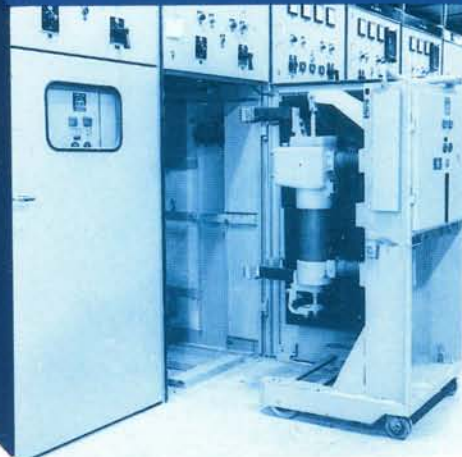




# 'Jyoti' Switchgear

A Saga of Excellence



## Jyoti - Powering India's growth for more than 50 years

Jyoti Limited has been in the forefront of switchgear technology for over three decades. With a well established R & D Centre, a full fledged manufacturing plant dedicated exclusively to Medium Voltage Switchgear, Jyoti is among the largest manufacturers of Medium Voltage Switchgear in India today.

Jyoti Switchgear Plant is equipped with all modern manufacturing and testing facilities with a skilled and experienced workforce. With an installed capacity of 1300 switchboards per annum, Jyoti has, till now, supplied more than 20,000 circuit breakers to various core sectors such as Power Stations, Refineries, Petrochemicals & Fertilizer Plants, Steel, Cement and other electrical utilities in India and abroad.

Established in 1943, Jyoti today has emerged as a leading engineering multi-product company serving the vital sectors of our national economy.



VCB Assembly Bay

Jyoti offers a wide range of quality products and services conforming to Indian and International Standards.

These include :

- Medium Voltage Switchgear
- H.T. and L.T. Generators & Motors
- Hydro-electric Generating Systems
- Special rotating electrical machines like Arno-converters, Sugar centrifuge motors, Frequency converters etc.
- Electronics and control systems
- Hydraulic equipments like pumps and turbines
- Turn - key contracts with single - source responsibility



12 kv VCB Panel Installation



Range of MOCBs



## SWITCHGEAR DIVISION

A Success Story in Retrospect.

- 1957 Pioneered manufacturing of Minimum Oil Circuit Breakers in 3.3 kV to 36 kV range, in technical collaboration with CALOR EMAG, West Germany.  
Till late sixties, Jyoti was the only manufacturer of Minimum Oil Circuit Breakers in India.
- 1967 Introduced 145 kV Minimum Oil Circuit Breakers for the first time in India, In technical collaboration with OERLIKON ENGG. CO. of Switzerland.
- 1973 Developed first indigenous 33 kV, 750 MVA outdoor Minimum Oil Circuit Breaker. This breaker was type - tested at High Power Laboratory, Czechoslovakia.  
Jyoti was presented with an Import Substitution award by the Government of India for this development.
- 1978 Jyoti received Import Substitution award for indigenous development of 33 kV Cast Epoxy resin Current Transformer.
- 1979 Started manufacture of motor control centres with Vacuum Contactors in 3.3 / 6.6 kV, 400 Amp, rating.  
Vacuum Contactors have proved to be excellent switching devices for motors, transformers, capacitors etc.
- 1981 Developed indoor type MOCB of 12 kV, 40 KA rating for which also Import Substitution award was given to Jyoti.  
This breaker was type-tested at KEMA, Netherland in addition to tests at CPRI, Bhopal.  
More than 2000 breakers of this 12 kV/7.2 kV rating are in service, which is the largest in number compared to the quantity supplied by any other manufacturer in India.
- 1984 Entered into technical collaboration with TOSHIBA CORPORATION, Japan, the world leader in Vacuum Circuit Breaker technology, to manufacture Vacuum Circuit Breakers up to 36kV indigenously as per Toshiba's design and with the authority to use their type forms, which are same as those currently marketed by Toshiba in international markets.
- 1986 Developed 12 kV, 26.4 kA Outdoor Vacuum Circuit Breaker.
- 1992 Developed compact, 600 mm wide cubicles for urban distribution networks.
- 1993 Started mass production of Vacuum Circuit Breakers in easy to assemble Draw-out units for HT Panel manufacturers.
- 1994 Developed 36 kV 12.5/25 kA Outdoor Vacuum Circuit Breaker.

## AWARDS AND RECOGNITION

Recognising the Pioneering efforts in Promoting technological self-reliance and developing products appropriate to tropical conditions, the Government of India has bestowed several national awards for import substitution on Jyoti. Prestigious awards from Institutions like Associated Chambers of Commerce and Industry of India (ASSOCHAM), Federation of India Chamber of Commerce and Industry (FICCI), Association of Indian Engineering Industries (AIEI), now known as Confederation of Indian Industry (CII) have been given to Jyoti.



## **R & D CENTRE - WHERE RESEARCH IS FOR RESULTS**

Jyoti has a well established R & D centre, which is the only one of its kind run by a private enterprise in India. Jyoti R & D centre is approved by the Department of Science and Technology, Government of India.

### **Laboratories in R & D Centre include :**

- Switchgear group of laboratories comprising
  - High voltage laboratory for
    - Impulse test (up to 400 kV peak) and
    - Power frequency withstand test (up to 120 kV rms)
  - High Current Laboratory for temperature rise test
  - High Rupturing Capacity Laboratory for L.T. Equipment.
  - Laboratory for Electrical and Mechanical Endurance test.
- Relay Laboratory
- Instrumentation Laboratory
- Rotating Electrical Machines Laboratory
- Hydraulic Laboratory
- Material Science Laboratories comprising :
  - Metallurgy Laboratory
  - Plastics and Dielectrics Laboratory
- Stress and Vibration Analysis Laboratory
- Instruments Service, testing and calibration Laboratory.



Impulse Test Laboratory



Material Science Laboratory



CAD Centre

## PRESENT PRODUCT RANGE

### Medium Voltage Minimum Oil and Vacuum Circuit Breakers

- 12 kV - 12.5 kA upto 44 kA  
Indoor, rated current upto 3150 Amps.
- 24 kV - 12.5/25 kA  
Indoor, rated current upto 2000 Amps.
- 36 kV - 12.5/25 kA  
Indoor, rated current up to 2000 Amps.
- 12 kV - 12.5 / 25 kA  
Outdoor, rated current upto 1600 Amps.
- 36 kV-12.5/25 kA  
Outdoor, rated current upto 1250 A

### Medium Voltage Vacuum Contactors

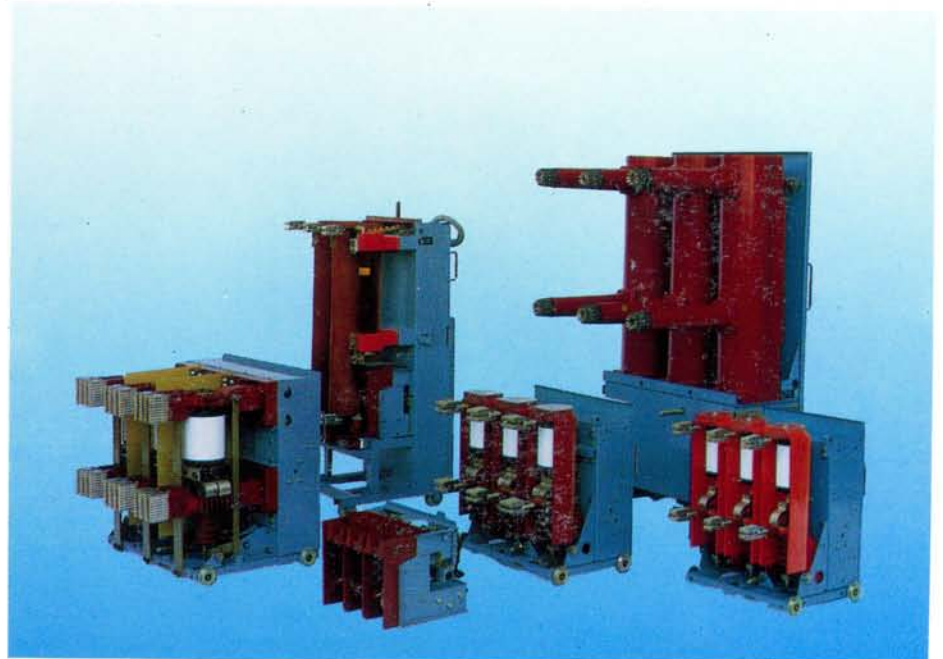
- 3.6/7.2 kV, 400 Amps Vacuum Contactor for AC4 switching duty.

### Medium Voltage Switchboards

- Draw-out type indoor panels and outdoor kiosks.
- 12 kV upto 44 kA and 3150 Amps.
- 24 kV upto 25 kA and 2000 Amps.
- 36 kV upto 25 kA and 2000 Amps. ratings.



Outdoor VCB



Vacuum Switchgear Family

## CORPORATE QUALITY POLICY

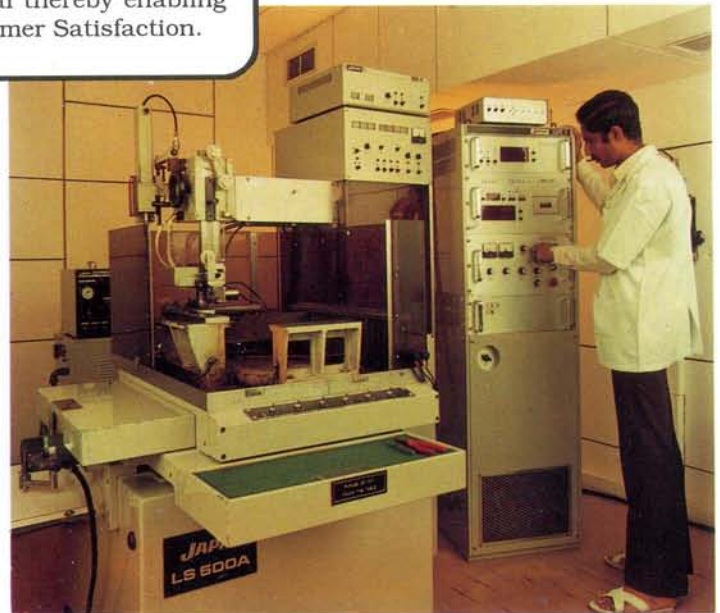
We, at Jyoti Limited, recognize and acknowledge the crucial role which quality has come to play in today's globalized market economy. It is our aim to achieve superior quality standards to match national and international requirements of our products and services whilst giving due consideration to our environmental and social responsibility.

In the years ahead, we pledge to re-double our efforts at quality enhancement by inculcating a Quality Culture in the organisation which percolates to all levels and across all departments, in order to achieve our goal of Total Customer Satisfaction.

This all encompassing commitment shall be pursued through a suitable strategic quality plan keeping in view the overall business direction and mission. It shall be our constant endeavour to meet the exacting needs of our valued customers through :

- A well-planned Quality Assurance System.
- Treating all commitments made to the customer as sacred.
- A well - trained, skilled and experienced workforce.
- Encouraging the spirit of team - work within the organisation.
- Providing prompt, reliable and efficient after-sales service.
- Maintaining high quality standards, timely delivery schedules and competitive pricing of our products.

We reiterate that in the emerging competitive market scenario, our dedication to quality shall remain total thereby enabling us to meet our targeted goal of Total Customer Satisfaction.



CNC Machine for Stamping & Other Tools



**Jyoti Ltd.** VADODARA (INDIA)  
Water • Power • Progress

FOR FURTHER ENQUIRIES  
PLEASE CONTACT

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*In keeping with the technological strides the world is making in the engineering field, we introduce changes in the design of our products. Hence, the products as actually supplied might have features varying herefrom.*

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