

1.

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Locks</u></b>					
8	Padlocks as specified	No	1			
	<b><u>Engineer to confirm items below during prelim design stage as per Annexure B of his Letter of Appointment</u></b>					
9	Connection fee		Item			
10	Bulk contribution (if applicable)		Item			
11	Boundary contribution costs (if applicable)		Item			
12	Deposit payable to Supply Authority		Item			
13	Attendance, profit and incidental costs for contractor in terms of the above items 9 to 12	No				
	<b><u>New Admin Block DB</u></b>					
	<b><u>Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
14	Material and labour excluding the items listed hereunder	No	1			
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
15	10 Ampere S.P. 6 kA	No	7			
16	20 Ampere S.P. 6 kA	No	9			
17	10 Ampere T.P. 6 kA	No				
18	60 Ampere T.P. 6 kA	No	4			
19	50 Ampere S.P. 6 kA	No				
20	80 Ampere T.P. 6 kA	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Earth Leakage Units</u></b>					
21	60 Ampere single phase 6 kA 30 mA	No	3			
	<b><u>Moulded Case Isolators</u></b>					
22	60 Ampere T.P. 6 kA	No				
23	200 Ampere T.P. 6 kA	No	1			
	<b><u>Lightning Arrestors</u></b>					
24	Domestic S.P. 10 kA	No	1			
	<b><u>Contactors</u></b>					
25	16A 3-Pole	No	1			
	<b><u>Labels</u></b>					
26	Danger sign and labels as specified (each DB's)	No	11			
	<b><u>New Sience, Media &amp; HOD DB</u></b>					
	<b><u>Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
27	Material and labour excluding the items listed hereunder	No	1			
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
28	10 Ampere S.P. 6 kA	No	3			
29	20 Ampere S.P. 6 kA	No	7			
30	10 Ampere T.P. 5kA	No				
31	60 Ampere T.P. 6 kA	No				
32	50 Ampere S.P. 6 kA	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount	
33	80 Ampere T.P. 6 kA	No				
	<b><u>Earth Leakage Units</u></b>					
34	60 Ampere single phase 6 kA 30 mA	No	1			
	<b><u>Moulded Case Isolators</u></b>					
35	60 Ampere T.P. 6 kA	No				
36	200 Ampere T.P. 6 kA	No	1			
	<b><u>Lightning Arrestors</u></b>					
37	Domestic S.P. 10 kA	No				
	<b><u>Contactors</u></b>					
38	13A 3-Pole	No	1			
	<b><u>Labels</u></b>					
39	Danger sign and labels as specified (each DB's)	No	11			
	<b><u>New Grade R Classroom (4 x Classrooms) DB</u></b>					
	<b><u>Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
40	Material and labour excluding the items listed hereunder	No	1			
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
41	10 Ampere S.P. 6 kA	No	5			
42	20 Ampere S.P. 6 kA	No	3			
43	50 Ampere T.P. 6 kA	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Earth Leakage Units</u></b>					
44	60 Ampere Single Phase 6 kA 30mA	No	1			
	<b><u>Moulded Case Isolators</u></b>					
45	60 Ampere T.P. 6 kA	No	1			
	<b><u>Contactors</u></b>					
46	32 Ampere T.P.	No				
	<b><u>Lightning Arrestors</u></b>					
47	Domestic S.P. 10 kA	No	1			
	<b><u>Contactors</u></b>					
48	13A 3-Pole	No	1			
	<b><u>Labels</u></b>					
49	Danger sign and labels as specified (each DB's)	No	11			
	<b><u>New Block 4 (5 x Classrooms) DB</u></b>					
	<b><u>Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
50	Material and labour excluding the items listed hereunder	No	1			
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
51	10 Ampere S.P. 6 kA	No	3			
52	20 Ampere S.P. 6 kA	No	2			
	<b><u>Earth Leakage Units</u></b>					
53	60 Ampere Single Phase 6 kA 30mA	No	1			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>Moulded Case Isolators</u></b>				
54	60 Ampere S.P. 6 kA	No	1		
	<b><u>Lightning Arrestors</u></b>				
55	Domestic S.P. 10 kA	No	1		
	<b><u>Contactors</u></b>				
56	13A 3-Pole	No	1		
	<b><u>New Block 5 (4 x Classrooms + HOD) DB</u></b>				
	<b><u>Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>				
57	Material and labour excluding the items listed hereunder	No	1		
	<b><u>Equipment provided in Distribution Board</u></b>				
	<b><u>Moulded Case Circuit Breakers</u></b>				
58	10 Ampere S.P. 6 kA	No	2		
59	20 Ampere S.P. 6 kA	No	3		
	<b><u>Earth Leakage Units</u></b>				
60	60 Ampere Single Phase 6 kA 30mA	No	1		
	<b><u>Moulded Case Isolators</u></b>				
61	60 Ampere S.P. 6 kA	No	1		
	<b><u>Lightning Arrestors</u></b>				
62	Domestic S.P. 10 kA	No	1		
	<b><u>Contactors</u></b>				
63	13A 3-Pole	No	1		
	<b>Carried to Collection</b>			R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation				

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Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Existing Block 1 (5 x Classroom) DB</u></b>					
	<b><u>Refurbish the existing Distribution board board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
72	Material and labour excluding the items listed hereunder	No				
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
73	10 Ampere S.P. 6 kA	No				
74	20 Ampere S.P. 6 kA	No				
75	Earth Leakage Units	No	1			
76	60 Ampere single phase 6 kA 30 mA	No				
	<b><u>Moulded Case Isolators</u></b>					
77	60 Ampere S.P. 6 kA	No				
	<b><u>Lightning Arrestors</u></b>					
78	Domestic S.P. 10 kA	No	1			
	<b><u>Contactors</u></b>					
79	13A 3-Pole	No	1			
	<b><u>Existing Block 2 (5 x Classroom) DB</u></b>					
	<b><u>Refurbish the existing Distribution board board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
80	Material and labour excluding the items listed hereunder	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					



Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
81	10 Ampere S.P. 6 kA	No				
82	20 Ampere S.P. 6 kA	No				
83	Earth Leakage Units	No	1			
84	60 Ampere single phase 6 kA 30 mA	No				
	<b><u>Moulded Case Isolators</u></b>					
85	60 Ampere T.P. 6 kA	No				
	<b><u>Lightning Arrestors</u></b>					
86	Domestic S.P. 10 kA	No	1			
	<b><u>Contactors</u></b>					
87	13A 3-Pole	No	1			
	<b><u>Existing Block 3 (5 x Classroom) DB</u></b>					
	<b><u>Refurbish the existing Distribution board board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail.</u></b>					
88	Material and labour excluding the items listed hereunder	No				
	<b><u>Equipment provided in Distribution Board</u></b>					
	<b><u>Moulded Case Circuit Breakers</u></b>					
89	10 Ampere S.P. 6 kA	No				
90	20 Ampere S.P. 6 kA	No				
91	Earth Leakage Unit	No	1			
92	60 Ampere Single Phase 6 kA 30mA	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Moulded Case Isolators</u></b>					
93	60 Ampere D.P. 2,5kA	No				
94	60 Ampere D.P. 2,5kA	No				
	<b><u>Lightning Arrestors</u></b>					
95	Domestic S.P. 10 kA	No	1			
	<b><u>Contactors</u></b>					
96	13A 3-Pole	No	1			
	<b><u>AREA LIGHTS</u></b>					
	<b><u>Installed and mounted on poles, including poles, excavation to install poles, lamps, 5A circuit breaker and 2 x 2.5mm<sup>2</sup> PVC conductors from circuit breaker to luminaire on top of pole.</u></b>					
	<b><u>Type S</u></b>					
	<b><u>100W HPS lamp streetlight fitting on 3.6m</u></b>					
97	(3.0m m/h) pole.	No	18			
	<b><u>Low Voltage Cables</u></b>					
	<b><u>600/1000V grade PVC/PVC/SWA/PVC stranded copper conductor cable (terminations and earth conductors elsewhere measured)</u></b>					
	<b><u>Cable laid in trenching (excavations elsewhere</u></b>					
98	measured) 2,5mm <sup>2</sup> x 3-core	m	300			
99	4mm <sup>2</sup> x 4-core	m	800			
100	6mm <sup>2</sup> x 4-core	m				
101	6mm <sup>2</sup> x 3-core	m				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount	
102	10mm <sup>2</sup> x 3-core	m	200			
103	10mm <sup>2</sup> x 4-core	m				
104	16mm <sup>2</sup> x 3-core	m	200			
105	16mm <sup>2</sup> x 4-core	m	100			
106	25mm <sup>2</sup> x 4-core	m				
107	35mm <sup>2</sup> x 4-core	m				
108	70mm <sup>2</sup> x 4-core	m	150			
	<b><u>Cable Terminations complete including glands, shrouds, lugs, connections and commissioning</u></b>					
109	2,5mm <sup>2</sup> x 3-core	No	2			
110	4mm <sup>2</sup> x 4-core	No	40			
111	6mm <sup>2</sup> x 4-core	No				
112	6mm <sup>2</sup> x 3-core	No				
113	10mm <sup>2</sup> x 3-core	No	6			
114	10mm <sup>2</sup> x 4-core	No				
115	16mm <sup>2</sup> x 3-core	No	4			
116	16mm <sup>2</sup> x 4-core	No	2			
117	25mm <sup>2</sup> x 4-core	No				
118	35mm <sup>2</sup> x 4-core	No				
119	70mm <sup>2</sup> x 4-core	No	2			
	<b><u>Bare Stranded Copper Earth Wire strapped to Cables (terminations elsewhere measured)</u></b>					
120	2.5mm <sup>2</sup> (Insulated)	m	800			
	<b>Carried to Collection</b>			R		
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount	
121	4mm <sup>2</sup> BCEW	m				
122	6mm <sup>2</sup> BCEW	m				
123	10mm <sup>2</sup> BCEW	m	100			
124	16mm <sup>2</sup> BCEW	m				
125	25mm <sup>2</sup> BCEW	m				
126	35mm <sup>2</sup> BCEW	m	150			
	<b><u>Bare Stranded Copper Earth Wire</u></b>					
	<b><u>Terminations complete including drilling, bolting, lugs, connections and commissioning</u></b>					
127	2.5mm <sup>2</sup> (Insulated)	No	44			
128	4mm <sup>2</sup> BCEW	No				
129	6mm <sup>2</sup> x BCEW	No				
130	10mm <sup>2</sup> BCEW	No	2			
131	16mm <sup>2</sup> BCEW	No				
132	25mm <sup>2</sup> BCEW	No				
133	35mm <sup>2</sup> BCEW	No	2			
	<b><u>EXCAVATIONS</u></b>					
	<b><u>All excavations, back filling and compaction</u></b>					
	<b><u>Excavate for cable and sleeve trench including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineer's specification</u></b>					
134	Pickable Soil	m3	210			
135	For Soft Rock	m3	24			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

Item No	Description	Unit	Quantity	Rate	Amount
136	For Hard Rock  <u>Bedding under and filling around cables</u>	m3	24		
137	comprising sifted sand  <u>CABLE MARKERS</u>	m3	90		
138	PVC warning marking tape	m	1 000		
139	Concrete route markers  <u>MANHOLES</u>	No	12		
140	600 x 600 x 800 mm  <u>SLEEVES</u>	No	6		
141	110mm dia	m	220		
142	50mm dia	m	350		
143	75mm dia	m			
144	32mm dia  <u>DRAW WIRE</u>	m	290		
145	Galvanised 1,6mm dia. draw wire  <u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u>	m	2 000		
146	Draw box with tamper proof cover	No			
	<b>Carried to Collection</b>			R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation				

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>BELLS AND SMALL POWER</u></b>					
	<b><u>Conduit and accessories as specified in Part 2</u></b>					
	<b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b>					
147	20mm	m	350			
148	32mm	m	750			
	<b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b>					
149	60mm deep	No	5			
	<b><u>Wall boxes as specified in part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b>					
150	100 x 100 x 50mm	No	5			
151	300 x 300 x 75mm including door as specified	No	4			
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs</u></b>					
152	100 x 100mm	No	5			
	<b><u>CONDUCTORS</u></b>					
	<b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>					
153	2,5mm <sup>2</sup>	m	1 100			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 1 Electrical Installation					

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<div>Section No. 17</div> <div>Bill No. 1</div> <div>Electrical Installation</div> <div>COLLECTION</div> <div>Total Brought Forward from Page No.</div>					
<div>Carried Forward to Summary of Section No. 17</div> <div>Section No. 17</div> <div>Electrical Installation</div> <div>Bill No. 1</div> <div>Electrical Installation</div>					



Item No	Description	Unit	Quantity	Rate	Amount																																				
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>ADMIN BLOCK: COMPLETE INSTALLATION: INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p>Tenderers are advised to study the specification before pricing the bill</p> <p>(Complete installation : Internal Electrical Installation)</p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><b><u>Conduit and accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b></p> <table><tr><td>1</td><td>20mm</td><td>m</td><td>900</td><td></td><td></td></tr><tr><td>2</td><td>25mm</td><td>m</td><td>400</td><td></td><td></td></tr><tr><td>3</td><td>Two Compartment steel power skirting or equal powder coated c/w covers</td><td>m</td><td>70</td><td></td><td></td></tr><tr><td></td><td><b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>60mm deep</td><td>No</td><td>32</td><td></td><td></td></tr><tr><td></td><td><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></td><td></td><td></td><td></td><td></td></tr></table> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 17 Electrical Installation Bill No. 2 Admin Block Complete Installation : Internal Electrical Inst</p>	1	20mm	m	900			2	25mm	m	400			3	Two Compartment steel power skirting or equal powder coated c/w covers	m	70				<b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b>					4	60mm deep	No	32				<b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b>								
1	20mm	m	900																																						
2	25mm	m	400																																						
3	Two Compartment steel power skirting or equal powder coated c/w covers	m	70																																						
	<b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b>																																								
4	60mm deep	No	32																																						
	<b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b>																																								

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>					
5	100 x 50mm	No	16			
6	100 x 100mm	No	33			
7	Isolator	No	3			
	<b><u>Blank Covers</u></b>					
8	100mm dia	No	4			
	<b><u>Conductors</u></b>					
	<b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>					
9	2,5mm <sup>2</sup>	m	1 200			
10	4,0mm <sup>2</sup>	m	1 400			
11	6,0mm <sup>2</sup>	m	300			
	<b><u>Bare stranded copper earth conductors drawn into conduits</u></b>					
12	2,5mm <sup>2</sup>	m	1 300			
13	4,0mm <sup>2</sup>	m	150			
	<b><u>Appliances</u></b>					
	<b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>					
	<b><u>Socket Outlets</u></b>					
	<b><u>16 Ampere round 3-pin 250V grade</u></b>					
14	Switched socket outlet	No	33			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 2 Admin Block Complete Installation : Internal Electrical Inst					

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Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>SECTION NO. 17</u></b>  <b><u>BILL NO. 3</u></b>  <b><u>ADMIN BLOCK: LUMINAIRES AND WIREWAYS FOR TELEPHONE AND INTERCOM SYSTEM</u></b>  <u>(Complete installation : wireways for telephone and intercom system)</u>  <b><u>WIREWAYS AND LUMINAIRES</u></b>  <u>Conduit &amp; accessories as specified in Part 2</u>  <u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u>					
1	20mm	m	65			
2	25mm	m	300			
	<u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u>  <u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u>					
3	100 x 100mm	No	5			
4	300 x 300 x 75mm including door as specified	No	1			
	<b><u>Blank Covers</u></b>					
5	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 3 Admin Block: Luminaires And Wireways For Telephone A					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	270			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>SLEEVES</u></b>					
8	100mm dia	m				
9	50mm dia	m	30			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
10	2 - lamp 58W fluorescent luminaire see Part 2	No	22			
	<b><u>Type B</u></b>					
11	1 - lamp 58W fluorescent luminaire see Part 2	No	2			
	<b><u>Type C</u></b>					
12	Bulkhead luminaire with polycarbonate lens Part 2	No	25			
	<b><u>Type L</u></b>					
13	2 – Lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type M</u></b>					
14	As C with red lens	No	1			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 3 Admin Block: Luminaires And Wireways For Telephone A					

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>TELEPHONE DISTRIBUTION BOARD</u></b>				
15	Flush mounted telephone distribution board size 450 x 450 x 180mm flush mounted complete with doors, frames, sub-frames, fixtures and 20mm thick soft board	No			
	<b><u>TESTING AND COMMISSIONING</u></b>				
16	Test and commission of the complete electrical installation		Item		
	<b>Carried to Collection</b>			R	
	Section No. 17 Electrical Installation Bill No. 3 Admin Block: Luminaires And Wireways For Telephone A				

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Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>GRADE R INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><b><u>NOTE:</u></b></p> <p>Tenderers are advised to study the specification before pricing the bill</p> <p><b><u>(Complete installation : Internal Electrical Installation)</u></b></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><b><u>Conduit and accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b></p>					
1	<p>20mm</p> <p><b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b></p>	m	500			
2	<p>60mm deep</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	No	15			
3	<p>100 x 50mm</p>	No	20			
	<p><b>Carried to Collection</b></p>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 4</p> <p>Grade R Internal Electrical Installation</p>					

Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <b><u>Blank Covers</u></b>	No	5			
5	100mm dia	No				
6	100 x 100mm  <b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>	No				
7	300 x 300mm  <b><u>CONDUCTORS</u></b>  <b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>	No	1			
8	2,5mm <sup>2</sup>	m	1 200			
9	4,0mm <sup>2</sup>	m	800			
10	6,0mm <sup>2</sup>  <b><u>Bare stranded copper earth conductors drawn into conduits</u></b>	m				
11	2,5mm <sup>2</sup>	m	1 000			
12	4,0mm <sup>2</sup>  <b><u>APPLIANCES</u></b>  <b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>  <b><u>Socket Outlets</u></b>  <b><u>16 Ampere round 3-pin 250V grade</u></b>	m				
13	Switched socket outlet	No	5			
Carried to Collection					R	
Section No. 17 Electrical Installation Bill No. 4 Grade R Internal Electrical Installation						

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Light Switches</u></b>					
14	16 Ampere 250V grade single lever one way	No	4			
15	16 Ampere 250V grade single lever two way	No	8			
16	16 Ampere 250V grade two lever 1 way	No	8			
	<b><u>SLEEVES</u></b>					
17	50mm dia	m				
<b>Carried to Collection</b>					R	
Section No. 17 Electrical Installation Bill No. 4 Grade R Internal Electrical Installation						

28.

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>SECTION NO. 17</u></b>  <b><u>BILL NO. 5</u></b>  <b><u>New Grade R LUMINAIRES AND WIREWAYS FOR TELEPHONE AND INTERCOM SYSTEM</u></b>  <b><u>(Complete installation : wireways for telephone and intercom system)</u></b>  <b><u>WIREWAYS AND LUMINAIRES</u></b>  <b><u>Conduit &amp; accessories as specified in Part 2</u></b>  <b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b>					
1	25mm  <b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b>  <b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>	m				
2	100 x 100mm	No				
3	300 x 300 x 75mm including door as specified	No				
	<b><u>Blank Covers</u></b>					
4	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 5 Grade R Luminaires And Wireways For Telephone And In					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
5	100 x 100mm	No				
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m				
	<b><u>APPLIANCES</u></b>					
7	Surface mounted appliance complete 16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>SLEEVES</u></b>					
8	50mm dia	m				
9	32mm dia	m				
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps</u></b>					
	<b><u>Type A</u></b>					
10	2 - lamp 58W fluorescent luminaire see Part 2	No	20			
	<b><u>Type B</u></b>					
11	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
12	Bulkhead luminaire with polycarbonate lens see Part 2	No	46			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 5 Grade R Luminaires And Wireways For Telephone And In					

31.

32.



Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>NEW BLOCK 4 INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><b><u>NOTE:</u></b></p> <p><u>Tenderers are advised to study the specification before pricing the bill.</u></p> <p><u>(Complete installation : Internal Electrical Installation)</u></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><u>Conduit and accessories as specified in Part 2</u></p> <p><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></p>					
1	<p>20mm</p> <p><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></p>	m	500			
2	<p>60mm deep</p> <p><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></p> <p><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></p>	No	26			
3	<p>100 x 50mm</p>	No	5			
	<p><b>Carried to Collection</b></p>			R		
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 6</p> <p>New Block 4 Internal Electrical</p>					

Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <b><u>Blank Covers</u></b>	No	5			
5	100mm dia	No				
6	100 x 100mm  <b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>	No				
7	300 x 300mm  <b><u>CONDUCTORS</u></b>  <b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>	No				
8	2,5mm <sup>2</sup>	m	1 200			
9	4,0mm <sup>2</sup>	m	800			
10	6,0mm <sup>2</sup>  <b><u>Bare stranded copper earth conductors drawn into conduits</u></b>	m				
11	2,5mm <sup>2</sup>	m	1 000			
12	4,0mm <sup>2</sup>  <b><u>APPLIANCES</u></b>  <b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>  <b><u>Socket Outlets</u></b>  <b><u>16 Ampere round 3-pin 250V grade</u></b>	m				
13	Switched socket outlet	No	5			
Carried to Collection					R	
Section No. 17 Electrical Installation Bill No. 6 New Block 4 Internal Electrical						

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Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>NEW BLOCK 4 LUMINAIRES AND WIREWAYS FOR TELEPHONE AND INTERCOM SYSTEM</u></b></p> <p><b><u>(Complete installation : wireways for telephone and intercom system)</u></b></p> <p><b><u>WIREWAYS AND LUMINAIRES</u></b></p> <p><b><u>Conduit &amp; accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b></p>				
1	<p>25mm</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	m			
2	100 x 100mm	No			
3	300 x 300 x 75mm including door as specified	No			
	<b><u>Blank Covers</u></b>				
4	100 x 100mm	No			
	<b>Carried to Collection</b>			R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 7</p> <p>New Block 4 Luminaires And Wireways For Telephone An</p>				

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
5	100 x 100mm	No				
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	400			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
8	2 - lamp 58W fluorescent luminaire see Part 2	No	20			
	<b><u>Type B</u></b>					
9	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
10	Bulkhead luminaire with polycarbonate lens see Part 2	No	8			
	<b><u>Type L</u></b>					
11	Bulkhead luminaire with polycarbonate lens see Part 2	No				
	<b><u>TESTING AND COMMISSIONING</u></b>					
12	Test and commission of the complete electrical installation		Item			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 7 New Block 4 Luminaires And Wireways For Telephone An					

39.

Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>New Nutrition Block (Existing Admin)</u></b></p> <p><b><u>NOTE:</u></b></p> <p><b><u>Tenderers are advised to study the specification before pricing the bill.</u></b></p> <p><b><u>(Complete installation : Internal Electrical Installation)</u></b></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><b><u>Conduit and accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b></p>					
1	<p>20mm</p> <p><b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b></p>	m	600			
2	<p>60mm deep</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	No	18			
3	<p>100 x 50mm</p>	No	9			
	<p style="text-align: right;"><b>Carried to Collection</b></p>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 8</p> <p>Nutrition Block Internal Electrical</p>					



Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <b><u>Blank Covers</u></b>	No	4			
5	100mm dia	No	2			
6	100 x 100mm  <b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>	No	2			
7	300 x 300mm  <b><u>CONDUCTORS</u></b>  <b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>	No				
8	2,5mm <sup>2</sup>	m	1 400			
9	4,0mm <sup>2</sup>	m	1 000			
10	6,0mm <sup>2</sup>  <b><u>Bare stranded copper earth conductors drawn into conduits</u></b>	m				
11	2,5mm <sup>2</sup>	m	2 500			
12	4,0mm <sup>2</sup>  <b><u>APPLIANCES</u></b>  <b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>  <b><u>Socket Outlets</u></b>  <b><u>16 Ampere round 3-pin 250V grade</u></b>	m				
13	Switched socket outlet	No	4			
Carried to Collection					R	
Section No. 17 Electrical Installation Bill No. 8 Nutrition Block Internal Electrical						

[illegible]



Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>New Nutrition Centre LUMINAIRES AND WIREWAYS FOR TELEPHONE AND INTERCOM SYSTEM</u></b></p> <p><b><u>(Complete installation : wireways for telephone and intercom system)</u></b></p> <p><b><u>WIREWAYS AND LUMINAIRES</u></b></p> <p><b><u>Conduit &amp; accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b></p>					
1	<p>25mm</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	m				
2	100 x 100mm	No				
3	300 x 300 x 75mm including door as specified	No				
	<b><u>Blank Covers</u></b>					
4	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 9</p> <p>Nutrition Block Luminaires And Wireways For Telephone</p>					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs</u></b>					
5	100 x 100mm	No				
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	400			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>SLEEVES</u></b>					
8	50mm dia	m				
9	32mm dia	m	40			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
10	2 - lamp 58W fluorescent luminaire see Part 2	No	16			
	<b><u>Type B</u></b>					
11	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
12	Bulkhead luminaire with polycarbonate lens see Part 2	No	7			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 9 Nutrition Block Luminaires And Wireways For Telephone					

Item No	Description	Unit	Quantity	Rate	Amount	
13	<b><u>Type E</u></b> 2 - lamp 58W fluorescent luminaire Vapourproof Part 2	No	6			
14	<b><u>TESTING AND COMMISSIONING</u></b> Test and commission of the complete electrical installation		Item			
<b>Carried to Collection</b>					R	
Section No. 17 Electrical Installation Bill No. 9 Nutrition Block Luminaires And Wireways For Telephone						

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Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 10</u></b></p> <p><b><u>EXISTING BLOCK 1 INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><b><u>NOTE:</u></b></p> <p><b><u>Tenderers are advised to study the specification before pricing the bill</u></b></p> <p><b><u>(Complete installation : Internal Electrical Installation)</u></b></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><b><u>Conduit and accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b></p>					
1	<p>20mm</p> <p><b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b></p>	m	100			
2	<p>60mm deep</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	No	26			
3	<p>100 x 50mm</p>	No	5			
	<p style="text-align: right;"><b>Carried to Collection</b></p>			R		
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 10</p> <p>Existing Block 1 Internal Electrical</p>					



Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <u>Blank Covers</u>	No	5			
5	100mm dia	No				
6	100 x 100mm  <u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u>	No				
7	300 x 300mm  <u>CONDUCTORS</u>  <u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u>	No				
8	2,5mm <sup>2</sup>	m	800			
9	4,0mm <sup>2</sup>	m	400			
10	6,0mm <sup>2</sup>  <u>Bare stranded copper earth conductors drawn into conduits</u>	m				
11	2,5mm <sup>2</sup>  <u>APPLIANCES</u>  <u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u>  <u>Socket Outlets</u>  <u>16 Ampere round 3-pin 250V grade</u>	m	600			
12	Switched socket outlet  <u>Light Switches</u>	No	5			
13	16 Ampere 250V grade single lever one way	No	5			
Carried to Collection					R	
Section No. 17 Electrical Installation Bill No. 10 Existing Block 1 Internal Electrical						



51.

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>EXISTING BLOCK 1 LUMINAIRES AND WIREWAYS</u></b></p> <p><b><u>(Complete installation : wireways for telephone and intercom system)</u></b></p> <p><b><u>WIREWAYS AND LUMINAIRES</u></b></p> <p><b><u>Conduit &amp; accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b></p>				
1	<p>25mm</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	m			
2	100 x 100mm	No			
3	300 x 300 x 75mm including door as specified	No			
	<b><u>Blank Covers</u></b>				
4	100 x 100mm	No			
	<b>Carried to Collection</b>			R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 11</p> <p>Existing Block 1 Luminaires And Wireways For Telephone</p>				

Item No	Description	Unit	Quantity	Rate	Amount
5	<p><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></p> <p>100 x 100mm</p> <p><b><u>DRAW WIRE</u></b></p>	No			
6	<p>Galvanised 1,6mm draw wire</p> <p><b><u>APPLIANCES</u></b></p> <p><b><u>Surface mounted appliances complete</u></b></p>	m	400		
7	<p>16 Ampere photo cell in an empty luminaire</p> <p><b><u>SLEEVES</u></b></p>	No	1		
8	50mm dia	m			
9	32mm dia	m			
	<p><b><u>LUMINAIRES</u></b></p> <p><b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b></p> <p><b><u>Type A</u></b></p>				
10	2 - lamp 58W fluorescent luminaire see Part 2	No	20		
	<b><u>Type B</u></b>				
11	1 - lamp 58W fluorescent luminaire see Part 2	No			
	<b><u>Type C</u></b>				
12	Bulkhead luminaire with polycarbonate lens see Part 2	No	8		
	<b>Carried to Collection</b>			R	
	Section No. 17				
	Electrical Installation				
	Bill No. 11				
	Existing Block 1 Luminaires And Wireways For Telephone				

Item No	Description	Unit	Quantity	Rate	Amount	
13	<b>Type D</b> Bulkhead luminaire with polycarbonate lens see Part 2	No				
14	<b>TESTING AND COMMISSIONING</b> Test and commission of the complete electrical installation		Item			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 11 Existing Block 1 Luminaires And Wireways For Telephone					

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Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>EXISTING BLOCK 2 INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><b><u>NOTE:</u></b></p> <p><u>Tenderers are advised to study the specification before pricing the bill.</u></p> <p><u>(Complete installation : Internal Electrical Installation)</u></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><u>Conduit and accessories as specified in Part 2</u></p> <p><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></p>					
1	<p>20mm</p> <p><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></p>	m	100			
2	<p>60mm deep</p> <p><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></p> <p><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></p>	No	26			
3	<p>100 x 50mm</p>	No	5			
	<p style="text-align: right;"><b>Carried to Collection</b></p>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 12</p> <p>Existing Block 2 Internal Electrical</p>					



Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <b><u>Blank Covers</u></b>	No	5			
5	100mm dia	No				
6	100 x 100mm  <b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>	No				
7	300 x 300mm  <b><u>CONDUCTORS</u></b>  <b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>	No				
8	2,5mm <sup>2</sup>	m	800			
9	4,0mm <sup>2</sup>	m	400			
10	6,0mm <sup>2</sup>  <b><u>Bare stranded copper earth conductors drawn into conduits</u></b>	m				
11	2,5mm <sup>2</sup>  <b><u>APPLIANCES</u></b>  <b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>  <b><u>Socket Outlets</u></b>  <b><u>16 Ampere round 3-pin 250V grade</u></b>	m	600			
12	Switched socket outlet  <b><u>Light Switches</u></b>	No	5			
13	16 Ampere 250V grade single lever one way	No	5			
<b>Carried to Collection</b>					R	
Section No. 17 Electrical Installation Bill No. 12 Existing Block 2 Internal Electrical						

[illegible]

59.

Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>EXISTING BLOCK 2 LUMINAIRES AND WIREWAYS</u></b></p> <p><b><u>(Complete installation : wireways for telephone and intercom system)</u></b></p> <p><b><u>WIREWAYS AND LUMINAIRES</u></b></p> <p><b><u>Conduit &amp; accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b></p>					
1	<p>25mm</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	m				
2	100 x 100mm	No				
3	300 x 300 x 75mm including door as specified	No				
	<b><u>Blank Covers</u></b>					
4	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 13</p> <p>Existing Block 2 Luminaires And Wireways For Telephone</p>					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
5	100 x 100mm	No				
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	400			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliances complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
8	2 - lamp 58W fluorescent luminaire see Part 2	No	20			
	<b><u>Type B</u></b>					
9	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
10	Bulkhead luminaire with polycarbonate lens see Part 2	No	8			
	<b><u>Type D</u></b>					
11	Bulkhead luminaire with polycarbonate lens see Part 2	No				
	<b><u>TESTING AND COMMISSIONING</u></b>					
12	Test and commission of the complete electrical installation		Item			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 13 Existing Block 2 Luminaires And Wireways For Telephone					

62.

Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 14</u></b></p> <p><b><u>EXISTING BLOCK 3 INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><b><u>NOTE:</u></b></p> <p><b><u>Tenderers are advised to study the specification before pricing the bill</u></b></p> <p><b><u>(Complete installation : Internal Electrical Installation)</u></b></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><b><u>Conduit and accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b></p>					
1	<p>20mm</p> <p><b><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b></p>	m	100			
2	<p>60mm deep</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	No	26			
3	<p>100 x 50mm</p>	No	5			
	<p style="text-align: right;"><b>Carried to Collection</b></p>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 14</p> <p>Existing Block 3 Internal Electrical</p>					

Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <u>Blank Covers</u>	No	5			
5	100mm dia	No				
6	100 x 100mm  <u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u>	No				
7	300 x 300mm  <u>CONDUCTORS</u>  <u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u>	No				
8	2,5mm <sup>2</sup>	m	800			
9	4,0mm <sup>2</sup>	m	400			
10	6,0mm <sup>2</sup>  <u>Bare stranded copper earth conductors drawn into conduits</u>	m				
11	2,5mm <sup>2</sup>  <u>APPLIANCES</u>  <u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u>  <u>Socket Outlets</u>  <u>16 Ampere round 3-pin 250V grade</u>	m	600			
12	Switched socket outlet  <u>Light Switches</u>	No	5			
13	16 Ampere 250V grade single lever one way	No	5			
Carried to Collection					R	
Section No. 17 Electrical Installation Bill No. 14 Existing Block 3 Internal Electrical						



[illegible]

66.

Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>EXISTING BLOCK 3 LUMINAIRES AND WIREWAYS</u></b></p> <p><b><u>(Complete installation : wireways for telephone and intercom system)</u></b></p> <p><b><u>WIREWAYS AND LUMINAIRES</u></b></p> <p><b><u>Conduit &amp; accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b></p>					
1	<p>25mm</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	m				
2	100 x 100mm	No				
3	300 x 300 x 75mm including door as specified	No				
	<b><u>Blank Covers</u></b>					
4	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	Section No. 17					
	Electrical Installation					
	Bill No. 15					
	Existing Block 3 Luminaires And Wireways For Telephone					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
5	100 x 100mm	No				
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	400			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliances complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
8	2 - lamp 58W fluorescent luminaire see Part 2	No	20			
	<b><u>Type B</u></b>					
9	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
10	Bulkhead luminaire with polycarbonate lens see Part 2	No	8			
	<b><u>Type D</u></b>					
11	Bulkhead luminaire with polycarbonate lens see Part 2	No				
	<b><u>TESTING AND COMMISSIONING</u></b>					
12	Test and commission of the complete electrical installation		Item			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 15 Existing Block 3 Luminaires And Wireways For Telephone					

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Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 16</u></b></p> <p><b><u>NEW BLOCK 5 INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><b><u>NOTE:</u></b></p> <p><u>Tenderers are advised to study the specification document before pricing the bill.</u></p> <p><u>(Complete installation : Internal Electrical Installation)</u></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><u>Conduit and accessories as specified in Part 2</u></p> <p><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></p>					
1	<p>20mm</p> <p><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></p>	m	500			
2	<p>60mm deep</p> <p><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></p> <p><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></p>	No	26			
3	<p>100 x 50mm</p>	No	5			
	<p style="text-align: right;"><b>Carried to Collection</b></p>				R	
	<p>Section No. 17</p> <p>Electrical Installation</p> <p>Bill No. 16</p> <p>New Block 5 Internal Electrical</p>					

Item No	Description	Unit	Quantity	Rate	Amount	
4	100 x 100mm  <b><u>Blank Covers</u></b>	No	5			
5	100mm dia	No				
6	100 x 100mm  <b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>	No				
7	300 x 300mm  <b><u>CONDUCTORS</u></b>  <b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>	No				
8	2,5mm <sup>2</sup>	m	1 200			
9	4,0mm <sup>2</sup>	m	800			
10	6,0mm <sup>2</sup>  <b><u>Bare stranded copper earth conductors drawn into conduits</u></b>	m				
11	2,5mm <sup>2</sup>	m	1 000			
12	4,0mm <sup>2</sup>  <b><u>APPLIANCES</u></b>  <b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>  <b><u>Socket Outlets</u></b>	m				
13	16 Ampere round 3-pin 250V grade Switched socket outlet  <b><u>Light Switches</u></b>	No	5			
14	16 Ampere 250V grade single lever one way	No	5			
<b>Carried to Collection</b>					R	
Section No. 17 Electrical Installation Bill No. 16 New Block 5 Internal Electrical						

[illegible]



73.

Item No	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 17</u></b></p> <p><b><u>NEW BLOCK 5 LUMINAIRES AND WIREWAYS FOR TELEPHONE AND INTERCOM SYSTEM</u></b></p> <p><b><u>(Complete installation : wireways for telephone and intercom system)</u></b></p> <p><b><u>WIREWAYS AND LUMINAIRES</u></b></p> <p><b><u>Conduit &amp; accessories as specified in Part 2</u></b></p> <p><b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b></p>					
1	<p>25mm</p> <p><b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b></p> <p><b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b></p>	m				
2	100 x 100mm	No				
3	300 x 300 x 75mm including door as specified	No				
	<b><u>Blank Covers</u></b>					
4	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	Section No. 17					
	Electrical Installation					
	Bill No. 17					
	New Block 5 Luminaires And Wireways For Telephone An					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Expansion joint boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
5	100 x 100mm	No				
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	400			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
8	2 - lamp 58W fluorescent luminaire see Part 2	No	20			
	<b><u>Type B</u></b>					
9	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
10	Bulkhead luminaire with polycarbonate lens see Part 2	No	8			
	<b><u>Type L</u></b>					
11	Bulkhead luminaire with polycarbonate lens see Part 2	No				
	<b><u>TESTING AND COMMISSIONING</u></b>					
12	Test and commission of the complete electrical installation		Item			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 17 New Block 5 Luminaires And Wireways For Telephone An					

76.

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 17</u></b></p> <p><b><u>BILL NO. 18</u></b></p> <p><b><u>SCIENCE MEDIA HOD, INTERNAL ELECTRICAL INSTALLATION</u></b></p> <p><u>Tenderers are advised to study the specification before pricing the bill.</u></p> <p><u>(Complete installation : Internal Electrical Installation)</u></p> <p><b><u>SMALL POWER AND LIGHTING</u></b></p> <p><u>Conduit and accessories as specified in Part 2</u></p> <p><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></p>				
1	20mm	m	300		
2	25mm	m	250		
3	Two Compartment steel power skirting or equal powder coated c/w covers	m	40		
	<p><u>Round conduit box as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></p>				
4	60mm deep	No	16		
	<p><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></p>				
	<b>Carried to Collection</b>			R	
	Section No. 17 Electrical Installation Bill No. 18 Science Media HOD Internal Electrical				

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>					
5	100 x 50mm	No	7			
6	100 x 100mm	No	18			
7	Isolator	No	2			
	<b><u>Blank Covers</u></b>					
8	100mm dia	No	2			
	<b><u>Conductors</u></b>					
	<b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>					
9	2,5mm <sup>2</sup>	m	1 000			
10	4,0mm <sup>2</sup>	m	1 100			
11	6,0mm <sup>2</sup>	m	300			
	<b><u>Bare stranded copper earth conductors drawn into conduits</u></b>					
12	2,5mm <sup>2</sup>	m	1 000			
13	4mm <sup>2</sup>	m	150			
	<b><u>Appliances</u></b>					
	<b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>					
	<b><u>Socket Outlets</u></b>					
	<b><u>16 Ampere round 3-pin 250V grade</u></b>					
14	Switched socket outlet	No	18			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 18 Science Media HOD Internal Electrical					

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Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>SECTION NO. 17</u></b>					
	<b><u>BILL NO. 19</u></b>					
	<b><u>SCIENCE MEDIA HOD, LUMINAIRES AND WIREWAYS FOR TELEPHONE AND INTERCOM SYSTEM</u></b>					
	<b><u>(Complete installation : wireways for telephone and intercom system)</u></b>					
	<b><u>WIREWAYS AND LUMINAIRES</u></b>					
	<b><u>Conduit &amp; accessories as specified in Part 2</u></b>					
	<b><u>Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b>					
1	20mm	m	65			
2	25mm	m	300			
	<b><u>Wall boxes as specified in Part 2 placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes</u></b>					
	<b><u>Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>					
3	100 x 100mm	No	5			
4	300 x 300 x 75mm including door as specified	No	1			
	<b><u>Blank Covers</u></b>					
5	100 x 100mm	No				
	<b>Carried to Collection</b>				R	
	Section No. 17					
	Electrical Installation					
	Bill No. 19					
	Science Media Hod Luminaires And Wireways For Teleph					

Item No	Description	Unit	Quantity	Rate	Amount	
	<b><u>DRAW WIRE</u></b>					
6	Galvanised 1,6mm draw wire	m	270			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
7	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>SLEEVES</u></b>					
8	100mm dia	m				
9	50mm dia	m	30			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps, see Part 2</u></b>					
	<b><u>Type A</u></b>					
10	2 - lamp 58W fluorescent luminaire see Part 2	No	25			
	<b><u>Type B</u></b>					
11	1 - lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type C</u></b>					
12	Bulkhead luminaire with polycarbonate lens see Part 2	No	10			
	<b><u>Type L</u></b>					
13	2 – Lamp 58W fluorescent luminaire see Part 2	No				
	<b><u>Type M</u></b>					
14	As C with red lens	No	1			
	<b>Carried to Collection</b>				R	
	Section No. 17 Electrical Installation Bill No. 19 Science Media Hod Luminaires And Wireways For Teleph					

83.

84.

[illegible]

86.

87.