

**OPTIONAL ITEM**

S.No	Optional Item	Qty	Unit price	Approved Make List
1	Supply,Laying , commissioning of of Aluminium conductor XLPE /PVC insulated Armoured served with sheathed cables,1100 volt grade 3.5C X 240 sq. mm. (2no's) at a depth of 750mm below ground level over a cushion of 75 mm thick sand all around and protected with bricks on top complete as required.( <b>New building substation to Green house</b> )	200mtr		Finolex, Havells and polycab
2	<b>Supply, installation and commissioning of LT Incoming cum outgoing feeder panel with following specifications from new building to Green house</b>			
2.1	Incomer - MCCB 630AMP, 3 POLES,415V,50KA,	2no's		L&T ,Seimens and schindler
2.2	Outgoing- LT Busbar ALUMINIUM	1 Set		Standard ISI marked
2.3	Indicating Digital Energy meter including voltmeter, ammeter , phase indicator LED, Clamps,changeover switch as required.	1set		Standard ISI marked
2.4	Enclosure- Indoor Type 16 swg thick CRCA sheet steel enclosure shall have IP 54 degree of protection for LT switchgear compartment. The enclosure exterior shall be powder coated with PP based paint. Each compartment will be provided with doors and pad locking arrangment. Front and back access shall be available to all components in 630A INCOMER and 4no's outgoing LT feeder cubicle which require adjustments for maintenance and replacment of the parts.	1no's		Standard ISI marked
	<b>Outgoing Feeder Panel with following specifications</b>			
2.5	MCCB-400AMP,3 Poles, 415volt,36ka, manually operated with thermal magnetic released based inbuilt over current, short circuit and under voltage fault release protection	1no.		L&T ,Seimens and schindler

2.6	MCCB-200AMP,3 Poles, 415volt,36ka, manually operated with thermal magnetic released based inbuilt over current, short circuit and under voltage fault release protection	2no's		L&T ,Seimens and schindler
2.7	MCCB-100AMP,3 Poles, 415volt,36ka, manually operated with thermal magnetic released based inbuilt over current, short circuit and under voltage fault release protection	1no's		L&T ,Seimens and schindler
3	Supply,Laying , commissioning of of Aluminium conductor /PVC insulated Armoured served with sheathed cables,1100 volt grade 3.5C X 240 sq. mm. (2no's) at a depth of 1mt below ground level over a cushion of 75 mm thick sand all around and protected with bricks on top complete as required. <b>(Green house to TACF)</b>	300mtr		Finolex, Havells and polycab
<b>4</b>	<b>Supply and installation of LT Incoming cum outgoing feeder panel with following specifications from Green house to TACF</b>			
4.1	Enclosure- Indoor Type 16 swg thick CRCA sheet steel enclosure shall have IP 54 degree of protection for LT switchgear compartment. The enclosure exterior shall be powder coated with PP based paint. Each compartment will be provided with doors and pad locking arrangment. Front and back access shall be available to all components in 400A INCOMER and 4no's outgoing LT feeder cubicle which require adjustments for maintenance and replacment of parts.	1no's		Standard ISI marked
4.2	Incomer - MCCB 400AMP, 3 POLES,415V,50KA,	1no's		L&T ,Seimens and schindler
4.3	Outgoing- LT Busbar ALUMINIUM	1 Set		Standard ISI marked
4.4	Indicating Digital Energy meter includin voltmeter, ammeter , phase indicator LED, Clamps,changeover switch as required.	1set		Standard ISI marked
	Outgoing Feeder Panel with following installation			
4.5	MCCB-400AMP,3 Poles, 415volt,36ka, manually operated with thermal magnetic released based inbuilt over current, short circuit and under voltage fault release protection	1no.		L&T ,Seimens and schindler

4.6	MCCB-200AMP,3 Poles, 415volt,36ka, manually operated with thermal magnetic released based inbuilt over current, short circuit and under voltage fault release protection	1no's		L&T ,Seimens and schindler
4.7	MCCB-100AMP,3 Poles, 415volt,36ka, manually operated with thermal magnetic released based inbuilt over current, short circuit and under voltage fault release protection	1no's		L&T ,Seimens and schindler
5	Minus Eighty Deep freezer chest type Capacity 200-250lts	1no's		Thermo/Eppendor f

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