

## Insulation Division

*The Insulation Division was founded to promote R&D activities related to power industries. The Division gradually created facilities to undertake R&D, Evaluation studies on insulation materials. Many research Projects were conducted encompassing vast area of electrical insulating materials. A few notable among them are evaluation of electrical varnishes, motoret Coils, impregnated electrical paper. Institute has also executed several accelerated aging projects, which include acceleration studies on different classes of insulating materials such as (i) Class B, (ii) Class H and (iii) Class F. Presently the Division is providing field services for RLA of power station and substation equipment. Apart from other reachers activities.*

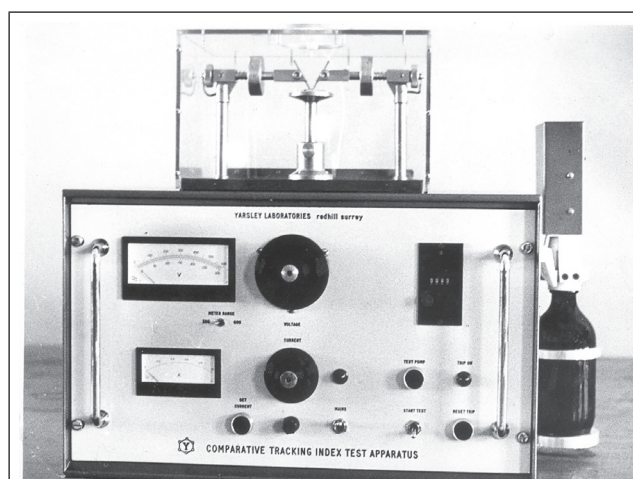
The Insulation Division was founded to promote R&D activities related to power industries. The institute was conceived in 1960 in a rental building near 16th Cross, Malleshwaram, Bangalore. The land acquisition was done during 1960–1962. The institute was actualized in 1962–1963 with establishment of Insulation Division, the first Division of institute located next to Power Engineering Department at IISc. Later on, Chemistry laboratory was also added. The Insulation Division was headed by Deputy Director Sri P N Vishwanathan. UNIDO has funded in setting up infrastructure of Division by adding many equipments and facilities.

The Division gradually created facilities to undertake R&D, Evaluation studies on insulation materials and systems. First activity was evaluating insulating paper for M/s. Lakshman Isola Pvt. Ltd., Bangalore. Subsequently, other manufacturers and Industries have utilized the facilities and services of Insulation Division. It has received expertise from Sri N Parkman, ERA, London, UK, who has provided valuable guidance and foundation for future growth of division.

Under guidance of Sri Mahajan and Sri Arunachala Shastry, Insulation Division has



INAUGURATION FUNCTION OF SEMINAR ON ELECTRICAL INSULATION IN 1985



INSTRUMENT CTI FOR A EVALUATION OF INSULATING MATERIALS



VISIT OF FOREIGN DELEGATES WITH DIRECTOR SHRI C.S. SRINIVASAN AND SR. DEPUTY DIRECTOR SHRI M.C. RATRA

seen through period 1970 years onwards. It has executed notable R&D Projects conducting research investigations on hot sticks choosing the right kind of wood. Research investigations were also conducted on the development of electrical grade paper.

Many research Projects were conducted encompassing vast area of electrical insulating materials. A few notable among them are evaluation of electrical varnishes, motorett coils, impregnated electrical paper. Institute has also executed several accelerated aging projects, which include accelerated studies on



RESEARCH DISCUSSIONS BY DR. M RAMAMURTY AND M.C. RATRA WITH PROF. RAJARAMANNA AT CPRI



UTM FOR EVALUATION OF INSULATING MATERIALS

different classes of insulating materials such as (i) Class B, (ii) Class H and (iii) Class F.

Insulation Division was started with Vision and Mission of R&D activities for insulation materials and systems. It has served many industries in power sector by providing suitable technical services. A notable one being functional evaluation of class H insulation system for RDSO for the possible application to DC Traction System.

The Division has also carried out reasonable investigations from the oldest traditional insulation system to GIS (Gas insulate System) covering the entire domain of insulating materials. It has produced four Ph.D's who have added to knowledge base to insulation sector in the country.

In the course of period of time, it has also produced several other independent Divisions which have grown fully. The Electrical Appliances Testing Division, Polymer Laboratory, Material Technology Division were



conceived, conceptualized and formed from this oldest and first Division of CPRI.

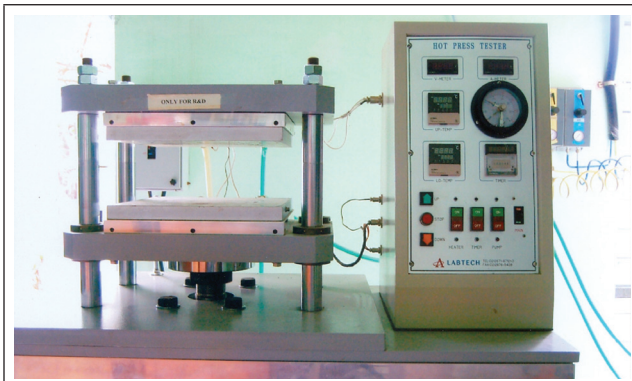
### ACKNOWLEDGMENT

The article was prepared by Shri Dr. C. Viswanatha, Joint Director.

The Division wishes to place on record the contributions rendered by Shri Mahajan and Shri Arunachala Shastry, Shri M. C. Ratra, Shri Dr. K. Dwarakanath, Shri Dr. J. Sundarrajan and all others of DCCD.



MOULDING MACHINE FOR DEVELOPING INSULATING MATERIAL



INSULATION SHEET MAKING INSTRUMENT



A VIEW OF TESTING BAY WITH 600 kV, 600 kVA AC SOURCE





EXPERIMENTAL ARRANGEMENT FOR CABLE TESTING



RLA STUDY ON TRANSFORMER AT SITE (DCCD)

**TRAINING PROGRAM ON "CONDITION MONITORING TESTS FOR EQUIPMENT OF HYDRO POWER PLANTS"**  
20-24 DECEMBER 2010 AT CPRI, BANGALORE - 80



TEAM OF DCCD DURING TRAINING PROGRAM IN 2010