

## PCRA Services for Implementation PAT Scheme

### Phase-II: Detailed Mandatory Energy Audit

- To conduct detailed Mandatory energy audit of the systems/ subsystems / equipments/ processes of the plant to identify future energy saving in different area in order to achieve the targeted saving by the target year and to take up implementation activities.
- Jointly fill-up Form-II & III as per requirement of PAT
- To identify cost effective energy saving opportunities of short, medium & long term.
- Detailed study of all electrical system thermal system, mechanical system of Power plant, Study of waste heat recovery system, water quality study, maintenance and operation system, losses estimation in system, study the scope of automation will be undertaken etc.
- Efforts to be made to identify base load energy consumptions with objective to optimize the same.
- Key Utilities such as compressed air, Water management (pumping system), Lightings, Air conditioning system would also be subjected for detail investigation to optimize energy consumption.
- To ascertain present specific power consumption in Kwh/ton / MCal/ton & TOE for all key sections as indicated above.
- Attempt would also be made to not only fulfil the target set by competent government authority but also exceed the target-setting enable the organization to get tradable Energy Certificates.
- To develop an action plan for time bound implementation activities & review energy monitoring system at key consuming centres.
- Detailed energy audit report would be submitted to the management along with cost benefit economics & guide lines to accrue savings on recurring basis.