

# Power Sector in Bihar

Presentation

before

Deputy Chairman, Planning  
Commission

November 18, 2009

# Generation – Present Scenario

- Average per capita consumption of electricity of just over 100 units against all India average of 717 units - lowest in the country
- No new unit set up in the state other than those in the central sector since 1985
- Total Installed Capacity (including hydel) about 600 MW against peak demand of 2500 MW
- Present Generation – 130 - 175 MW after restoration of one unit each at Barauni and Kanti (Muzaffarpur)
- Average availability of about 900-1000 MW against central sector allocation of about 1600 MW

# Generation - Initiatives

- State sector :
  - Expansion of Barauni (2 x 250 MW) and Kanti (2 x 195 MW)
  - New plant at Nabinagar ( 3 x 660 MW) through JVC of BSEB & NTPC (50:50)
- Setting up of IPPs at Banka (4 x 660 MW), Pirpainty (2000 MW) and Kahalgaon ( 2 x 660 MW)

# Generation

- Bids invited for procurement of 1500 MW under Case I
- Under tariff based bidding (Case II) through JVC of BSEB & IL&FS - about 4000 MW
  - three locations identified at Buxar, Lakhisarai and Pirpainty with capacity of 2 x 660 MW at each location

# Sub Transmission System

- Major strengthening underway - Bihar Sub-transmission Scheme under RSVY
- Phase I completed with commissioning of 18 new grid sub-stations (GSS) and 876 kms new transmission lines
- Scope of Phase II, Part I –
  - 10 new GSS
  - New transmission lines – 523 kms
  - Capacity augmentation of 19 and R & M of 8 old GSS
- Expected completion – December 2010

# Sub Transmission System

- Scope of Phase II, Part II
  - Construction of 17 new GSS
  - Capacity augmentation of 12 GSS
  - New transmission lines - 1513 kms
- Expected completion – September 2011
- Present grid capacity at 132/33 KV level – 3096 MVA
- Capacity after implementation of Part II – 5176 MVA

# Rural Electrification - RGGVY

- Under implementation in all 38 districts
- Implementing Agencies – PGCIL, NHPC & BSEB
- Progress of electrification –
  - Total no. of inhabited villages - 39015
  - No. of villages to be electrified – 29050
  - Infrastructure developed – 17751
  - Villages electrified and taken over by BSEB – 7038
- Present distribution capacity Power Sub-station (PSS) level – 3294 MVA
- Capacity after implementation of construction of PSS under RGGVY & other schemes – 6268 MVA

# RRGVY – Implementation Issues

- Uniform benchmarking at the all India level for project preparation
- Use of low capacity – 16 and 25 KVA transformers
- Provision of transformers only for BPL consumers
- Coverage of only revenue villages and not hamlets (tolas)
- Provision for single phase supply



# Power Sector Reforms

- Separate JVC formed with NTPC for Kanti (Muzaffarpur) and proposed Nabinagar power plants
- Appointment of distribution franchisee under process for four major towns of Patna, Gaya, Muzaffarpur & Bhagalpur
- Revenue collection based franchisee under operation in 277 rural feeders (11 KV)
- Bihar Electricity Regulatory Commission in place since July 2005
- Tariff revised by the Regulator in 2008-09 -  
Petition already filed for revision of tariff in 2009-10

# Revenue Collection

Year	Input Power (MU)	T & D loss (%)	Revenue Collection (Rs crores)
2005-06	7227.34	42.83	936.77
2006-07	7886.79	42.61	958.85
2007-08	7846.95	39.06	1304.72
2008-09	8490.14	37.83	2034.75
2009-10 (up to Oct 09)	5763.83	35.00	1014.89

# Key Issues

- Early coal linkage on a priority basis for state sector and private sector projects
- Water clearance by the Ministry of Water Resources for power projects in the state including state sector projects
- Issues relating to implementation of RGGVY
- Release of additional funds under RSVY for R & M of Barauni & Kanti TPS and the Sub-transmission scheme
- Recommendation of MoP for external funding of 126 MW Dagmara Hydel Project