

THE BEST **TRANSFORMER OF BANGLADESH**





















TABLE OF **CONTENTS**

| MILESTONES | 01 |
|---------------------------------------|----|
| INFRASTRUCTURE | 01 |
| MATERIAL PROCUREMENT | 02 |
| POWER TRANSFORMER | 03 |
| DISTRIBUTION TRANSFORMER | 03 |
| DRY TYPE TRANSFORMER | 04 |
| ELECTRICAL SPECIFICATION | 05 |
| TRANSFORMER DIMENSSION | 06 |
| POWER TRANSFORMER WITH OLTC | 07 |
| AUTOMATIC VOLTAGE REGULATOR | 08 |
| COMPACT SUB-STATION (CSS) | 08 |
| TRANSFORMER ROUTINE TEST | 09 |
| LIST OF MECHANICAL & ALLIED EQUIPMENT | 10 |
| NON CONVENTIONAL JOB | 11 |
| PERIODIC MAINTENANCE SCHEDULE | 12 |
| CERTIFICATIONS | 13 |



OUR MILESTONES

Empowering industries and communities, POWERtrac continues to set benchmarks in transformer technology and energy solutions. Each milestone reflects our commitment to innovation, quality, and excellence.

2025 : 3150 KVA 4MVA Cast Resin Transformers are strated to manufacture.

2024 : POWERtrac commissioned a 6.5 MVA transformer at Bangladesh Edible Oil Limited, along with two 2.5 MVA transformers. The company also started production of dry-type resin cast transformers (750 kVA to 1600 kVA) and began manufacturing CT PT units and 75 kVA dry-type V.P.I. transformers.

2023: POWERtrac successfully commissioned a 12.5 MVA 33/11 kV transformer with Mr. Germany OLTC and 4 MVA and 2.5 MVA transformers at Meghna Rubber Industries. Additionally, a 5.5 MVA transformer was commissioned at ICCL, and compact substations (250 kVA and 315 kVA) were installed at Bangabandhu Sheikh Mujibur Rahman Tunnel.

2022 : POWERtrac completed the installation of a 5 MVA transformer at Sharmin.

2021 : POWERtrac commissioned a 4 MVA 33/11 kV transformer at Matbor and a 6 MVA 33/11 kV transformer at Spectra, along with a 4 MVA 11/6.6 kV transformer.

2020 : POWERtrac commissioned a 3 MVA 33/11 kV transformer at Ashta Feed.

OUR INFRASTRUCTURE

Our factory shaded area 75000SFT and Total area 180000SFT.

 Annual Manufacturing Capacity- 600 MVA. Certification: ISO 9001 : 2015
ISO 14001 : 2015

Transformer- 50KVA - 50 MVA



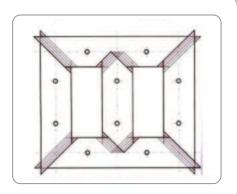


MATERIAL PROCUREMENT

01. CORE

We source cores from JFE (Japan) and POSCO (Korea) with 0.23 mm and 0.27 mm thickness, employing a mitre step lap design to reduce no-load loss.







02. COPPER

For LT windings, use we Coppertech copper rods processed in-house with copper drawing & insulation covering machines, while HT windings utilize enameled copper wires from RR & BRB.







03. OLTC

On-Load Tap Changers are supplied by M.R. (Germany) and CTR (India).

04. MS SHEET

MS sheets are sourced from POSCO (Korea) and Tata Steel (India).

05. INSULATION PAPER

Insulation papers are sourced from ABB and Umang, both from India.

06. TRANSFORMER OIL

We use Savita transformer oil from India.



POWER TRANSFORMER

- Prime grade, non laser, silicon steel (CRGO).
- · CNC Machines for sliting, angular cut and V-Knotch to ensure high performance, low no-load loss & low sound.
- · Horizontal & vertical laps (7 step) used for low no-load loss.
- · High quality enameled wire or paper wraped flat copper strip are used as conductor for spiral type, disc type, helical type coil.
- · Circuler & reactangular type windings are used.
- Insulation papers, press board & crape paper of high quality from ABB (India) to reduce moisture.
- POWERtrac has the complete radiator manufacturing plants for both
 - i) Pressed steel radiator.
 - i) Conrrugated radiator.
- POWERtrac has been using SAVITA/HYREX brand transformer oil for cooling purpose.



20/28 MVA Power Transformer

DISTRIBUTION TRANSFORMER

POWERtrac offers a complete range of distribution transformers suited to both indoor and outdoor applications in utility, industry and infrastructure. The standard range includes Three Phase Transformers 50 to 1000 kVA that meets the requirement of IEC standards. Tailor made Transformer are available, offering the "Maximum Value for Money" solution.

- Low flux density to reduce no load loss
- · Highest efficiency at 50% load.
- Winding material copper.
- · Used corrugated radiator to reduce overall size.
- · Tank fabrication totally done by laser machine.
- · Low maintenance designs that are built for trouble-free operation.
- · Quick delivery with international quality at reasonable prices.
- · High reliability for lifetime.
- Greater value for money.
- Compact.





DRY TYPE TRANSFORMER

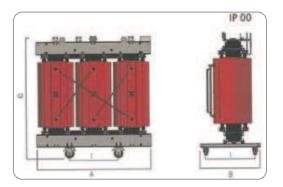
POWERtrac is offering Dry Type Transformer ensuring modern design and international testing facilities. Our Dry Type Transformer are made with the design and technical support from over seas companies as well as our own factory.

- Compact.
- · Easy maintenance.
- · Stress that may occur in service both high & low voltage coil windings are cast to prevent humidity.
- Used 1pcs step lap core to reduce sound.
- · Smaller in size.
- Super low consumption, energy enconomized, high power
- · Winding material copper/aluminium as per customer requirements.
- · Operating temperature stays low, insulation aging slow, transformer service lifes long.
- IP64, IP54, IP65 as per customers requirement.



APPLICATION

Sub-stations, Underground markets, High rise buildings, Theatres, Power plants, Waste treatment plants, Hospitals, Apartment.



DRY TYPE TRANSFORMER LOAD LOSS CHART (11 kV +2X2.5%)/415V, Dyn11:

| RATED CAPACITY (KVA) | | DIMENSIO | NS (IN MM) | | WEIGHT | LOSS VALUES FOR S10 | SERIAL TRANSFORMER | IMP |
|----------------------|------|----------|------------|------|--------|---------------------|-----------------------|-----|
| | Α | В | С | D | KG | NO LOAD LOSS (KW) | LOAD LOSS (75°C) (KW) | |
| 100 | 1100 | 600 | 1100 | 520 | 700 | 0.45 | 1.2 | 4 |
| 160 | 1200 | 600 | 1200 | 520 | 850 | 0.50 | 1.8 | 4 |
| 200 | 1200 | 600 | 1250 | 520 | 1000 | 0.62 | 2.1 | 4 |
| 250 | 1250 | 600 | 1400 | 520 | 1100 | 0.68 | 2.7 | 4 |
| 315 | 1300 | 750 | 1400 | 670 | 1200 | 0.75 | 3.4 | 4.5 |
| 400 | 1300 | 750 | 1500 | 670 | 1400 | 0.85 | 4.3 | 4.5 |
| 500 | 1350 | 750 | 1550 | 670 | 1500 | 1 | 5.3 | 6 |
| 630 | 1450 | 850 | 1600 | 670 | 1900 | 1.06 | 6.3 | 6 |
| 800 | 1500 | 850 | 1750 | 670 | 2100 | 1.25 | 7.5 | 6 |
| 1000 | 1600 | 1000 | 1850 | 820 | 2700 | 1.5 | 9.1 | 6 |
| 1250 | 1700 | 1000 | 2100 | 820 | 3200 | 1.8 | 11 | 6.5 |
| 1600 | 1800 | 1000 | 2200 | 820 | 3700 | 2.15 | 13.5 | 6.5 |
| 2000 | 1900 | 1300 | 2400 | 1070 | 4700 | 2.45 | 16 | 6.5 |
| 2500 | 2000 | 1300 | 2500 | 1070 | 5500 | 2.9 | 19 | 6.5 |



ELECTRICAL SPECIFICATION

TYPE NO: 1

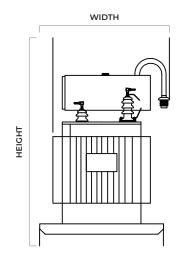
| Rated | l Power | (KVA) | 50 | 100 | 150 | 200 | 250 | 315 | 400 | 500 | 630 | 750 | 1000 | 1250 | 1500 | 2000 | 2500 | 3000 |
|--------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Model No. | | | | | | | | | | | | | | | | | | |
| NO Lo | oad Loss | (W) | 200 | 350 | 450 | 550 | 600 | 700 | 800 | 900 | 1050 | 1150 | 1300 | 1500 | 1800 | 2100 | 2500 | 2800 |
| Load | Loss | (W) | 1200 | 1800 | 2700 | 3500 | 4200 | 5000 | 6500 | 7500 | 9500 | 11000 | 12500 | 15000 | 18500 | 21000 | 26000 | 29000 |
| %lmp | Volt at 75°C | (%) | 4 | 4 | 4 | 4 | 4 | 4.5 | 4.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 6 | 6 | 6.5 | 6.5 |
| Regul | lation at P.F= 1 | (%) | 2.4 | 1.8 | 1.8 | 1.75 | 1.68 | 1.59 | 1.625 | 1.5 | 1.51 | 1.47 | 1.25 | 1.2 | 1.23 | 1.05 | 1.04 | 0.96 |
| Regul | lation at P.F=0.8 | (%) | 3.85 | 3.60 | 3.60 | 3.57 | 3.88 | 3.83 | 3.84 | 4.3 | 4.43 | 4.41 | 4.27 | 4.23 | 4.59 | 4.47 | 4.78 | 4.73 |
| P.F= 1 | At Load 100% | (%) | 97.28 | 97.90 | 97.94 | 98.02 | 98.12 | 98.22 | 98.21 | 98.35 | 98.35 | 98.61 | 98.64 | 98.70 | 98.66 | 98.86 | 98.87 | 98.95 |
| at | At Load 75% | (%) | 97.72 | 98.22 | 98.28 | 98.35 | 98.44 | 98.54 | 98.54 | 98.65 | 98.66 | 98.88 | 98.90 | 98.95 | 98.93 | 99.08 | 99.09 | 99.16 |
| Efficiency | At Load 50% | (%) | 98.04 | 98.43 | 98.52 | 98.60 | 98.70 | 98.78 | 98.80 | 98.90 | 98.92 | 99.09 | 99.12 | 99.17 | 99.15 | 99.27 | 99.29 | 99.33 |
| Effic | At Load 25% | (%) | 98.02 | 98.35 | 98.51 | 98.60 | 98.73 | 98.81 | 98.87 | 98.97 | 99.02 | 99.17 | 99.20 | 99.25 | 99.24 | 99.34 | 99.36 | 99.41 |
| = 0.8 | At Load 100% | (%) | 96.62 | 97.38 | 97.44 | 97.53 | 97.66 | 97.79 | 97.77 | 97.94 | 97.95 | 98.27 | 98.30 | 98.38 | 98.34 | 98.58 | 98.60 | 98.69 |
| at P.F= | At Load 75% | (%) | 97.17 | 97.78 | 97.86 | 97.94 | 98.06 | 98.18 | 98.18 | 98.32 | 98.34 | 98.60 | 98.63 | 98.69 | 98.66 | 98.85 | 98.87 | 98.95 |
| Efficiency a | At Load 50% | (%) | 97.56 | 98.04 | 98.16 | 98.24 | 98.38 | 98.48 | 98.51 | 98.63 | 98.66 | 98.87 | 98.72 | 98.96 | 98.94 | 99.09 | 99.11 | 99.17 |
| Effici | At Load 25% | (%) | 97.32 | 97.74 | 97.98 | 98.11 | 98.30 | 98.42 | 98.51 | 98.65 | 98.71 | 98.92 | 98.92 | 99.03 | 99.02 | 99.15 | 99.18 | 99.24 |

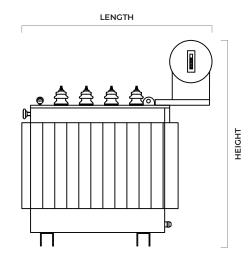
TYPE NO: 2 11/0.415 KV, 3 PHASE, 50 HZ

| Rated | Power | (KVA) | 50 | 100 | 150 | 200 | 250 | 315 | 400 | 500 | 630 | 750 | 800 | 1000 | 1250 | 1500 | 2000 | 2500 | 3000 |
|------------|-------------------|-----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Model No. | | I for PNN | I 50IU | I 100IU | I 150IU | I 200IU | I 250IU | I 315IU | I 400IU | I 500IU | I 630IU | I 750IU | I 800IU | I 1000IU | I 1250IU | I 1500IU | I 2000IU | I 2500IU | I 3000IU |
| NO Lo | oad Loss | (W) | 153 | 234 | 330 | 360 | 450 | 540 | 630 | 720 | 900 | 945 | 990 | 1170 | 1350 | 1620 | 1845 | 2250 | 2880 |
| Load | Loss at 75°C | (W) | 810 | 1350 | 1800 | 2520 | 2610 | 2970 | 3330 | 4230 | 5400 | 6300 | 6500 | 8100 | 9450 | 11700 | 13500 | 17100 | 24300 |
| %lmp | Volt at 75°C | (%) | 4 | 4 | 4 | 4 | 4 | 4.5 | 4.5 | 4.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Regu | lation at P.F=1 | (%) | 1.75 | 1.41 | 1.3 | 1.10 | 1.08 | 1.04 | 0.987 | 0.941 | 0.987 | 0.9 | 1.03 | 1.00 | 0.98 | 0.95 | 0.93 | 0.90 | 0.83 |
| Regu | lation at P.F=0.8 | (%) | 3.54 | 3.36 | 3.29 | 3.17 | 3.16 | 3.41 | 3.37 | 3.34 | 4.2364 | 4.27 | 4.33 | 4.31 | 4.30 | 4.28 | 4.26 | 4.24 | 4.23 |
| Ξ | At Load 100% | (%) | 98.00 | 98.42 | 98.6 | 98.79 | 98.81 | 98.89 | 98.95 | 99.00 | 99.05 | 99.04 | 99.03 | 99.06 | 99.09 | 99.12 | 99.15 | 99.19 | 99.09 |
| at P.F= | At Load 75% | (%) | 98.31 | 98.68 | 98.82 | 98.98 | 99.00 | 99.06 | 99.12 | 99.16 | 99.20 | 99.21 | 99.20 | 99.23 | 99.25 | 99.26 | 99.31 | 99.34 | 99.26 |
| Efficiency | At Load 50% | (%) | 98.52 | 98.85 | 98.98 | 99.11 | 99.13 | 99.29 | 99.23 | 99.27 | 99.31 | 99.34 | 99.33 | 99.35 | 99.38 | 99.40 | 99.43 | 99.46 | 99.04 |
| Effic | At Load 25% | (%) | 98.30 | 98.71 | 98.83 | 98.98 | 99.02 | 99.08 | 99.13 | 99.17 | 99.22 | 99.31 | 99.29 | 99.32 | 99.36 | 99.39 | 99.42 | 99.46 | 99.41 |
| = 0.8 | At Load 100% | (%) | 97.50 | 98.03 | 98.26 | 98.48 | 98.51 | 98.61 | 98.68 | 98.75 | 99.81 | 98.8 | 98.78 | 98.83 | 98.86 | 98.90 | 98.94 | 98.99 | 98.87 |
| at P.F | At Load 75% | (%) | 97.89 | 98.34 | 98.53 | 98.72 | 98.75 | 98.83 | 98.98 | 99.95 | 99.00 | 99.01 | 99.00 | 99.03 | 99.07 | 99.10 | 99.13 | 99.17 | 98.08 |
| | At Load 50% | (%) | 98.15 | 98.56 | 98.72 | 98.88 | 98.91 | 98.96 | 99.04 | 98.09 | 99.13 | 99.18 | 99.16 | 98.19 | 99.23 | 99.25 | 99.29 | 99.32 | 99.25 |
| Efficiency | At Load 25% | (%) | 97.88 | 98.38 | 98.55 | 98.73 | 98.77 | 98.85 | 98.91 | 98.97 | 99.02 | 99.14 | 99.12 | 99.15 | 99.21 | 99.24 | 99.28 | 99.32 | 99.26 |



TRANSFORMER DIMENSSION

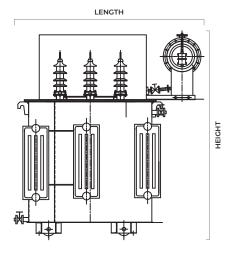


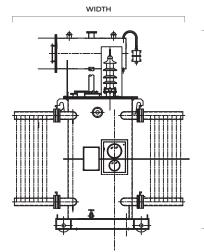




PHYSICAL DIMENSIONS: CORRUGATED RADIATOR

| RATING (KVA) | 50 | 100 | 150 | 200 | 250 | 315 | 400 | 500 | 630 | 750 | 800 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|
| WEIGHT (KG) | 450 | 600 | 760 | 1000 | 1150 | 1420 | 1460 | 1795 | 2200 | 2400 | 2800 |
| HEIGHT (MM) | 1200 | 1300 | 1400 | 1480 | 1500 | 1550 | 1550 | 1680 | 1770 | 1900 | 2000 |
| WIDTH (MM) | 650 | 700 | 750 | 750 | 750 | 750 | 800 | 800 | 850 | 900 | 950 |
| LENGTH (MM) | 1150 | 1270 | 1300 | 1450 | 1490 | 1550 | 1650 | 1680 | 1800 | 1900 | 1900 |





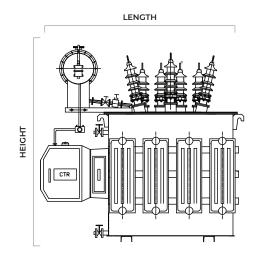


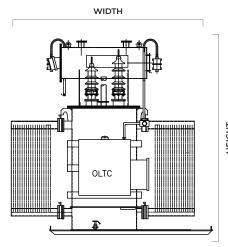
PHYSICAL DIMENSIONS: PRESSED STEEL RADIATOR

| RATING (KVA) | 1000 | 1250 | 1500 | 2000 | 2500 | 3000 | 4000 |
|--------------|------|------|------|------|------|------|-------|
| WEIGHT (KG) | 3400 | 4100 | 5050 | 6400 | 7500 | 8000 | 10000 |
| HEIGHT (MM) | 2100 | 2300 | 2500 | 2625 | 2800 | 3100 | 3100 |
| WIDTH (MM) | 2000 | 2350 | 2490 | 2600 | 2800 | 2850 | 3000 |
| LENGTH (MM) | 1900 | 2250 | 2400 | 2500 | 2550 | 2750 | 2900 |



POWER TRANSFORMER WITH OLTC







PHYSICAL DIMENSIONS: 33/11KV OLTC TRANSFORMER

| RATING (MVA) | LENGTH (MM) | WIDTH (MM) | HEIGHT (MM) | WEIGHT (TON) | REMARKS |
|----------------|-------------|------------|-------------|--------------|---------------|
| 5 MVA | 3450 | 3200 | 3300 | 12.3 | with CTR OLTC |
| 6.5 MVA | 3700 | 3200 | 3500 | 15.5 | with CTR OLTC |
| 7.5 MVA | 3700 | 3500 | 3600 | 18.0 | with CTR OLTC |
| 10 MVA | 4360 | 3700 | 3800 | 21.0 | with CTR OLTC |
| 12.5 MVA | 4500 | 3700 | 4000 | 23.5 | with CTR OLTC |
| 15 MVA | 4500 | 3800 | 4300 | 25.0 | with CTR OLTC |
| 20/28 MVA | 4200 | 3200 | 4200 | 40.0 | with CTR OLTC |
| 50 MVA (132KV) | 7310 | 5400 | 6500 | 65.0 | with CTR OLTC |

Our Power Transformers with On-Load Tap Changer (OLTC) ensure seamless voltage regulation, delivering interrupted power to substations, industrial plants, and utility networks. Designed for high efficiency and rability, these transformers guarantee superior performance in demanding conditions.

Key Features & Benefits

Precision Voltage Control - Maintains stable power distribution under varying loads. High Efficiency & Low Losses - Optimized for energy savings and long-term performance.

Robust & Durable Design – Engineered to withstand extreme operational conditions. Tested & Certified - Rigorously type and routine tested, meeting IEC and ANSI standards for quality and safety.

With cutting-edge technology and strict quality control, our OLTC transformers provide a dependable, high-performance solution for modern power systems. Power up with confidence!



AUTOMATIC VOLTAGE REGULATOR:

This comprises basically the following major components.

- · Rolling contact type voltage regulator.
- · Buck/boost transformer.
- · Automatic control gear comprising driver motor and electronics voltage sensing relay.

The variable input is boosted up or bucked down incessantly to the required level through the series winding of the buck/boost transformer. Application of the Automatic Voltage Regulator are voltage control, providing stable voltage to pump motors thereby maintaining proper output and increasing efficiency, providing stable voltage to cold storages, providing stable voltage to tea processing machinery, computers, defence equipment, electronics components processing etc



ADVANTAGE

- Saving in energy.
- Constant voltage output with accuracy ±1%.
- · Lesser failure of electrical equipment.
- · Improvement in power factor and reduction in MDI.
- · Less production loss & better efficiency in plant.
- · Better utilization of existing transformers and cables.

COMPACT SUB-STATION (CSS):

POWERtrac is also offering Compact Substation in a single cabinet (RMU, HT Switchgear, Transformer, LT, PFI, DB, MDB).

- · Moveable Sub-station.
- Indoor & outdoor installation facilities.
- · Doesn't require any structure.
- · Plug & play type.
- · Fully interlocked.
- Compartment doors with natural vantilation.
- · Lifting by frocklift or crane possible.
- IP22D for transformer compartment.
- IP34D for HV & LV compartment.
- · Low space requirement.
- · Low installation cost.
- Less amount of cable required.



250kV Compact Sub-station (Karnafuli Tunnel)





TRANSFORMER ROUTINE TEST:

- · Measurement of Insulation Resistance
- · Measurement of Voltage Ratio
- Measurement of Vector Group Test
- · Measurement of Winding Resistance
- Measurement of No Load Loss & No load current
- · Measurement of Full Load Loss
- Percentage of impedance Voltage.
- Power Frequency Withstand test
- Induced Over Voltage Test.
- Dielectric Strength of Oil
- Temp Rise test (heat Run test optional)
- Test on OLTC
- Magnetic Balance Test
- · Testing on Protective Accessories Like B.relay,PRV, O.T.I, W.T.I
- · Vaccum leak test on Radiator & Tank
- OLTC Controller









Meggar MIT1025



MTO210 Winding Resistance Test Set







DILO SF6 Multi-Analyzer



Resistance Meter

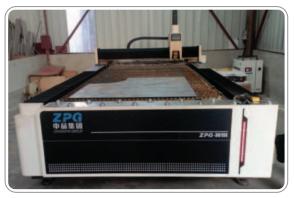
Digital Iron Loss Tester



LIST OF MECHANICAL & ALLIED EQUIPMENT

| S.N | ITEM | QTY |
|-----|---------------------------------------|--------|
| 1 | Core Sliting Machine (CNC) | 1 SET |
| 2 | Core Cutting Machine (cut to length) | 3 |
| 3 | Laser Cutting | 2 |
| 4 | Fork Lift | 2 |
| 5 | Main Crane | 20 TON |
| 6 | V-notch Machine | 2 |
| 7 | Core Cutting Machine | 4 |
| 8 | Core Cutting Machine (cut to length) | 3 |
| 9 | DVDF Test Machine | 1 |
| 10 | DPC Machine | 2 |
| 11 | Paddle Shearing Machine | 4 |
| 12 | V-notch Shearing Machine | 2 |
| 13 | Electric Blower M/C (Big) | 1 |
| 14 | Electric Blower M/C (Small) | 1 |
| 15 | Hand Ball Press M/C | 1 |
| 16 | Hand Drill M/C | 1 |
| 17 | Hand Grinding M/C-4" | 3 |
| 18 | Hand Grinding M/C-7" | 1 |
| 19 | Hit Gun M/C | 2 |
| 20 | Hydraulic Press M/C | 2 |
| 21 | Power Press M/C 200 | 1 |

| S.N | ITEM | QTY |
|-----|----------------------------------|-----|
| 22 | Power Press M/C 80 mton | 2 |
| 23 | Power Press M/C 150 mton | 1 |
| 24 | Power Press M/C 40 mton | 2 |
| 25 | Hydraulic Trolly | 5 |
| 26 | Lathe Machine 6'ft | 2 |
| 27 | Lathe Machine 8'ft | 1 |
| 28 | LT Winding Machine (upto 28 MVA) | 3 |
| 29 | Paddle Shearing M/C | 11 |
| 30 | Hydraulic Shearing Machine | 1 |
| 31 | Power Hacksaw Shearing M/C | 1 |
| 32 | Power Shearing M/C | 1 |
| 33 | Spot Welding Machine | 4 |
| 34 | Compressor | 2 |
| 35 | Welding Machine (MIG) | 3 |
| 36 | Busbar Processing Machine | 3 |
| 37 | Welding Machine (Seam Welding) | 1 |
| 38 | MS Sheet Cutting | 2 |
| 39 | MS Sheet Cutting | 1 |
| 40 | Bending Machine | 2 |
| 41 | Hydraulic Bending Machine | 1 |
| 42 | Arc Welding M/C | 2 |



Laser Machine





Core Slitting Machine





Dry-Type V.P.I Transformer

Vaccum Impregnated Dry-Type Transformer

- · Good insulation performance and mechanical strength.
- · Both coils are repairable.
- Nomex insulation.
- Temperature tolerance up to 150°C.
- · Flexible gasket for inrush current.
- · Better heat dissipation.

Furnace Transformer

This is a 6.3 MVA furnace transformer with a primary voltage of 33 kV and a secondary voltage of 570 V, designed and supplied for BSRM.

- · Transformer with 4 windings in one limb.
- · LT winding, tertiary winding (one turn), and two HT windings.
- · LT winding divided into two parts:
 - i) One part with star connection.
 - ii) Another part with delta connection to minimize harmonics.



6.3 MVA 33kV/570V Furnace Transformer



500 kVA, 415V/390V Isolation Transformer

Isolation Transformer

- · Isolates electrical devices from the power source.
- · Protects users and sensitive equipment from power surges, spikes, and faults in the main power source.

Application

- · Medical equipment.
- Audio equipment.
- · Industrial control systems.
- · Laboratories.

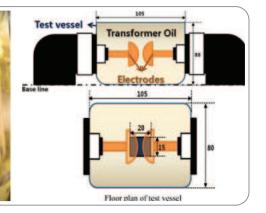


PERIODIC MAINTENANCE SCHEDULE

| NO | PIECES TO SURVEY | PERIODICITY | OBSERVATIONS |
|----|--------------------------------------|---------------------|--|
| 01 | Thermometer | Once per year | |
| 02 | Accessory with alarm & contact | Once per year | Verify the operation condition once in a week. |
| 03 | Oil's breakdown value | Once per year | |
| 04 | Oil level | Once per month | |
| 05 | Oil leak | Once per Month | |
| 06 | Silica gel breather | Once per Month | Gel to be recharged by heating in dry air |
| 07 | Bushing | Once per year | |
| 80 | Insulation resistance | Once per half year | |
| 09 | Cable | Once per year | |
| 10 | Cooling Fan (if any) | Once per year | |
| 11 | OLTC oil-BDV checking (if any) | Depends on rotation | See OLTC Manual |
| 12 | OLTC oil | Depends on rotation | See OLTC Manual |
| 13 | Transformer oil-BDV checking | Once per 3 year | Centrifuging required |
| 14 | Transformer oil | Once per 5 year | If BDV decreased to below 20kV- Total change |
| 15 | HT LT gasket | Once per 3 year | Change |
| 16 | Top cover gasket | Once per 3 year | Change |
| 17 | Conservator | Once in 5 year | |
| 18 | Verify the alarm/tip signal checking | Once per year | |
| 19 | Tightness of nuts & bolts | Once per year | |







Transformer Maintenance

Transformer Oil Analysis



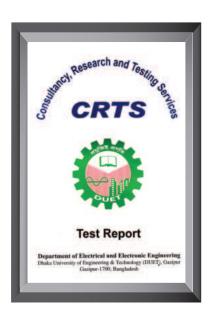
CERTIFICATIONS







ISO-14001:2015



DUET TEST-10/12.5MVA



MIST TEST-11/0.415KV



CPRI TEST-200 KVA



CPRI TEST-250 KVA

At POWERtrac, we ensure high-quality, reliable, and safe transformers that meet stringent industry standards. Our ISO-certified manufacturing follows strict quality management, while compliance with IEC and ANSI standards guarantees performance and safety. Every unit undergoes type and routine testing for durability, and we prioritize environmental and safety standards for energy efficiency. Our certifications reflect our commitment to excellence and industry-leading quality.





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POWERtrac Concerns







