

# The Mogaveera Vyavastahapaka Mandali – Mumbai

## MVM Educational Campus

off veera desai road, MVM Educational Campus Marg, Andheri West, Mumbai -400058

### SCOPE OF WORK – FORM B

	Description	Unit	Qty	Rate	Total
<b>A</b>	<b><u>PANEL AND DISTRIBUTION BOARD</u></b>				
1	Supply, installation, testing and commissioning of following modular type circuit breaker type distribution boards, floor / wall mounted as per drawings and specifications and as required. The distribution board shall be of 1.6mm sheet steel enclosure powder coated with all accessories and hardware as required complete. ( Single Door Type ).The Panel shall have suitable insulated type Aluminium bus bars for each phase and earth terminal block to facilitate easy termination of				
1.1	250A TPN, 36KA MCCB,R-Y-B lamp, Spreader Links & Extension rotary handle with Powder Coated MS Enclosure. (Size : 450 X 1000 X 250 MM )	Nos	1		
2.1	<b>Main Distribution panel ( Size : 1200 X 1000 X 250 MM )</b>	Nos	1		
	<b>Incomer</b>				
	a) 200A MCCB FP 36KA -1no				
	b) 250A Aluminium Bus Bars -1set				
	c) RYB Led indication Lamp - 1set				
	d) Load Manager with CT - 1set				
	e) Surge Protection (Type-1) -1set				
	<b>Outgoing</b>				
	a) 160A MCCB TP 25KA -1nos				
	b) 125A MCCB TP 25KA -1nos				
	c) 63A MCB TP 10KA - 4nos				
	d) Row Power /Lighting DB with UPS DB				
	1) 40A /32A MCB DP 10KA - 4nos				
	2) 16/20A MCB SP 10KA - 18nos				
	d) VAF Meter - 1nos				
3.1	<b>Electric Floor Panel ( Size : 1050 X 1300 X 250 MM)</b>	Nos.	4		
	<b>Incomer</b>				
	a) 63A MCB TPN 25KA - 1no				
	b) 100A Aluminium Bus Bars- 1Set				
	c) RYB Led indication Lamp - 1Set				
	d) Load Manager with CT - 1set				
	e) Surge Protection -1set				
	f) VFA Meter - 1nos				
	<b>Outgoing</b>				
	a) 63A MCB DP 10KA -3nos				
	b) 16 /32 A MCB SP 10KA -24nos				
	c) Row Power / Lighting DB & UPS DB				
	1) 40A /32A MCB DP 10KA - 4nos				
	2) 16/20A MCB SP 10KA - 24nos				
3.2	<b>Electric 1st &amp; 2nd Floor Hall Panel ( Size : 650 X 800 X 250 MM )</b>	Nos	1		
	<b>Incomer</b>				
	a) 100A MCCB TP 25KA - 1no				
	b) 100A Aluminium Bus Bars- 1Set				
	c) RYB Led indication Lamp - 1Set				
	d) VAF meter - 1set				
	e) Surge Protection -1set				
	<b>Outgoing</b>				
	a) 16 /63 A MCB TP 10KA -4nos				

# The Mogaveera Vyavastahapaka Mandali – Mumbai

## MVM Educational Campus

off veera desai road, MVM Educational Campus Marg, Andheri West, Mumbai -400058

### SCOPE OF WORK – FORM B

	Description	Unit	Qty	Rate	Total
	b) Row Power / Lighting DB & UPS DB				
	1)16/40A MCB DP 10KA - 4nos				
	2)16/20A MCB SP 10KA - 24nos				
3.3	<b>40KVAR APFC Panel ( Size : 1000 X 1000 X 200 MM )</b>	Nos	2		
	<b>Incomer</b>				
	a) 100A 4P isolator 25KA MCB - 1no				
	b) RYB Led indication Lamp - 1Set				
	c) 100A Aluminium Bus Bars- 1Set				
	d) 6 Stage APFC Relay -1no				
	e) Digital Ampmeter with CT -3 nos				
	f) 6A Control MCB-3nos				
	<b>Outgoing</b>				
	a) 6A - 40A TP MCB -6 nos				
	b) Capacitor dut contactor - 6nos				
	c) Gas filled Capacitor -6nos				
	e) On Delay Timer -1no				
	f) 6A Control MCB-3 nos				
	g) Auto Manual Switch -6no				
	h) Indication Lamp -6nos				
	k) Cooling fan with Cyclic timer-1no				
	l) Control & Power wirng - 1set				
3.4	<b>Electric Floor UPS DB 8Way SPN</b>	Nos	3		
	Incomer : 40A DP MCB = 1				
	outgoing : 6A / 20A SP MCB = 6nos				
	<b>Section (A)</b>				
<b>B</b>	<b>CABLES, END TERMINATION &amp; CABLE TRAYS</b>				
	<b>Cables</b>				
1.0	Supply, handling, laying effecting proper connections testing and commissioning of following sizes of 1.1 KV grade PVC/XLPE insulated Armoured Aluminium /Copper conductor cables. The cables shall be laid as per PRIL instruction or on cable trays laid over MS supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as required complete with earthing as specified for continuous earthing along with cable . (The cost of the cable trays or ladders, excavation and back filling of trenches will be measured separate. The unit cost of the cable shall include clamps, fasteners etc. as required for proper installation. Earthing will be measured separately and need not be quoted under this item). All complete as required and as per final instruction as given by consultant/site engineer. The cables should be properly dressed and to be tied to the cable trays using appropriate cable ties.				
1.1	3 1/2 x 120sqmm A2XFY cable ( XLPE Insulated Aluminium Conductor Armoured Cable )	Mtr	25		
1.2	3 1/2 C x 70sqmm A2XFY cable ( XLPE Insulated Aluminium Conductor Armoured Cable )	Mtr	75		
1.3	4 C x 10 sqmm copper armoured cable ( PVC Insulated Copper Conductor Armoured Cable )	Mtr	90		
1.4	4 C x 6 sqmm copper armoured cable ( PVC Insulated Copper Conductor Armoured Cable )	Mtr	60		
1.5	2 C x 4 sqmm copper armoured cable ( PVC Insulated Copper Conductor Armoured Cable )	Mtr	1500		
1.6	25mm flexible pipe	Mtr	50		
1.7	20mm flexible pipe	Mtr	50		

# The Mogaveera Vyavastahapaka Mandali – Mumbai

## MVM Educational Campus

off veera desai road, MVM Educational Campus Marg, Andheri West, Mumbai -400058

### SCOPE OF WORK – FORM B

	Description	Unit	Qty	Rate	Total
	<b>Terminations</b>				
2.0	Provide and install cable terminations for the above cables including single compression type chrome plated brass glands and lugs(crimping type), PVC taping as required and all accessories complete.				
2.1	3 1/2 x 120 sqmm A2XFY cable	Nos.	2		
2.2	3 1/2 x 70 sqmm A2XFY cable	Nos.	10		
2.3	4 C x 10sqmm copper armoured cable	Nos.	8		
2.4	4C x 6sqmm copper armoured cable	Nos.	4		
2.4	2C x 4sqmm copper armoured cable	Nos.	54		
2.5	25 mm PG glands	Nos.	10		
2.6	20 mm PG glands	Nos.	10		
	<b>Cable Trays &amp; Raceways, PVC Trunking system</b>				
3	Providing & Fixing of 1.6mm thick MS steel fabricated ladder type cable trays of the following sizes.Ladder type cable trays shall be fabricated from 32 x 32 x 5 mm M.S. angles on the sides. All trays should have coupler plates with 4 number of bolt and nuts of galvanized hardware.Trays should be supported at every 1.5 mtr interval.				
3.1	300mm X 75mm GI Trunk With Cover	Mtr	35		
3.2	200mm X 50 mm wide	Mtr	275		
3.3	150mm X 50mm wide	Mtr	RO		
3.4	100mm X 50mm wide	Mtr	50		
3.5	"C" Channel	Mtr	0		
3.6	"Z" Channel	Mtr	0		
4	Supply of PVC Trunking system of size 100x50mm with 85mm cover & accessories such as centre	Mtr	20		
	<b>Section (B)</b>				
<b>C</b>	<b><u>EARTHING SYSTEM</u></b>				
	Providing, installing, testing and commissioning of copper earthing station using 600 X 600 x 3mm copper plates using 25 mm dia class "B" GI pipe with wire mesh & funnel including excavation, back filling with combination of salt, sand & charcoal, construction of brick masanory inspection chamber, heavy duty chamber cover of size 300 X 300 (C.I) or with RCC slab	Nos.	2		
1.1	25 x 6mm G I Strip(Hot Dip Gi strip)	Mtr	150		
1.2	25 x 3mm G.I strip(Hot Dip Gi strip)	Mtr	200		
1.3	Providing and laying 1C x 2.5 sqmm insulated copper wire as earthing conductor including necessary accessories, clamping to walls, cables etc. as required and interconnection between lenghts as per specifications and as per good installation practice.	Mtr	280		
1.4	Providing and laying 1C x 6 sqmm insulated copper wire as earthing conductor including necessary accessories, clamping to walls, cables etc. as required and interconnection between lenghts as per specifications and as per good installation practice.	Mtr	45		
1.5	Providing and laying 1C x 16 sqmm insulated copper wire as earthing conductor including necessary accessories, clamping to walls, cables etc. as required and interconnection between lenghts as per specifications and as per good installation practice.	Mtr	30		
1.6	Earting J B	Nos	10		
1.7	Ring Type SS Lugs,SS nut boald crimping & Termination	Nos	60		
	<b>Section (C)</b>				

# The Mogaveera Vyavastahapaka Mandali – Mumbai

## MVM Educational Campus

off veera desai road, MVM Educational Campus Marg, Andheri West, Mumbai -400058

### SCOPE OF WORK – FORM B

	Description	Unit	Qty	Rate	Total
<b>D</b>	<b>Temporary Wiring &amp; Dismantling Work</b>				
1.1	Temporary wiring provide the all vendors for the equipments start, Switch / Soc board and Light	JOB	1		
1.2	Dismantling & removal of existing wiring, switchboards,cable trays, cables , Light Fixtures,PVC	JOB	1		
1.3	Cor Cutting Work ( As Per Size ) (4"inch X 15"inch)	Nos	8		
	<b>Section (D)</b>				
<b>E</b>	<b>MISCELLANEOUS ITEMS</b>				
1.1	Providing and fixing in position the best quality danger boards (Size :- 200mm X 150mm)of approved shape and size as specified by the local electrical authorities written in English and Local	Nos.	6		
1.2	Providing and fixing in position approved shock treatment chart written in Hindi, English and Local Language. The chart shall be framed in Teakwood and covered with glass.	Nos.	6		
1.3	Supply and fixing of approval make, 1.1kV grade, rubber Mat - <b>12 mm thick, 1 Mtrs wide</b>	SqMtr	8		
	<b>Section (E)</b>				
	<b>Section A,B,C,D,E,Total Amount ( Without GST Tax )</b>				

GST @ 18%

Total Rs -