3 rooms in Ground Floor and 3 Rooms in First Floor with Stair & Verandah) (SH: Providing E.I. there in).	406708/-	8200/-	One Year	8	350/-
9	Replacement of old / damage wiring and safety devices along with other electrical accessories in 06 Nos. old Type-III Qtrs. and 02 Nos. New Type-III Qtrs. Of Dr. RPGMC Kangra at Tanda.	451404/-	9100/-	Two Months	8	350/-

10	R/M of E.I of Vidhan Sabha Complex at Tapovan Dharamshala Distt. Kangra (H P)(SH.- Replacement of OLD FTL fitting with LED Light in Vidhan Sabha Hall, Geyser 10 Liter and repair work of E.I.)	218901/-	4400/-	Six Months	8	350/-
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SCHEDULE OF QUANTITY

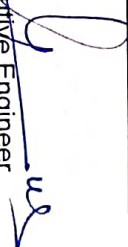
NAME OF WORK :- Annual Repair and comprehensive Maintenance contract of 01 No. 62.5 KVA D.G. Set installed in the O/O Chief Engineer (KZ) office building at Dharamshala in District Kangra (H.P.) for three year 2022-25.

BBN-1

ESTIMATED COST: Rs. 2,08,367/-only.
EARNEST MONEY: Rs. 4200/-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 62.5 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. 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 including emergency breakdown call attending 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 follwing material.					
	..... Water Filter Separator = 1 No.					
	..... Pre-Filter = 1 No.					
	..... Lubricant Oil Filter = 1 No.					
	..... Kit Air Cleaner = 1 No.					
	..... Coolant = 5 Nos.					
	..... Lubricant Oil = 15 Nos.					
	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 62.5 KVA DG set as required complete in all respects and to the best satisfaction of Engineer -in-Charge.	1				Per Day	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Annual Repair and comprehensive Maintenance contract of 01 No. 100 KVA D.G Set installed in Vidhan Sabha Building Complex at Tapovan (Dharamshala) in Distt Kangra(H.P.) for three year (2022-25).

June-2

**ESTIMATED COST: Rs. 257913/-only.
EARNEST MONEY: Rs. 5200/-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 100 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. 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 including Operator charges for operating the D.G Set during the Vidhansabha Session for six days, 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.					
	..... Water Filter Separator = 1 No.					
	..... Pre-Filter = 1 No.					
	..... Lubricant Oil Filter = 1 No.					
	..... Kit Air Cleaner = 1 No.					
	..... Coolant = 5 Nos.					
	..... Lubricant Oil = 15 Nos.					
	First year	1			Per year	
	Second year	1			Per year	

	Third year	1			Per year	
	Supplying, erection, testing & commissioning of 12V Battery suitable for 100 KVA DG set as required complete in all respects and to the	1			Each	
2	best satisfaction of Engineer-in-Charge.					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair & Maintenance of HVAC system installed in 500 Bedded Hospital Dr. RPGMC Kangra at Tanda. (SH: Rewinding of compressor motor, Replacement of compressor oil, Refrigerant R-22, drier core, power contactor, Temperature sensor etc. of Chiller No. II thereof)

ESTIMATED COST: Rs. 4,80,150/-only.
EARNEST MONEY: Rs. 9700/-only
TIME ALLOWED: One Year

Job No 3

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Rewinding of 3 phase, 50 Hz, Compressor motor with SWG copper wire including warnishing and refitting etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge.	1			Each	
2	Supplying of liquid line strainer suitable for 120 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	4			Each	
3	Supplying of Dryer core suitable for 120 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	6			Each	
4	Supplying of compressor oil suitable for 120T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	15			Each	
5	Supplying and replenishment/charging of refrigerant R-22 for 120 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	80			Per Kg.	
6	Supplying and fixing of temperature sensors as required for chiller line complete in all respects and to the best satisfaction of Engineer-in-charge.	4			Each	
7	Supplying and fixing of power contactors suitable for 120 T.R. capacity chiller as required complete in all respects and to the best satisfaction of Engineer-in-charge.	2			Each	
8	Recommissioning of chiller after vacuumizing with nitrogen gas and re-charging with R-22 refrigerant including testing etc. as per directions, instructions and to the best satisfaction of Engineer-in-charge.	1			Each	
Total						

Value of Quantity checked and approved for ₹ 4,80,150/-

[Signature]
Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O additional accommodation to Govt Sr. Sec. School Building at Golwan in Tehsil Fatehpur District Kangra (H.P.). (Sh:- Providing E.I. in Ground & First Floor therein.)

To Q.N. - 4

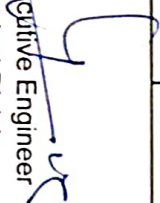
ESTIMATED COST: Rs.1,94,397/-only.
EARNEST MONEY: Rs.3900/-only
TIME ALLOWED: One Year

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 steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK or any other as approved by Engineer-in-Charge.					
i) Group C.		36			Per Point	
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK or any other as approved by Engineer-in-Charge.					
i) Group C.		1			Per Point	
3	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). Make: Plaza/KEI/Polycab/ Anchor (Roma Penta)/ Havells(Reo)/SSK or any other as approved by Engineer-in-Charge.	7			each	

4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. Make: Plaza/ KEI/ Polycab. <u>SCIT</u>					
i)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	75			Per Meter	
ii)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	12			Per Meter	
iii)	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	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. Make: Plaza/ KEI/ Polycab. <u>SCIT</u>					
i)	3 x 2.5 sq. mm	32			Per Meter	
6	Providing, Installation, testing and commissioning of ceiling fan with modular step type electronic fan regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. Make: Usha Energia ISI/ Standard Zinger/ Havells ES Neo or any other as approved by Engineer-in-charge.					
i)	Ceiling Fan 1200 mm sweep (Make: Usha, Model: Energia ISI/ Equivalent)	12			Each	
7	Providing and installation of following type of IP20 LED fixture 20 W+/- 1W with Surface Mounted 4 Feet Batten Fixture with system efficacy 100lm/W with Aluminium housing P.F.>0.95 with THD<20%, CCT 6500 K, CRI 80, Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70. The Input voltage range shall be 150V to 270V. Wipro Cat no. LL20-281-XXX-AL 1/Bajaj/Panasonic.					
i)	LED Batten 20W, 4 feet long (Make: Wipro, Cat no. LL20-281-XXX-AL 1/ Equivalent)	24			Each	
8	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					


i) Single pole (Make:- L&T, Havells, Hager)	6			Each	
9 Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i) 40 Amps. (Make:- L&T, Havells, Hager)	2			each	
ii) 63 Amps. (Make:- L&T, Havells, Hager)	1			Each	
10 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
i) 40 Amps. (Make:- L&T, Havells, Hager)	2			each	
11 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/isolator)					
i) Double door-4 way (Make:- L&T, Havells, C&S)	1			each	
ii) Double door-8 way (Make:- L&T, Legrand, Schneider)	2			each	
12 Earthing with G.I. earth plate 600 mmx600 mmx 6 mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt as required.	1			Set	
13 Supplying and laying 6 SWG G.I. wire at 0.50 mtr. below ground level for conductor earth electrode, including connection/termination with GI thimble etc. as required.	20			Per Meter	

14	Providing and fixing of LED 20 watt street light luminaries of Wipro having cat No. LR26-251-XXX-65-XX, powder coated pressure die-cast aluminium heat sink and toughened glass SMDLED streetlight with heat resistant toughened glass it should be compatible with specification i.e. power factor ≥ 0.9 , Harmonic Distortion $< 20\%$ and efficiency ≥ 100 Lumens per watt, CRI rating > 70 suitable for input voltage: AC 220-240 V, 50 Hz, including P/F GI pipe 35 mm dia bracket bended to give an angle of 100 to 110 degree fitted with nuts and bolts i/c painting the pipe with two coats of approved paint over priming coat complete with all accessories, connections, testing and commissioning etc. as required. Make:- Wipro, Bajaj, Panasonic or any other approved by Engineer-In-Charge.					
	LED Street Light 20 watt, (Make: Wipro, LR26-251-XXX-65-XX)/					
	Equivalent	1			each	
15	Supplying and erection of street light bracket made of G.I. pipe 'A' class of suitable length and dia, the pipe bended to give an angle of 100 to 110 degree fitted with nuts at the top of existing pole or wall including painting the pipe with two coats of approved paint over priming coat 40 mm dia. G.I. pipe, heavy class.	1			each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of EI to various Govt. Non residential building in Distt. Kangra under Electrical Sub-Division HP PWD Dharamshala Distt. Kangra (HP)				ESTIMATED COST: Rs 148960/-only. EARNEST MONEY: Rs.3000/-only TIME ALLOWED:One Month		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing services on temporary basis of Computer Operator in the Office of Superintending Engineer, 2nd Electrical Circle, HPPWD Dharamshala during working hours (10.00 a.m. to 5.00 p.m.) or as & when required by the office in charge.	190			Per Day	
	Total					
Terms And Condition:-						
1	The agency shall have to provide services as required in schedule of work.					
2	The services is required during normal working hours i.e. 10.00 AM to 5.00PM or as required.					
3	The services have to be provided as per direction of office in-charge.					
4	The agency shall have to pay /provided minimum wages / rest / holiday as per HP State Govt.labour norms applicable for daily paid					
5	Nothing extra shall have to pay / issued on account of liberties, T&P soap,duster etc.					
6	The services are required temporarily and can be terminated at any time without assigning any reason.					
7	Nothing extra shall have to paid for absent period.					
8	Nothing extra shall be made on monthly basis.					
9	The staff shall have to report daily to concerned office in-charge.					
10	Period of service depends upon the requirement of work and can be increased /decreased / terminated without assigning any reason.					
11	The worker should be fully insured.					


 Executive Engineer
 Electrical Division
 HPPWD Palampur


SCHEDULE OF QUANTITY

NAME OF WORK :- onstruction of office Cum residence for C.I.D. wing of Police Department at Chamba Distt. Chamba (HP) (Sub-Head:- Providing Water Heater (Geyser) therein).

Job No-6

ESTIMATED COST: Rs 127078/-only.
EARNEST MONEY: Rs.2600/-only
TIME ALLOWED: Three Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	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.1	P/I 25 liter capacity water heater (Cat.-A).	7			Each	
I.2	P/I 15 liter capacity water heater (Cat.-A).	7			Each	
Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur


SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of EI to various Govt. Non residential building in Distt. Kangra under Electrical Sub-Division HP PWD Dharamshala Distt. Kangra (HP)(2022-2023)

101270

ESTIMATED COST: Rs 101270/-only.
EARNEST MONEY: Rs.2100/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing services on temporary basis of Peon in the Office of Superintending Engineer, 2nd Electrical Circle, HPPWD Dharamshala during working hours (10.00 a.m. to 5.00 p.m.) or as & when required by the office in charge.	190			Per Day	
	Total					
Terms And Condition:-						
1	The agency shall have to provide services as required in schedule of work.					
2	The services is required during normal working hours i.e. 10.00 AM to 5.00PM or as required.					
3	The services have to be provided as per direction of office in-charge.					
4	The agency shall have to pay /provided minimum wages / rest / holiday as per HP State Govt.labour norms applicable for daily paid					
5	Nothing extra shall have to pay / issued on account of liberies, T&P soap,duster etc.					
6	The services are required temporarily and can be terminated at any time without assigning any reason.					
7	Nothing extra shall have to paid for absent period.					
8	Nothing extra shall be made on monthly basis.					
9	The staff shall have to report daily to concerned office in-charge.					
10	Period of service depends upon the requirement of work and can be increased /decreased / terminated without assigning any reason.					
11	The worker should be fully insured.					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-C/O Govt. Sr. Sec. School at Seul in Tehsil Jaswan Distt. Kangra (HP)(3 rooms in Ground Floor and 3 Rooms in First floor with stair & Verandah) (SH: Providing E.I there in).		Job No 8		ESTIMATED COST: Rs. 4,06,708/-only. EARNEST MONEY: Rs.8200/-only TIME ALLOWED: One Year		
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. HFRFRLS/PVC insulated single core copper conductor cable as required.					
i	Group C. Makes:- Legrand(Myrius),Schiender(Livia),Anchor Roma(Plus).	83			P/Pt	
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					
i	2X1.5Sq.mm+1X1.5Sq.mm Earth wire					
	Makes: Plaza/KEI/Anchor/SCI	40			P/Mtr	
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
i	2X2.5Sq.mm+1X2.5Sq.mm Earth wire					
	Makes: Plaza/KEI/Anchor/SCI	86.77			P/Mtr	
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.					
i	3X2.5Sq. mm Make:- KEI/SCI/Plaza	40			P/Mtr	
	Makes: Plaza/KEI/Anchor/SCI					
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc as required.					

i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	6			Each	
6	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
i	Single pole. Cat-A.	12			Each	
	Makes: Legrand,Schneider,Anchor.					
7	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	40 Amps. Cat-A.	2			Each	
	Makes:- Legrand,Schneider,Anchor.					
8	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	40 Amps. Cat-A.	2			Each	
	Makes: Legrand,Schneider,Anchor.					
9	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. (But without MCB/RCCB/isolator).					
i	Double door-12 way	2			Each	
	Makes: Legrand,Schneider,Anchor.					
10	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1			P/Set	

11	Supplying and laying 6SWG GI wire at 0.50Mtr below the ground level for conductor earth electrode, including connection/termination with GI thimble etc as required.	25				P/Mtr	
12	Providing & Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.Makes: KEI,Havells, PLAZA or its equivalent as approved by Er-in-charge.(Makes:- KEI/Plaza/Polycab)						
i	Armoured cable 10 sq. mm (Twin core)	20				P/Mtr	
13	Providing, Installation, testing and commissioning of ceiling fan without regulator,including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mmtwin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:						
i	Ceiling Fan 1200 mm sweep, Category-A	36				Each	
	Make:- Usha(Technix Plus),Bajaj,Anchor or its equivalent as approved by Engineer-in-charge.						
14	Supplying and fixing of LED Tube Light 20watts ,5700K ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9,Harmonic Distortion<10% and efficacy >100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required.						
i	LED Tube Light 4Feet Long						
	Makes: Bajaj (Model -BLTRUnxt SP 24L WH PC SD)/Panasonic/,wipro or its equivalent as approved by Engineer-in-Charge	38				Each	
15	Providing and installation of following type of surface mounting square/round type LED panel Light with aluminium die cast housing in white finish with anti glare polycarbonate diffuser and separated energy efficient constant current, nonintegral, electronic driver, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing etc. as required.						
i	LED Round Panel Light 18Watts	8				Each	
ii	Makes: Bajaj (Model -BPSLR Surface 18 W LED RD SD)/Panasonic/,wipro or its equivalent as approved by Engineer-in-Charge						

16	Supplying and fixing of bulk head fitting LED 10 watt ,6500k ,(Five YEAR WARRANTY) and it should be compatible with specification e.i. Power Factor > .9, Harmonic Distortion<10% and efficacy > 100 Lumens per watt, suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, connections, testing and commissioning etc as required.					
i	LED 10 Watt Bulk Head					
	Makes: Bajaj (Cat no. BIBWP 10W)/Panasonic/ wipro or its equivalent as approved by Engineer-in-Charge	1			Each	
	Total					


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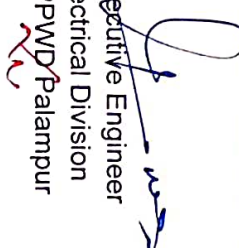
SCHEDULE OF QUANTITY

NAME OF WORK :- Replacement of old/damaged wiring and safety devices along with other electrical accessories in 06 Nos. Old Type-III Qtrs. and 02 Nos. New Type-III Qtrs. of Dr. RPGMC Kangra at Tanda.		To Q.N. 9		ESTIMATED COST: Rs.4,51,404/-only. EARNEST MONEY: Rs.9100/-only TIME ALLOWED: Two 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, with phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required. (But without p/t switch, phenolic laminated sheet and M.S. box)					
	Group A	133			Point	
	Make : KEI/Plaza/Anchor/ SCI					
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (But without p/t switch, phenolic laminated sheet and M.S. box)	6			Point	
	Make : KEI/Plaza/Anchor/ SCI					
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	2x1.5 Sq. mm.	149			P/Mtr	
3.2	2x4.0 Sq. mm.	117			P/Mtr	
3.3	4x4.0 Sq. mm.	137			P/Mtr	
	Make : KEI/Plaza/Anchor/ SCI					
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.					
	3x1.5 Sq. mm.	104			P/Mtr	

	Make : KEI/Plaza/Anchor/ SCI					
5	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 5/6 & 15/16 amps piano type switch, connection, painting etc. as required					
5.1	Metal box with 5/6 Amp. Switch & Socket outlet	54			Each	
5.2	Metal box with 15/16 Amp. Switch & Socket outlet	40			Each	
	Make : Anchor-Penta/Goldmedal/Greatwhite					
6	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.					
	6-32 A, Single pole.	48			Each	
	Make : L&T/Legrand/Schneider					
7	Supplying and erection of 40/50/63 amps rating, 10 kA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					
	Double pole. Cat-A.	5			Each	
	Make : L&T/Legrand/Schneider					
8	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.					
	RCCB DP 63 Amps.	4			Each	
	Make : L&T/Legrand/Schneider					
9	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)					
9.1	2+4 way, SPN, double door, MCB DB - (6 Way)	1			Each	

9.2	2+14 way, SPN, double door, MCB DB - (16 Way)	4			Each	
	Make : L&T/Legrand/Schneider					
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 300mm	12			Each	
	Makes:- Usha/Bajaj/Anchor					
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	10			Each	
	Makes:- Usha/Bajaj/Anchor					
12	Supplying and fixing stepped type fan regulator on the existing modular box including making connections etc. as required.					
	Fan Regulator - 5 Step	20			Each	
	Make : Anchor-Penta/Goldmedal/Greatwhite					
13	Supplying and fixing LED retrofit lamp suitable for B-22 holder base fittings with polycarbonate diffuser and aluminium heat sink as required complete in all respects.					
	LED Bulb 9 Watt	28			Each	
	Make : Anchor-Panasonic/Havells/Osram					
14	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 ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 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	43			Each	
	Make : Havells/Wipro/Bajaj					


15	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.						
	LED Bulkhead, 10 Watt	7				Each	
	Make : Philips/Trilux/Mipro						
	Total						


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SCHEDULE OF QUANTITY

NAME OF WORK :- R/M of E.I. of VIDHAN SABHA Complex at Tapovan Dharamshala Distt Kangra (H.P) (SH : Replacement of Old FTL fitting with LED Light in Vidhansabha Hall, Geyser 10 Liter and repair work of E.I.).					
SR. NO.		DESCRIPTION		QTY.	
				Job No 10	
				ESTIMATED COST: Rs. 2,18,901/-only. EARNEST MONEY: Rs.4400/-only TIME ALLOWED: Six Months	
				FIGURES	
				RATES	
				WORDS	
				UNIT	
				AMOUNT	
1.00	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:-				
1.01	10 Liter capacity water heater (Make: Usha/ Havells/Anchor (Panasonic)).	3		Each	
2.00	Providing and fixing Recessed mounting Square Panel 2'x2' suitable for recessed application with the use of the latest technology 36 watt (3600 Lumen) 5700K and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $<10\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. Makes:-Panasonic Philips, Wipro.	36		Each	
3.00	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)				
3.01	8 way Double Door. Make: L&T/Legrand/ABB.	2		Each	
4.00	Supplying and fixing 20 Amps, 240 volts, metal enclosed plug top, in existing sheet steel enclosure, suitable to accommodate a 20 Amp SPN-MCB/DP, on surface or in recess complete with connections, testing and commissioning etc. as required. Make: L&T/Legrand/Goldmedal.	5		Each	
5.00	Supplying and fixing LED Red and Green lamps of 0.5 watt with polycarbonate diffuser on the existing light point as required complete in all respect. Make: Havells/Philips/Wipro.	10		Each	

6.00	Providing and fixing LED floodlight suitable for surface application with the use of the latest technology 120 watt (12000 Lumen) 5700K and it should be compatible with specification i.e. Power Factor ≥ 0.9 , Harmonic Distortion $\leq 10\%$ and efficacy ≥ 100 Lumens per watt, CRI rating > 80 suitable for input voltage: AC 220-240 V, 50 Hz, complete with all accessories, connections, testing and commissioning etc. as required. Makes: Panasonic, Bajaj, Wipro.	2			Each	
7.00	Supplying and fixing Heat Pillar rod on the existing heat pillar as required complete in all respect.	20			Each	
	Total					


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