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Sparking the clean **power** revolution

## *Your partner in achieving superior power efficiency*

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The technological revolution sweeping India has brought about a significant amount of progress. Across sectors, industries are witnessing exponential growth, resulting in an increased demand for power.

The power sector is finding it increasingly difficult to stay abreast of the demand, Hence, power is at a premium. Power utilities are imposing stiff penalties on industries that cause power wastage. The way out is improving power efficiency. That is just what we at Powercap Capacitors Pvt. Ltd excel at. We are experts in improving power factor computation, reducing harmonic distortion and efficient reactive power management.



Established in 1977, Powercap Capacitors Pvt. Ltd. [formerly know as Manohar Brothers (Capacitors) Pvt. Ltd.] has come a long way from its humble beginnings. Today, our state-of-the-art unit at Taloja manufactures LT & HT Capacitors and Automatic Power Factor Improvement Control Panels.

Competitive pricing, uncompromised quality and timely delivery have helped us develop a strong reputation amongst a discerning clientele, which includes cement plants, textile mills, steel plants, petrochemical plants, chemical plants, power utilities, etc. Our products match up to the most stringent testing standards and are recommended by the foremost consultants in India.

Powercap Capacitors can supply your complete requirement of power factor improvement systems, with accessories like switchgears, relays, control panels, reactors, surge arrestors, etc.





## Manufacturing & Testing

### Best practices for the best products

The winding area comprises the latest fully automatic machines with Hypa Filter (Class-100). The winding is done under controlled conditions, with high standards of cleanliness being maintained at all times.

The wound capacitor elements are stacked and soldered, and element packs are then insulated.

This is followed by caging inside a metal container. The container is fabricated in-house ensuring total quality. The container is cleaned and de-greased before the capacitor elements are introduced inside. Discharge resistors are connected as a safety device across the terminals.

The bushing are welded to the top plate using Automatic Argon Gas Welding (This plate is supplied against specific order) The capacitors are introduced in the Autoclave and impregnated under high vacuum.

After impregnation, the capacitor units are tested twice for leakage under controlled temperature, followed by stringent quality testing as per IS, IEC standards,

Finally, units undergo a process of de-rusting and phosphating before being coated with one coat of primer and two coats of paint.



*Winding Room*



*Dry Block Assembly Dept.*



*Fabrication Shop*



*Auto Clave*



*Testing Dept.*



## Quality Statement

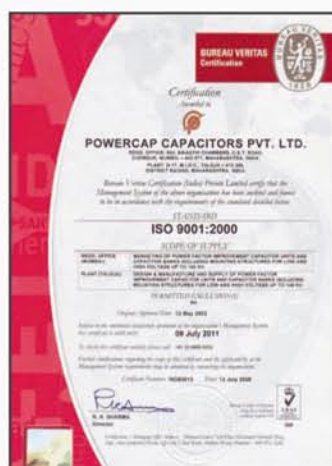
### Unparalleled quality

Utmost attention to product quality and customer service are constants and are the main factors contributing to our leadership position. We have adopted the most modern standards and procedures in order to assure the highest level of product quality and reliability.

Raw material is imported from reputed suppliers the world over and incoming raw material is checked for quality and also acclimatized prior to production. Approval of Quality for every vendor is given by the Director (Works) himself. Stringent testing is carried out at every stage of the manufacturing process

All designs conform to international norms and only best engineering practices are followed for designing.

The finished product is tested according to Indian and International Standards. The ISO-9001:2000 Certification is testament to the standardized process system in the manufacture of our products.



Powercap's family of products

### Comprehensive Range of Reactive Power Management systems

- ▶ Low Voltage Capacitor units and banks
- ▶ Automatic Power Factor Control Panels
- ▶ Medium Voltage Single Phase Capacitor Units
- ▶ Medium Voltage 3 Phase Capacitor Units
- ▶ Medium Voltage & High Voltage Capacitor Banks
- ▶ Tuned / De-Tuned Harmonic Filter Banks
- ▶ System Harmonic Studies
- ▶ Turnkey projects for Power Factor Improvement & Harmonic Filtration



Outdoor Harmonic Filter Capacitor Bank



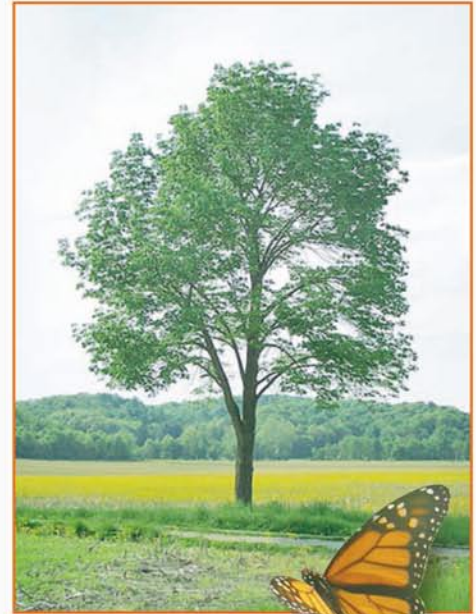
600 Kvar (50 Kvar x 12 steps)  
Automatic Power Factor  
Control Panel with De-tuned  
Harmonic Filters



## Restricting our environmental footprint

We take utmost care in order to ensure that the environmental impact is kept to the minimum.

The impregnating agent used is the result of long and continuous research and experimental tests on all insulating oils for dielectric use currently available. It offers the best solution, taking into account the need to protect the environment along with the need to have high dielectric characteristics, two requirements which have often been considered incompatible. The impregnating agent is non toxic; its oral toxicity level (LD 50) is over 3 g/kg. Moreover, since these oils can be completely eliminated from human and animal bodies, there is no problem of accumulation. The impregnating agent biodegrades rapidly in the environment, therefore, no special precautions are required to prevent the dispersion of oil into the ground in case of accidental leakage from the case. It consists of the compounds of carbon, hydrogen and oxygen, the combustion of which produces carbon dioxide and water. These liquids are not considered dangerous and their registration is normally not required. However, the storage and destruction of the capacitors must be in accordance with current regulations in place of use



## Key Clients

A number of principle organizations from both the public and private sector in India have come to rely upon us for delivering a reassuringly high-quality product. To name a few:

### 1. Automobile

Apollo Tyres  
Ceat Tyres Ltd

### 2. Cement

ACC Ltd  
Cement Corporation of India  
Grasim Cement Ltd  
Gujarat Ambuja Cement Ltd  
Indian Rayon & Ind. Ltd  
Jayprakash Ind. Ltd  
Orissa Cements Ltd  
Rajashree Cement  
UltraTech Cement Ltd

### 3. Dyes & Chemical

Asian Paints (I) Ltd  
Colour Chem Ltd.  
Goodlas Nerolac Paints Ltd

### 4. Engineering

ABB Ltd  
Areva Ltd  
Bharat Bijilee Ltd  
Larsen & Toubro Ltd  
Siemens Ltd

### 5. FMCG

Clariant Ltd  
Glaxo Smithklien Ltd  
Uni Lever Ltd

### 6. Paper

Hindustan Paper Mills Ltd  
Nepa Ltd  
Orient Paper Mills

### 7. Petrochemical & Refineries

Bharat Petroleum Ltd  
Essar Refineries Ltd  
Gas Authority of India Ltd  
Hindustan Petroleum Ltd  
Indian Glycols Ltd  
Indian Oil Corporation Ltd  
ONGC  
Reliance Industries Ltd.  
Security Paper Mills Ltd

### 8. Power Utilities

BEST Undertaking  
Gujarat Electricity Board  
KPTCL  
MSDCL  
Reliance Energy Ltd  
Tata Power  
TNEB  
Torrent Power Ltd

### 9. Steel

Essar Steels Ltd  
Hindustan Zinc Ltd  
Lloyds Steel Pvt. Ltd  
Uttam Galva Steel Ltd

### 10. Sugar

Godawari Sugars Ltd  
Simbhaoli Sugar Ltd  
Uttam Sugar Ltd

### 11. Wind Power

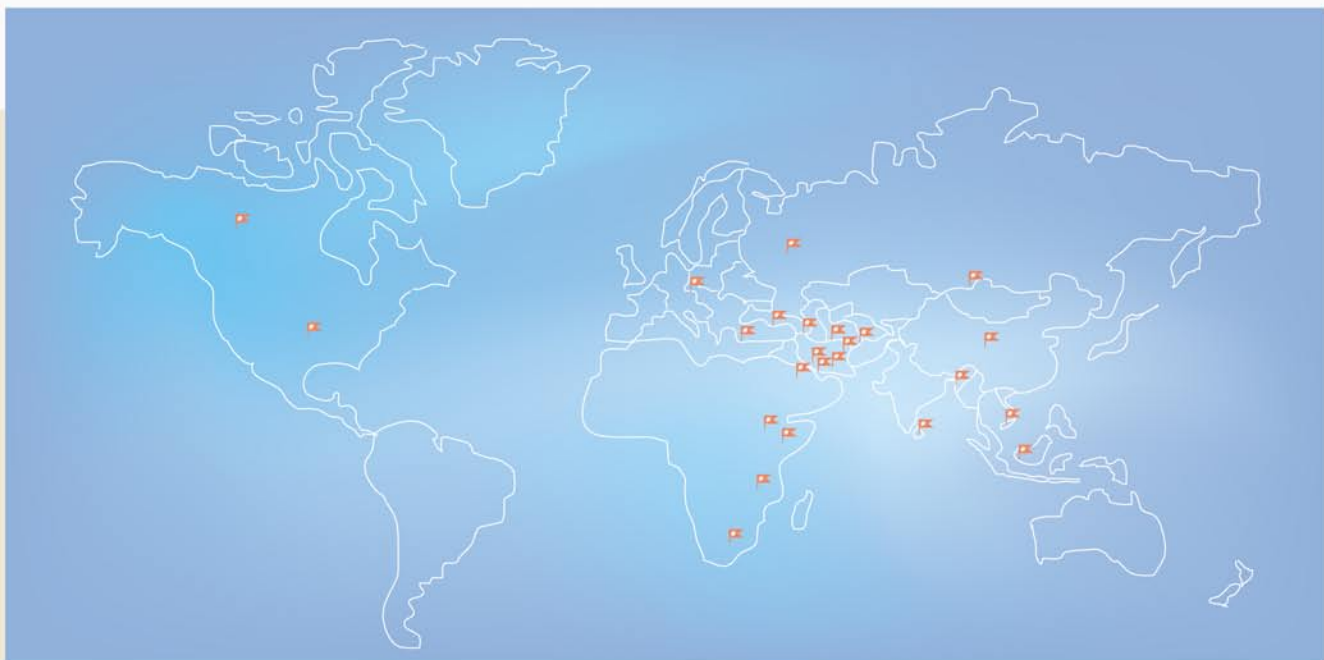
Micon Ltd  
NEPC India Ltd

### 12. Others

H & R Johnson (I) Ltd  
Raymond Woollen Mills Ltd

## Global presence

Our reputation for competitive pricing, uncompromised quality and timely delivery has long transcended the Indian shores. We have established a strong presence and are a name to be reckoned with in over 20 countries.



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Formerly Manohar Brothers (Capacitor) Pvt. Ltd.

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