

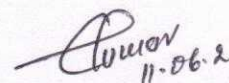
**BILL OF QUANTITY**

Name of work	Electrical installation in newly constructed Poultry House at RPCAU, Pusa	
Estimated Cost	Rs. 5,69,185.00	Sold to M/S
Earnest Money	Rs. 12000.00	Address:
Cost of B.O.Q	Rs. 1250.00	Registration No.
Time of Completion	One Month	M.R.No.

S.N.	SOR	Items of work	Quantity	Unit	Rate	Amount
01.		Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.1	Group-A	20 Nos.	Each	694.00	
	1.8.2	Group-B	50 Nos.	Each	759.00	
	1.8.3	Group-C	80 Nos.	Each	966.00	
02.		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.1	2x1.5 Sq.mm + 1x1.5 Sq.mm earth wire	05 M	Per M	146.00	
	1.14.2	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	300 M	Per M	167.00	
	1.14.3	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	80 M	Per M	200.00	
	1.14.4	2x6.0 Sq.mm + 1x6.0 Sq.mm earth wire.	100 M	Per M	249.00	
	1.14.10	4x10 Sq.mm + 2x6 Sq.mm earth wire.	05 M	Per M	543.00	
	1.14.11	4x16 Sq.mm + 2x6 Sq.mm earth wire.	07 M	Per M	752.00	
03.		Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	1.23.1	5/6 A switch	10Nos.	Each	45.00	
	1.23.4	3 pin 5/6 A Socket outlet	10 Nos.	Each	58.00	
	1.23.3	15/16 Amp. Switch	40 Nos.	Each	110.00	
	1.23.5	16/16 Amp. Socket	12 Nos.	Each	128.00	
04.	1.33	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	100Nos	Each	65.00	
05	1.34	Supplying and fixing brass batten/angle holder including connection etc. as required.	05 Nos.	Each	117.00	
06	MR	Supplying and fixing Pendent holder including connection etc. as required.	36 Nos.	Each	30.00	
07		Supplying & fixing 5 A to 32 A rating, 240/415,10KA, "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	36 Nos.	Each	199.00	
08		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	2.4.1	4 way (4+12) Double door	03 Nos.	Each	3068.00	


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09.	2.12	Supplying and fixing following rating, 240 V, 'C' Series, miniature ckt. Breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.12.7	63 Amp. TPN MCB .	03 Nos.	Each	2405.00	
10.	5.2	Earthing with G.I earth pipe 4.5 meter 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.	03 Sets	Per Set	5308.00	
11.	5.13	Providing and Laying Earth connection from earth electrode with 4.00 mm copper wire 15 mm dia GI/PVC Pipe from earth electrode including earth connection with copper thimble excavation and re-filing as required.	25 M	Per M	257.00	
12.	N.S	Supplying, fitting and fixing of 20 watt LED Tube Light Fitting including connections etc. as reqd.(Bajaj, Orpet/ Siska/Anchor)	68 Nos.	Each	506.00	
13.		Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. 2 x 1.5 sq. mm	50Mtrs	Per M	41.00	
14.	NS	Supplying and laying of XLPE/PVC insulated pvc sheated (Heavy Duty) armoured electrical cable with aluminium conductor for working voltage upto and including 1100 volts conforms to IS : 1554, part- 1 a)35 sq. mm, 3.5 core c)16 sq. mm 4 Core	45 Mtrs 70 Mtrs	Per M Per M	405.00 295.00	
15.	N.S	Supplying, fitting and fixing of 60 Watt LED Street Light Fitting with Clamp including connections etc. as reqd. (Bajaj, Oreva,Havells.Siska make)	08 Nos.	Each	9525.00	
16.	N.S	S/F/F of Ceiling Fans including connections etc as required.	36 Nos.	Each	2475.00	
17.	N.S	Providing and fixing following TP&N Capacity sheet metal switch disconnect or fuse unit in existing metal board with rewirable type fuse existing including drilling holes in metal board, making connection, earthing the body etc. as reqd				
	N.S	63 Amp. TP&N	02 Nos.	Each	5225.00	
18.	MR	Providing and fixing following Capacity 2 pole/ 4pole OFF-load changeover switches with side handle operation, in sheet enclosure in existing metal board including drilling holes in metal board, making connection, earthing the body etc. as reqd a)63 Amps, 4 pole	02 Nos.	Each	6085.00	
19.	MR	Supplying, Fixing and Fitting of 500 watts Sodium light (Halogen) including connections etc as reqd.	18 Nos.	Each	825.00	
20.	N.S	S/F/F of PVC Boards.				
		7"x4"	10Nos.	Each	60.00	
		4"x5"	12 Nos.	Each	50.00	

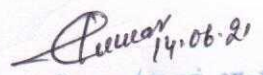
  
 11.06.21  
 कार्यपालक अभियन्ता (मं एवं आंसं)  
 Executive Engineer (B&I)  
 रांप्रंकेंकुंविं, पूसा  
 R.P.C.A.U. Pusa

## BILL OF QUANTITY

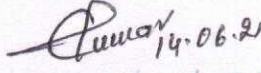
Name of work :		Estimate for Internal Electrical Installation in Central Workshop at DRPCAU, Pusa				
Estimated cost:		Rs.290112.00	Sold to M/S			
Earnest Money:		Rs. 6000.00	Address			
Cost of B.O.Q :		Rs. 750.00	Registration No.			
Time of Completion		One Month	M.R.No. <span style="float: right;">date</span>			
S.N	SOR	Items of work	Quantity	Rate	Unit	Amount
1.		Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.1	Group-A	12 Nos.	694.00	Each	
	1.8.2	Group-B	16 Nos.	759.00	Each	
	1.8.3	Group-C	30 Nos.	966.00	Each	
2.		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	130 M	167.00	Per M	
	1.14.3	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	40 M	200.00	Per M	
	1.14.3	4x4.0 Sq.mm + 2x4.0 Sq.mm earth wire.	165 M	308.00	Per M	
	1.14.9	4x6.0 Sq.mm + 2x6.0 Sq.mm earth wire.	20 M	394.00	Per M	
	1.14.5	4x10 Sq.mm + 2x6 Sq.mm earth wire	05 M	543.00	Per M	
3.		Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	1.23.1	5/6 A Switch	10 Nos.	45.00	Each	
	1.23.4	3 pin 5/6 A Socket outlet	10 Nos.	58.00	Each	
	1.23.3	15/16 Amp. Switch	12 Nos.	110.00	Each	
	1.23.5	16/16 Amp. Socket	12 Nos.	128.00	Each	
4.		Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	0399 Nos.	1232.00	Each	
5.	1.33	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	20 Nos.	65.00	Each	
6.	1.34	Supplying and fixing brass batten/angle holder including connection etc. as required.	38 Nos.	117.00	Each	
7.		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/ RRCB/Isolator)				
	2.3.1	6 way, Double door	12 No.	1661.00	Each	
	2.3.3	12 way, Double door	01 No.	2053.00	Each	

  
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 कार्यपालक अभियन्ता (मं एवं आंसं)

8.		Supplying & fixing 5 A to 63 A rating, 240/415,10KA, "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	22 Nos.	199.00	Each
	2.10.2	Single Pole & Neutral	01 Nos.	1240.00	Each
9.	N.S	Providing and fixing following capacity double pole/ TP&N sheet metal switch disconnecter fuse unit in existing metal board with rewirable type fuses, including drilling holes in metal board, making connections, etc as required make havells, capital.			
		63 amps, double pole	01 Nos.	3250.00	Each
10.	N.S	Supplying and fixing following rating, 240 V, 'C' series, miniature ckt. Breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
		63 Amp. TPN MCB.	11 Nos.	2405.00	Each
11.	N.S	Providing and fixing following capacity double pole/TP&N sheet metal switch disconnecter fuse unit in existing metal board with rewirable type fuses, including drilling holes in metal board, making connections etc as required.			
		100 amps, TP&N	01 No.	8240.00	Each
12.	N.S	Providing and fixing following capacity 2 pole/ 4 pole OFF-load changeover switches with side handle operation, in sheet enclosure in existing metal board including drilling holes in metal board, making connection, earthing the body etc as required.			
		100 amps, 4 pole	01 No.	13986.00	Each
13.	N.S	Providing and fixing of 100 amps kit kat including connection etc. as required.	03 No.	1025.00	Each
14.	N.S	Providing and fixing of LED Tube light 20 watt including connection etc. as required Bajaj/Syska/Philips	06 Nos.	502.00	Each
15.	N.S	Providing and fixing of Exhaust fan (300mm) including connection etc. as required. Bajaj/Havells	01 Nos.	2175.00	Each
16.	N.S	Providing and fixing following capacity busbar chamber with 4 strips of suitable size made of copper, heavy duty, complete with all accessories including connections, earthing the body etc as required.			
		200 amps	01 Nos.	8933.00	Each
17.	N.S	Providing and fixing M.V danger notice plate of 200 mm x 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	01 Nos.	106.00	Each
18.	N.S	Supplying and drawing 16 sq.mm. PVC insulated PVC sheathed 4 core aluminium armoured cable.	20 M	250.00	Per M
19.	5.6	Earthing with copper earth plate 600 mm x 600 mm x 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/coke and salt as required.	02 set	11794.00	Per set


  
 कार्यपालक अभियन्ता (भोएवं आंसो)  
 Executive Engineer (B&I)  
 रांप्रकंठकुंवि०, पूसा  
 २००६११, पुसा

20.	5.14	Providing and fixing 25 mm x 5 mm copper strip on surface or in recess for connections etc. as required.	6 M	1009.00	Per M	
21.	5.13	Providing and Laying Earth connection from earth electrode with 4.00 mm copper wire 15 mm dia GI/PVC Pipe from earth electrode including earth connection with copper thimble excavation and re-filing as required.	10 M	257.00	Per M	
22.	N.S	Providing and fixing of Thimble including connection etc. as required.	60 Nos.	25.00	Each	
23.	N.S	Supplying fitting and fixing of PVC Boards of different sized.				
		7"x 4"	01 No.	60.00	Each	
		5"x 4"	12 Nos.	50.00	Each	

  
 14.06.21  
 कार्यपालक अभियन्ता (मं एवं आं सं)  
 Executive Engineer (B&I)  
 रांप्रंकेंकुंविं, पुसा  
 R.P.C.A.U. Pusa

## BILL OF QUANTITY

Name of work :		Estimate for Internal Electrical Installation in Programmer Coordinator's quarter of KVK, Siwan under DRPCAU, Pusa				
Estimated cost:		Rs. 1,29,200.00	Sold to M/S			
Earnest Money:		Rs. 3000.00	Address			
Cost of B.O.Q :		Rs. 500.00	Registration No.			
Time of Completion		One Month	M.R.No.	date		
S.N	SOR	Items of work	Qty.	Rate	Unit	Amount
1		Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.1	Group-A	15	694.00	Each	
	1.8.2	Group-B	10	759.00	Each	
	1.8.3	Group-C	5	966.00	Each	
2		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	180	167.00	Per M	
	1.14.3	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	30	200.00	Per M	
3		Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	1.23.1	5/6 A Switch	10	45.00	Each	
	1.23.4	3 pin 5/6 A Socket outlet	10	58.00	Each	
	1.23.3	15/16 Amp. Switch	6	110.00	Each	
	1.23.5	6 pin 15/16 Amp. Socket outlet	6	128.00	Each	
4	1.33	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	8	65.00	Each	
5	1.34	Supplying and fixing brass batten/angle holder including connection etc. as required.	22	117.00	Each	
6		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 (Bud without MCB/ RRCB/Isolator)				
	2.3.2	12 way, Double door	1	2053.00	Each	
7		Supplying & fixing 5 A to 32 A rating, 240/415,10KA, "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	10	199.00	Each	
	2.10.2	Single Pole & Neutral	1	544.00	Each	
8	5.2	Earthing with G.I earth pipe 4.5 meter long, 40 mm dia including accessories .and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.(but without charcoal/ coke and salt) as required.	1	5308.00	Each	
9	5.13	Providing and Laying Earth connection from earth electrode with 4.00 mm copper wire 15 mm dia GI/PVC Pipe from earth electrode including earth connection with copper thimble excavation and re-filing as required.	15	257.00	Per M	

  
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)  
 Executive Engineer (B&I)  
 रा० प्र० के० कृ० वि०, पूसा  
 R.P.C.A.U Pusa

10	N.S	Providing and fixing following capacity double pole/ sheet metal switch disconnecter fuse unit in existing metal board with rewirable type fuses, including drilling holes in metal board, making connections, etc as required make havells, capital.				
		32 amps, double pole	1	1475.00	Each	
11	N.S	Supplying, fitting and fixing of Step fan regulator in the existing board connection etc as required.	5	310.00	Each	
12	N.S	Supplying & drawing of 10sqmm. Pvc insulated pvc sheathed aluminium conductor cable make Havells, Capital	30	50.00	Per M	
13	N.S	Providing and fixing of Ceiling fan (1200mm) including connection etc. as required. Bajaj/Havells/Crompton	5	2450.00	Each	
14	N.S	Supply of the following luminaires comprising of basic channel, holder, Electronic ballast/ LED driver, starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number given below				
	a)	1x12W CFL wall bracket light philips CAT No. QWG 313 with 1x12 W CFL lamp	5	736.00	Each	
	b)	Wall/ ceiling mounted ceiling light fixture Philips cat No. MIROLTA slim T5 TMS540 HF with TL-5 28W fluorescent lamp	12	551.00	Each	
15	N.S	S/F/F of 380mm dia 900 rpm exhaust fan with clamp including connections etc as req (Havells,Bajaj,Usha, Orpet)	3	3188.00	Each	
16	N.S	S/F/F of 30 Watts LED Street light fitting with clamp including connections etc as req (Havells,Bajaj,Usha, Orpet)	4	3495.00	Each	
17	N.S	Supplying fitting and fixing of PVC Boards of different sized.				
		7"x4"	3	60.00	Each	
		5"x4"	4	50.00	Each	

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14.06.21

कार्यपालक अभियन्ता (भ०एवं आ०सं०)  
Executive Engineer (B&I)  
रा०प्र०के०कु०वि०, पूसा  
R.P.C.A.U. Pusa

## BILL OF QUANTITY

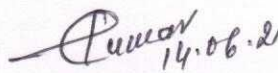
Name of work :		Estimate for Internal Electrical Installation in New Spawn Lab in Mushroom at DRPCA U, Pusa				
Estimated cost:		Rs. 4,24,204.00	Sold to M/S			
Earnest Money:		Rs. 9000.00	Address			
Cost of B.O.Q :		Rs. 750.00	Registration No.			
Time of Completion		One Month	M.R.No. <span style="float: right;">date</span>			
S.N.	SOR	Items of work	Quantity	Rate	Unit	Amount
1.		Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.1	Group-A	08 Nos.	694.00	Each	
	1.8.2	Group-B	12 Nos.	759.00	Each	
	1.8.3	Group-C	20 Nos.	966.00	Each	
2.		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.1	2x1.5 Sq.mm + 1x1.5 Sq.mm earth wire.	25 M	146.00	Per M	
	1.14.2	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire.	100 M	167.00	Per M	
	1.14.3	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	110 M	200.00	Per M	
	1.14.8	4x4.0 Sq.mm + 2x4.0 Sq.mm earth wire.	30 M	308.00	Per M	
	1.14.9	4x6.0 Sq.mm + 2x6.0 Sq.mm earth wire.	65 M	394.00	Per M	
	1.14.10	4x10 Sq.mm + 2x6.0 Sq.mm earth wire.	40 M	543.00	Per M	
3.		Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	1.23.1	5/6 A Switch	10 Nos.	45.00	Each	
	1.23.4	3 pin 5/6 A Socket outlet	10 Nos.	58.00	Each	
	1.23.3	15/16 Amp. Switch	18 Nos.	110.00	Each	
	1.23.5	16/16 Amp. Socket	18 Nos.	128.00	Each	
4.	1.33	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	25 Nos.	65.00	Each	
5.	1.34	Supplying and fixing brass batten/angle holder including connection etc. as required.	15 Nos.	117.00	Each	
6.		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/ RRCB/Isolator)				
	2.3.1	6 way, Double door	06 No.	1661.00	Each	
	2.3.3	12 way, Double door	01 No.	2053.00	Each	
7.		Supplying and fixing of following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415V, 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)				
	2.5.1	4 way (4+12), Double door	01 No.	3068.00	Each	

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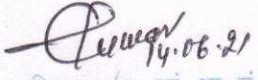
कार्यपालक अभियन्ता (मं एवं आं सं ०)  
Executive Engineer (B&I)  
रां प्रं के ० कुं वि ०, पूसा  
R.P.C.A.U. Pusa



8.		Supplying & fixing 5 A to 32 A rating, 240/415,10KA, "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	22 Nos.	199.00	Each
	2.10.2	Single Pole & Neutral	01 Nos.	544.00	Each
9.		Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
	2.10.5	Triple pole and neutral	02 Nos.	1092.00	Each
10.	N.S	Supplying and fixing following rating, 240 V, 'C' series, miniature ckt. Breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
		63 Amp. TPN MCB.	06 Nos.	2405.00	Each
11.	N.S	Providing and fixing of Ceiling fan (1400mm) including connection etc. as required. Bajaj/Havells/Crompton	05 Nos.	2575.00	Each
12.	N.S	Providing and fixing of Wall fan (400mm) including connection etc. as required. Bajaj/Havells/Crompton	04 Nos.	3450.00	Each
13.	N.S	Supplying, fitting and fixing of Step fan regulator in the existing board connection etc as required.	08 Nos.	310.00	Each
14.	N.S	S/F/F of 30 Watts LED Street light fitting with clamp including connections etc as req. (Havells,Bajaj,Usha,Orpet)	03 Nos.	3495.00	Each
15.	N.S	S/F/F of 26 Watts Square LED (2'x2") Panel light including connections etc as req. (Havells,Bajaj,Usha,Orpet)	07 Nos.	5987.00	Each
16.	N.S	Providing and fixing of LED Tube light 20 watt including connection etc. as required Bajaj/Syska/Philips	08 Nos.	506.00	Each
17.	N.S	Providing and fixing of 9 watt LED bulb including connection etc. as required. Syska/Philips	05 Nos.	225.00	Each
18.	N.S	Providing and fixing following capacity double pole/ TP&N sheet metal switch disconnecter fuse unit in existing metal board with rewirable type fuses, including drilling holes in metal board, making connections, etc. as required.			
		100 amps, TP&N	01 Nos.	8390.00	Each
19.	N.S	Supplying and laying of XLPE/PVC insulated pvc sheathed (Heavy Duty) armored electrical cable with aluminum conductor (make Havells)			
		50 sq.mm, 3.5 core	60 M	368.00	Per M
		16sq. mm,3.5 core	60 M	255.00	Per M
20.	N.S	Earthing with chemical earthing including accessories and providing masonry enclosure with cover plate having locking arrangement and earthing electrode of 2.7 meter long etc. with charcoal/coke and salt as required.	02 Nos.	11794.00	Per set
21.	5.13	Providing and Laying Earth connection from earth electrode with 4.00 mm copper wire 15 mm dia GI/PVC Pipe from earth electrode including earth connection with copper thimble excavation and re-filing as required	45 M	257.00	Per M
22.	N.S	S/F/F of LT PANEL 2 of suitable size MS Panel Box with the items listed below which is suitable for operation at 415+6%-6% volts, 50 Hz 3-phase, 4-wire+E system. The panel shall be fabricated out of 1.6 mm. CRCA sheet steel. Panel will be free standing, floor mounting type having provision for cable entry from bottom and suitable for indoor/ outdoor installation. The panel will be extensible type in design with dust and vermin			

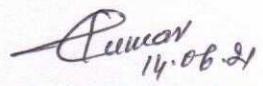
  
 14.06.20  
 कार्यपालक अभियन्ता (घाएवं आ०सं०)  
 Executive Engineer (B&I)

	<p>proofing. The switchgear frame shall be fabricated using mild steel structure sections of pressed and shaped cold rolled sheet of thickness not less than 2mm.</p> <p>Frame shall be enclosed by sheet steel of thickness not less than 2mm. Cold rolled smoothly finished levelled and free from flaws, doors and covers shall be cold rolled sheet. Cut – Outs shall be true in shape and devoid of sharp edges.</p> <p>Paint: - 70 micron Powder coating after 7 tank chemical treatment.</p> <p>Bus bars shall be uniform cross section throughout the length of the switchgears and will be housed in a separate compartment. The bus bars shall be of High Conductivity Electrical Alu Flats as per specification and shall be supported on SMC/DMC supports of suitable thickness. Bus bars will be installed with heat shrinkable sleeves and codified in Red, yellow, Blue and Black colors as per standard practice. Bus Bars shall be adequately supported to withstand the stresses arising during transient conditions.</p> <ol style="list-style-type: none"> <li>1) Electrical control panel front side operation as per IP42, fabricated out of 16 gauge M.S sheet</li> <li>2) 160Amp FP COS</li> <li>3) 160Amp FP MCCB</li> <li>4) Spreader</li> <li>5) Digital Amp meter</li> <li>6) ASS</li> <li>7) Digital Voltmeter</li> <li>8) VSS</li> <li>9) R,Y,B Led indication</li> <li>10) 160/5A, 15Va C.T. Coil</li> <li>11) 6Amp SP MCB</li> <li>12) 63Amp TPN MCB</li> <li>13) 160A FP Copper busbar</li> </ol>				
		I no	78342.00	Each	

  
 कार्यपालक अभियन्ता (मंएवं आंसं)  
 Executive Engineer (B&I)  
 रांप्रंकेंकुंविं, पूसा  
 R.P.C.A.U. Pusa

## BILL OF QUANTITY

Name of work :		Estimate for Internal Electrical Installation in Newly constructed building of Aryabhata Boy's hostel at DRPCAU, Pusa				
Estimated cost:		Rs.134730.00	Sold to M/S			
Earnest Money:		Rs. 2700.00	Address			
Cost of B.O.Q :		Rs. 500.00	Registration No.			
Time of Completion		One Month	M.R.No.	date		
S.N	SOR	Items of work	Quantity	Rate	Unit	Amount
1.		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	100 M	167.00	Per M	
	1.14.3	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	07 M	200.00	Per M	
	1.14.10	4x10 Sq.mm + 2x6.0 Sq.mm earth wire.	63 M	543.00	Per M	
2.		Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	1.23.3	15/16 Amp. Switch	06 Nos.	110.00	Each	
	1.23.5	6 pin 15/16 Amp. Socket outlet	06 Nos.	128.00	Each	
3.	1.33	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	30 Nos.	58.00	Each	
4.	1.34	Supplying and fixing brass batten/angle holder including connection etc. as required.	90 Nos.	117.00	Each	
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 (Bud without MCB/ RRCB/Isolator)				
	2.3.1	6 way, Double door	01 No.	1661.00	Each	
6.		Supplying & fixing 5 A to 32 A rating, 240/415,10KA, "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	02 Nos.	199.00	Each	
7.	N.S	Supplying, fitting and fixing of Step fan regulator in the existing board connection etc as required.	50 Nos.	310.00	Each	
8.	N.S	Supplying and fixing following rating, 240 V, 'C' series, miniature ckt. Breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
		63 Amp. TPN MCB.	01 Nos.	2405.00	Each	
9.	N.S	S/F/F of 15 watt LED Portico Light fitting including connection etc as reqd. (make Havells, Bajaj.Orpet,Usha)	26 Nos.	1875.00	Each	

  
 14.06.21  
 कार्यपालक अभियन्ता (भ०एवं आ०मं.)  
 Executive Engineer (B&I)  
 रा०प्र०के०कु०वि०, पूसा  
 R.P.C.A.U. Pusa

- a) Details of earnest Money deposited:-
- b) Registration No. :-  
(Certified copy to be enclosed)
- c) Income Tax & GST Clearance Certificates:-
- d) License Issued by the labour Deptt. :-
- e) Detailed of documents attached:-
- f) Name and address of the Contractor:-
- g) Signature of tenderers:-

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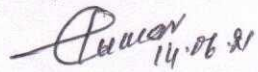
I/We as per the execute the work at :-

- I. Estimated/Analysis rates shown in the Bill of Quantities.
- II. (i) In word \_\_\_\_\_ Percent above the rates show in the bill of quantities.  
(ii) In figure \_\_\_\_\_ Percent above the rates shown in the bill of quantities.
- III. (a) In word \_\_\_\_\_ Percent below the rates shown in the bill of quantities.  
(b) In figure \_\_\_\_\_ Percent below the rates shown in the bill quantities.

I/we will completed the work within \_\_\_\_\_ calendar months from the date of work order.

I/we have read and fully understood the terms and condition of the state (P.W.D) contract from F2 and the N.I.T and special condition attached herewith.

Name & full signature of the Tenderer

  
 Executive Engineer (B&I)  
 Dr. RPCAU Pusa  
 रा.प्र.के.कुंवि., पूसा  
 R.P.C.A.U. Pusa

- i. No. of Cutting .....
- ii. No. of over writing .....
- iii. Rate quoted by agency.....

Executive Engineer (B&I)  
 Dr. RPCAU Pusa

**Dr. RAJENDRA PRASAD CENTRAL AGRICULTURAL  
UNIVERSITY PUSA BIHAR  
(SAMASTIPUR) 848125**

**SPECIAL CONDITION**

1. Tenders not complete as per requirements will be our right to rejected and their tender will not be considered.
2. The tenders are required to quote no item wise but overall on percentage basis I.e. above or below estimated rates/B.O.Q rates.
3. Rates quoted less more than 10% of schedule rate cost shall out right be rejected.
4. The undersigned reserves the right to divide the tender among more than one tenders and to reject may or all the tenders without assigning any reason there of.
5. Tenderers shall quote their rates both in figures and words and should initial all correction, over writings, incorporations, undefined form like estimated rates will not be considered.
6. The rates quoted by the contractors should be inclusive all taxes. Royalties and other incidental charges.
7. The contractor should quote in their tender:-
  - a) The plants and Machinery they possess execution of works.'
  - b) Experience they have with detail of works and its position.
  - c) Certificate, if any, about the capacity of doing works.
  - d) Technical staff, if they possess.
8. The contractors should satisfy them selves fully about the nature and site of works before offering their tenders and plent of any ignorance after works shall not be considered.
9. The tender without earnest money or insufficient earnest money or submitted late or earnest money without duly pledged as required will be out right rejected.
10. Contractors are required to furnish up to date clearance certificate in respect of I.T and S.T along with their tender, In absence of those documents within ten days from the days from the date of requisition in a registered letter with A/D failing which their tenders shall be outright rejected and their earnest money furnished with the tenders shall be forfeited.
11. Conditional tenders shall be outright rejected.
12. After approval of rated by the competent authority the contractor shall have to deposit the initial security money @ 5% of B.O.Q cost in shape of N.S.C dully pledged in favour of undersigned within 10 days of issue of the written orders from the engineer-in-charge and agreement, failing which his tender shall he reject and earnest money forfeited.
13. No claim for delay in work due to shortage of labour, non supply of materials, drawing & design and/ or any other reason shall not be entertained.
14. The contractors shall arrange necessary site for accommodation and after facilities like medical, aid etc. for his own cost and initiative as well as with labour rules prevalent in the salacity.
15. The contractor shall be responsible for safety of his labour or other staff and the damages shall be recovered at his own cost.
16. The CPWD specification ISS specification shall be followed during the progress of the work in case of difference of opinion in any of them the directions of the Engineer-in-charge have to be followed.

*Punjab*  
14.08.21

कार्यपालक अभियन्ता (भ० एवं आ० सं०)  
Executive Engineer (B&I)

17. No claim shall be entertained due to fluctuation in rates of labour and materials at any time till completion of the work.
18. Materials recoverable or non-recoverable direct issued to work shall be issued to the contractor in proper/R. If materials are obtained in excess of natural requirement the recovery of the cost of such materials will be made at double the issue rates stipulated in the agreement.
19. The contractor employing truck for carriage of materials of other work shall comply the rules of motor vehicle etc.
20. It will be obligatory on the part of the tender to keep the Tender open for a period as per C.P.W.D rule for acceptances.
21. The contractor shall not be entitled to claim or compensating for any loss suffered by him due to:-
  - a) Natural claim item.
  - b) Act or enemy.
  - c) Transport and procurement difficulties.
  - d) Circumstances beyond the control of the University.
22. Site order book with numbered pages and bearing the certificates of the need by the contractor at the site of work will have to be produce, if the engineer-in-charge or inspecting officer desire for instruction. Concerning the work to not entered. This shall be property of the university after completion of work.
23. No work beyond agreement shall be expected by the contractor unless specifically ordered by the engineer-in-charge in writing and the claim for such work shall be submitted regularly in every month. If the claim is no received in the month in which it relates it will be treated as barred any may be disallowed.
24. Income Tax @ 2.27% or as per govt. rule to be deducted from each payment at sources which will be adjusted by income tax department at the time of assessment in case of contract.
25. Sales Tax/GST shall be deducted from each bill as per rules.
26. Labour cess Tax @ 1% shall be deducted from each bill as per rules.
27. Contractors shall have to furnish payment certificate or mining taxes of materials consumed in the work otherwise deduction towards royalty and cess shall be made as per rules.
28. Deduction of five percent of the gross amount of the bill will be deducted from their running bills so as to make the total security deposit @ ten percent of the cost of work. No part of these security deposit shall be refunded until the work is fully completed and the final bill disposed or fifty percent of the amount of security deposit shall be released after three months of satisfactory performance during defect liability period of six months/ one rainy season from the date of completion of work.
29. Additional performance Guarantee have to deposit as per Govt. rule.
30. Payment will be made after work completion certificate obtained from requisitioner and also availability of fund.
31. Work will not be allotted to those Contractors who could not execute agreement of awarded work and those contractors who could not complete the awarded work with in agreement time. Such Agencies shall the debarred from panel of ARC for a period of three years and Earnest Money will be forfeited.

*Amey*  
14.06.21

कार्यकारी अभियंता (C) (सं.)  
Executive Engineer (C) (S.O.)  
Dr. RPCAU Pusa. (B&I)  
राष्ट्रीय कृषि विज्ञान विश्वविद्यालय, पुरा