

**CORRIGENDUM**

**Ref.: NIT No. NIBMG/Elec.-4th Floor/MB/2019-20/46, dt. 14.02.2020**

For the work of : Supply, Installation, Testing & Commissioning of Electrical System at 4th floor of the Main Building in the campus of NIBMG, Kalyani

In the form of Financial Bid (III SCHEDULE OF WORKS), the rate against line item 8 (i) shall be Rs. 608.56 and corresponding line amount will be Rs.1,33,882.10 Total amount for Part A is Rs. 28,62,334.10 in place of 27,28452.00. Net estimate amount (X-Y) is Rs. 27,55,537.27 in place of 26,21,655.17.

The corrected form of Financial Bid , III Schedule of Works is as below:

**Financial Bid**

**III SCHEDULE OF WORKS**

**Work of: Supply, Installation, Testing & Commissioning Of Electrical System at 4th Floor In The Main Building at NIBMG, Kalyani**

BOQ Item	Description of Item	Unit	Qty.	RATE (Rs.) excluding GST	Amount (Rs.) excluding GST	REMARKS
						Ref: CPWD DSR'18 / PWD SCH / Etc.
<b>Part A. Estimate of the work including partially completed items, i.e., Part B</b>						
<b>SECTION I</b>						
1	Supplying and fixing of 500/415V, 32A, 4 Pole MCB minimum 10 KA short circuit rating (D-Curve) with sheet steel enclosure (16 SWG) on 32 x 6 mm flat iron frame on wall including supply and fixing of flat iron GI nuts, bolts, washers etc and all other accessories, cutting chases and mending good the damages, earthing as required including loop earth connection with existing earth and painting.	Nos	2	1,512.00	3,024.00	PWD-2017, D-6/7 + D-9/11
2	Supplying and fixing of Main Lighting DB (TPN Vertical Prewired Type)					
i)	Supplying, installation, testing and commissioning of recess mounting, vertical type, 415 volts, prewired, TPN MCB distribution board of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 Amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs, detachable gland/knock out plate and with built in loose wire box and superior make terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor up to the terminal connector/neutral link and ready for installation of following ways (but without MCB's and incomer), as required.					
a)	4 way Double Door.	Nos	12	4,954.81	59,457.76	2.5.1
ii)	Supply and fixing of 63 Amps, 4 pole, MCB (Icu = 10 KA) (as incoming).	Nos	12	1,830.00	21,960.00	PWD-2017, D-6/7 + D-9/11
iii)	Supplying and fixing of 5 Amps to 32 Amps rating, single pole, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc, as required.					
a)	32A, Single Pole, MCB (Icu = 10 KA) (as outgoing). [Each DB having 7 Nos of MCB].	Nos	84	174.44	14,652.62	2.10.1
b)	25 Amps, single pole, MCB (Icu = 10 KA) (as outgoing). [Each DB having 5 Nos of MCB].	Nos	60	174.44	10,466.16	2.10.1
3	Supply and fixing of Vertical Type Main Prewired TP MCB DB					

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						Ref: CPWD DSR'18 / PWD SCH / Etc.
i)	Supplying, installation, testing and commissioning of recess mounting, vertical type, 415 volts, prewired, TPN MCB distribution board of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 Amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs, detachable gland/knock out plate and with built in loose wire box and superior make terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor up to the terminal connector/neutral link and ready for installation of following ways (but without MCB's and incomer), as required.					
a)	4 way Double Door.	Nos	22	4,954.81	109,005.89	2.5.1
ii)	63A, 4 Pole, MCB (Icu = 10 KA) (1 No. of MCB as incoming).	Nos	22	1,830.00	40,260.00	PWD-2017, D-6/7 + D-9/11
iii)	Supplying and fixing of 5 Amps to 32 Amps rating, single pole, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc, as required.					
a)	16 - 32A single pole MCB (Icu = 10 KA) (each DB having 6 Nos of MCB) (as outgoing).	Nos	132	174.44	23,025.55	2.10.1
b)	6 - 16A single pole MCB (Icu = 10 KA) (each DB having 6 Nos of MCB) (as outgoing).	Nos	132	174.44	23,025.55	2.10.1
4	<b>Supply and fixing of SP MCB DB for Lighting</b>					
i)	Supplying and fixing of following way, single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc, as required. (But without MCB/RCCB/Isolator). [Each Wing having 3 Nos of SPN DB, per floor, 6 Nos and in Fourth Floor 1 No. DB].					
a)	2 + 12 way, Double Door	Nos	16	2,150.85	34,413.58	2.3.4
ii)	Supplying and fixing of 5 Amps to 32 Amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the above MCB DB complete with connections, testing and commissioning etc, as required.					
a)	32 Amps single pole and neutral Icu = 10 KA [In each DB 1 No. MCB as incomer].	Nos	16	476.93	7,630.91	2.10.2
b)	6A single pole MCB Icu = 10 KA (In each DB 10 Nos of MCB as outgoing).	Nos	160	174.44	27,909.76	2.10.1
5	<b>Supply and fixing of SP MCB DB for UPS Power</b>					
i)	Supplying and fixing of following way, single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper conductor					
a)	2 + 12 way, Double Door	Nos	6	2,150.85	12,905.09	2.3.4
ii)	Supplying and fixing of 5 Amps to 32 Amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the above MCB DB complete with connections, testing and commissioning etc, as required.					
a)	32 Amps single pole and neutral [In each DB 1 No. MCB as incomer].	Nos	6	476.93	2,861.59	2.10.2

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BOQ Item	Description of Item	Unit	Qty.	RATE (Rs.) excluding GST	Amount (Rs.) excluding GST	REMARKS
						Ref: CPWD DSR'18 / PWD SCH / Etc.
b)	6 - 16A single pole MCB (In each DB 10 Nos of MCB as outgoing).	Nos	72	174.44	12,559.39	2.10.1
c)	Supply and fixing of SP Blanking plate in the MCB DB complete etc as required.	Nos	48	6.99	335.42	2.11
6	<b>Earthing and Accessories</b>					
i)	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Mtrs	220	180.57	39,725.16	5.15
ii)	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Mtrs	400	49.97	19,988.48	5.16
7	<b>Cable and Accessories</b>					
i)	Supply of 1.1 KV grade XLPE aluminium cable of following rating.					
a)	4C x 25 sq mm multistrand XLPE (Al) armoured cable. [Each wing having 300 mtrs].	Mtrs	600	187.05	112,232.14	Market Rate
b)	4C x 16 sq mm multistrand XLPE (Al) armoured cable. [Each Wing having 400 mtrs].	Mtrs	800	137.05	109,642.86	Market Rate
c)	4C x 10 sq mm multistrand XLPE (Al) armoured cable. [Each Wing having 400 mtrs].	Mtrs	800	120.54	96,428.57	Market Rate
d)	2C x 6 sq mm multistrand XLPE (Al) armoured cable. [Each Wing having 200 mtrs].	Mtrs	400	77.68	31,071.43	Market Rate
ii)	Laying of cable on wall/surface including supply and fixing of MS saddles with earthing attachment in 10 SWG GI (Hot Dip) wire, making holes etc as necessary mending good damages and painting.					
a)	upto 4C x 25 sq mm armoured cable.	Mtrs	2,600	34.21	88,954.72	7.7.1
iii)	Supplying and making end termination with brass compression gland and aluminium lugs for following sizes of XLPE/PVC, Multistrand Al. conductor cable of 1.1 KV grade, as required.					
a)	4 core 25 sq mm cable	Sets	16	219.26	3,508.17	9.1.34
b)	4 x 16 sq mm cable	Sets	28	219.26	6,139.29	9.1.33
c)	4 x 10 sq mm cable	Sets	18	192.01	3,456.17	9.1.32
d)	2 x 6 sq mm cable	Sets	22	173.62	3,819.64	9.1.1
8	Specification of Point Wiring Recessed in Wall-Distribution wiring in 1100 volt grade 2 x 1.5 sq mm (22/3) single core multistrand FRLS PVC insulated and unsheathed copper wire (approved make) in PVC conduit with all its accessories recessed in wall or partly in pre-layed Polythene pipes into the roof (for ceiling points) with 1 x 1.5 sq mm (22/3) single core multistrand FRLS PVC insulated and unsheathed copper wire to light/ceiling fan/exhaust fan/call bell points with piano type modular switch, 5/6A modular socket on board or separate board modular, call bell push, modular plate fixed on suitable size of GI box of 3 mm thick and 80 mm width as switch board cum joint box flashed in wall complete with 3 Nos suitable size phase, neutral and earth cu bar with number of holes as required fixed on bakelite/hard rubber insulation of 1100V grade into the joint box welded <b>charis</b> and also arrangement for earth bus solidly jointed with board having number of standard holes for incoming/outgoing entry of Polythene/PVC rigid conduit including good the damages to original finish.					
i)	Single point controlled by one switch	Pts	220	608.56	133,882.10	1.8.1
ii)	Two point controlled by one switch	Pts	80	665.47	53,237.64	1.8.2
iii)	Three point controlled by one switch	Pts	60	872.47	52,348.23	1.8.3
iv)	Four point controlled by one switch	Pts	30	1,026.79	30,803.57	Market Rate
9	<b>Power Plug Point Wiring</b>					

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BOQ Item	Description of Item	Unit	Qty.	RATE (Rs.) excluding GST	Amount (Rs.) excluding GST	REMARKS
						Ref: CPWD DSR'18 / PWD SCH / Etc.
i)	Supplying and drawing of 1.1 KV single core stranded FRLS PVC insulated and unsheathed single core stranded copper wire (approved make) of the following size in the prelaidd polythene pipe and by the prelaidd GI fish wire and making necessary connection, as required.					
a)	3 x 36/0.3 (2.5 sq mm)	R.M	380	65.75	24,985.03	1.17.12
ii)	Distribution wiring in 1.1 KV single core stranded FRLS PVC insulated and unsheathed copper wire (approved make) in PVC rigid conduit FRLS including necessary fittings, as required.					
a)	2 x 36/0.3 (2.5 sq mm) + 1 x 36/0.3 (2.5 sq mm) as ECC.	R.M	350	146.47	51,264.81	1.14.2
10	Wiring for 6A, plug point and computer point with FRLS PVC insulated copper conductor single core 2 x 1.5 sq mm plus 1 x 1.5 sq mm earth wire recessed in PVC conduit.	Mtrs	800	128.07	102,453.70	1.14.1
11	Supply and fixing of Power Plug Point Modular Type Accessories Supplying and fixing suitable size GI box with modular plate and cover in front in recess, including providing and fixing 6 pin 15/16 Amps and 5/6 Amps modular socket outlet and 15/16 Amps modular switch, connection, painting etc, as required.	Nos	180	434.02	78,122.79	1.32
12	Supplying and fixing of light plug point modular type accessories Supplying and fixing of suitable size GI box with modular plate and cover in front on surface or recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 Amp modular switch, connection, painting etc, as required.	Nos	60	351.60	21,095.76	1.31
13	Circuit/Submain Wiring in PVC/Polythene Conduit					
i)	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in recessed PVC/Polythene conduit, as required.					
a)	2 x 4 sq mm + 1 x 4 sq mm earth wire	Mtrs	1,850	175.32	324,337.04	1.14.3
14	Supply and fixing of PVC Conduit					
i)	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in recess including cutting the wall and making good the same in case of recessed conduit, as required.					
a)	20 mm (Telephone and T V)	Mtrs	600	73.71	44,226.71	1.21.1
b)	25 mm (Light and Power).	Mtrs	800	78.86	63,091.09	1.21.2
c)	32 mm (Circuit and Submain)	Mtrs	150	80.65	12,097.18	1.21.3
15	Supply and fixing of Metal Boxes					
i)	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc, as required.					
a)	100 mm x 100 mm x 60 mm deep	Nos	140	140.23	19,632.41	1.22.2
b)	150 mm x 150 mm x 60 mm deep	Nos	65	203.40	13,220.97	1.22.4
ii)	Supplying and fixing metal box of following sizes (nominal size) on floor with suitable size of phenolic laminated sheet cover in front including painting etc, as required.					
a)	(125 X 125 X 35) mm JB	Nos	10	203.40	2,034.00	1.22.4
b)	Supply & fixing of (100 X 100 X 35) mm JB	Nos	10	140.23	1,402.32	1.22.2
16	Supply and fixing of Modular Type Blanking Plate					
i)	Supplying and fixing of modular blanking plate on the existing modular plate and switch box excluding modular plate, as required.	Nos	45	28.06	1,262.50	1.26
17	Supply and fixing of Ceiling Rose					

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BOQ Item	Description of Item	Unit	Qty.	RATE (Rs.) excluding GST	Amount (Rs.) excluding GST	REMARKS
						Ref: CPWD DSR'18 / PWD SCH / Etc.
i)	Supplying and fixing of 3 pin, 5 Amp ceiling rose on the existing junction box/wooden block including connection etc, as required.	Nos	40	56.94	2,277.54	1.33
18	<b>Cable Tray</b>					
i)	Supplying and installing following sizes of perforated pre-painted MS cable trays with perforation not more than 17.5% in convenient sections, joints with connectors, suspended from the ceiling with MS suspenders including bolts and nuts, painting along with all accessories such as bends, reducers, tees, cross-members, as required.					
a)	150 mm width x 50 mm depth x 1.6 mm thickness.	R M	140	465.61	65,185.06	4.1.2
b)	300 mm width x 50 mm depth x 1.6 mm thickness.	RM	220	544.48	119,786.14	4.1.4
	<b>SECTION-II</b>					
	<b>TELEPHONE WIRING</b>					
19	Supply and installation of ITD approval FRP type 10 pair CT Box with terminals complete.	Nos	8	580.36	4,642.86	Market Rate
20	Supplying and drawing following pair, 0.5 sq mm FRLS PVC insulated copper conductor, unarmoured telephone cable in the existing recessed steel/PVC conduit, as required.					
i)	10 pair telephone cable.	Mtrs	240	80.36	19,285.71	Market Rate
ii)	2 pair telephone cable.	Mtrs	850	26.79	22,767.86	Market Rate
iii)	1 pair telephone cable.	Mtrs	400	16.07	6,428.57	Market Rate
21	Supplying and fixing of modular switch/socket on the existing modular plate and switch box including connections but excluding modular plate etc, as required.					
i)	15/16 A switch	Nos	30	115.77	3,473.21	1.24.3
ii)	6 pin 15/16 A socket outlet	Nos	30	153.47	4,604.16	1.24.5
22	Supply and fixing of Modular Boxes, Base and Cover Plate - Supplying and fixing of following size/modules, GI Box along with modular base and cover plate for modular switches in recess etc, as required.					
i)	1 or 2 Module (75 mm x 75 mm).	Sets	30	99.96	2,998.76	1.28.1
23	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.					1.7
i)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtrs	650	182.37	118,538.37	1.7.1
ii)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtrs	1,850	200.77	371,425.41	1.7.2
iii)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtrs	750	230.62	172,962.69	1.7.3
	<b>Estimated value of Part A = X</b>				<b>2,862,334.10</b>	

**Part B. Estimate of partially completed items for adjustment from Part A**

BOQ Item	Description of Item	Unit	Qty.	RATE (Rs.) excluding GST	Amount (Rs.) excluding GST	REMARKS
						Ref: CPWD DSR'18 / PWD SCH / Etc.
3	Supplying and fixing following size/ modules, GI box in recess etc. as required. (excluding modular base and cover plate)					
a	1 or 2 Module (75mmX75mm)	Each	20	113.12	2,262.37	1.27.1 less 1.28.1
b	3 Module (100mmX75mm)	Each	33	121.81	4,019.65	1.27.2 less 1.28.2
c	4 Module (125mmX75mm)	Each	10	130.68	1,306.81	1.27.3 less 1.28.3
d	6 Module (200mmX75mm)	Each	139	145.55	20,231.87	1.27.4 less 1.28.4
e	8 Module (125mmX125mm)	Each	18	164.00	2,952.00	1.27.5 less 1.28.5

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BOQ Item	Description of Item	Unit	Qty.	RATE (Rs.) excluding GST	Amount (Rs.) excluding GST	REMARKS
						Ref: CPWD DSR'18 / PWD SCH / Etc.
4	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)					
b	2+12 way , Double door		5	1,800.13	9,000.63	2.3.3
6	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					2.5
a	4 way (4 + 12), Double door		5	4,954.81	24,774.07	2.5.1
b	8 way (4 + 24), Double door		1	6,789.97	6,789.97	2.5.2
7	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.					
a	Single pole	Each	86	174.44	15,001.50	2.10.1
	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	63 Amp.	Each	2	735.68	1,471.37	2.13.2
i)	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess including painting etc, as required.					
a)	100 mm x 100 mm x 60 mm deep	Nos	107	120.54	12,897.32	Market Rate
b)	150 mm x 150 mm x 60 mm deep	Nos	44	138.39	6,089.29	Market Rate
<b>Estimated value of Part B = Y</b>					<b>106,796.83</b>	
<b>Net Estimated Value= X-Y</b>					<b>2,755,537.27</b>	
<b>QUOTED PERCENTAGE RATE = R % (**)</b>		..... % (.....Percentage in words) Above/Below (*)				
<b>QUOTED AMOUNT (**)</b> = (X-Y)(1+ R/100), if "R" is Above or = (X-Y)(1- R/100, if "R" is Below		<b>Rs.</b>				
		<b>Rupees</b>				
<b>** To be filled in by the Bidder ; * Put tick mark &amp; Strikeout as applicable</b>						
<p>.....</p> <p><b>(Signature of Proprietor/Partner/Chief Executive)</b></p> <p><b>Name.....</b></p> <p><b>(In Capital Letters)</b></p> <p><b>(Seal of Bidder)</b></p> <p><b>Date: .....</b></p> <p><b>Place: .....</b></p>						