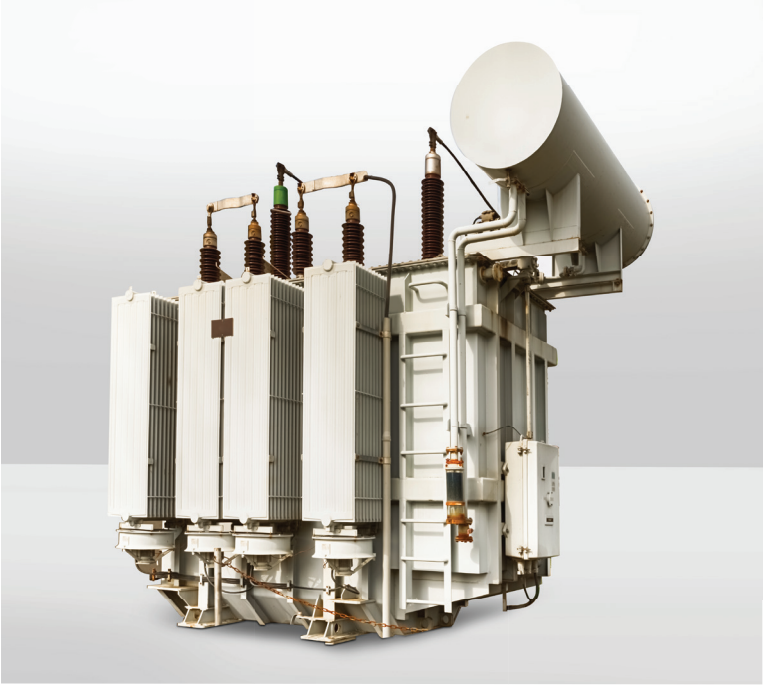
EXTRA HIGH VOLTAGE
TRANSFORMER

STANDARD FITTINGS

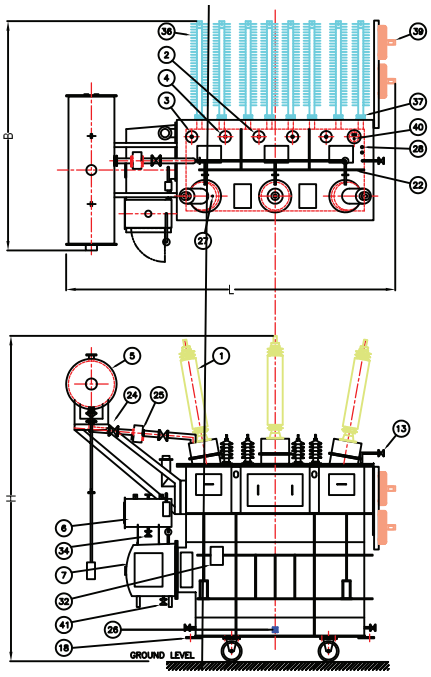
- H.V Bushing / L.V Bushing
- Conservator with oil filling hole
- Rollers (Plain / Flange)
- Earthing terminal pads
- Drain with bottom filter valve
- Top filter valve with sampling plug
- Shut off valve
- Plain oil level gauge
- Rating diagram plate
- Terminal Marking Plate
- Air release device
- Thermometer Pocket
- Lifting lugs
- Pressed Steel Radiators (Detachable)
- Double Diagram Explosion Vent
- Equaliser pipe between
- Silica Gel Breather
- Additional Neutral Bushing
- First filling of oil
- Isolating valves for radiator
- Jacking Pads
- Dial type OTI with A/T contacts
- Dial type WTI with A/T contacts
- Marshalling Box with control wiring
- Buchholz relay with A/T contacts
- Magnetic Oil Gauge with A/T contacts
- Skid under base
- Inspection Cover
- On Load Tap Changer / Off Circuit Tap Changer
- RTCC Panel with automatic voltage regulator (AVR)

TECHNICAL SPECIFICATIONS

Duty, Type	Outdoor / Indoor
Voltage Class	66, 100, 110, 132, 220 kV or any specific
No of Phases	3 Phase
Frequency	50/60 Hz
Vector Group	Dyn5 or Dyn11 or YNyn0 any specific
Insulating Fluid	PCB FREE Mineral Oil, both inhibited & uninhibited, as per IS / IEC, ASTM D3487
Class of Insulation	Class A
Tap Changer	Off Circuit or On load tap Changer
Tapping Range	±2.5% x 2 for OCTC or +1.25% x 4 & -1.25% x 8 for OLTC or as per customer requirement
Winding Material	Copper with multi paper covering
Applicable Standards	IS 2026, IEC 60076, ANSI, IEEE
Painting	Epoxy, Polyurethane or customer specific



PRODUCT DIAGRAM



GENERAL DETAILS

We manufacture both on load & off circuit tap switch type EHV transformer. EHV transformer have voltage class 66KV or above. These transformer are generally used for stepping down voltage from transmission line. EHV transformer generally have force cooling & on load tap changer. Following are the dimension, oil quantity & weight details along with standard & low losses for 66kV & 132kV EHV power transformer with On Load Tap Changer having ONAN /ONAF Cooling.

STANDARD TRANSFORMER WITH OLTC

SR.	RATING	OVERALL DIMENSIONS (MM)			LOSSES (W)			OIL QTY.	TOTAL WT.
NO.	(MVA)	LENGTH (L)	BREADTH (B)	HEIGHT (H)	NO LOAD	LOAD	%	(LTRS)	(KGS)
1	10/12.5	5100	3900	4100	9	60	10	8300	24000
2	12.5/16	5800	4500	4400	11.5	70	10	8400	28000
3	16/20	7000	4900	4750	13	85	10	13000	34000
4	20/25	7500	5000	5200	16	100	10	14000	42000
5	25/31.5	8000	5100	5750	20	120	10	20000	52000
6	32/40	8400	5650	6000	25	150	12.5	21000	63000
7	40/50	8600	5750	6150	31.5	185	12.5	22000	70000

LOW LOSS TRANSFORMER WITH OLTC

1	10/12.5	5300	4100	4300	7	40	10	9130	26400
2	12.5/16	6000	4700	4600	9.5	48	10	9240	30800
3	16/20	7200	5100	4950	11.5	60	10	14000	36550
4	20/25	8000	5200	5400	14	76	10	15050	45150
5	25/31.5	8300	5400	5950	18	92	10	21000	54600
6	32/40	8700	5950	6200	21	120	12.5	22050	66150
7	40/50	8900	6050	6450	25	150	12.5	23100	73500

**Dimensions and weight & Losses may vary for any specific or special requirement.*

OPTIONAL FITTINGS

- Pressure Release Valve
- Air cell bag
- Scada Compatible OTI & WTI
- Annunciator in RTCC panel
- Force cooling arrangement with fan cubical
- Anti vibration pads
- Fire fighting process
- RTD for oil & winding
- Nitrogen purging system

ASSURED FEATURES

- Highest Dielectric insulation property to withstand Lightning impulse.
- Step lap designed CRGO laminations for lower losses & excitation current.
- Pre heating of coils under vaccum as to achieve desired compression height & max shrinking of coils.
- Premali wood clamping rings for uniform compression of primary & secondary winding.
- Coil clamping screws for sustaining high mechanical strength due to short circuit forces.
- Adequate ducts between layers, coils, discs for max oil flow & reduced hot spot temperature.