

Proposal

For
Centre of Excellence for Training in Energy Efficiency
National Productivity Council [NPC] Chennai

Centre of Excellence for Training in Energy Efficiency [CETEE]

- NPC is a national organization established in 1958 for promoting productivity culture through consultancy and training in India.
- It is an autonomous body under department of industrial policy and promotion, Ministry of Commerce and Industry, Government of India



- CETEE is a unique world class hands-on training center in NPC with an objective of bridging the gap between energy efficiency theory and practice.
- The energy equipment, facilities and lab provided in the center, aims to impart practical hands-on training in the field of energy efficiency and conservation.
- CETEE is the culmination of Indo-Japanese Government co-operation and has been established with the assistance of Bureau of Energy Efficiency (BEE) and New Energy Development Organization (NEDO) Japan
- **CETEE (NPC India)** was established in response to the growing demand for high quality Energy efficiency training and consultancy services to help manufacturing plants and buildings run more efficiently. Today, CETEE provides its services to corporate and designated Industries, SMEs, public utilities, equipment manufacturers, building utilities in India and Asia pacific countries

CETEE- Existing Training Facilities

Thermal Utilities Efficiency

- Open burner & Combustion Training
- Industrial Furnace Training
- Boiler Performance Training
- Steam Trap performance testing
- Heat Exchanger Performance Training
- Boiler & Cooling water treatment



Electrical & Mechanical Utilities Efficiency

- Motor Performance testing and Harmonic analysis
- Indoor and street Lighting Training
- Pump and pumping system Training
- Fan System Performance Training
- Compressed air system training
- Refrigeration Training
- Air Conditioning system Training
- Cooling tower performance Training
- Renewable Energy/Sustainable development



Impact of CETEE

- Practical Training Programmes have been conducted utilizing the facilities provided under CETEE Plan Project and DIPP Plan Project at NPC, Chennai.
- There is good response for the Practical Training Programmes from leading National & Internal Organization.
- Hands on Training Programmes conducted for the following organization
 - Oil and Natural Gas Corporation (ONGC)
 - Rail India Technical and Economic Service (RITES)
 - RINA
 - AAVIN
 - United Nations Environment Programme (UNEP)



Future plans-CETEE

- NPC, Chennai propose to expand the facilities in CETEE and has provided a budget estimate of Rs. 545 lakhs

No.	Item	Cost (Rs. Lakhs)
1	Gas turbine with power generator	35.00
2	Steam power plant 20 kW with process control system	100.00
3	Heat pump for cooling and heating operation	25.00
4	Absorption refrigeration	25.00
5	Series and parallel connected pumps	25.00
6	Cooling tower	25.00
7	Using photovoltaics: grid connected or standalone	45.00
8	Domestic water heating with flat plate collector	45.00
9	Evacuated tube collector	35.00
10	Energy conversion in a wind power station	35.00
11	Videos and Computer Based Training (CBTs)	100.00
12	Housing for all the above	50.00
Total		545.00

Thank you