

Highlights of Annual Report 2011-2012

- In-house R&D Centres recognized by DSIR increased to 1618 in December 2011 from 1376 in December 2010. 181 Centres incurred annual expenditure over ₹500 Lakhs on R&D during 2011 compared to 167 centres in the previous year. Scientific & Industrial Research Organisations (SIROs) recognized by DSIR increased to 570 in December 2011 from 560 in December 2010. Public Funded Research Institutes (PFRIs) recognized by DSIR as on December 2011 are 650.
- 151 new R&D centres were approved during the year 2011 as compared to 59 in the year 2010 for claiming weighted tax deduction u/s 35(2AB) of IT Act. Reports in Form 3 CL issued by DSIR to Director General of Income Tax (Exemptions) reported R&D expenditure of ₹3707 crore by DSIR approved in-house R&D centres of industries during 2011 as compared to ₹3461 crore during 2010.
- 30 number of new proposals involving total project cost of ₹198 crore were recommended under the Technology Development and Demonstration Programme (TDDP) during the year compared to 29 proposals involving a total project cost of ₹276.70 crore last year.
- TePP partnered with National Innovation Council (NInC) to support innovators in MSME clusters and also supported Innovation Enabler Sessions to be conducted at pilot MSME clusters to create a vibrant innovation eco-system.
- The technology for “Herbal medicine for treatment of Asthma”, “Self propelled three row potato seeding device for restricted land holdings” and “Indigenous dialysis device” was developed successfully under Technopreneur Promotion Programme (TePP).
- Design, Development, Implementation of Enterprise Application and Maintenance Support Services for DSIR was initiated.
- The Academy of Scientific and Innovative Research (AcSIR) was set up by CSIR as an institution for awarding degrees in frontier areas of Science and Technology.
- CSIR launched Open Source Drug Discovery (OSDD) programme (based on the realization that the current Intellectual Property based models of pharmaceutical innovation do not address the diseases of the poor such as Tuberculosis)
- Patent examinees of US PTO were offered training on use of Traditional Knowledge Digital Library (TKDL) databases.
- CSIR opens new vista through Ayurgenomics, an integrative approach of Ayurveda and Genomics for discovery of predictive markers for preventive and personalized medicine.

- ◆ CNM5, a 5-seater all-metal aircraft is a light utility aircraft designed to meet the latest global standards and has been designed and developed through a public-private partnership between CSIR-NAL and Mahindra Aerospace.
- ◆ CSIR-CSMCRI developed a novel technology for self reliance "Suphate of Potash (SOP)" for recovery of SOP from bittern has been transferred for commercial production to M/s Archean Chemical Industries. They are setting up a commercial plant of capacity 1 lakh tone per annum. SOP is a premium fertilizer with highest nutrient value of ~68%.
- ◆ CSIR-Tech Private Limited (CTPL) was incorporated on 2nd May 2011 to hold equity and give feedback loop of technology creation and transfer.
- ◆ CSIR-CMERI in collaboration with NGOs has set up High Efficiency Post Harvest Drying & Processing Centres in the states of Mizoram and Arunachal Pradesh for post harvest processing of Ginger, Big Cardamom, Turmeric, Chillies etc. under CSIR-800 program which is a S&T intension of CSIR for the people at the base of the economic pyramid.
- ◆ CSIR-CSMCRI developed a mobile RO plant for water filtration mounted on a bus which can deliver drinking water maximum at the rate of 60000 litres per day under CSIR-800 program.
- ◆ CSIR-NAL developed Air ferry system for societal applications, a 6 seater inexpensive base vessel made up of bamboo material perform well in water and for air ferry, christened as 'Lal Hamsa (Air)' 'Aam Rath (Water)'.
- ◆ CSIR participated in Republic Day Parade celebrations, 2011 through its Tableaux at Rajpath.
- ◆ Consultancy Development Centre (CDC) trained more than 700 St. Govt. officials of Central/State Govt./Ministries/Departments on "Selection and Effective use of Consultants".
- ◆ A total 200 students were trained through CDC's educational Programmes-MS in Consulting Management, Certificate Programme in Technical Consulting and Certificate Programme in Management Consulting.
- ◆ National Research Development Corporation (NRDC) was assigned 49 new technologies / processes by various R&D institutions and signed 40 license agreements with various entrepreneurs and industries during 2010-2011.
- ◆ Central Electronics Limited (CEL) installed power plants in various locations in the country like DSIIDC-Delhi, IOCL-Dehradun, Assam Engineering College-Assam, Brahamakumari at Mount Abu, CISE, New Delhi, KREDA-Kargil and TIDCL- Agartala etc. of a cumulative capacity of 817 KWp.