



GEW TRAFOTECH PVT. LTD.

First Electrics

... the first revolution in transformers

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MARKETING DISTRIBUTORS



Brand transformers Manufactured by GEW *Trafotech* Pvt. Ltd., Allahabad



Brand life extension devices for transformers

RANGE

Distribution transformers up-to 3 MVA 11 & 33 KV class Power transformers up-to 60 MVA 132 KV class

Maintenance-free liquid immersed transformers

(No oil filtration/ No silica-gel maintenance / No winding tightening after 10yrs)

Fire safe liquid immersed transformers Solar/ Wind-power transformers Induction furnace transformers Converter duty transformers Arc furnace transformers Dual ratio transformers Generator transformers Isolation transformers Rectifier transformers Earthing transformers Traction transformers Booster transformers Zig-zag transformers



Salient Features of "Maintenance-free" Transformers

Manufactured by using patented* technology

- Provided with On-line oil purifiers, which keep the transformers dry to a moisture level < 15 PPM in oil & < 1% by DWOI. Not only moisture, acidity is also controlled and maintained at a low value
- Silica-gel breathers not required. Sealed Breathing System keep transformer 100% isolated from atmosphere, hence preventing moisture entry
- Provided with Sealed Breathing System which need no maintenance
- Tightening of windings not required. Auto tightening system provided, preventing the need of opening the transformer after 10 yrs., as per norms
- Alarm for winding dis-location. Save transformer before the damage happens.
- Magnetic circuit (Core) earth brought out & tested for 5 KV in place of 2 KV (as stated in IS 2026)

- Tap switch placed outside the main tank, so in the rare event of damage of tap switch, the main transformer and main oil remain un-affected of tap switch contamination
- On-load tap changers can be provided with Sealed breathing systems with escape route for gases developed during tap change (first time in the world)
- OLTCs can be provided with On-line oil purifiers
- A perfect scheme to extend life of OLTC to more than double the operations without an overhaul, is available
- Special features provided
 - Residual drain plug provided to empty the transformer to last drop, if required
 - jacking screws provided for easy opening of covers without struggle
 - Tested for C & Tan delta









:: Vector group





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GTP of Distribution transformers

3 Ph 50 Hz ONAN Cu wound Dist. Transformers 11000/433 Volts with Off circuit tap changer Dyn11 ONAN

Rating	100	160	200	250	315	400	500	630	750	1000	1250	1600	2000	2500	3000
No load loss	250	350	450	540	600	700	850	950	1000	1650	2150	2900	2900	2900	3200
Load loss	2100	3050	3900	4250	4950	6400	7650	8400	1040 0	11200	1430 0	1790 0	1800 0	2580 0	31000
% Imp	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	5 %	5 %	5 %	6.25%	6.25%	6.25%	6.25%	6.25%

Tolerance as per IS applicable

NOTE: ALL GT TRANSFORMERS DO NOT REQUIRE FOLLOWING *						
Replacement of silica-gel in breathers Transformers are provided with "Sealed Breathing System" Transformer remains						
NOT REQUIRED	100% isolated from open atmosphere/ allowing breathing but dis-allowing air contact.					
Oil filtration for 15 Years NOT REQUIRED Transformers are provided with in-built Oil purifiers						
Winding tightening after 8-10 yrs. Transformers are provided with auto-tightening system inside						
NOT REQUIRED						
OTHER PLUS POINTS						
The weakest point, the off circuit tap switch is not placed in transformer tank but housed in a separate chamber outside main tank.						

so, in the rare event of damage in tap switch, the main transformer oil remains safe/ un-contaminated.

The magnetic circuit earth is brought-out, permitting user to test magnetic circuit without opening the transformer. Moreover, magnetic circuit is tested at 5 KV against 2 KV in other transformers. Clamps are earthed inside the tank.

Transformers are provided with residual drain plugs at bottom facilitating emptying the 100% oil, if needed, unlike other transformers where drain plugs are provided above bottom level, allowing the sludge/bad oil to remain present at bottom of tank. Another weak link, WTI CT, is placed outside the transformer. So, in the rare event of CT damage, the transformer remains unaffected

SPECIAL FEATURE first time in world: OLTCs are provided with Sealed Breathing System!!! Air never comes in contact with OLTC oil and gases produced have an escape route.

*Subject to terms of operation mentioned in the manual

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Accessories

Up-to 400 KVA Transformer	Transformers 500 KVA and above				
Radiators or Fins	Radiators or Fins				
Off circuit tap switch	Off circuit tap switch				
Silica-gel Breather	Silica-gel Breather				
Thermometer pocket with 100mm Dial type temp. gauge	Marshalling box with 150mm OTI & WTI				
Drain valve/ Filter valve	Drain valve/ Filter valve				
Plain rollers – 4 nos.	Plain rollers – 4 nos.				
Plain oil level indicator	Plain oil level indicator				
Lifting lugs / Earth terminals- 2 nos.	Lifting lugs / Earth terminals- 2 nos.				
Air release plug	Buchholz Relay / Air release plug				
Rating and diagram plate	Rating and diagram plate				
Note: Cable lugs/ Glands/ extended bus bars etc are not in our scope of supply.					
• Figures indicated are approximate and may change without prior notice					







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