

# POWER SUPPLY ELECTRICITY DEPARTMENT

## PROFILE

- *To operate & maintain power generation, transmission & distribution system.*
- *To implement Renewable Energy Programme & Schemes.*
- *There were 36 Diesel Generating Power Houses scattered in various islands with aggregate total capacity of 65 MW before the tsunami hit A & N Islands on 26.12.2004.*
- *The installed capacity of the Power Houses is ranging between 6 KW to 12500 KW. One Hydroelectric power station having a capacity of 5.25 MW has also been established and commissioned at Kalpong River, North Andaman. A 20 MW IPP DG Power House at South Andaman has also been established and commissioned.*

## Power Availability

- Round the clock power supply through DG Sets is available in all major islands to about 92.5% of the population.
- Electric power supply is available for 5 to 16 hours per day through small DG Power Houses and Solar PV Power Plants at other isolated islands / locations holding 2.5% of total population.

## Village Electrification

- 314 Villages out of 547 villages as per 2001 census were electrified both by conventional and non-conventional sources, which hold around 95% of total population (pre tsunami).



## POST TSUNAMI RESTORATION

- Around 37 MW generating capacity, out of a total of 65 MW capacity all over the islands, was dislocated and shutdown due to tsunami on 26.12.2004, out of which around 32 MW generating capacity has been made operational and 5 MW new DG capacity has been added.
- In Southern Nicobar group of islands 405 Kms. of T&D systems was damaged, out of which 124 Kms. T&D system has been restored.
- All the 62 intermediate shelter locations have been electrified.
- 16 Kms. of 11 KV and 33 KV power cables between Chatham and Phoenix Bay Power Houses has been laid and energized.
- About 525 Nos. portable Gen sets arranged by the Ministry of Power has been distributed for electrification of relief camps and for providing power supply to emergency services such as Hospitals, Wireless Stations etc., immediately after the tsunami.
- 30 Nos. DG Sets of various capacity supplied by NTPC have been installed in make shift Power Houses at various islands affected by tsunami for electrification of intermediate shelter locations.



## POWER SUPPLY

- 33 KV overhead transmission line between 20 MW IPP Power House at Bambooflat and Port Blair has been repaired at three mid sea locations on towers.
- 10 Nos. DG Sets supplied by M/s NTPC at Port Blair and installation & commissioning in southern group of islands are in progress.

### IMPROVEMENTS CARRIED OUT

- The Installed Capacity of D.G. Set in South Andaman area prior to Tsunami was 34.5 MW and now it is 39.5 MW.
- The total number of Power Houses in the Islands prior to Tsunami was 37 nos which has now been increased to 45 Nos.
- Reliability of power supply in and around Port Blair Municipal Area has improved due to laying of underground high Tension Power Cable from Chatham Power House to Phoenix Power House.
- Prior to Tsunami 72 villages in Car Nicobar District were not electrified, however now all villages / shelters have been electrified.



### FUTURE

#### New & Renewable Sources of Energy

- Around 5.5 MW of power generation capacity through various renewable energy sources, which is around 85% of total potential of 6 MW.