

## TIEPCO – UNIT SUBSTATION

The TIEPCO Unit Substation conforms to the latest IEC and prevailing utility standard (32-SDMS-01) and is designed and manufactured utilizing the in house expertise and state of the art technology.

TIEPCO manufactured Unit substation has following salient features:

- Is up to 17.5KV on HV side and up to 400V on LV side
- Main busbar rating up to 400A on HV side and up to 4000A on LV side.
- Upto 1500 kVA

### Unit Substation Comprises Of Two Sections:

A-TRANSFORMER SECTION								
Rated Voltage	17.5KV							
Rated Capacity	1500 KVA							
Rated Primary Voltage	13.8KV							
Rated Secondary Voltage	UP TO 400V AC							
Cooling	ONAN							
Paint	RAL7033							
B- LOW VOLTAGE COMPARTMENT								
Having LV Switchgear As Per Rating Of Transformer Enunciated below:								
COMPONENTS	UNIT SUBSTATION RATING							
	300kVA		500kVA		1000kVA		1500kVA	
	231/133V	400/231V	231/133V	400/231V	231/133V	400/231V	231/133V	400/231V
LV Panel Incoming Busbar / Link rating - min. (A)	800	500	1600	800	3000	1600	4000	2500
CT rating on incoming Busbar (A)	750/5	750/5	1500/5	750/5	3000/5	1500/5	4000/5	3000/5
Number of Outgoing MCCB,s rated 400A	2	1	4	2	6	4	7	5
Provision of space for Spare MCCBs	2	1	4	2	6	4	7	5
Phase Busbar min. rating (A)	800	500	1600	800	3000	1600	4000	2500
Symmetrical Short Circuit Rating for 2 sec. (rms), kA	25	25	25	25	40	25	65	40