

VICAR ELECTRICALS LTD.

Electrical Transformer Manufacturer.



Our Prime Assurance To Our Clients Is
"Quality With Commitment"



About Us

Vicar Electricals Ltd. is a leading company in manufacturing highest quality electrical Transformers. Product Range- from 5 KVA up to 10 MVA within 36 KV Voltage-Class. We use the latest designs, material and technologies to manufacture high quality & Low-loss, energy efficient Transformers, while achieving the lowest cost possible for Customers. With a team of over 400 technicians and engineers, we ensure that our customers experience is delightful as we entrench ourselves completely in customers project achieving product quality as per customer specification, timely deliveries and support for installation, commissioning and services.

Transformers manufactured by us are used across local citizen, industries for Urban and Rural electrification, High-Voltage Distribution systems, Commercial complexes, etc. All product are duly Type tested and accordance to all standards like- IEC, BSTI, ANSI.

*Manufacturing plant of Vicar Electricals Ltd. is located in **Village: Lohagas, Ward # 03, P.S. # Sreepur, Dist: Gazipur, Bangladesh.***

Our factory quality standards are certified ISO 9001:2015 by ITCC International Ltd.

Current Transformer (CT) and Potential Transformer (PT)

Vicar Electricals Ltd. is a modern enterprise engaged in the transmission and distribution equipment and transformer series production situated in Sreepur, Gazipur. Vicar Electricals Ltd. makes Current Transformer and Potential Transformer for 11 KV and 33 KV Line. A Complete Set of machinery and equipment for manufacturing and testing of Current Transformer are imported from Canada, USA, China, India. To ensure the quality of transformers, Vicar Electricals Ltd. has a highly qualified control team who test all accessories during manufacturing period. Also Vicar Electricals Ltd. has full facilities to test transformers as per ANSI/IEC standard in their own laboratory.

Vicar Electricals Ltd. has tested their transformers in internationally recognized testing laboratory to ensure their product quality. Full type test has been done on each rating of Current Transformer and Potential Transformer to confirm the excellence of transformer and the type test has been done in an internationally accredited testing laboratory in China. Vicar Electricals Ltd. regularly does full routine tests on each and every Current Transformer and Potential Transformer under experts' supervision.

CT Technical Specification

Standard	ANSI C57.13
Type	Outdoor, Dry type, Epoxy Resin casted
Phase	Single Phase
Voltage Rating	15 KV ~34.5KV
Frequency	50 Hz
BIL	110 KV~ 200 KV
Class	0.3
Burden	B-0.1,B-0.2, B-0.5, B-0.9
Rating Factor	3 ~2
Ratio	50/100:5A,15/30:5A,150/300:5A,100/200:5A

**The specification can be modified as per requirement of customer.*



Current Transformer (CT)

PT Technical Specification

Standard	ANSI C57.13
Type	Outdoor, Dry type, Epoxy Resin casted
Phase	Single Phase
Voltage Rating	15 KV ~34.5KV
Frequency	50 Hz
BIL	110 KV~ 200 KV
Class	0.3
Burden	0~75VA
PT Ratio	6.35KV/240V, 33KV/240V,33/√3KV:240V
No. of Bushing	Single/Double

**The specification can be modified as per requirement of customer.*



Potential Transformer (PT)

Single Phase Distribution Transformer

Vicar Electricals Ltd. is a modern enterprise engaged in the transmission and distribution equipment and transformer series production situated in Sreepur, Gazipur. Vicar Electricals Ltd. makes Single Phase Distribution Transformers from 5KVA to 167.5 KVA. A Complete Set of machinery & equipment for manufacturing and testing of Single Phase, Wound core Distribution transformer are imported from Canada, USA, China, India. To ensure the quality of transformers, Vicar Electricals Ltd. has a highly qualified control team who test the coils, core, tanks and all accessories during manufacturing period and also Vicar Electricals Ltd. has full facilities to test transformers as per ANSI/IEC standard in their own laboratory.

Vicar Electricals Ltd. has tested their transformers in internationally recognized testing laboratory to ensure their product quality. Full type test (Short circuit test, lightning impulse test, temperature rise test, etc.) has been done on each KVA rating of transformer to confirm the excellence of transformer and the type test has been done in an internationally accredited testing laboratory in China. Vicar Electricals Ltd. regularly does following tests on each and every transformer under expects supervision: full routine test: measurement of winding resistance, measurement of voltage ratio, measurement of No Load and Full Load current and Loss, determination of voltage vector group, determination of percentage impedance, Dielectric test: induced O/V test, power Frequency H/V test, Impulse test, etc.

Technical Specification

Rating of Distribution Transformer	5 KVA to 167.5 KVA
Phase	Single Phase Distribution Transformer
Type	Wound
Standard	ANSI C57.12.00, C57.12.20 & C57.12.90
Voltage Rating	HT:6350V, LT : 240 V
Frequency	50 Hz
Cooling Method	Class – 0A (Self-cooled)
Temperature	For Winding: 65°C For Oil: 65°C
% Impedance	For 5 KVA to 37.5 KVA : 2.5% (WITH + 10% Tolerance) For 50 KVA to 167 KVA : 3% (WITH + 10% Tolerance)
Painting	Light Gray, ANSI Color # 70
CORE	CRGO
COPPER	Copper Strip and Super enamel copper wire made by using 100% pure 8mm copper rod
TANK	Hot Roll Coil/MS Sheet
OIL	Mineral Oil (non-PCB) (ANSI/ASTM D3487-79)



Single Phase Distribution Transformer

**The specification can be modified as per requirement of customer.*

Three Phase Transformer

Vicar Electricals Ltd. is a modern enterprise engaged in the transmission and distribution equipment and transformer series production situated in Sreepur, Gazipur. Vicar Electricals Ltd. makes Three Phase Transformer. A Complete Set of machinery and equipment for manufacturing and testing of Three Phase Transformer are imported from Canada, USA, China, India. To ensure the quality of transformers, Vicar Electricals Ltd. has a highly qualified control team who test all accessories during manufacturing period. Also Vicar Electricals Ltd. has full facilities to test transformers as per ANSI/IEC standard in their own laboratory.

Vicar Electricals Ltd. has tested their transformers in internationally recognized testing laboratory to ensure their product quality. Full type test has been done on each rating of Three Phase Transformer to confirm the excellence of transformer and the type test has been done in an internationally accredited testing laboratory in China. Vicar Electricals Ltd. regularly does full routine test under experts' supervision.

Technical Specification

Design Standard	ANSI/IEC
Type	Three phase wound core/stack core
Power Rating	50KVA~2500KVA
Winding material	High Conductivity Cu
Core type and material	Wound Core and Stack Core, CRGO Silicon Steel
Nominal voltage	HT=11kv Phase To Phase 415V
Cooling Method	ONAN
Percentage Impedance	
Bushing	
a. Type & Material	Outdoor type, Porcelain
b. Connectors	Bolted ring type
c. Quantity	HT=3, LT=4
d. Mounting position	HT & LT-on the tank cover
Tank	
a. Design	Bolted type complete with cover and gasket
b. Grounding Provision	With bolted ring type connector
c. Lifting facilities	Facilities for lifting the core & coil
d. Support lug	Shall have support lugs
e. Pressure relief device	self-sealing pressure relief device
f. Painting	Light Gray, ANSI Color #70
Insulating Oil	New, unused, mineral oil as per IEC/ ASTM standard
Vector Group	dyn11



Three Phase Transformer

**The specification can be modified as per requirement of customer.*

Power Transformer

Vicar Electricals Ltd. is a modern enterprise engaged in the transmission and distribution equipment and transformer series production situated in Sreepur, Gazipur. Vicar Electricals Ltd. makes Three Phase Power Transformer. A Complete Set of machinery and equipment for manufacturing and testing of Power Transformer are imported from Canada, USA, China, India. To ensure the quality of transformers, Vicar Electricals Ltd. has a highly qualified control team who test all accessories during manufacturing period. Also Vicar Electricals Ltd. has full facilities to test transformers as per ANSI/IEC standard in their own laboratory.

Vicar Electricals Ltd. has tested their transformers in internationally recognized testing laboratory to ensure their product quality. Full type test has been done on each rating of Power Transformer to confirm the excellence of transformer and the type test has been done in an internationally accredited testing laboratory in China. Vicar Electricals Ltd. regularly does full routine test under experts' supervision.

Technical Specification

Type	Outdoor Oil immersed Power Transformer
Standard	IEC60076
Rated Power	ONAN/ONAF: 10/14 MVA
Core type	Stack Core, Core type, CRGO Silicon Steel
Overload Capability	In accordance with IEC 603564
Number of Phase	3
Percentage Impedance	8.0% (+10% Tolerance)
Rated Voltage, Phase to Phase	
a) High Voltage Winding	33 KV
b) Low Voltage Winding	11.55 KV
Frequency	50 Hz
Impulse withstand voltage , full wave (Insulation level)	
a) High Voltage Winding	170 KV
b) Low Voltage Winding	75 KV
AC withstand voltage (Insulation level)	
a) High Voltage Winding	70 KV
b) Low Voltage Winding	28 KV
Vector Diagram	Dyn1
Cooling Method	ONAN/ONAF
Tap-Changer	On load Tap changer/Off load Tap Changer
Rated Tap	33 KV
Number of Tap	On load Tap changer: 17 Off load Tap Changer: 5
Insulating Oil	Mineral oil as per IEC-60296



Power Transformer

**The specification can be modified as per requirement of customer.*

BREB Permission

Our Products

“শেখ হাসিনার উদ্যোগ-ঘরে ঘরে বিদ্যুৎ”
বাংলাদেশ পল্লী বিদ্যুতায়ন বোর্ড
এমপিএসএস পরিদপ্তর
জোয়ার সাহারা, বিলক্ষেত, ঢাকা।
E-mail: mpsreb@yahoo.com

স্মারক নং-২৭.১২.০০০০.০১৬.৭৮.০৭৫.১৮. ২৫৭২ তারিখঃ ২৪/১২/২০১৮ ইং।

ব্যবস্থাপনা পরিচালক
ভিকার ইলেকট্রিক্যালস লিমিটেড

বিষয়ঃ স্থানীয় বাজারে বিভিন্ন সাইজের সিঙ্গেল ফেজ বিতরণ ট্রান্সফরমার বিক্রয় প্রসঙ্গে।
সূত্রঃ ২৭.১২.০০০০.০১৬.০৭৫.১৭.২১৭৬ তারিখঃ ১২/১১/১৭ খ্রিঃ

উপর্যুক্ত বিষয় ও সূত্রে বর্ণিত পত্রের প্রেক্ষিতে জানানো যাচ্ছে যে, আপনাদের প্রতিষ্ঠান মেসার্স ভিকার ইলেকট্রিক্যালস লিমিটেডকে বিভিন্ন পবিসের গ্রাহক প্রান্তে ১২.১১.১৭ইং হতে ০১(এক) বছরের জন্য সিঙ্গেল ফেজ বিতরণ ট্রান্সফরমার সাময়িকভাবে বিক্রয়ের অনুমতি প্রদান করা হয়(পত্র সংযুক্ত)। পত্রের শর্তানুযায়ী, ফিল্ড পারফরমাস যাচাই করতঃ স্থায়ীভাবে বিতরণ ট্রান্সফরমার সরবরাহের অনুমতি প্রদানের বিষয়টি উল্লেখ করা হয়। তৎপ্রেক্ষিতে, সিস্টেম অপারেশন পরিদপ্তর কর্তৃক ফিল্ড পারফরমাস যাচাই করে সন্তোষজনক পাওয়ায় মেসার্স ভিকার ইলেকট্রিক্যালস লিমিটেডকে বাপবিবোর স্থানীয় বাজারে বিভিন্ন সাইজের সিঙ্গেল ফেজ বিতরণ ট্রান্সফরমার স্থায়ীভাবে বিক্রয়ের অনুমতি প্রদান করা হলো।

যথাযথ কর্তৃপক্ষের অনুমোদনক্রমে।

(মোঃ শফিকুর রহমান)
পরিচালক

অনুলিপিঃ-(সদয় অবগতির জন্য)
০১। সদস্য(ডিএভও/পিএভিডি), বাপবিবো, ঢাকা।
০২। প্রধান প্রকৌশলী (পওপ/প্রকল্প), বাপবিবো, ঢাকা।
০৩। পরিচালক(এসইএভিডি/সিস্টেম অপারেশন/পবিস মনিটরিং ও ব্যঃ পঃ (কেঃ অঃ/উঃ অঃ/দঃ অঃ/পঃ অঃ)
০৪। জেনারেল ম্যানেজার,.....পবিস।
০৫। একান্ত সচিব, চেয়ারম্যান, বাপবিবো, ঢাকা।

(আঃ লতিফ সরদার)
উপ-পরিচালক

- * Single Phase Distribution Transformer up to 167 KVA
- * Three Phase Transformer Up to 1500 KVA
- * Current Transformer (CT) Up to 11 KV & 33 KVA
- * Potential Transformer Up to 11 KV & 33 KVA
- * Power Transformer Up to 10 KVA
- * LT & HT Switchgear

Vicar Electricals Ltd. certificates:



Vicar Electricals Ltd. Clients:



Contact Information

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OUR PROMISE

We have all the attributes you would expect from a world-class transformer, but what really makes us different is our commitment to building solutions that are smart for life.

Our products are designed and manufactured to meet your needs, with smart innovation delivering quality solutions that go the distance.

We believe the **built smart for life** philosophy represents superior value, and this is our promise to you. Our commitment is made possible by an outstanding team of experts we call **the transformer people**.

YOUR REQUIREMENTS

Our people pride themselves on responsiveness and meeting customer requirements. From a comprehensive range of products, services and support to state of the art manufacturing facilities and compliance, we offer our customers the confidence of working with an organization to meet the requirements of the ISO 9001: 2008

When working with Vicar group You can be assured of a quality outcome.

THE TRANSFORMER PEOPLE

At Vicar Group, we are proud of our team. As a transformer solution specialist, we offer our customers the confidence of highly experienced experts in design, manufacture, test and in-field support.

Our commitment to providing excellent and challenging work environments, and supporting and training our people has led to industry-leading staff retention. This allows the preservation and accumulation of vast experience and in depth understanding.

We can therefore offer our customers a unique partnership with access to the know-how and experience of the Vicar Transformer People.

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