



An ISO 9001:2015 Certified Company

Powertech Transformers & Controls Pvt. Ltd.



VISION OF FUTURE

Power & Distribution Transformers

Power & Distribution Panels

11KV Load Break Switches

Undertake all Turnkey Projects upto 132 KV Substation

Low Losses | High Efficiency | Good Performance
Our Commitment Customer Satisfaction





We would like to introduce ourselves as the Manufacturers & Testing Facilities of 11KV Class, 22KV Class & 33KV Class Power & Distribution Transformers i.e : Oil & Dry Type Transformers, Special Purpose Step up Power Transformers in the Country. Our factory is situated at CIE Gandhinagar near Balanagar at Hyderabad Telangana.

We are certified by (BIS Standards) 1180 Level-I & II, - Oil Cooled Transformers up to 2500 KVA range, as per Bureau of Energy Efficiency Standards (BEE Standards) in 11 KV Class, in 22 KV Class and in 33 KV Class 15 KVA to 12.5 MVA - with Off Circuit Tap Changer and On Load Tap Changer (OLTC).

We have an industry (Unit - II) Manufacturing of Power & Distribution Panels, Bus Duct's, and 11 KV Load Break Switches (LBS). It is approved by CPRI, as per the requirement of the customers.

More than 10,000 Transformers, 1500 11 KV Load Break Switches and 1000 No's of Distribution Panels are in operation with best service at various utilities like H.T and L.T. consumers like Government & Private Sectors, Water Works Department RWS, CPWS, APSIDC, AP Housing Boards, Public Health Departments, Electric Supply Co-operative Societies like Co-op. Electric Supply Society Ltd., Sircilla, Kuppam & Commercial Complexes, Industries, Hotels, Shopping Malls, Software Parks, Hospitals, Engineering Units, Crushers, Granite Industries, Chemical Industries in TS & AP etc.

We have a good team of Engineers, Skilled & Experienced Technocrats to take up any type of Electrical Designs Installation & Erection works as one of Class 'A' Contractors for all voltage i.e. up to 132 KV License holder with the Govt. of Telangana, the license No. A 2-2596 / 1726.

Vision :

To create new benchmarks in the highly demanding and critical areas of Manufacturing Power & Distribution Transformers and allies products and cater to a wide range of customers in the Domestic and International markets.

Quality makes all the difference

Powertech Transformers & Controls Pvt. Ltd. have established their credentials among a wide section of domestic market that includes, State service providers, Government and Private Sectors service providers, several projects both stand alone and turnkey basis with a no-compromise attitude to 'absolute quality'.

The driving force

The Company has a strong R & D Base that complements the manufacturing, quality control and testing facilities that are headed by highly experienced engineers and qualified personnel that ensure high quality control and attention to detail.

The Preferred choice

With a dedicated service network for prompt and effective after sales service, Powertech Transformers & Controls Pvt. Ltd. is the preferred choice of customers and the name that spells 'absolute quality'. All products of Powertech Transformers & Controls Pvt. Ltd. are type tested and conform to IS specifications and IEC Standards.

Advantage Power Tech

- Attention to detail
- Strong accent on absolute quality
- Highly qualified and experienced personnel
- Own state-of-the-art manufacturing facility
- Cost-effective
- Timely delivery module
- Prompt and effective after-sales & service.

Integrated in-house production & testing facilities supplemented by state-of-the-art technologies guarantee reliability and efficiency for all the Indian Markets.

The Winding

Rectangular and round conductors are used for the windings. The conductors are usually insulated with high grade multi paper covering of with an insulating enamel casting. The windings are such as designed so as to ensure reduced axial stress in short circuit conditions and also to withstand impulse and over voltages. Some standard forms of coil windings are spiral, helical, interleaved disc and plain disc. For Distribution Transformers, both low voltage and high voltage windings are disc type, which give highest resistance against short circuits. It is ensured that proper tension is given on the winding for rigidity.

Core-coil Assembly

The “active” part of the Transformer consists of the magnetic core with windings and accessories. The windings are placed over the core limbs and necessary connections are made as per the tapplings and vector groups. Sufficient ducts are provided between the coil to ensure heat dissipation through circulation of oil. Best quality insulation is provided at all joints and gaps. The optimum design of Core Coil Assembly is achieved by considering the required technical particulars, cooling, size compactness and tapping arrangement. All leads and conductor are rigidly supported by special wooden frames.

Drying

The Core-Coil Assembly is placed in the vacuum oven for removal of moisture. After the drying process, the assembly is retightened to take up all shrinkage and then the unit is ready for tanking.

Tank-up

After removing the Core-Coil Assembly from the heating oven, it is thoroughly cleaned by pressurised air and then placed into the tank and bolted up with all necessary accessories. High quality filtered transformer oil is filled in the tank to completely immerse the assembly. Finally, connections of primary and secondary to the terminal. Tanks made of high quality mild steel sheets and plates. State-of-Art welding technology is applied to give immaculated finish and task proof tanks. Cooling is provided by either Pressed Steel type Radiators, which are attached by flange of welded directly onto the body, or by corrugated fin walls. Either types of tanks can be supplied as per customer's requirement, however, corrugated type tank has merits over conventional radiator type tank because of its compact size and aesthetics. Every tank is rigorously tested for any leakage or seepage, air pressure test, fluid test and ultra violet lamp test are conducted on each tank to ensure that no leakage takes place. Continuous efforts in Research and Development result in excellent finish, leakproof and rigid tanks.

The Core

The Prime core of a transformer is the core. PTT uses high quality cold rolled grain oriented magnetic silicon steel to ensure optimum losses and most efficient working of the transformers. The type of magnetic steel is chosen according to the desired loss level. The laminations are cut geometrically to ensure optimum flow of magnetic flux and minimum air gap between the joint of two consecutive sheets. The supporting structures and clamping devices of the core contribute to the compactness of the design and also ensure low sound levels.

Why should you choose us?

Qualified Team – We have a great team of certified technicians and highly qualified electrical engineers.

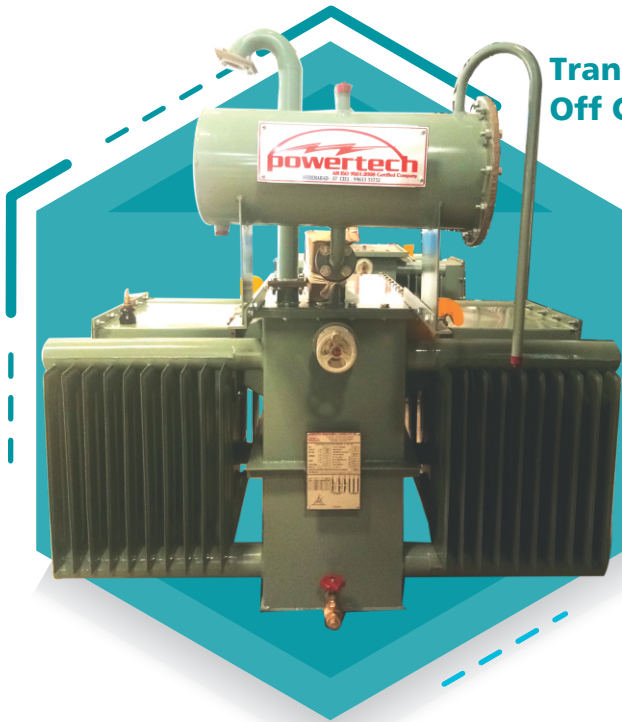
Reliability – We offer our clients a reliable service and after sales & service.

Integrity – At the core of our values is integrity and we wish to be reputed as a responsible company.

Respect – We respect our clients and our employees and trust them.

Powertech Transformers & Controls Pvt. Ltd. cover a wide range Oil Cooled Transformers with Off Circuit Tap Changer / On Load Tap Changer (up to 5000 KVA in 11 KV & 33 KV) conforming to the international standards of quality and safety for industries and commercial set-ups. These transformers are designed and developed using latest technologies and can be provided with a variety of terminations so as to suit the requirements for new installation or replacement.

Optimum efficiency is ensured by delicate proportioning of core and winding losses using CRGO M3 to MOH Lamination, Electrolytic Grade pure copper, with Transposition in L.V. coil for current sharing in parallel Conductors, Electric grade press paper, boards and mineral oil. Thus better regulation is achieved resulting in longer life. Careful designing also reduces noise level to the minimum.



Transformer with Off Circuit Tap Changer



Transformer with OLTC

Standard Fittings (for Oil Cooled Transformers)

- Rating & Diagram plate
- Earthing terminals.
- Lifting lugs
- Thermometer pocket.
- Oil Conservator with drain plug
- Air release hole with plug.
- Oil Level indicator.

Optional Devices (for Oil Cooled Transformers)

- Bucholtz relay with alarm and trip contact.
- Oil temperature indicator with alarm and trip contact.
- Winding temperature indicator with alarm and trip contacts.
- Magnetic oil level gauge with alarm & trip contacts.
- Marshalling box to house O.T.I. and W.T.I.
- RTCC (Remote Tap Changer Control) Cubicle.
- Electronic Automatic Voltage Controller.
- Pressure Release Valve.
- Cable Box on H.T. & L.T. Side.

Standard Specifications

Capacity	Upto 12.50 MVA
No.of Phases	3Phase
Frequency	50Hz.
Voltage Range	11KV / 22KV / 33KV
Tapping	On Load Tap Changer to Provide +5% OR Off Circuit Tap Changer for + 5% Taps in steps of 2.5% each, on HT side.
Insulation	Class'A'
Vector Group	Dyn 11
Duty Cycle	Continuous
Winding	Copper Wound
Terminals	As per required

- Subjected to rigorous and strict quality controls at every stage of manufacturing
- Designed to meet latest national international standards like BIS, IS, IEC, ANSI, BS, DIN, etc.
- Wide range of Transformers duly tested at Central Power Research Institute, Bangalore , Bhopal Quality assurance programme available



Technical Specifications

- Off-circuit tap changer to provide +5% to -5% in steps of 2.5% (or as specified by customer)
- On-load tap changer to provide +5% to -15% in steps of 1.25% (or as specified by customer)

3 Phase, 50 Hz in voltages of 11 KV, 22 KV and 33 KV

Continuous duty

Painting as per IS / IEC standards

Vector group Dyn 11

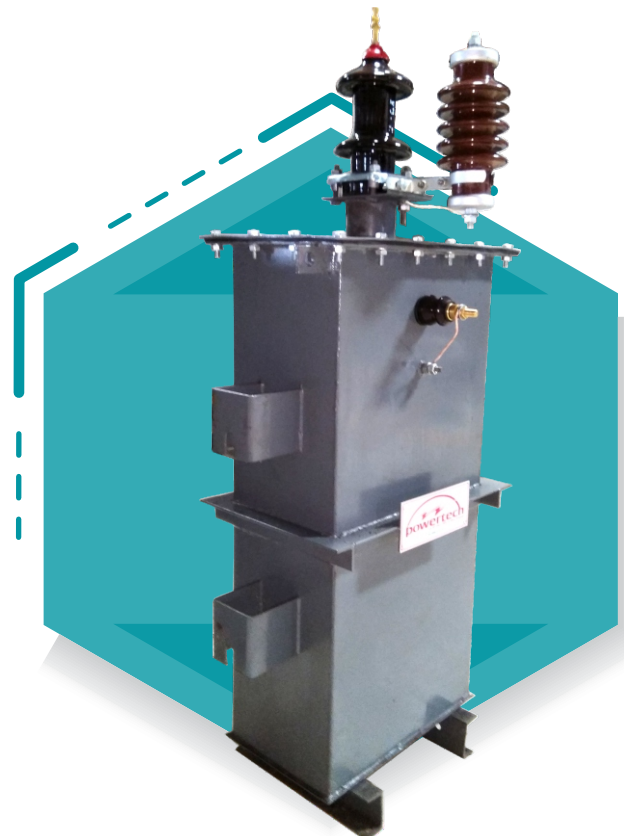
Standard fittings as per IS: 2026/ IEC 76/ BIS 1180

HV side cable box/Bare Bushings

LV side cable box/ bus duct

Salient Features

- Design conforms to BIS 1180 & IS:2026, BS 171, IEC 76 and other relevant standards
- Latest manufacturing techniques to ensure cost effectiveness and reliability
- Very low power losses and low noise
- Optimum utilization of active materials for sleek design
- Withstands electrical impulses, thermal and dynamic stresses



Technical Specification

Rating	:	Three Phase 100 kVA to 1000 kVA
Applicable Standards	:	IS 11171, IEC 726, ANSI.C.12.01
Cooling	:	AN, ANAF
Frequency	:	50 Hz, 60 Hz
Vector Group	:	As specified
Primary Voltage	:	Upto 33 KV
Secondary Voltage	:	220/127, 480/277 V (Other Voltages as required)
Winding Material	:	Copper/ Aluminum
Tapping Range :	:	+ 5% in steps of 2.5% (Other tapings as required)
Impedance	:	In line with applicable standards



Main Features & Benefits

Resistant to short circuits (High Mechanical Strengths)

Non-Flammable

Resistant to Temperature Fluctuations

Moisture Resistant since non Hygroscopic

Space saving, permitting compact installation

Practically to maintenance; Long and Trouble-Free Service

Suitable for Hot and Humid environments

Automatic temperature control and protection

Applications

In service in diverse Industries, Electricity Boards, Nuclear / Thermal / Hydel Power Plants, Railway Traction, High-Rise Buildings, Hospitals, Subways, Underground Vaults, Tunnels, Schools, Steel Factories, Chemical Plants, etc. Where safety is of prime concern.





Technical Data PTC-12/630/1250A

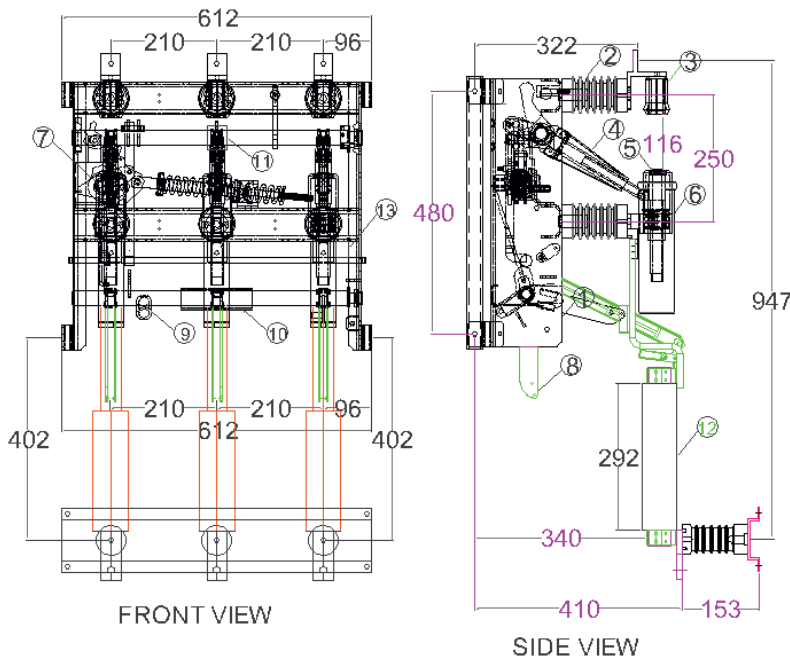
Rated Voltage	12KV
Rated Frequency	50Hz
Rated Current	630A/1250A
Rated Peak Current	62.5 KA
Rated Short time current / 3 Sec	25KA/3 Sec
Rated Making Current	62.5 KA
Rated Breaking Current	630 A
Impulse Voltage , Wave Shape	1.2/50 MS
(I) To Earth	75 KV
(ii) Between Poles	75 KV
(iii) Between Open Contacts	85 KV
Power Frequency Test Voltage	
(I) To Earth	32 KV
(ii) Between Poles	32 KV
(iii) Between Open Contacts	
Dimensions (Ref . Drg. Enclosed)	
(a) Between Poles (Centres) mm	210PP
(b) Between Open Contacts mm	120
(c) Between Live parts and Earth mm	120
(d) Arc Duration	5-20m.Sec

11KV SFU

11KV SFU/LBS

We have a prominent position in the market as a Switch Fuse Unit Supplier. Our Switch Fuse Unit consists of steatite porcelain re-wired fuses or the HBC fuse fittings. The Switch Fuse Unit consists of back operating and front operating handle. The Switch Fuse Unit is durable and reliable. Our Switch Fuse Unit is safe to use.

LBS On/Off with Earth Switch & Fuse and Coil Trip



Legend

- LBS Frame
- Insulators
- Brass Top Fixed Contact
- GFN Moving Arm
- Copper Moving Contact
- Brass Bottom Fixed Contact
- Main Switch Operating hole
- Main Switch Indication
- Earth Switch Operating hole
- Earth Switch Indication
- Main Switch On/Off Indication
- HT HRC Fuse
- Shunt Trip Coil





General Features

- L.V Switchboard
- As per IS Standards
- IP 52 / 54 / 55 protection
- Indoor / Outdoor
- Electrolytic Busbars Aluminium / Copper

- Customized Panels
- Single Front / Double Front / Dead Front
- DMC / SMC Insulators
- Capacity Expandable
- Complete Earthing of Doors & Frame
- Shipping sections as per demand

Product Special Features

- SMS facility for Energy Reading & Low Power Factor
 - Earth fault relay
 - Phase Sequence indication

Products

- Power Control Centres (PCC) Panels
- Motor Control Centres (MCC) Panels
- Automatic Power Factor Control (APFC) Panels
- Power Distribution Boards (PDB)
- Sub Distribution Boards
- Main Lighting Distribution Boards (MLDB)
- Sub Lighting Distribution Boards
- Control Desks
- Feeder Pillar Boxes
- Non – Segregated LT Busducts
- VFD Control Panels
- 11kV RMU Panels
- LT Kiosks



Most suitable for Industrial, Residential Commercial, Shopping Malls, Software, Airport , Stadium

Salient Features

- All major components are of standard make like Siemens, ABB, L&T and Schneider
- Microprocessor based automatic controller with power factor display
- All components are carefully integrated for reliable performance and longer life
- Capacitor duty Contactors and MCB or MCCB, are used to switch ON capacitors to minimize switching surges
- Uses small correction steps to maintain accurate setting
- Auto/Manual Facility, Cooling Facility
- Very low watt losses
- In-built time delay for switching ON of a capacitor bank to avoid impulse signal operation. All capacitor feeders have Auto / Manual mode facility with fuse protection and isolation

Power Factor Controllers are designed to operate, Automatically with Micro Processor Based Automatic Controller

Use a specially designed electronic control circuit that improves power factor to meet requirements of load switching pattern

Improvement of power factor up to optimum levels is guaranteed

Product range: 20 KVAR to 1000 KVAR.

We provide solutions for improving plant power factor by installing our APFC panel

Heavy duty capacitors with detuned filters will be provided where high level non linear harmonics present upto 30%

Most Suitable for

- Manufacturing Companies
- BPO Organizations • Shopping Malls
- Steel Mills • Spinning Mills • Cement and Paper Mills
- Offices & Buildings • Hotel & Restaurants
- Rice Mills • Hospitals
- Cinema Halls / Multiplexes

Advantages

- Payback period is 8 to 10 months
- Reduction in maximum demand
- Energy saving up to 5%
- Low power factor penalty can be avoided
- Extended life for Switch Gears, Capacitors and Cables
- Avoid manual disruptions
- Avoid high current consumption losses
- Reduction in Electricity Bill



Our Certifications



SMERA
SME Rating Agency of India Ltd.

एच. प्र. आई. पी.
NSIC
ISO 9001 : 2008

D&B
Decide with Confidence

This is to certify that
Powertech Transformers (India) Private Limited
Plot No. 62/2, Part CIE, Gandhinagar, Balanagar,
Hyderabad - 500 037, Andhra Pradesh, India
is now part of the
Dun & Bradstreet Global Database
and has been assigned the
D&B D-U-N-S® Number: 65-054-1019

For Dun & Bradstreet Information Services India Private Limited

Maha
Authorized Signatory

April 09, 2011

The fact that this business is registered in the D&B database should not be construed as suggesting that credit or any other financial or business transaction should be approved, denied, restricted or delayed. It only signifies that there is sufficient information in the database to assign a D&B D-U-N-S® Number.
D&B D-U-N-S® Number is a registered number of Dun & Bradstreet Corporation, USA.

Certificate
Breakthrough Management Quality Registrar
(BMQR)
Certifies that the Quality Management System of

POWERTECH TRANSFORMERS & CONTROLS PVT. LTD.,
Plot No. 62/2, Gandhi Nagar, Bala Nagar, Hyderabad - 500 037, Telangana State, India.

has been assessed and found to be in accordance with the requirements of the quality standards

ISO 9001:2015
for the following scope of certification

DESIGN AND MANUFACTURING OF POWER AND DISTRIBUTION TRANSFORMERS

Further certification regarding the scope of this certificate and applicability of ISO 9001:2008 requirements may be obtained by consulting the organization.

Original Certification Date : 09/05/2012	Surveillance Audit : 09/05/2012
Current Certification Date : 28/10/2015	Next Audit : 28/10/2015
Third Surveillance Due on : 27/10/2016	
Fourth Surveillance Due on : 27/10/2017	
Certificate Expiration Date : 27/10/2018	

BMQR
ISO 9001 CERTIFIED
Certificate No: AB09IS12556

AAQ-BAR
QMS ACCREDITED USA

For BMQR
No.5, 2nd Floor, Sakinaka, Road, Thiruvalluvar Nagar, Thirumangalakudi, Anna Nagar West, Chennai - 600 040, Tamil Nadu, India.
email: iso@bmqr.com, Web: www.bmqr.com
Ph: 044-26322983

This certificate will remain current subject to the company maintaining its ISO 9001:2015 certification. This will be reviewed regularly by BMQR Certification Pvt. Ltd. The Certificate Details and Information are based on www.bmqr.com. BMQR does not assume the quality of products produced by a Quality System. The Certificate is not a license for business and does not confer any special status or recognition. The award is based on current operational status. This certificate is the property of BMQR Certification Pvt. Ltd. and is to be retained upon request.

भारतीय मानक ब्यूरो
భారతీయ ప్రమాణముల బ్యూరో
BUREAU OF INDIAN STANDARDS
(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय)
(Ministry of Consumer Affairs, Food and Public Distribution)

Hyderabad Branch Office :
Plot No. 1, Survey No. 36771, ZIS-NFC Main Road,
Industrial Development Park, Mouda Ali, Hyderabad - 500 046.
GSTIN : 36AAIB04310102
PAN No. : AAATB0431G

ई-मेल: hybo@bis.gov.in
hbo@bis.org.in

फोन: 040-27249993/96/97/98
Sales Phone: 040-27240339

फैक्स: 040-27249991
वेबसाइट: http://www.bis.org.in

By Regd Post
Our Ref: MDH/5497/L-6300036494 09.04.2018

M/s Powertech Transformers & Controls Pvt Ltd
Balanagar
Hyderabad 500037
Rangareddy District

Dear Sirs,

This has reference to BIS Certification Marks Licence No. CML-6300036494 held by you for Outdoor/Indoor Type Oil Immersed Distribution Transformers Upto and Including 2500 kVA, 33 kV - Part 1 Mineral Oil Immersed as per IS 01180(Part 1):2014.

It is to inform you that the Competent Authority of the Bureau has agreed to renew the above-mentioned licence for a period of **One Year Ten days** from 22.03.2018 to 31.03.2019.

The Endorsement No.01 dated 07.04.2018 is enclosed.

Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
S Savitha
(S Savitha)
Scientist-C

Enc: as above

मुख्यालय : मानक भवन, 9, बाहदुरशाह जफर मार्ग, नई दिल्ली - 110 002.
Head Quarters : Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi - 110 002.

ENERGY IS LIFE ऊर्जा दक्षता ब्यूरो
(भारत सरकार, विद्युत मंत्रालय)
BUREAU OF ENERGY EFFICIENCY
(Government of India, Ministry of Power)

Form II
(See Regulation 7)
Permission / Renewal of Permission
No. 03/0138/BEE/S&L/DT/PTT/14/1325
Bureau of Energy Efficiency
New Delhi, Dated: 05/04/2018

To,
MR CHATLA SANDEEP GOUD (General Manager)
Power Tech Transformers (India) Pvt. Ltd.
PLOT NO.62/2, C.I.E., GANDHINAGAR,
Balanagar, HYDERABAD -500037 Andhra Pradesh
Mb:- 996333752 Fax no:- 040- 64596887

1. Pursuant to the provisions of regulation 7 of the Bureau of Energy Efficiency (Particulars and Manner of their display on Labels of DISTRIBUTION TRANSFORMER) Regulations, 2009, the BUREAU hereby permits you to affix Label as per details of approvals set out in the Annexure.

2. This permission is subject to-

- The star level displayed on the label of the DISTRIBUTION TRANSFORMER shall conform to energy consumption standards for DISTRIBUTION TRANSFORMER notified under clause (a) of section 14 of the Act;
- The label shall be affixed only on such model of DISTRIBUTION TRANSFORMER for which permission has been granted;
- The label shall be printed and affixed on the DISTRIBUTION TRANSFORMER at the cost of the permittee;
- The permittee shall ensure that the star level displayed on the label of DISTRIBUTION TRANSFORMER shall be maintained at all time;
- The permittee shall pay the label fee of rupees 100 per label;
- The permittee shall furnish to the Bureau a statement containing details of production of labelled equipment and the accrued labelling fee due for each quarter within the following month of the close of each quarter of the financial year. The same details shall be furnished to the Bureau also through automated system.
- The permittee shall make available such other details of DISTRIBUTION TRANSFORMER as and when sought by the Bureau for which the permission has been granted.

3. This permission shall be valid from 25 August 2014 to 24 August 2017 and may be renewed as prescribed. You shall not withdraw the DISTRIBUTION TRANSFORMER from the market during the validity period of permission except with the prior approval of the Bureau.

4. The unique label series code for the equipment is BEE/PTT/03/0138/10 and should appear on the label as per the approved design.

5. Where the star level plan on review is modified by the Bureau and the star level of the DISTRIBUTION TRANSFORMER stand modified, You shall seek the permission a fresh.

6. Signed, Sealed and dated this 05/04/2018.

S Savitha
(Secretary)
BUREAU OF ENERGY EFFICIENCY
New Delhi

1 - 5 28-08-2014 10:53:58

सहित एवं संपूर्णित म ऊर्जा बचारे Save Energy for Benefit of Self and Nation
प्रीतम तन, सेवा भवन, आर.के.पुरम, नई दिल्ली - 110 066 वेबसाइट/वेब-साइट: www.bee-india.nic.in
4th Floor, Sewa Bhawan, R.K. Puram, New Delhi - 110 066 रेडी/टेल: 26179699 (5 Lines) फैक्स/फैक्स: 91 (11) 26178352

Type Test Certificates

TRANSFORMERS

- * CPRI
- * ERDA
- * ERTO

LBS (SFU)

- * ERDA
- * CPRI

PANEL'S

- * CPRI

Our Major Customers



Vendor approved with discoms



Our Persistent Customers

IT Companies



Rice Mills



Spinning Mills



Hospitals



Granite Industries



TURNKEY PROJECTS

Undertake all Turnkey projects
upto 132 KV Substations



11 kV Substation

33 kV Substation

132 kV Substation



Powertech

Transformers & Controls Pvt. Ltd.

Office & Factory :

Plot No. 62/2, Part CIE, Gandhi Nagar,
Balanagar, Hyderabad - 500 037, T.S.

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 www.powertechtransformer.com

Online Promoters

