

**R&D Project Streams offered by CPRI**

| Sl. No. | Area of Research  |
|---------|---|
|         | <b>Branch: Electrical Engineering</b>   |
| 1       | Reliability/Power Electronics/Refrigeration & Air Conditioning  |
| 2       | High Voltage Engineering, electrical insulators, thermal performance of electrical equipment  |
| 3       | HV impulse test in transformer and switchgear, partial discharge of insulators, temperature rise test on transformer, LT/HT switchgears and panel |
| 4       | Power systems<br>MATLAB/SIMULINK or PSCAD   |
| 5       | Analysis and simulation of microgrid on RTDS  |
| 6       | Power systems stability, power systems protection, microgrid  |
|         | <b>Branch: Mechanical Engineering</b>   |
| 7       | Materials characterization  |
| 8       | Design or Production in Mechanical Engineering  |
| 9       | Materials science/engineering/ceramics/metallurgy   |
|         | <b>Branch: Chemistry / Chemical Engineering</b>   |
| 10      | Area of material science/ engineering, ceramics, metallurgy etc.,   |
|         | <b>Branch: Electrical / Chemical Engineering</b>  |
| 11      | Energy storage materials and devices (chemical, materials, nanotechnology)  |
| 12      | Energy storage for e-mobility (electrical, materials engineering)   |