

Name of work: Balance work in Construction of RURAL SELF EMPLOYEMENT TRAINING INSTITUTE (RSETI)Building for PNB-CRDT at Kullu, Himachal Pradesh (at Risk & Cost)								
SCHEDULE OF QUANTITIES (ELECTRICAL)								
As per BOQ								
Item No	DSR 2014	Description of Item	Total Qty as per BOQ (M/s SKP Buildcon Pvt. Ltd. or approved erlier	Unit	Rate	Qty Executed by M/s SKP Buildcon Pvt. Ltd.	Balance Qty to be Executed	Amount
A	DSR 2014	Point Wiring						
A.1	1.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR 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. FR PVC insulated copper conductor single core cable etc as required.						
	1.3.2	Group C	251.00	Point	866.23	158.00	93.00	80,559.39
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A.2	1.5	Wiring for light/ power plug with 2X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	816.00	Metre	239.99		816.00	195,831.84
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A.4	1.6	Wiring for light/ power plug with 4X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	224.00	Metre	369.77		224.00	82,828.48
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A.5	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					-	-
	1.24.1	5/6 amps switch	158.00	Each	83.43		158.00	13,181.94
	1.24.3	15/16 amp switch	28.00	Each	114.33		28.00	3,201.24
	1.24.4	3 pin 5/6 amp socket outlet	158.00	Each	81.37		158.00	12,856.46
	1.24.5	6 pin 15/16 amp socket outlet	28.00	Each	154.50		28.00	4,326.00
	1.24.8	Bell push	4.00	Each	114.33		4.00	457.32
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A.6	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	28.00	Each	292.52		28.00	8,190.56
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A.7	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	20.00	Each	23.69		20.00	473.80
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A.8	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					-	-
	1.28.1	1 or 2 Module	10.00	Each	81.37		10.00	813.70
	1.28.2	3 Module	186.00	Each	90.64		186.00	16,859.04
	1.28.3	4 Module	12.00	Each	99.91		12.00	1,198.92
	1.28.4	6 Module	8.00	Each	125.60		8.00	1,004.80
	1.28.5	8 Module	12.00	Each	151.41		12.00	1,816.92
	1.28.6	12 Module	24.00	Each	166.86		24.00	4,004.64
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B		Submain and Control Wiring					-	-
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B.1	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					-	-
	1.7.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	1,080.00	Metre	180.25		1,080.00	194,670.00
	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	750.00	Metre	206.00		750.00	154,500.00
	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	344.00	Metre	237.93		344.00	81,847.92
	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	50.00	Metre	324.45		50.00	16,222.50
	1.7.5	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	30.00	Metre	429.51		30.00	12,885.30
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B.2	1.20	Supplying and fixing of following sizes of steel conduit along with 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.					-	-
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	1.20.2	25 mm	5.00	Metre	146.26		5.00	731.30
	1.20.3	32 mm	100.00	Metre	198.79		100.00	19,879.00
C		Cables					-	-
							-	-
C.1	7.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					-	-
	7.1.1	Upto 35 sq. mm	60.00	Metre	200.85		60.00	12,051.00
	7.1.2	Above 35 sq. mm and upto 95 sq. mm	25.00	Metre	208.06		25.00	5,201.50
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C.2	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					-	-
	9.1.22	3½ X 50 sq. mm (35mm)	4.00	Each	352.26		4.00	1,409.04
	9.1.21	3½ X 35 sq. mm (32mm)	4.00	Each	278.10		4.00	1,112.40
	9.1.33	4 X 16 sq. mm (28mm)	20.00	Each	252.35		20.00	5,047.00
	9.1.32	4 X 10 sq. mm (28mm)	20.00	Each	198.79		20.00	3,975.80
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C.3	MR	Supply of following XPLE armoured 1.1 KV grade conforming to I.S.7098/1554Aluminium Conductor Cables :					-	-
		Supply of following sizes of PVC sheathed PVC/XLPE insulated Aluminium conductor armoured cable of 1.1 KV grade conforming to IS:7098 part-1 / IS:1554 part-1 respectively & ISI marked.					-	-
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	a)	3.5 C x 50 Sqmm	50.00	RM	208.06		50.00	10,403.00
	b)	3.5 C x 35 Sqmm	25.00	RM	200.85		25.00	5,021.25
	c)	4 C x 16 Sqmm	25.00	RM	200.85		25.00	5,021.25
	d)	4 C x 10 Sqmm	100.00	RM	200.85		100.00	20,085.00
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D		DB					-	-
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D.1	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	10.00	Each	7.21		10.00	72.10
							-	-
D.2	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.					-	-
	2.10.1	Single pole	126.00	Each	174.07		126.00	21,932.82
							-	-
D.3	2.13	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					-	-
	2.13.1	40 amps	1.00	Each	678.77			
	2.13.2	63 amps	5.00	Each	690.10		5.00	3,450.50
	2.13.3	100 amps	1.00	Each	876.53			
							-	-
D.4	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, including 200 amps tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					-	-
	2.4.6	8 way (4 + 24), Double door	2.00	Each	3,242.44		2.00	6,484.88
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D.5	2.5	Supplying and fixing following way, vertical type three pole and neutral, sheet steel, MCB distribution board, 415 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)					-	-

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	2.5.6	12 way (4 + 36), Double door	3.00	Each	7,379.95		3.00	22,139.85
							-	-
D.6	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					-	-
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	2.14.2	40 amps	15.00	Each	1,765.42		15.00	26,481.30
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D.7	2.2	Supplying and Fixing following rating and breaking capacity and pole MCCB in existing panel board including drilling holes in cubicle panel, making connections etc as required					-	-
	2.2.1	100 Amp, 16KA, TPMCCB	1.00	Each	3,301.15		1.00	3,301.15
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E		PROVISIONS FOR VOICE, DATA, SECURITY & TV SYSTEMS					-	-
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E.1	1.24	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					-	-
	1.24.6	Telephone socket outlet	7.00	Set	97.85		7.00	684.95
	1.24.7	TV socket outlet	4.00	Set	96.82		4.00	387.28
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E.2	1.18.2	Supplying and drawing following pair, 0.5 sq.mm FR PVC insulated copper conductor, unarmoured telephone cable in the existing surface / recessed steel / PVC conduit as required.					-	-
		2 Pair	175.00	Mtr.	18.54		175.00	3,244.50
							-	-
E.3	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface / recessed steel / PVC conduit as required.					-	-
		4 pair UTP CAT 6	280.00	Mtr.	33.99		280.00	9,517.20
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E.4	1.19	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.	50.00	Mtr.	28.84		50.00	1,442.00
							-	-
E.5	MR	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but including modular plate etc. as required.					-	-
		RG 45 CAT6 data outlet	28.00	Set	154.50		28.00	4,326.00
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F		LIGHTING FIXTURES & FITTINGS					-	-
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F.1	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	168.00	Each	93.73		168.00	15,746.64
							-	-
F.2	1.45	Installation, testing and commissioning of ceiling fan including wiring the down rods of standard lenght (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable including providing and fixing phenolic sheet cover on the fan box as required etc	28.00	Nos.	125.66		28.00	3,518.48
							-	-
F.3.1	1.50.1	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	15.00	Nos.	210.12		15.00	3,151.80
		Upto 450 mm sweep					-	-
							-	-
F.3.2	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	15.00	Nos.	92.70		15.00	1,390.50

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							-	-
F.4	MR	Supply of ISI marked domestic exhaust fan plastic ideal for mounting on glass window with 200mm sweep (Havells Cat No. Ventilair DX 200mm sweep or equivalent)	15.00	Each	210.12		15.00	3,151.80
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F.5	MR	Supply of Tubelight box type fitting including lamp fitting and all accessories as required. (Philips Cat no. - Opalite TCS 019 with 1xTL -D36W lamp or Equivalent)	130.00	Each	566.50		130.00	73,645.00
							-	-
F.6	MR	Supply of ISI marked energy efficient sweep ceiling fan with double ball bearing, motor, blades, down rod, canopies, capacitor etc. suitable for operation on 230 volts, 50 Hz., single phase, AC supply complete as required and as per specifications attached.					-	-
		1200 mm sweep	28.00	Each	824.00		28.00	23,072.00
							-	-
F.7	MR	Supply, Installation, Testing and Commisioning of Wall fan of size 400mm with minimum RPM of 1360 or above with wiring and controls, complete in all respect	36.00	Each	463.50		36.00	16,686.00
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F.8	MR	Supply of CFL fitting including lamp fitting of 18W CFL and all accessories as required. (Philips Cat no. - FCS 100 1xPL-C/2P18W I 240V with 1xPL-C/2P18W CFL lamp or Equivalent)	16.00	Each	257.50		16.00	4,120.00
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F.9	MR	Supply, Installation, Testing and Commisioning of pillar luminaires for compound wall lighting with CFL fitting including lamp fitting of 20W CFL and all accessories as required. (Klite Cat no. - Candela Mini with 20W CFL lamp or Equivalent)	22.00	Each	463.50		22.00	10,197.00
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		SUBSTATION EQUIPMENTS					-	-
G		EARTHING					-	-
							-	-
G.1	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	4.00	Each	4,043.78		4.00	16,175.12
							-	-
G.2	5.4	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.	4.00	Set	4,624.70		4.00	18,498.80
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G.3	5.9	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	10.00	Metre	117.77		10.00	1,177.70
							-	-
G.4	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	10.00	Metre	146.76		10.00	1,467.60
							-	-
G.5	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	500.00	Metre	23.69		500.00	11,845.00
							-	-
G.6	5.7	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.	50.00	Metre	27.81		50.00	1,390.50
H		PANELS AND FLOOR BOARDS					-	-
							-	-
		PANELS WITH REAR ACCESS					-	-

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		Supplying, installation, testing and commissioning of cubical type outdoor type panel with canopy suitable outdoor use for 415 V, 3 Phase, 4 Wire 50 Hz AC supply system fabricated in compartmentalized (preferably) design from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland plates I/C cleaning and finishing complete with 7 tank process for powder coating in approved shade, bus bar supports, with short circuit withstand capacity of 25 MVA for 1 Sec., bottom base channel of MS section not less than 100mm x 50mm x 5mm thick, fabrication shall be done in transportable sections, entire panel shall have a common copper earth bar of size 25 mm x 5 mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gears with required size of Cu. bus bars and control wiring with 2.5 sq.mm. PVC insulated copper conductor S/C cable alleys, cable gland plates in two half, I/C providing following switchgears: -					-	-
H.1	MR	Floor Board Panel					-	-
		Incomer: 1nos 125A TPN MCCB with adjustable thermomagnetic release and rotary operating handle.					-	-
		1nos 100A TPN MCCB (for D.G. set) with adjustable thermomagnetic release and rotary operating handle.					-	-
		1no 96x96 mm digital multi - parameter meter for measurement of current, voltage, frequency, power factor, active & reactive power and energy and with RS 485 port with suitably rated CTs and HRC fuses protection.					-	-
		1 set of three phase indicating lamps with suitable protection.					-	-
		Busbar: Equally sized three phase and neutral tinned copper bus bars suitably sized to carry 200A current with colour coded heat shrinkable sleeves.					-	-
		Outgoing:					-	-
		6nos 63A TPN MCBs.					-	-
		2nos 32A TPN MCBs.					-	-
		Floor boards complete as above	1.00	nos	50,000.00		1.00	50,000.00
H.2	MR	Complete Liasoning with the concerned electricity department for providing electricity connection at the site as per requirement including sanctioning of load, site visit of the concerned officer, testing etc	1.00	Lump Sum	70,000.00		1.00	70,000.00
I		SAFETY ITEMS					-	-
I.1	MR	Providing of Rubber mat 1 metre wide and 6mm thick to with stand 1.1KV dielectric strength Latest as per IS 15652.	2.00	mtrs	309.00		2.00	618.00
I.2	MR	Supply and fixing of shock treatment chart duly mounted on a wooden frame with 5mm thick glass (approximate front area 1.2 sq meter)	1.00	nos	4,635.00		1.00	4,635.00
I.3	MR	Providing of Set of 4 Nos. 9.5 Litre capacity GI bucket painted in post office red colour with prior coat of red-oxide paint and written with white paint 'FIRE' and mounted on MS angle iron frame with bracket of appropriate size & capacity I/c filling sand etc.	1.00	nos	1,236.00		1.00	1,236.00
I.4	MR	Supplying and fixing of Carbon dioxide (CO2) type fire extinguishers of 4.5 Kg each mounted on wall hooks conforming to IS 2878 - 1976 and cylinders fully charged of following capacity. 4.5 KG	1.00	nos	5,150.00		1.00	5,150.00
I.5	MR	Providing of First Aid Box as approved by St. John Ambulance Brigade/Indian Red Cross conforming to IS 2217-1963.	1.00	nos	824.00		1.00	824.00
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I.6	MR	Supply and fixing of Foam fire extinguishers, portable 9 litre capacity hanged on wall with bracket complete as required.	1.00	Nos.	1,236.00		1.00	1,236.00
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I.7	2.21	Providing and fixing MV danger notice plate of 200mm x 150mm made of mild steel, atleast 2 mm thick, and vitreos enamelled white on both sides and with iscription in single red colour on front side as required	2.00	nos.	566.30		2.00	1,132.60
		SUBHEAD TOTALS CARRIED TO SUMMARY						1,421,198.38