

**Second Prize**

**UDUPI POWER CORPORATION LIMITED**  
Village – Yellur, Pillar P.O. Padubidri,  
Udupi Dist. (Karnataka)

**Sector:- Thermal Power Plants (Coal Fired Plants > 100 MW capacity)**

**Unit Profile:**

Udupi Power Corporation Limited (UPCL) is an ISO 9001, 14001& OHSAS 18001 certified company having a total capacity of 1200MW (2X 600MW). Unit#1 started its commercial operation on 11.11.2010 and Unit#2 commercial operations started on 19.08.2012.

The Boiler is a Single drum which adopts subcritical natural circulation, opposed burning of front and back wall, single reheating, single-furnace balanced draft, dry deslagging, outdoor arrangement, all-steel framework and all-suspension structure, wherein, reheating temperature is regulated by gas bypassed dampers and the air preheater is set in the main post of the boiler. Steam turbine used in this project is a subcritical, single reheat, condensing, tandem, three-cylinder four-exhaust, impulse steam turbine.



**Brief Description of the major Energy Conservation Actions:**

1. Unit Startup Logic Modification & Stoppage of MDBFP during startup
2. Service water pump bypass line for HVAC
3. Service water pump bypass line for FGD
4. Service water pump bypass line for AHP
5. Service water pump bypass line for CHP
6. HP/ IP turbine Inlet strainer additional fine mesh removal
7. Debris filter replacement for improving Condenser Vacuum

|                         |                    |
|-------------------------|--------------------|
| <b>Total Investment</b> | <b>₹ 210 Lakhs</b> |
|-------------------------|--------------------|

|                                       |                        |
|---------------------------------------|------------------------|
| <b>First Year Energy Cost Savings</b> | <b>₹ 3289.95 Lakhs</b> |
|---------------------------------------|------------------------|

**Person who should be contacted for more Information:**

Shri V.N. Bhamidipati, President-O&M, Udupi Power Corporation Limited, Lanco Power Ltd, Lanco House, Plot No. 397, Udyog Vihar, Phase-III, Gurgaon-122016