

**DETAILS OF COMPLETED RC R&D PROJECTS DURING
THE 11TH FIVE YEAR PLAN (2007-2012)**

| SL No | Project Name | Sanctioned amount (Rs. in Lakhs) | Start | End | Division of CPRI | R&D Leader/Project Coordinator |
|-------|--|----------------------------------|------------|------------|------------------|--------------------------------|
| 1 | Development of high strength composite core materials of O/H line transmission conductors' applications | 2.50 | April 2009 | Sep 2010 | MTD | Shri R.K. Kumar |
| 2 | Assessment and Mapping of corrosion in boiler tube components | 45.00 | April 2009 | March 2012 | MTD | Shri. Janardhana |
| 3 | White LED – Technology assessment | 2.50 | Oct 2009 | March 2011 | MTD | Dr. P. Sampathkumaran |
| 4 | Design & Development & fabrication of co-axial shunt for measurement of short circuit currents up to 200 kA r.m.s of one second | 15.00 | Jan 2009 | Dec 2011 | STDS | Shri G.R. Sathyanandam |
| 5 | Power Line Communication (PLC) for Power Sector Applications (both LV & MV) | 11.50 | Sep 2009 | Sep 2010 | UARC | Shri Shivakumar V |
| 6 | Design and development and validation of test suites for IEC 62056 (DLMS/COSEM) compliant energy meters | 36.00 | Jan 2010 | March 2012 | UARC | Smt. M.U.Shaileshwari |
| 7 | Seismic Qualification of Transformers | 15.00 | April 2009 | June 2011 | EVRC | Dr. R. Ramesh Babu |
| 8 | Development of tracking wheel test facility & evaluation of polymeric insulators | 8.50 | May 2009 | March 2012 | HVD | Dr. N. Vasudev |
| 9 | Development and Validation of Software for Calculation of Parameters of Digitally Recorded Standard Lightning - Impulse Voltages with Overshoot and Oscillations | 2.25 | Nov 2011 | April 2012 | HVD | Ms. Kanyakumari |

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| 10 | Study of GPS synchronized End-to-End testing of Distance protection scheme and evolving field test methodology | 50.00 | April 2009 | March 2011 | PSD | Shri. Kaliappan |
| 11 | Polymer Composite Sections for Compact Transmission Line Towers | 30.00 | Jan 2010 | June 2012 | MED | Shri. M. Selvaraj, |
| 12 | Design and testing of HV electrode for EHV/UHV system equipment | 40.00 | Jan 2010 | June 2012 | UHVRL | Dr. Pradeep M. Nirgude |
| 13 | Development of High resolution Impulse Recorder for High impulse Voltage and Current measurements | 36.00 | Jan 2010 | March 2012 | UHVRL | Shri. K. A. Aravind, |
| 14 | Development of high performance polymeric components based on PEEK & PC for power sector applications. | 48.40 | Jan 2010 | June 2012 | DMD | Shri. V.V. Pattanshetti |
| 15 | Reclamation and Reconditioning of Turbine Oils | 5.00 | Dec 2012 | June 2013 | DMD | Shri. Pattanashetti |
| 16 | Evaluation of Gassing characteristics, Sulphur level and Electrostatic charging tendencies of transformer Oils | 2 | April 2009 | March 2012 | DMD | Shri. V.V Pattanshetti |
| 17 | Low loss giant dielectric Nano-ceramics | 10.00 | Jan 2012 | June 2013 | DMD | Shri. P. Thomas |
| 18 | Development of Heat Pipe for Transfer of Heat Energy (Conversion of Transformer Heat Losses into Useful Electrical Energy) | 3.00 | Dec 2009 | June 2012 | TRC | Shri. T. Malilikarjuna Rao, |
| 19 | Study of smart grids and impact of renewable Integration. | 48.00 | Jan 2010 | Jan 2013 | DSD | Shri. R. Sudhir Kumar |

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| 20 | Centralized literature compilation for Research activities of CPRI and Up gradation DL and KMS | 100.00 | Jan 2012 | March 2013 | LIB | Smt Vijayalakshmi Deshpade |
| 21 | Vibration and shock qualification of Energy meters and relays | 75.00 | Oct 2011 | March 2014 | EVRC | Dr. Ramesh Babu |
| 22 | Seismic qualification of substation equipment's | 150.00 | Oct 2011 | March 2014 | EVRC | Sri Paneer Selvam, |
| 23 | Design of external insulation from the point of view of pollution | 50.00 | Jan 2012 | March 2014 | HVD | Dr. N. Vasudev |
| 24 | Detection and localization of impending faults in MV Power Cable System employing Partial Discharge techniques | 100.00 | Jan 2012 | March 2014 | DCCD | Shri. Mallikarjunappa |
| 25 | Localizations of Multiple Defects in Transformer Insulation by Acoustic Emission Technique | 48.00 | Jan 2012 | March 2014 | DCCD | Shri. Bhavani Shanker T |
| 26 | Design, development and fabrication of High Voltage/High frequency Static discharge device. | 45.00 | Jan 2012 | March 2014 | ID | Smt. Sudha S |
| 27 | Improved Reliability assessment in the power distribution system | 57.00 | Jan 2012 | March 2014 | DSD | Shri. Chandrashekar |