



VERITAS Engineering

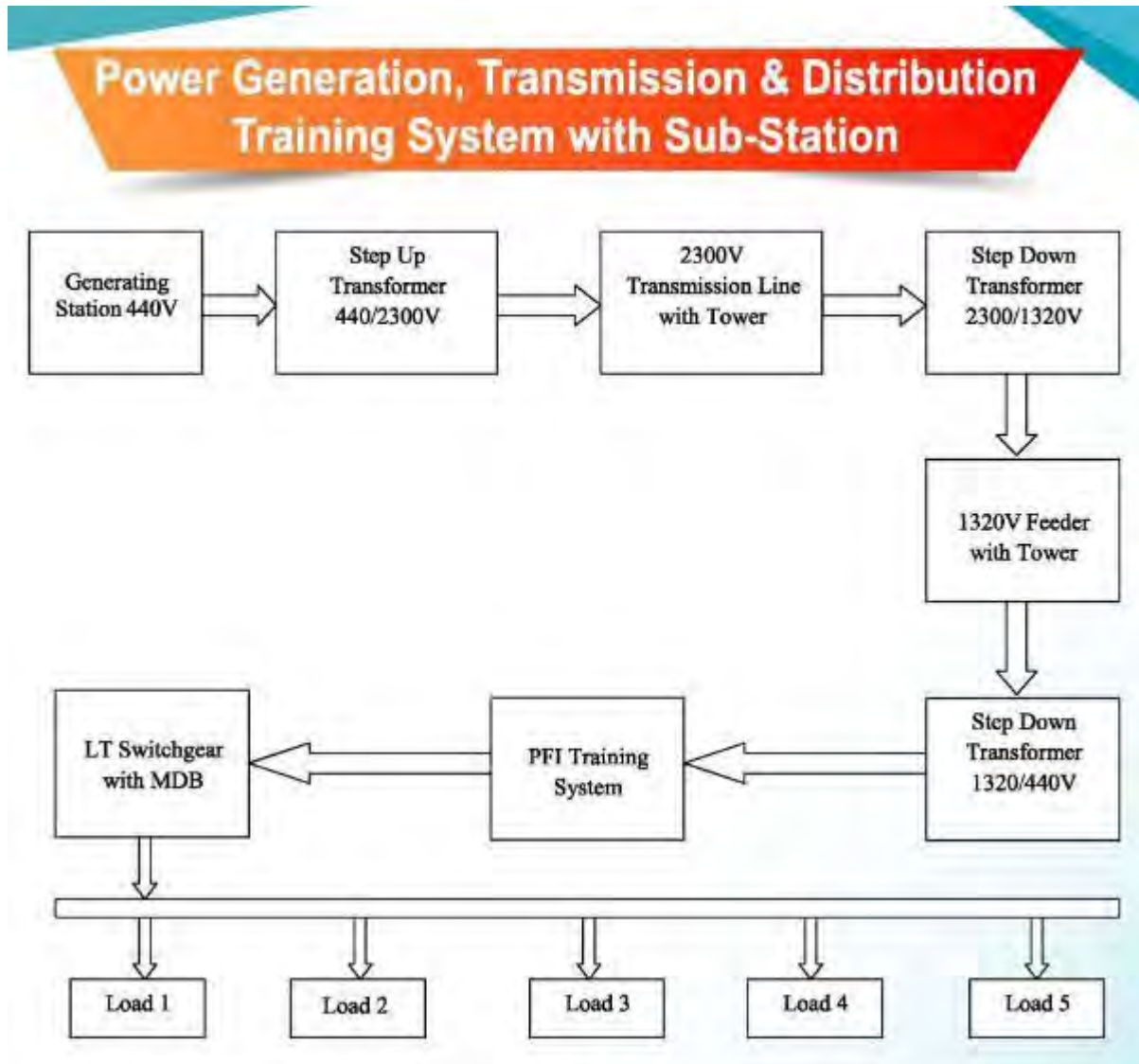
Catalog
Of

**Power Generation, Transmission &
Distribution Training System with
Sub-Station**

Brand: VERITAS

Model: VPGTD-001

Technical Specification



1. Generating Station 380V

Power: 10KVA (8KW),
Voltage1: 380V, 3- ϕ , 50 Hz
Voltage2: 220V, 1- ϕ , 50 Hz
Gasoline Generator Or Diesel Generator
4 Stroke Single Cylinder Engine
Engine Type: Horizontal
Self Start Engine



2. Step Up Sub-station 380/2300V

Transformer: – 1 Nos
Rating: 380V/2300V, 10 KVA
Type: Dry Type Air Cooling
Panel Board:
Digital Ammeter (AC): 5A – 1 Nos
Digital Voltmeter (AC): 500V – 1 Nos
Multifunctional Digital Watt Meter (W, VAR, VA, I_L , I_P , V_L , V_P , $\cos\theta$): – 1 Nos



3. Primary Transmission Line 2300V

Span: 2 Meter
Tower: - 2 Nos
Materials: Stainless Steel (1" x 1" Angle Bar),
Dimension: 2 Feet x 2 Feet x 9 Feet
No of Cross Arm: 3
No of Circuit: 2 (1 Live and 1 Demo)
Earth Wire On Top of the Tower with Lightning Arrester
Insulator:
Disk Type Insulator (String)
No of Disk: 18 each Tower
Materials: Wooden
Color: Coffee
Conductor:
Size: 1x4RM
Materials: Copper/Aluminum/ACSR
Length: 6 x 2 Meter



4. Step Down Sub-station 2300/1320V

Transformer: – 1 Nos
Rating: 2300V/1320V, 10 KVA
Type: Dry Type Air Cooling



5. Primary Distribution Line (Feeder) 1320V

Span: 2 Meter

Tower: - 2 Nos

Materials: Stainless Steel (1" x 1" Angle Bar),

Dimension: 1.5 Feet x 1.5 Feet x 8 Feet

No of Cross Arm: 3

No of Circuit: 2 (1 Live and 1 Demo)

Earth Wire On Top of the Tower with Lightning Arrester

Insulator:

Disk Type Insulator (String)

No of Disk: 18 each Tower

Materials: Wooden

Color: Coffee

Conductor:

Size: 1x7 RM

Materials: Copper/Aluminum/ACSR

Length: 6 x 2 Meter



6. Step Down Sub-station 1320/380V

Transformer: – 1 Nos

Rating: 1320V/380V, 10 KVA

Type: Dry Type Air Cooling

PFI: 9KVAR PFI – 1 Nos

4 Stages PFI

Automatic & Manual Capacitor Connection System



LT Switchgear Panel with Load:

50Amp LT Panel Control with MCCB – 1 Nos

Digital Ammeter (AC): 5A – 1 Nos

CT Ratio: 100:5 – 1 Nos

Digital Voltmeter (AC): 500V – 1 Nos

Multifunctional Digital Watt Meter (W, VAR, VA, I_L , I_P , V_L , V_P , $\cos\theta$): – 1 Nos

7. Secondary Distribution Line 440V

Distributor Length: 3 Meter

Distributor Type: One Ended Distributor

Consumer Connection Point: 5

Phase: Single Phase & Three Phase

Pole: - 4 Nos

Materials: Stainless Steel

Dimension: 4" x 4" x 5 Feet

No of Circuit: 1

Earth Wire On Top of the Pole with Lightning Arrester

Insulator:

Shackle Insulator

No of Insulator: 4 each Pole

Materials: Ceramic

Color: Coffee

Conductor:

Size: 10RM

Materials: Copper

Length: 4 x 3 Meter



8. Consumer Load (Inside LT Panel)

1. 100W, 220V Load – 3 Unit
2. 260W, 220V Load – 3 Unit
3. 1200W, 380V Load – 1 Unit
4. 2100W, 380V Load – 1 Unit
5. 3000W, 380V Load – 1 Unit