Coal Movement on Ganga & Brahmaputra

Mumbai
18th Jan 2010
Waterways of India

- Role of IWAI- Develop infrastructure and Regulate movement on National Waterways

- 3 National Waterways developed & operational

- GoI has notified two more waterways i.e NW 4 and NW 5 in Nov.2008

- Other waterways to be developed by States
**Distance**

1620 km Haldia- Allahabad

**Fairway**

Least available depth (LAD)

- 3 m Haldia-Farakka
- 2.5 m Farakka - Patna
- 2 m Patna- Varanasi
- 1.5m Varanasi-Allahabad

**Navigational Aids**

- Night navigation aids available between Tribeni and Farakka (being extended upto Varanasi by March 2010)
- Day navigational aids on entire stretch
National waterway - 2

**Distance**
Dhubri to Sadiya – 891 km

**Fairway**
Least available depth (LAD)
- 2 m Dhubri- Dibrugarh (768 km)
- 1.5 m between Dibrugarh - Sadiya

**Navigational aids**
- Night navigation aids also available between Dhubri and Dibrugarh (768 km)
- Day navigation aids available in entire waterway
IWT Terminals on NW 1 & 2
Inland waterways Advantage

- **Energy efficiency** – 1HP can move approx. 150 kg on road, 500 kg by rail & 4000 kg by IWT

- **Fuel efficiency** – 1 litre of fuel can move 24 ton km by road, 85 ton km by rail & 105 ton km by IWT

- **High single unit carrying capacity** – one Barge = 15 rail wagons = 60 trucks

- **Environment friendly** – low air & noise pollution

- **No need for land acquisition**

- **Medium for movement of ODC cargo** - most efficient and reliable

- **Least capital intensive**
IWAI Initiatives

- Imported Coal Transportation on NW-1
- IWT Terminal at Haldia
- Proposed Logistic Solution for Domestic Coal
- Coal Handling Terminal at Jogighopa on NW2
Proposed Logistic Solution for Imported Coal

• Vessel call at Sands Head or any other location capable for handling Panamax vessel
  - Mid stream transshipment (Transshipper)

• Movement of Transshipper and Panamax vessel to Diamond Harbour and Sagar for midstream discharge into barges

• Movement of coal through barges to Farakka and Kahalgaon
  - Target Quantity 2.8 mn MT
  - Merry Go round of Barges for 1500 MT (43 nos)

• Farakka and Kahalgaon Terminal

• Material handling equipments as stipulated by NTPC
Logistics Solution for Coal

Mid Stream Transshipment Point

Diamond Harbour

Sagar Islands
Logistics Solution for Coal Transportation on Haldia - Farakka stretch

Target Quantity: 1.2 mn MT
Turnaround of Barges: 6 days
No. of Barge required: 16
Operational period: 10 months