

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

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

6250-58

Dated: 10-10-22

To

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

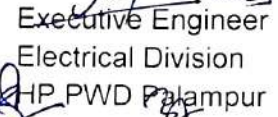
Subject:

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 **27-10-2022** 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	C/o Rajeev Gandhi Govt. Engineering College Kangra at Nagrota Bagwan Distt. Kangra (H.P)(SH:- Providing Yard lighting in the campus of Administration Block).	318045/-	6400/-	Six Months	8	350/-
2	C/o Rajeev Gandhi Govt. Engineering College Kangra at Nagrota Bagwan Distt. Kangra (H.P)(SH:- Providing Yard lighting in the campus of Electrical and Library and Computer Science Block).	310709/-	6300/-	Six Months	8	350/-
3	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/-
4	C/o Police Station Building at Dehra in Tehsil Dehra Distt. Kangra (H.P)(SH:- Providing Campus Lighting therein).	391715/-	7900/-	Six Months	8	350/-
5	Replacement of E.I and safety devices in Servant quarter and providing Flood lights, Armoured Cable in Chief Engineer Residence at Dharamshala Distt. Kangra(H.P).	138175/-	2800/-	One Month	8	350/-
6	Repair and Maintenance of 01 No. 82.5 KVA D.G Set installed in Makeshift COVID-19 Hospital of Dr. RPGMC Kangra at Tanda for three years w.e.f 2022-23 to 2024-25.	347140/-	7000/-	Three Years	8	350/-
7	Providing Electric infrastructure in the state War Museum building at Dharamshala Distt Kangra(H.P)(SH:- Providing E.I in Lower Ground Floor there in)	383511/-	7700/-	Three Months	8	350/-
8	C/o Additional Accommodation to Govt. Sr. Sec. School at Saloh in Tehsil Palampur Distt. Kangra (H.P)(SH:-Providing E.I. therein).	273594/-	5500/-	Six Months	8	350/-
9	Repair and Maintenance of seized engine of 500 KVA DG Set No. – II installed in basement floor area of 500 bedded hospital Dr. RPGMC Kangra at Tanda.	233708/-	4700/-	One Month	8	350/-


10	Replacement of old and damaged light fixtures with LEDs in 4 th floor of Corridor Area 500 bedded hospital Dr. RPGMC Kangra at Tanda.	151987/-	3100/-	Two Months	8	350/-
11	C/o Ayurvedic Health Center at Salol in Tehsil and Distt. Kangra (H.P)(SH:- Providing E.I therein).	184668/-	3700/-	One Year	8	350/-
12	C/o Ayurvedic Health Center at Samirpur in Tehsil and Distt. Kangra (H.P)(SH:- Providing E.I therein).	184668/-	3700/-	One Year	8	350/-
13	Replacement of old and damaged light fixtures with LEDs in 2 nd floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.	120550/-	2500/-	Two Months	8	350/-
14	Replacement of old and damaged light fixtures with LEDs in Medicine ICU 4 th floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.	141196/-	2900/-	Two Months	8	350/-
15	Replacement of old and damaged light fixtures with LEDs in 3rd floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.	114230/-	2300/-	Two Months	8	350/-
16	Replacement of smoke Detector, hooter and Refilling of Portable Fire Extinguishers to Auditorium Building at Dr. RPGMC Kangra at Tanda	283702/-	5700/-	Three Months	8	350/-
17	Refilling of portable Fire Extinguishers of different capacity and types of New Makeshift Covid -19 Hospital, Autopsy Block, oxygen Plant, Burn Unit Building and Maharaja Sansar Chand Guest House of Dr. RPGMC Kangra at Tanda	134914/-	2700/-	One Months	8	350/-
18	Repair Maintenance and servicing of Digital Control Conference System of DIS in H.P. Vidhan Sabha at Tapovan (Dharamshala in Distt. Kangra (HP) for the year 2022-23.	226015/-	4600/-	One year	8	350/-
19	C/O Civil Hospital (New Block-70 bedded) building at Nagrota Bagwan Distt. Kangra (HP) (SH: Supplying and laying of Conduit pipe therein).	275800/-	5600/-	Two Months after completion of Civil work	8	350/-
20	Repair and Comprehensive maintenance of 01 No. 15 Passengers cum stretcher machine room less elevator 'KONE' make installed in Anatomy block, Lecture theatres and Examination hall of Dr. RPGMC Kangra at Tanda for the year 2021-22 to 2023-24.	448223/-	9000/-	Three years	8	350/-
21	C/o Mini- Secretariat /Combined office building at Shahpur in Distt. Kangra (H.P)(SH:- Providing and fixing of portable fire extinguisher in DSM Complex 1 st Floor and 2 nd Floor therein).	233562/-	4700/-	One Month	8	350/-
22	Providing Electrical wiring and Earthing for One No. 13 Passengers Elevator / Lift in Department of Pulmonary Medicine at Dr. RPGMC Kangra at Tanda Distt. Kangra (H.P).	175361/-	3600/-	One Month	8	350/-
23	Repair / Restoration of existing house of Pahari Gandhi Baba Kanshi Ram in VPO Guranwar Tehsil Dadasiba in Distt. Kangra (H.P)(SH:- Providing E.I. therein).	180022/-	3700/-	Six Months	8	350/-

HIM SUCHNA AVAM JAN SAMPARK VIBHAG

SCHEDULE OF QUANTITY

NAME OF WORK : C/O Rajeev Gandhi Govt. Engineering college Kangra at Nagrota Bagwan Distt. Kangra (H.P) (SH:- Providing Yard lighting in the campus of Administration Block therein).		Job No 1		ESTIMATED COST: Rs.3,18,045/-only. EARNEST MONEY: Rs.6400/-only TIME ALLOWED: Six Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.					
1.1	2 X 2.5 sqmm + 1x2.5 sq.mm.Make:- SCIIKEI/Plaza	30			Per Meter	
2	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:-					
2.1	25mm dia Make:- Anchor/BEC Plast/PolyFit	75			Per Meter	
3	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:-					
3.1	Single pole. Cat-A. Make :- L&T/Schender/Legrand	10			Each	
4	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	2			Each	
4.1	40 Amps. Cat-A Make :- L&T/Schender/Legrand					
5	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-					
5.1	Double door-8 way Make :- L&T/Schender/Legrand	1			Each	
6	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground; to be laid 1 meter below the ground level including excavation and refilling the trench etc.as required, but excluding sand cushioning and protective covering:-					

6.1	Armoured cable 6 sq. mm (twin core)Make:- SC/IK/El/Plaza	128			Per Meter	
6.2	Armoured cable 10 sq. mm (twin core)Make:- SC/IK/El/Plaza	63			Per Meter	
7	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armouredXLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-					
7.1	Armoured cable 10 sq. mm (twin core)Make:- SC/IK/El/Plaza	20			Per Meter	
8	Supply and fixing PVC street light box SINTEX make of size 6" X 8" complete with fixing in the existing wall including making good the damage etc. as required complete in all respects.	10			Each	
9	Supplying and fixing of LED Post Top fixture, 25 watt, made of die cast aluminium housing with Power LED's are mounted directly on inbuilt Heat Sinks. A UV stabilized P.C. diffuser is provided for Glare Free Lighting with high visual comfort etc. as required complete in all respect. Make: Twinkle /K-ite/Bajaj	10			Each	
10	Supplying and fixing of GI Pipe 60mm dia of length 0.50 metre. complete with flange, anchor bolts and Grouting in the existing Cement Concrete pillar post for mounting of LED Post top fixture complete as required in all respects.	10			Each	
11	Supplying and fixing of following sizes PVC -U rigid pipes 6 KGf/CM along with the accessories in surface / recess including cutting the floor/wall and making good the same in case of recessed piping as required complete in all respect.					
11.1	75 mm dia.	61			Per Meter	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

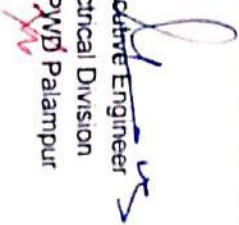
NAME OF WORK : C/O Rajeev Gandhi Govt. Engineering college Kangra at Nagrota Bagwan Distt. Kangra (H.P) (SH:- Providing Yard lighting in the campus of Electrical and Library and Computer Science Block.

Job No 2

ESTIMATED COST: Rs.3,10,709/-only.
EARNEST MONEY: Rs.6300/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRR) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Make:- SC/KEI/Plaza					
1.1	2 X 2.5 sqmm + 1x2.5 sq.mm.	30			Per Meter	
2	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:-					
2.1	25mm dia Make:- Anchor/BEC Plast/Polyfit	75			Per Meter	
3	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:-					
3.1	Single pole. Cat-A. Make :- L&T/Schender/Legrand	10			Each	
4	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1			Each	
4.1	40 Amps. Cat-A. Make :- L&T/Schender/Legrand					
5	Providing and laying of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade direct in ground, to be laid 1 meter below the ground level including excavation and refilling the trench etc.as required, but excluding sand cushioning and protective covering:-					
5.1	Armoured cable 6 sq. mm (twin core)Make:- SC/KEI/Plaza	159.2			Per Meter	
5.2	Armoured cable 10 sq. mm (twin core)Make:- SC/KEI/Plaza	88			Per Meter	
6	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:-					

6.1	Armoured cable 10 sq. mm (twin core)/Make:- SC/KE/Plaza	8.8			Per Meter	
7	Supply and fixing PVC street light box SINTEX make of size 6" X 8" complete with fixing in the existing wall including making good the damage etc. as required complete in all respects	10			Each	
8	Supplying and fixing of LED Post Top fixture, 25 watt, made of die cast aluminium housing with Power LED's are mounted directly on inbuilt Heat Sinks. A UV stabilized P.C. diffuser is provided for Glare Free Lighting with high visual comfort etc. as required complete in all respect. Make: Twinkle /K-lite/Bajaj	10			Each	
9	Supplying and fixing of GI Pipe 60mm dia of length 0.50 metre, complete with flange, anchor bolts and Grouting in the existing Cement Concrete pillar post for mounting of LED Post top fixture complete as required in all respects	10			Each	
Total						


 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).

10/01/23

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:-					
L1	P/1 25 liter capacity water heater (Cat.-A).	7			Each	
L2	P/1 15 liter capacity water heater (Cat.-A).	7			Each	
Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- C/O Police Station Building at Dehra in Tehsil Dehra Distt. Kangra (H.P.) (S.H:- Providing Campus Lighting therein).

Job No 4

ESTIMATED COST: Rs. 3,91,715/-only.
EARNEST MONEY: Rs. 7900/-only
TIME ALLOWED: Six Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and erection of Decorative Lighting Pole of length 4 mtr. The pole made out of Galvanised Mild Steel Tubes with base plate 250x250x12mm. The poles to be primer coated and painted with polyurethane paint. The pole has a sevic window at the bottom profile comprising 4-way 25 Amp connector terminal and a MCB etc. The pole to be mounted on a 1:2:4 cement concrete base (pedestal) of 450X450 mm and 300 mm L-Type foundation bolts 4x16 mm dia. with nuts, templates and all complete as per approved drawing. Foundation RCC 1:2:4 shall be of size 450x450mm and depth 900 mm c/c as per approved drawing. The foundation shall extend above surrounding ground/driveway level for 200 mm and have slant 63mm dia. PVC sleeve cast insitu foundation for cable entry as per the drawing. complete in all respects as required. Make: Twinkle (Cat No LuxMax-SP-114-402), K-Lite or its equivalent as per best satisfaction on Engineer-in -charge .					
i	4 Meter long having 114mm dia at bottom and 60/75mm dia at top.	7			Each	
2	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. Makes: KEI/Havells/ Plaza /SCI or Equivalent make.					
i	Armoured cable 6 sq. mm (twin core)	306			P/Mtr.	
3	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 /SCI or its equivalent as approved by Er-in-charge					
i	Armoured cable 6 sq. mm (twin core)	96			P/Mtr.	
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. Makes: Plaza/KEI/Anchor/SCI.					

i	PVC insulated HRFRLS Copper conductor 1.5 Sq. mm.						
ii	2x1.5 Sq. mm.	28				P/Mtr.	
5	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).						
i	Double door-4 way	6				Each	
ii	Double door-6 way	1				Each	
iii	Double door-12 way	1				Each	
	Makes: Anchor/Legrand/Schneider.						
6	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required.						
i	Single pole. Cat-A.	11				Each	
ii	Makes: Anchor/Legrand/Schneider.						
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	
ii	Makes: Anchor/Legrand/Schneider.						
8	Supplying and fixing of LED Flood light Luminaire comprises of Al Die cast Housing with frame, High Purity PC lens Diffuser, cradle mounting, minimum system lumens of 5000. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. The luminaire shall have IP66 and IK08 protection. The LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V (nominal rated voltage – 240V) with 4 KV internal surge protection.						
i	LED Post top Luminaire 50 watts						

ii	Makes: Bajaj (Cat No: GLEAM F 55L WH SY PC SD V2-50W), Panasonic, Wipro or Equivalent.	3			Each	
9	Providing and erection of LED Post top 40 Watts 5700 K luminaries having powder coated pressure die-cast aluminium Post top light with heat resistant toughened glass including connections, testing and commissioning etc. as required complete in all respects.					
i	LED Post top Luminaire 40 watts.					
ii	Makes: Bajaj (Cat No: BGCTNP 40W LED WH-40Watts)/Wipro/ Panasonic or equivalent.	8			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK : Replacement of E.I and safety devices in Servant quarter and providing Flood lights , Armoured Cable in Chief Engineer Residence at Dharamshala Distt Kangra (H.P)			Job No 5		ESTIMATED COST: Rs.1,38,175/-only. EARNEST MONEY: Rs.2800/-only TIME ALLOWED: One Month	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	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:-SCI/ KEI/Plaza/Anchor/					
1.01	Group A.	17			Per Point	
2.00	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: KEI/SCI/Plaza/Anchor.					
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	18			Per Metre	
2.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	36			Per Metre	
2.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	25			Per Metre	
2.04	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	12			Per Metre	
3.00	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: KEI/SCI/Plaza/Anchor.					
3.01	3 x 1.5 sq. mm	15			Per Metre	
4.00	Supplying and fixing following piano type switch/ socket on the existing switch box/cover including connections etc. as required.					
4.01	T.V. Socket outlet Planor type Make: Anchor/SSK	1			Each	

5.00	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	5				Per Metre	
6.00	Supplying and fixing suitable size Metal box of 150mmx100mmx60mm deep(Nominal size) on surfaceand recess with suitable size of phenolic laminated sheet cover i front including providing and fixing 3 pin 5/6 amps pianosocket outlet and 5/6 amps switch, connection etc. as required. Make: Anchor/SSK	8				Each	
7.00	Supplying and fixing suitable size Metal box of 180mmx75mmx60mm deep(Nominal size) on surfaceand recess with suitable size of phenolic laminated sheet cover i front including providing and fixing 3 pin 15/16 amps pianosocket outlet and 15/16 amps switch, connection etc. as required. Make: Anchor/SSK	6				Each	
8.00	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Livia)/ Legrand (Myrius)/L&T(Entice).	1				Each	
9.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1				Each	
10.00	Supplying and fixing 6 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.						
	Single pole 6 Amp to 32 Amp (Make:- Anchor/ Schneider/ Legrand/L&T)	13				Each	
11.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1				Each	
12.00	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.						

	40 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	1			Each	
13.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
	Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T)	1			Each	
14.00	Providing and fixing of IP65 Bulkhead led fixture 10 W +/- 1 W Wall Mounted with minimum system lumen efficacy of 100 lm/W with Pressure Die Cast Aluminum housing, Polycarbonate Opal Diffuser and P.F.>0.95 with THD<10% ,CRI 80. The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K only with CRI of minimum 80. The Input voltage range shall be 140V to 280V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
	Bulk Head Light LED 10 watt Makes:- Philips /Wipro/Trilux.	3			Each	
15.00	Providing and Fixing of IP20 LED Surface mounted CRCA Powder Coated Box Type Channel with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80,Surge Protection 2 Kv. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
	LED fixture 1x20 Watt Surface Mounted 4 Feet Box Type Channel with Pro LED Lamp Makes:- /Bajaj/Philips /Wipro/Trilux.	4			Each	
16.00	Supplying and fixing brass batten/ angle holder including connection etc. as required.	6			Each	

17.00	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required.					
	Armoured cable 6 sq. mm (Four core)	39			Per metre	
18.00	Providing and erection of LED Flood Light 90 watt Street light luminaires powder coated pressure die-cast aluminium with heat resistant toughened glass including connections, testing and commissioning etc. as required.					
	LED Flood light - 90 watt. Make:- Panasonic (Cat. No. PFLM18908) / Wipro	2			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Repair and Maintenance of 01 No. 82.5 KVA D.G Set installed in Makeshift COVID -19 Hospital of Dr. RPGMC Kangra at Tanda for three years w.e.f 2022-23 to 2024-25.

Job No 6

ESTIMATED COST: Rs.3,47,140/-only.
EARNEST MONEY: Rs. 7000/-only
TIME ALLOWED: Three Years

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair and maintenance of DG Set 82.5 KVA with providing servicing and replacing of all types of filters, i.e separator water filter, pre-filter, lubricant oil filter, coolant, lubricant oil etc including minor parts replacement during emergency and AMF panel breakdown complete in all respects as required testing, commissioning etc and to the best satisfaction of Engineer-in-charge.					
	3H13201000 Fuel Filter = 2 No					
	0643601000 Lubricant Oil Filter = 1 No					
	4H108610000 Air Cleaner = 1 No					
	DU099940000 Centrifuge Filter Kit = 1 No					
	Coolant = 5 Liters					
	Lubricant Oil = 20 Liters					
	Labour Charges L S					
	First year	1			Per Year	
	Second year	1			Per Year	
	Third year	1			Per Year	

2	Supplying, erection, testing & commissioning of battery having following capacity sealed maintenance free-lead acid battery with suspended electrolyte (leak proof) suitable for different capacities DG Sets, as required complete in all respects and to the best satisfaction of Engineer-in-Charge.	1			Each	
	12 Volt Battery 75 Ah					
	Make : Exide (NXT75-12)/Amaron Quanta/Luminous.					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK : Providing Electric infrastructure in the state war Museum building at Dharamshala Distt Kangra (SH:-Providing E.I in Lower Ground Floor there in)			Job No 7		ESTIMATED COST: Rs.3,83,511/-only. EARNEST MONEY: Rs.7700/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable etc. as required. Make: KEI/Plaza/Anchor/ Anchor (Roma Plus)/Schneider (Liviat)/ Legrand (Myrius) /L&T(Entice).					
1.01	Group C.	23			Per Point	
2.00	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: KEI/SCI/Plaza/Anchor.					
2.01	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	130			Per Metre	
2.02	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	75			Per Metre	
2.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	80			Per Metre	
2.04	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	30			Per Metre	
2.05	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	30			Per Metre	
3.00	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: KEI/SCI/Plaza/Anchor.					
3.01	3 x 2.5 sq. mm	80			Per Metre	

4.00	Supplying and fixing of following sizes of PVC conduit of medium class with 14 mm thickness along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- (Make: BEC Plast/Polyfit)					
4.01	25 mm. dia					
5.00	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.	120			Per Metre	
5.01	2 Module (75mmX75mm)	5			Each	
6.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&T(Entice).	28			Each	
7.00	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 15/16 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Make: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&T(Entice).	5			Each	
8.00	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. Make: Anchor (Roma Plus)/Schneider (Livvia)/ Legrand (Myrius)/L&T(Entice).	4			Each	
9.00	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1			Each	
10.00	Supplying and fixing 6 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.					
10.01	Single pole 6 Amp (Make:- Anchor/ Schneider/ Legrand/L&T)	7			Each	
10.02	Single pole 16 Amp (Make:- Anchor/ Schneider/ Legrand/L&T)	5			Each	
10.03	Single pole 25/32 Amp (Make:- Anchor/ Schneider/ Legrand/L&T)	4			Each	

11.00	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
11.01	63 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	2			Each	
12.00	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.					
12.01	63 Amps. (Make:- Anchor/ Schneider/ Legrand/L&T)	2			Each	
13.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/isolator).					
13.01	8 way, Double door	1			Each	
13.02	Double door-16 way (Make:- Anchor/ Schneider/ Legrand/L&T)	1			Each	
14.00	Providing, Installation, testing and commissioning of ceiling fan ISI mark with step type two module 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.					
14.01	Ceiling Fan 1200 mm sweep (Make: Usha, Model: Technix Plus)/ Bajaj (Model: Sabse Tezz Kassels)/ Crompton (Model: WWHE).	5			Each	
15.00	Providing, Installation, testing and commissioning of wall fan of following size by means of suitable rag-bolt/ nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer-in-charge.					
15.01	Wall Fan 400 mm sweep	1			Each	

16.00	Providing and installation exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required.					
16,01	Exhaust Fan, Light duty, (Domestic) 300 mm sweep (Make: Usha, Model: Aeroclean LD/Bajaj (Model: Freshnee)/Anchor (Model: Anmol)/Crompton(Model: Drift air Plus) .	2			Each	
17.00	Providing and fixing GI louvers/shutters complete with frame for exhaust fans of all sizes complete with fixing including making good the damages etc. as required complete in all respects.	2			Each	
18.00	Providing and Fixing of IP20 LED fixture of following watt +/- 1 W LED Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 100 lm/W with Polycarbonate housing,pressure die cast heat sink and P.F.>0.95 with THD<10%, CRI 80.The LED shall be tested with LM80-08 standard with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of ANSI Bin 5700 K with CRI of minimum 80.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
18,01	LED Surface mounting round downlighter 12 watt Makes:- Philips /Wipro/Bajaj.	2			Each	
	Providing and Fixing of 1200 mm X 300 mm LED fixture 36 W +/- 1W Surface mounted fixture with HET Plastic diffuser with CRCA Powder Coated housing having minimum system lumen efficacy 100lm/W with P.F.>0.95 with THD<10%. The LED with Useful life of 50000 Hrs at L70 with five years warranty. The LEDs used in the luminaire shall have CCT of 5700 K with CRI of minimum 80. The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
	LED Panel Light 36 watt 4'x1' Makes:- Philips /Wipro/Bajaj.	4			Each	

19.00	Providing and Fixing of IP20 LED Surface mounted CRCA Powder Coated Box Type Channel with Pro LED Lamp Suitable for mounting 1 X 18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, P.F.>0.95 with THD<10% ,CCT 6500 K,CRI 80,Surge Protection 2 Kv.The LED with Useful life of 50000 Hrs at L70 with five years warranty.The Input voltage range shall be 150V to 270V, 50/60 HZ complete with all accessories, including connections, testing and commissioning etc.as required complete in all respects.					
19.01	LED fixture 1x18 Watt Surface Mounted 4 Feet Box Type Channel with Pro LED Lamp Makes:- Philips /Wipro/Bajaj.	8				Each
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- C/O Additional Accommodation to Govt. Sr.Sec. School in Saloh in Tehsil Palampur Distt. Kangra (H.P.) in Tehsil Jaisinghpur Distt. Kangra (H.P.).		Job No 8		ESTIMATED COST: Rs. 2,73,594/-only. EARNEST MONEY: Rs. 5500/-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 steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required. Make:- SC/KEI/Plaza.					
	Group C.	40			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 modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required Make:- SC/KEI/Plaza.					
	Group C.	1			Per point.	
3	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 Make:- SC/KEI/Plaza.	53			P/Mtr.	
4	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 Make:- SC/KEI/Plaza.	40			P/Mtr.	
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required Make:- SC/KEI/Plaza.					

	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	55			P/Mtr.	
	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	10			P/Mtr.	
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 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required. Make:- Anchor/Legrand/Schneider.	4			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 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	4			Each.	
8	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:- Make:- Anchor/Legrand/Schneider.					
	6 Amp Single pole. Cat-A.	6			Each	
	16 Amp Single pole. Cat-A.	4			Each	
9	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- Anchor/Legrand/Schneider.					
	40 Amps. Cat-A.	2			Each	
10	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. Make:- Anchor/Legrand/Schneider.					
	40 Amps. Cat-A.	2			Each	

11	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, neutral link, earth bar, din-bar, interconnections, powder painted, including earthing etc. as required:-(But without MCB/RCCB/isolator)					
	Double door-8 way Make:- Anchor/Legrand/Schneider.	2			Each	
12	Earthing with copper earthing plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. etc. (with charcoal or coke and salt) complete as required.	1			Per set	
13	Providing, Installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required.					
	Ceiling Fan 1400 mm sweep, Category-A	12			Each	
	Makes :-Ceiling Fan 1400 mm sweep, Category-A usha Technix Plus 3 Star,Philips,Bajaj or any other approved by Engineer-in- Charge.					
14	Providing and installation of LED fixture 15 W +/- 1 W LED Square Surface Mounted Downlighter Round Shape with minimum system lumen efficacy of 85 lm/W with and P. F \geq 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					
	LED Surface mounting round downlighter 15 watt	9			Each	
	Makes :-Wipro (Cat No :-LD80-171-xxx-60-SM/Philips/Trilux) or any other approved by Engineer-in- Charge.					
15	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	2			Each	
16	Providing and installation of IP65 LED fixture 20 W +/- 1 W LED with surface Surface Mounted 4 feet Batten fixture with system with efficacy 100 lm/W with Aluminium housing and P. F ≥ 0.95 with THD <20%, CCT 6000 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.					
	LED Batten light 20 W	12			Each	
	Makes :-Wipro (Cat. No. LL20-281-XXX-ALI) Philips/Trilux any other approved by Engineer-in- Charge.					
17	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 ≥ 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.	10			Each	
	Makes :-Wipro (Cat. No.:-LW07-141-XXX-57-G1) Philips/Trilux or any other approved by Engineer-in- Charge.					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

ESTIMATED COST: RS. 2,33,708/-only.

Job No 9

EARNEST MONEY: RS.4700/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Repair and maintenance of seized engine which requires replacement of cylinder liners, piston ring set, piston assembly, Head Gaskets, CR bearings brushes, Gaskets, Fuel filters Lubricating filters, Collet including ,pressure testing, Head reappaing Injector repair etc. as required complete in all respects and to the best satisfaction of Engineer-in-charge	1			Per Job	
Sr. no.	Description of Items	Quantity				
1	Cylinder Liners	2 Nos				
2	piston rings set	2 Nos				
3	Piston assembly	1 Nos				
4	Head Gaskets	3 Nos				
5	C.R Bearing	2 Pair				
6	C.R Bush	2Nos.				
7	Sump Gaskets	1 Nos.				
8	Gasket	3 Nos.				
9	Lab oil filter	2 Nos.				
10	Fuel filter	1Nos.				
11	Pre filter	1Nos.				
12	Lubricating filter	45ltr				
13	Coolant	10 ltr				
14	Liver ' O' ringsUpper Lower	2Nos.				
15	Liver ' O' rings Lower	2 Nos.				
	Repair Jobs					

16	Head Repairing	3 Job					
17	Pressure Testing	3 Job					
18	C.R. repair	2 Job					
19	injector repair	3 Job					
20	Labour charge	1 Job					
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :Replacement of old and damaged light fixtures with LEDs in 4th floor Corridor area of 500 bedded hospital Dr. RPGMC Kangra at Tanda.		Job No 10		ESTIMATED COST: Rs.1,51,987/-only. EARNEST MONEY: Rs.3100/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	24 Watt LED 1'x1' Surface panel	59			Each	
	Makes:- Panasonic/Wipro/Havells					
2	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	Square/round LED 18W Surface	6			Each	
	Makes:- Panasonic/Wipro/Havells					
3	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm 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 1200mm sweep	2			Each	
	Makes:- Usha/Bajaj/Havells					

4	Providing and fixing of LED fixture 1200mm x 300mm 36Watt +/- 1W 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 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	36 Watt LED 1'x4' Surface panel	8			Each	
	Makes:- Panasonic/Wipro/Havells					
5	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.					
	18 Watt LED Tube fixture	1			Each	
	Makes:- Bajaj/Wipro/Havells					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK : C/o Ayurvedic Health Centre at Salol in Tehsil and Distt. Kangra (H.P)(SH:- Providing E.I. therein).

Job No 11

ESTIMATED COST: Rs.1,84,668/-only.
EARNEST MONEY: Rs.3700/-only
TIME ALLOWED: One Year

SR. NO.	DESCRIPTION	QTY.	FIGURES		RATES		UNIT	AMOUNT
						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	26					Per Point	
	Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI							
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.							
2.1	2x2.5 Sq. mm.	38					Per Meter	
2.2	2x4.0 Sq. mm.	40					Per Meter	
2.3	2x10 Sq. mm.	1					Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI							
3	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRRFRLS/PVC insulated single core copper conductor cable for earthing as required.	20					Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI							
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.	9					Per Meter	
	3x2.5 Sq. mm.							

	Makes:- KEI / Anchor / FinolexSCI								
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	7					Each		
	Makes:- L&T / Legrand / Schneider								
6	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	5					Each		
	Makes:- L&T / Legrand / Schneider								
7	Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1					Each		
	Makes:- Anchor / Havells / Goldmedal								
8	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-								
8.1	8 modules	2					Each		
9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.								
9.1	S.P. 5/6 Amps one way Modular switch.	4					Each		
9.2	5 pin, 5/6 Amps Modular socket outlet.	6					Each		
10	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	7					Each		
	Single Pole. Cat-A.								
	Makes:- L&T / Legrand / Schneider								
11	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.								
	40 Amp. Double pole	1					Each		
	Makes:- L&T / Legrand / Schneider								

12	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	40 Amps. Cat-A	1				Each	
	Makes:- L&T / Legrand / Schneider						
13	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-						
	Double door-12 way	1				Each	
	Makes:- L&T / Legrand / Schneider						
14	Earthing with G.I. earth plate 600 mm X 600 mm X 6 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	
15	Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20				Per Meter	
16	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:-	2				Each	
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep						
	Makes: Usha / Bajaj / Crompton Greaves						
17	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >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 as required.						
	LED Bulk Head 10 Watt	5				Each	

18	Makes: Wipro/ Havells/Panasonic Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-						
	Ceiling Fan 1200 mm sweep, Cat.-A	4				Each	
19	Makes: Usha / Bajaj / Crompton Greaves Providing and installation of LED fixture 18W +/- 1W LED square/round surface downlighter 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 as required.						
	LED Surface mounting Square/Round downlighter 18 Watt	4				Each	
20	Makes: Wipro/ Panasonic/ Havells 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.						
	18 Watt LED Tube Fixture	5				Each	
21	Makes:- Bajaj/ Wipro/ Havells 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 ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 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 feet	2				Each	

	Makes: Havells/ Bajaj/ Osram							
22	Providing and installation of LED fixture 1200mm x 300mm, 36W +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100 lm/W with CRCA housing and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.							
	36 Watt LED 1'x4' Surface panel	2					Each	
	Makes: Wipro/ Panasonic/ Havells							
23	Supplying and fixing 45W LED street light made up of pressure die cast housing with TOUGHENED GLASS and IP66 protection including connections, testing etc. as required complete in all respects.							
	45W LED Street Light	1					Each	
	Makes: Panasonic/Bajaj/Wipro							
	Total							


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK : C/o Ayurvedic Health Centre at Samirpur in Tehsil and Distt. Kangra (H.P)(SH:- Providing E.I. therein).

NAME OF WORK : C/o Ayurvedic Health Centre at Samirpur in Tehsil and Distt. Kangra (H.P)(SH:- Providing E.I. therein).		Job No 12		ESTIMATED COST: Rs.1,84,668/-only. EARNEST MONEY: Rs.3700/-only TIME ALLOWED: One Year		
SR. NO.	DESCRIPTION	QTY.	FIGURES	RATES	UNIT	AMOUNT
				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	26			Per Point	
	Makes:- L&T(Entice)/Legrand(Myrius)/Schneider(Opale)/SCI					
2	Wiring for circuit/sub-main with following size PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 1 No.HRRFLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
2.1	2x2.5 Sq. mm.	38			Per Meter	
2.2	2x4.0 Sq. mm.	40			Per Meter	
2.3	2x10 Sq. mm.	1			Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI					
3	Wiring for circuit / sub-main with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in surface/recessed steel conduit along with 2 No.4 Sq.mm. (4X4+2X4)HRRFLS/PVC insulated single core copper conductor cable for earthing as required.	20			Per Meter	
	Makes:- KEI / Anchor / Finolex/SCI					
4	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required.	9			Per Meter	
	3x2.5 Sq. mm.					

	Makes:- KEI / Anchor / Finolex/SCI							
5	Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps, modular switch, connections etc. as required.	7					Each	
6	Makes:- L&T / Legrand / Schneider Supplying and fixing G.I. Modular box of (140mmx78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	5					Each	
7	Makes:- L&T / Legrand / Schneider Supplying and fixing Ding-Dong / Electronic musical bell, suitable for D.C./A.C. single phase, 230 volts complete as required:-	1					Each	
8	Makes:- Anchor / Havells / Goldmedal Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:-							
8.1	8 modules	2					Each	
9	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required.							
9.1	S.P. 5/6 Amps one way Modular switch.	4					Each	
9.2	5 pin, 5/6 Amps Modular socket outlet.	6					Each	
10	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-	7					Each	
	Single Pole. Cat-A.							
	Makes:- L&T / Legrand / Schneider							
11	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
	40 Amp. Double pole	1					Each	
	Makes:- L&T / Legrand / Schneider							

12	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	40 Amps. Cat-A	1				Each	
	Makes:- L&T / Legrand / Schneider						
13	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required:-						
	Double door-12 way	1				Each	
	Makes:- L&T / Legrand / Schneider						
14	Earthing with G.I. earth plate 600 mm X 600 mm X 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				Per Set	
15	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	20				Per Meter	
16	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:-	2				Each	
	Exhaust Fan, Light duty, (Domestic) 300 mm sweep						
	Makes: Usha / Bajaj / Crompton Greaves						
17	Providing and fixing of LED Bulkhead 10W +/- 1W with minimum system lumen efficacy of 100 lm/W with and P.F. >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 as required.						
	LED Bulk Head 10 Watt	5				Each	

	Makes: Wipro/ Havells/Panasonic						
18	Providing, Installation, testing and commissioning of ceiling fan with step type electronic regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:-						
	Ceiling Fan 1200 mm sweep, Cat-A	4				Each	
	Makes: Usha / Bajaj / Crompton Greaves						
19	Providing and installation of LED fixture 18W +/- 1W LED square/round surface downlighter 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 as required.						
	LED Surface mounting Square/Round downlighter 18 Watt	4				Each	
	Makes: Wipro/ Panasonic/ Havells						
20	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.						
	18 Watt LED Tube Fixture	5				Each	
	Makes:- Bajaj/ Wipro/ Havells						
21	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 ≥ 0.9 , harmonic distortion $\leq 10\%$ and efficacy ≥ 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 feet						

	Makes: Havells/ Bajaj/ Osram	2				Each	
22	Providing and installation of LED fixture 1200mm x 300mm, 36W +/- 1W surface mounted with PMMA diffuser with having minimum system lumen efficacy of 100 lm/W with CRCA housing and P.F. >0.95 with THD<10%, CCT 5700 K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V to 270V as required.						
	36 Watt LED 1'x4' Surface panel	2				Each	
	Makes: Wipro/ Panasonic/ Havells						
23	Supplying and fixing 45W LED street light made up of pressure die cast housing with TOUGHENED GLASS and IP66 protection including connections, testing etc. as required complete in all respects.						
	45W LED Street Light	1				Each	
	Makes: Panasonic/Bajaj/Wipro						
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur


SCHEDULE OF QUANTITY

NAME OF WORK : Replacement of old and damaged light fixtures with LEDs in 2nd floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.

Job No 13

ESTIMATED COST: Rs.1,20,550/-only.
EARNEST MONEY: Rs.2500/-only
TIME ALLOWED: Two Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	24 Watt LED 1'x1' Surface panel	71			Each	
	Makes:- Panasonic/Mipro/Havells					
2	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	Square/round LED 18W Surface	1			Each	
	Makes:- Panasonic/Mipro/Havells					
3	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (upto 30cm) with 16/0.20mm 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 1200mm sweep	2			Each	
	Makes:- Usha/Bajaj/Havells					
	Total					


Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

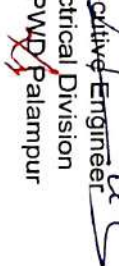
NAME OF WORK : Replacement of old and damaged light fixtures with LEDs in Medicine ICU, 4th floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.

Job No 14

ESTIMATED COST: Rs.1,41,196/-only.
EARNEST MONEY: Rs.2900/-only
TIME ALLOWED: Two Months

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	24 Watt LED 1'x1' Surface panel	10			Each	
	Makes:- Panasonic/Wipro/Havells					
2	Providing and installation of LED fixture 18W +/- 1W LED round/square surface mounted downlighter with minimum system lumen efficacy of 85 lm/W with and P.F. >0.95 with THD <20%, CCT 6000K, CRI 80. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
2.1	Square/round LED 18W Surface	3			Each	
2.2	Square/round LED 18W Recess	14			Each	
	Makes:- Panasonic/Wipro/Havells					

3	Providing and fixing of LED fixture 1200mm x 300mm 36Watt +/- 1W 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 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
3.1	36 Watt LED 1'x4' Surface panel	8			Each	
3.2	36 Watt LED 1'x4' Recess panel	8			Each	
	Makes:- Panasonic/Mipro/Havells					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :Replacement of old and damaged light fixtures with LEDs in 3rd floor of 500 bedded hospital Dr. RPGMC Kangra at Tanda.		Job No 15		ESTIMATED COST: Rs.1,14,230/-only. EARNEST MONEY: Rs.2300/-only TIME ALLOWED: Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing of LED fixture 300mm x 300mm 24Watt +/- 1W Surface mounted having minimum system lumen efficacy of 100lm/W with with CRCA housing and PMMA diffuser with P.F. >0.95, THD<10%, CCT 5700K, CRI 80. The LED shall be tested with LM80-08 standard with useful life of 50000 hrs. at L70. The input voltage range shall be 150V as required complete with connections, testing etc.					
	24 Watt LED 1'x1' Surface panel	68			Each	
	Makes:- Panasonic/Wipro/Havells					
2	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of strandard length (upto 30cm) with 16/0.20mm 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 1200mm sweep	2			Each	
	Makes:- Usha/Bajaj/Havells					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY


SCHEDULE OF QUANTITY						
NAME OF WORK : Replacement of smoke Detector,hooter,and Refilling of Portable Fire Extinguishers to Audotorium Building at Dr. RPGMC Kangra at Tanda.			Job No 16		ESTIMATED COST: Rs.2,83,702/-only. EARNEST MONEY: Rs.5700/-only TIME ALLOWED: Three Months	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Refilling of Portable Fire extinguishers,CO2 type 4.5 kg. Capacity complete in all respect.	15			Each	
2	Refilling of Fire extinguishers,CO2 type 9.0 kg. Capacity complete in all respect.	1			Each	
3	Refilling of Portable Fire extinguishers Water type(S/P) Capacity 9 litrs. complete in all respect.	10			Each	
4	Refilling of Portable Fire extinguishers ABC type (filled with 50 Map Powder) 6 kg capacity complete in all respect.	2			Each	
5	Refilling of Portable Fire extinguishers Mechanical Foam type 9 liters Capacity. Complete in all respect.	4			Each	
6	Refilling of Fire extinguishers DCP type Trolley on mounted wheel 25 kg Capacity.	1			Each	
7	Refilling of Portable Fire Extinguishes Modular type Clean Agent 5 Kg. Capacity.	1			Each	
8	Providing and Fixing of Portable Fire Extinguishers ABC Type 2 kg. Capacity. ISI mark IS:15683 Complete in all respect.	2			Each	
9	Providing and Fixing of Portable Fire Extinguishers ABC Type 6 kg. Capacity. ISI mark IS:15683 Complete in all respect.	7			Each	
10	Providing and Fixing of Portable Fire Extinguishers Water Type(S/P) 9 liters. Capacity. ISI mark IS:15683 Complete in all respect.	9			Each	
11	Supplying , Fixing , testing and Commissioning of Optical/ addressable smoke detector with indicator including mounting base as required complete in all respect and to the best satisfactory of Engineer-in- charge.Make: Morley/ IAS, Bosch. Notifier	36			Each	

12	Supplying , Fixing , testing and Commissioning of sounder / Hooter addressable with flashers including mounting base as required complete in all respect and to the best satisfactory of Engineer-in- charge. Make: Morley/ IAS, Bosch. Notifier	5			Each	
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY


NAME OF WORK :Refilling of portable Fire Extinguishers of different capacity and types of New Makeshift covid -19 Hospital, Autopsy Block, oxygen Plant,Burn Unit Building and Maharaja Chand Guest House of Dr, RPPGMC Kangra at Tanda.			Job No 17		ESTIMATED COST: Rs.1,34,914/-only. EARNEST MONEY: Rs.2700/-only TIME ALLOWED: One Month	
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Refilling of Portable Fire extinguishers, CO2 type 4.5 kg. Capacity complete in all respect.	23			Each	
2	Refilling of Portable Fire extinguishers Water Co2 Gas Cartridge type capacity 9 litrs. Complete in all respect.	6			Each	
3	Refilling of Portable Fire extinguishers Water type(S/P) Capacity 9 litrs. complete in all respect.	6			Each	
4	Refilling of Portable Fire extinguishers ABC type(filled with 50 Map Powder) 4 kg capacity complete in all respect.	3			Each	
5	Refilling of Portable Fire extinguishers ABC type (filled with 50 Map Powder) 6 kg.capacity complete in all respect.	5			Each	
6	Refilling of Portable Fire extinguishers ABC type (filled with 50 Map Powder) 9 kg.capacity complete in all respect.	17			Each	
7	Replacement of ABC Type Cylindern discharge pipe complete in all repect.	3			Each	
8	Replacement of Water type cylinder discharge pipe complete in all repect	2			Each	
9	Replacement of Co2 Cylinder 4.5 kg. cap. discharge pipe with flexible Hose complete in all respect	7			Each	
10	Providing and Fixing of Portable fire Extinguishers Carbon Dioxide (Co2) type 4.5 kg. Capacity ISI mark IS:15683 fitted with 1 meter hose with bend horn complete in all respect. Make: Minimax/OMEX/Cease Fire.	3			Each	
11	Providing and Fixing of Portable fire Extinguishers ABC type 9 kg Capacity ISI mark IS: 15683 complete in all respect. Make: Minimax/OMEX/Cease Fire.	1			Each	
Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :-Repair maintenance and servicing of Digital Control Conference System of DIS in H.P Vidhan Sabha at Tapovan (Dharamshala) In District Kangra (H P) for the year 2022-23					
SR. NO.	DESCRIPTION	QTY.	Job No 18		ESTIMATED COST: Rs. 2,26,015/-only. EARNEST MONEY: Rs.4600/-only TIME ALLOWED: One Year
			FIGURES	RATES WORDS	
				UNIT	AMOUNT
1.00	Repair, maintenance, servicing and Operation of Digital Control Conference System of DIS in Vidhan Sabha at Tapovan Dharamshala for a time period of One year and the description below				
1.01	This includes providing one scheduled preventive maintenance quarterly to carry out the necessary servicing/repair of the system as required for optimal/reliable functioning of equipment complete in all respect as desired by Engineer - in- charge.				
1.02	This includes replacement/repair of any defect arising out of manufacturing defect. This would exclude replacements necessitated due to damage or breakage arising out of falls, accidents, transportations or failure due to misuse or causes other than ordinary use etc. as and when required .				
1.03	This includes with our scheduled preventive maintenance, the system should work erroneously but in case of any exigency , The firm shall additionally provide unlimited corrective maintenance calls during the Amc.				
1.04	This includes the Tools and tackles required to carry out such maintenance is included in the scope of work . In addition ,a set of fuse ,testing wire ,patch cords ,cleaning cloth , solder iron ,multi meter, UPS Batteries etc.shall be provided by the firm within scope of maintenance of the system etc.as and when required .				
1.05	This includes the Consumable such as batteries,lamp,lens,LCD panel etc. (As per manufacturer discretion)and mishandling of equipment is covered in the scope of work.				
1.06	Repair, maintenance and servicing of Digital Control Conference System of DIS make in H.P Vidhan Sabha at Tapovan Dharamshala for the Year 2021-22	5		Per Month	

2.00	Operation of the above system during each Vidhan Sabha Winter Session or at some other important occasion / function up till the time period of contract by deployment of qualified/Skilled Engineer/Operator for the purpose as required. Their is no limit of occasion /function which may be increased and decreased during the year.	10				P/Day	
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur


SCHEDULE OF QUANTITY

NAME OF WORK :- C/o Civil Hospital (New Block -70 Bedded)Building at Nagrota Bagwan distt. Kangra H.P.(Sh:-Supplying and laying of Conduit pipe therein)		job No 19		ESTIMATED COST: Rs 2,75,800/-only. EARNEST MONEY: Rs.5600/-only TIME ALLOWED:Two Months		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Supplying and fixing of following sizes of steel conduit along with the accessories in surface / recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required:-					
1.1	25 mm. dia	1000			Per Meter	
1.2	40 mm. dia	20			Per Meter	
	Make: BEC/AKG/JPC					
	Total					


Executive Engineer
Electrical Division
HPPWD Palampur

SCHEDULE OF QUANTITY

SCHEDULE OF QUANTITY						
NAME OF WORK :- Repair and Comprehensive Maintenance of 01 No. 15 Passengers cum stretcher machine room less elevator "KONE" make installed in Anatomy block, Lecture theatres and Examination hall Dr. RPGMC Kangra at Tanda for three years i.e. 2021-22 to 2023-24.		job No 20		ESTIMATED COST: Rs 4,48,223/-only. EARNEST MONEY: Rs.9000/-only TIME ALLOWED:Three Years		
SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Annual Comprehensive Maintenance of 01 No. Elevator "KONE make" of following types & capacity with routine services at the regular intervals of one month, regular systematic examination adjustment, lubrification of machines motors controller parts i/c replacement of burnout parts, gears etc. bearing, brake 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 of lift in proper and safe operating conditions i/c emergency break down all attending services and sudden damages of mechanical parts etc. and best satisfaction of the Engineer-in-Charge.					
1.1	15 passengers cum stretcher machine room less elevator (1020 Kgs) for 1st Year	1			Per Job/1st year	
1.2	15 passengers cum stretcher machine room less elevator (1020 Kgs) for 2nd Year	1			Per Job/2nd year	
1.3	15 passengers cum stretcher machine room less elevator (1020 Kgs) for 3rd Year	1			Per Job/3rd year	
Total						


 Executive Engineer
 Electrical Division
 HPPWD/Palampur

SCHEDULE OF QUANTITY


NAME OF WORK :- C/O Mini secretariat Building at Shahpur in Tehsil shahpur Distt. Kangra H.P (SH: Providing and Fixing of Portable Fire Extinguishers in SDM Complex, 1st floor and 2nd floor therein)

Job No. 21

ESTIMATED COST: Rs.2,33,562/-only.
EARNEST MONEY: Rs.4700/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1	Providing and fixing Carbon dioxide CO2 4.5 kg type fire extinguishers ISI mark. CE and EN Certified, consisting of seamless cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube, 30cms long high pressure discharge hoase, discharge nozzle, suspension bracket, confirming to IS: 15683 finished externally with red enamel paint and M S Wheel type complete with internal charge as required complete in all respects and to the best satisfaction of Engineer-in-charge.	9			Each	
	Make: Minimax /CeaseFire/Aska					
2	Providing and fixing stored pressure vessel ABC 6 Kgs. Powder type fire extinguishers ISI mark. CE and EN Certified,consisting of seamless cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube, 30cms long high pressure discharge hoase, discharge nozzle, suspension bracket, confirming to IS: 15683 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.	4			Each	
	Make: Minimax /CeaseFire/Aska					
3	Providing & fixing of IS marked 15683 Water type 9 Litre (S/P) fire Extinguishers ISI mark. CE and EN Certified,cylindrical body, squeeze lever discharge valve fitted with pressure discharge hose, discharge nozzle, etc. finished externally with red enamel paint and fixed to wall with brackets complete with internal charges.	8			Each	
	Make: Minimax /CeaseFire/Aska					

4	Providing & fixing of IS marked 15683 Mechanical Foam type 9 Litre (S/P) fire Extinguishers CE and EN Certified, cylindrical body, squeeze lever discharge valve fitted with pressure discharge hose, discharge nozzle, etc. finished externally with red enamel paint and fixed to wall with brackets complete with internal charges.	4				Each	
	Make: Minimax /CeaseFire/Aska						
	Total						


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing electrical wiring and Earthing for One No. 13 Passengers elevator / Lift in Department of Pulmonary Medicine at Dr.RPGMC Kangra at Tanda Distt. Kangra (H.P.).


Job No 22

ESTIMATED COST: Rs.1,75,361/-only.
EARNEST MONEY: Rs.3600/-only
TIME ALLOWED: One Month

SR. NO.	DESCRIPTION	QTY.	RATES		UNIT	AMOUNT
			FIGURES	WORDS		
1.0	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make :- KEI/SCI/Anchor/Plaza.					
1.1	Group C	10.			Point	
2.0	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 :- KEI/SCI/Anchor/Plaza.					
2.1	2X4 sq. mm + 1X4 sq. mm earth wire	15			P/Mtr	
2.2	2X10 sq. mm + 1X6 sq. mm earth wire	5			P/Mtr	
2.3	4X10 sq. mm + 2X6 sq. mm earth wire	10			P/Mtr	
3.0	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/SCI/Anchor/Plaza.					
3.1	4X4 sq. mm + 2X4 sq. mm earth wire	10			P/Mtr	
4.0	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 complete in all respects.	5			Each	

5.0	Providing & Laying of one number aluminium conductor, PVC insulated and PVC sheathed armoured/ XLPE power cable, 1.1 KV grade of following sizes on wall surface as required..Make :- KEI/SCI/Anchor/Plaza.					
5.1	Armoured Cable 25 Sq.mm. (3.5 core)	20			P/Mtr	
6.0	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.					
6.1	MCCB 100 Amp. 18 KA	2			Each	
7.0	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)					
7.1	8 way double door	1			Each	
	Make:-Lerand/Schneider/Anchor UNO					
8.0	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.					
8.10	Single pole	2			Each	
	Make:-Lerand/Schneider/Anchor UNO					
9.00	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required					
9.10	40 amps	1			Each	
	Make:-Lerand/Schneider/Anchor UNO					

10	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 complete as required.	2			Per Set	
11	Supplying and fixing copper tape 20mmx3mm thick on parapet or surface of wall for lightning conductor as required (for horizontal run)	15			Per Meter	
12	Supplying and fixing copper tape 20mmx3mm thick on parapet or surface of wall for lightning conductor as required (for vertical run)	30			Per Meter	
13	Providing and fixing of IP 65 LED Bulkhead 10 W +/- 1W with system efficacy 100lm/W with Aluminium housing PF>0.95 with THD<10% CCT 5700 K CRI 70 surge protectin 4kv. The LED with useful life of 50000 Hrs. at L70. The input voltage range shall be 150v to 270v.					
14.00	Make:- Wipro Cat No. LW07-141-XXX-57-G1/Philips/Bajaj	5			Each	
15.00	Providing and fixing of IP 20 LED Surface mounted CRCA Powder coated box type channel with Pro LED lamp suitable for mounting 1x18 W LED Tube T8 type having minimum system efficacy of 100 lm/W, PF >.95 with THD <10% CCT 6500K CRI 80 surge protection 2Kv The LED with useful life of 50000 Hrs at L70 with five years warranty. The input voltage range shall be 150 V to 270V 50/60Hz complete with all accessories including connections testing and commissioning etc. as required complete in all respects					
15.10	LED fixture 1x18 Watt surface Mounted 4 Feet Box type Channel with Pro Lamp	10			Each	
	Make:- Phillips / Wipro / Bajaj					
	Total					


 Executive Engineer
 Electrical Division
 HPPWD Palampur

SCHEDULE OF QUANTITY

NAME OF WORK :- Providing electrical wiring and Earthing for One No. 13 Passengers elevator / Lift in Department of Pulmonary Medicine at Dr.RPGMC Kangra at Tanda Distt. Kangra (H.P.).

Job No 23

ESTIMATED COST: Rs.1,80,022/-only.
EARNEST MONEY: Rs.3700/-only
TIME ALLOWED: Six Month

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 (HFR) 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. HFR/LSPVC insulated single core copper conductor cable as required.					
i	Group C. Makes:-SCI/ Legrand(Myrius),Schneider(Livia),Anchor	27			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/SCI	25			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/SCI	25			P/Mtr	
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.					
i	Makes: Plaza/KEI/SCI	25			P/Mtr	

5	Wiring for light/ power plug with 4X4 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.					
i	Makes: Plaza/KEI/SCI	10			P/Mtr	
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					
i	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	5			P/Mtr	
	Makes: Plaza/KEI/SCI					
7	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	3X1.5 Sq.mm	15			P/Mtr	
ii	3X2.5Sq.mm	15			P/Mtr	
iii	3X4Sq.mm	10			P/Mtr	
	Makes: Plaza/KEI/SCI					
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	19			Each	
9	Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.					
i	Makes: Legrand(Myrius),Schneider(Livia),Anchor Roma(Plus)	4			Each	
10	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required:-					

i	Single pole. Cat-A.	12				Each	
	Makes: Legrand,Schiender,Anchor.						
11	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
i	63 Amps. Cat-A.	1				Each	
	Makes:- Legrand,Schiender,Anchor.						
12	Supplying and fixing following rating, double pole (single phase & neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 miliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
i	63Amps. Cat-A.	1				Each	
	Makes: Legrand,Schiender,Anchor.						
13	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus- bar, wire-set, neutral link, earth bar, 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).						
	Makes: Legrand,Schiender,Anchor.						
i	Double door-16 way	1				Each	
14	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but with charcoal/ coke and salt) as required.	1				P/Set	
15	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	25				P/Mtr	
16	Supplying and fixing of fancy wall bracket suitable for input voltage: AC 220-240 V, 50/60Hz, complete with all accessories, lamp holder, but excluding lamp including making connections, testing etc. as required of Approved Make.(Including 5Years Warranty).						

	Fancy Wall Light Fixture	5			Each	
	Makes: Jaquar (Cat No. JNL-CHR-MB160275541A) /Havells/Philips					
17	Supplying and fixing LED lamp 9 watts on the existing batten holder/Fancy wall bracket as required complete in all respects.					
	Makes:-Havell/Bajaj/Philips.	7			each	
18	Supplying and fixing brass batten/ angle holder including connection etc. as required.	2			Each	
	Makes: Anchor/SSK.					
19	Providing, Installation, testing and commissioning of ceiling fan without regulator,including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required. (With Five years warranty)					
i	Ceiling Fan 1200 mm sweep, Category-A	1			Each	
	Make:- Usha(Technix Plus),Bajaj,Anchor					
20	Providing and installation exhaust fan of following sizes in the existing opening,including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:					
i	Exhaust Fan, Light duty, (Domestic) 300 mm sweep	2			Each	
	Make:-Usha(AEROCLEAN PLUS DBB),Bajaj,Anchor					
21	Providing, Installation, testing and commissioning of wall fan of following size by means of suitable rag bolts/nuts, connections, testing and commissioning etc. as required complete in all respects to the best satisfaction of Engineer in Charge of approved make.(With Five years warranty)					
	Wall fan 400mm Sweep	3			Each	

	Make: Bajaj (ESTEEM 400MM WALL FAN), Usha, Cromptons				
22	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. (With Five years warranty)				
i	LED Tube Light 4 Feet Long				
	Makes: Bajaj, Panasonic, wipro	10		Each	
23	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. (With Five years warranty)				
i	LED Downlighter 18Watts	1		Each	
ii	Makes: Bajaj (Model -BP SLR Surface 18 W LED RD SD)/Panasonic/ ,wipro				
24	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. (With Five years warranty)				
i	LED 10 Watt Bulk Head				
	Makes: Bajaj (Cat no. BIBWP 10W)/Panasonic/ ,wipro	2		Each	

25	Supplying and fixing of LED Flood light Luminaire comprises of Al Die cast Housing with frame , High Purity PC lens Diffuser, cradle mounting, minimum system lumens of 5000. The luminaire shall have CCT of 5700K and CRI of minimum 80, PF>0.95 and THD>10%. The luminaire shall have IP66 and IK08 protection. The LED shall be compliant with Useful L70 life of 50000 Hrs. Driver efficiency should be 85% to operate in input voltage range of 100V to 270V (nominal rated voltage – 240V) with 4 KV internal surge protection. (With Five years warranty)						
	LED Flood light 30 Watts						
	Makes: Bajaj, Panasonic ,wipro	1				Each	
	Total						


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