

Inland Water Transport – Potential for use in Movement of Fertilizers

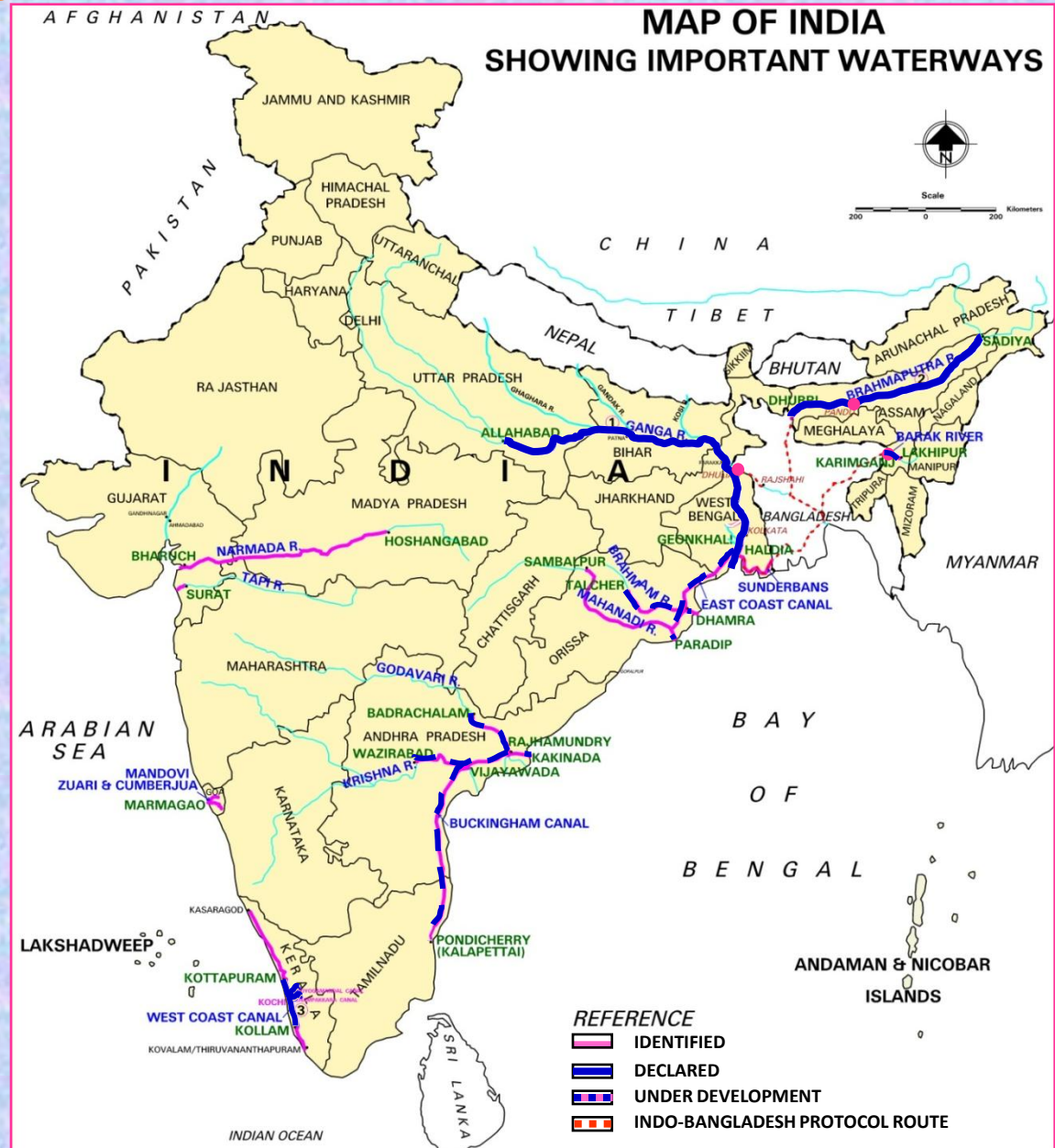


Inland Waterways Authority of India

28th January 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



National Waterway - 1

Distance

1620 km Haldia- Allahabad

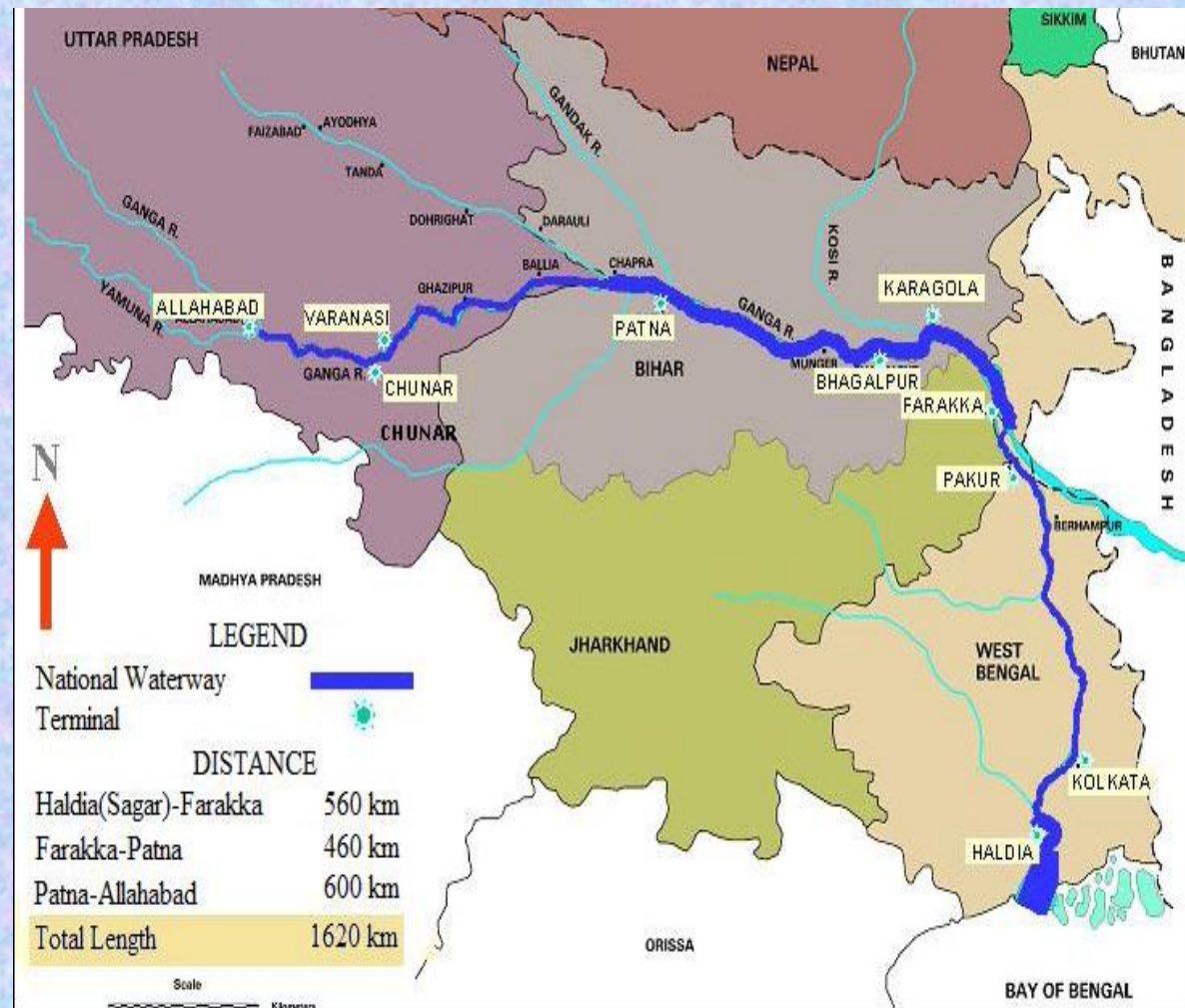
Fairway

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

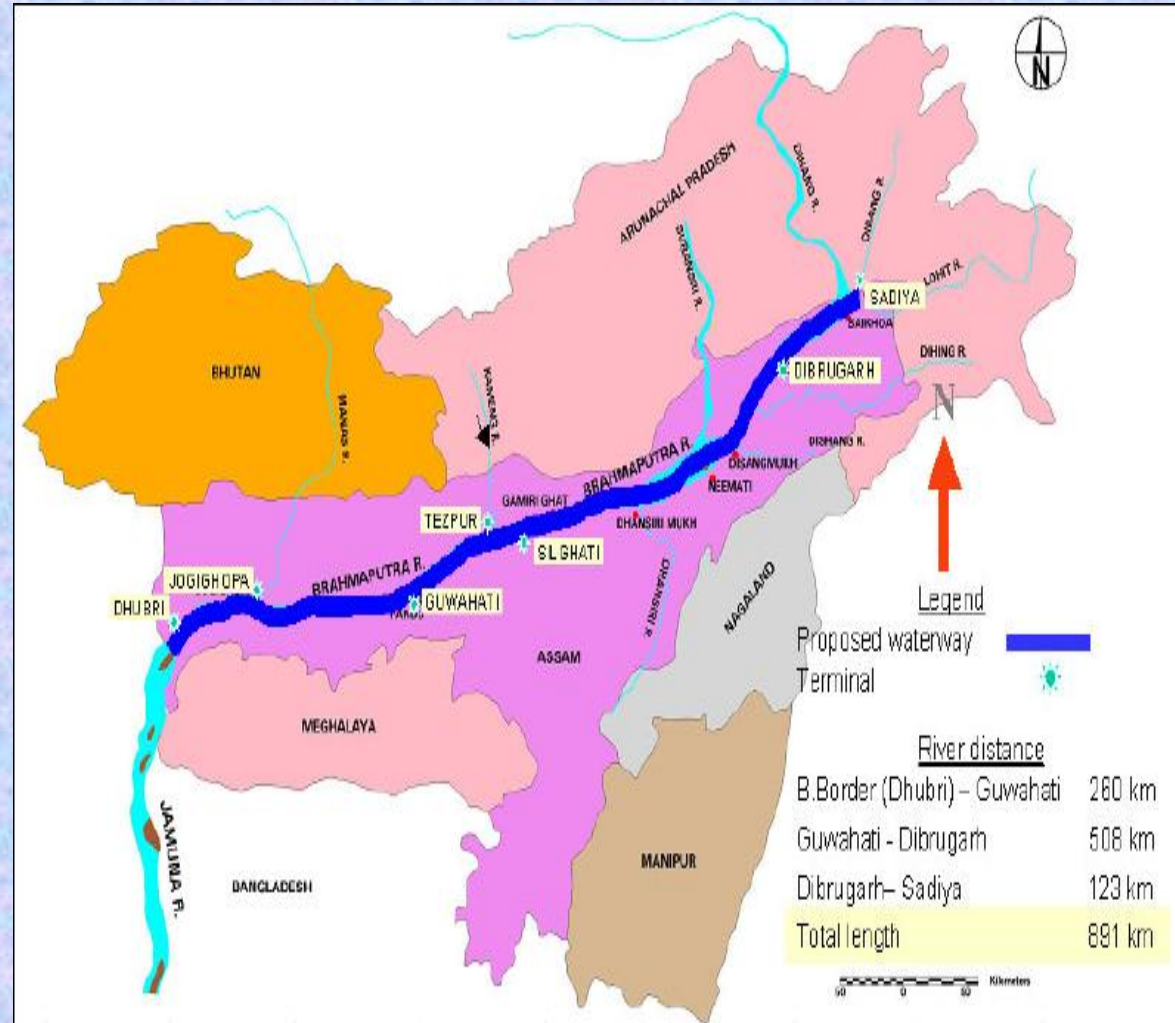
Fairway

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



National Waterway – 3

Distance

- 205 km West Coast Canal (Kottapuram – Kollam)
Udyogamandal & Champakkara canals

Fairway

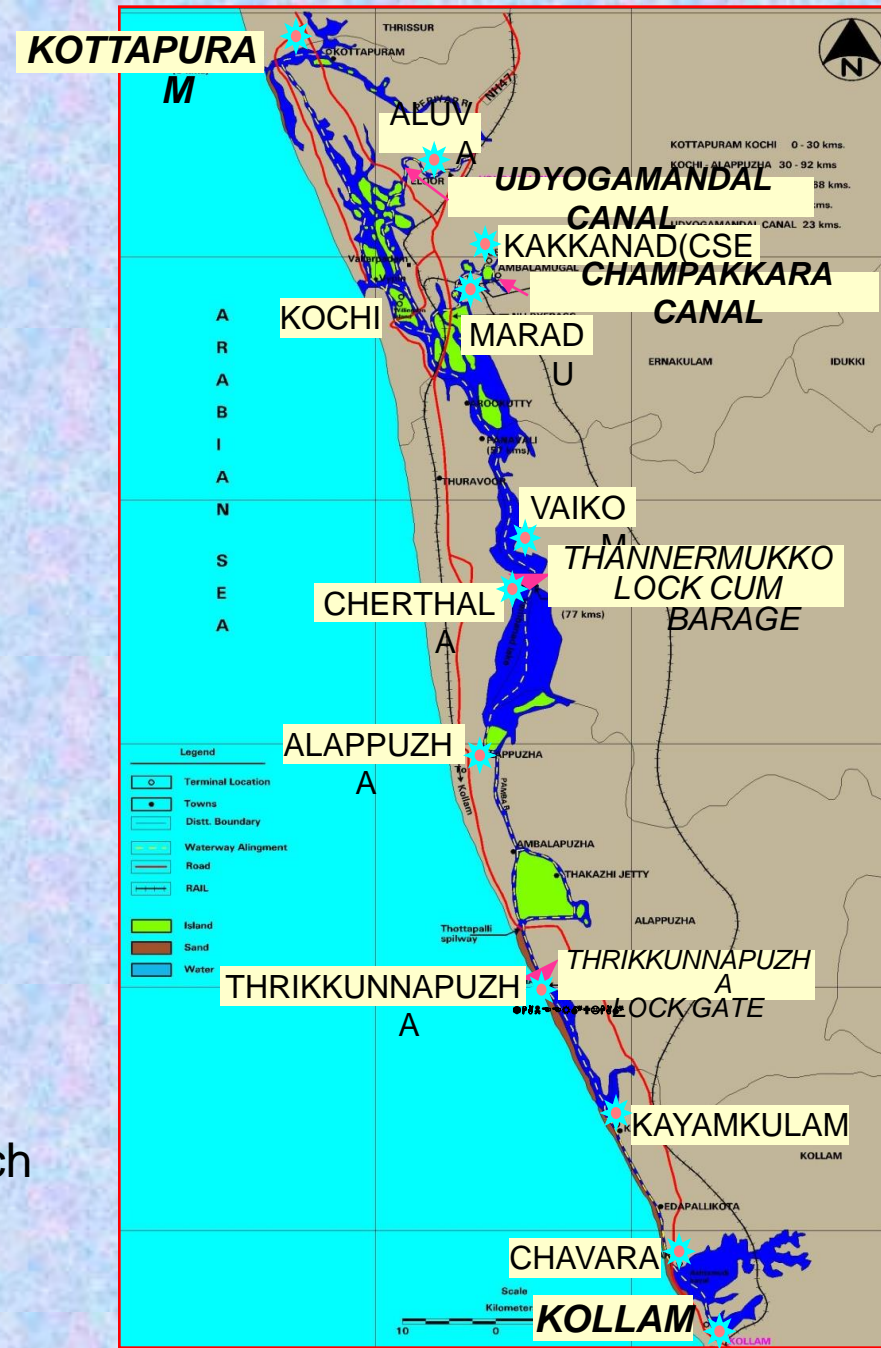
Least available depth (LAD)

- 1.5 m Kottapuram - Kochi
- 2 m Kochi - Alappuzha
- 1.5 m Alappuzha - Kollam
- 2 m Champakkara Canal
- 2 m Udyogmandal canal

With completion of capital dredging, 2 m LAD would become available in entire stretch

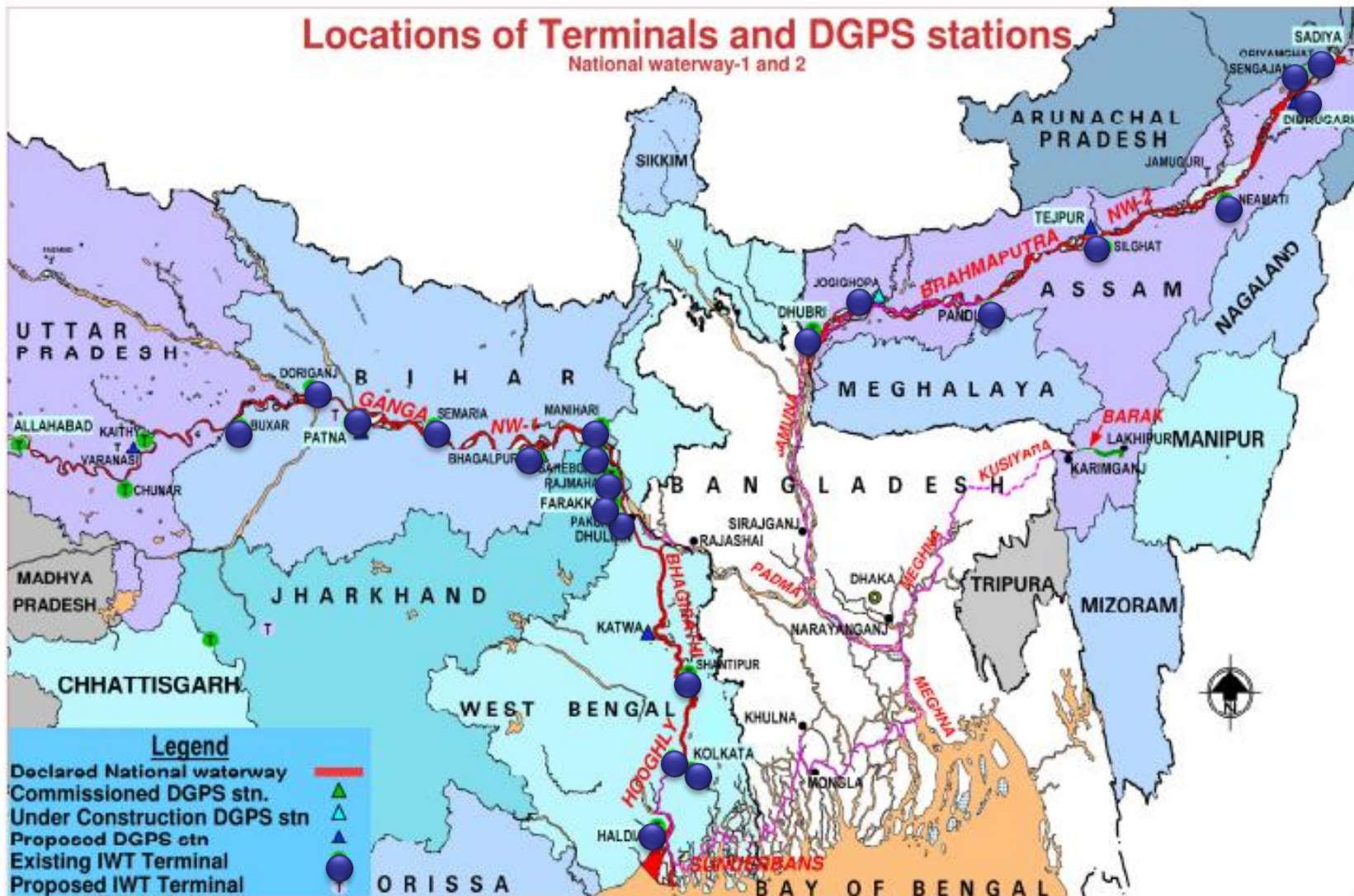
Navigational Aids

Night navigation aids available on entire stretch



IWT Terminals on NW 1 & 2

Locations of Terminals and DGPS stations National waterway-1 and 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
- Suitable for movement of bulk cargo like coal, cement, flyash, foodgrains, fertilizers
- Least capital intensive

IWT scenario

- Cargo movement by IWT showing an increasing trend: 58.08 million tonnes (3.56 btkm) in 2008-09 as compared to 32.48 million tonnes (1.63 btkm) in 2003-04
- However, usage of IWT still minimal in India
- Integration of coastal shipping with IWT and transportation of imported goods from ports through IWT holds the key for greater use of IWT

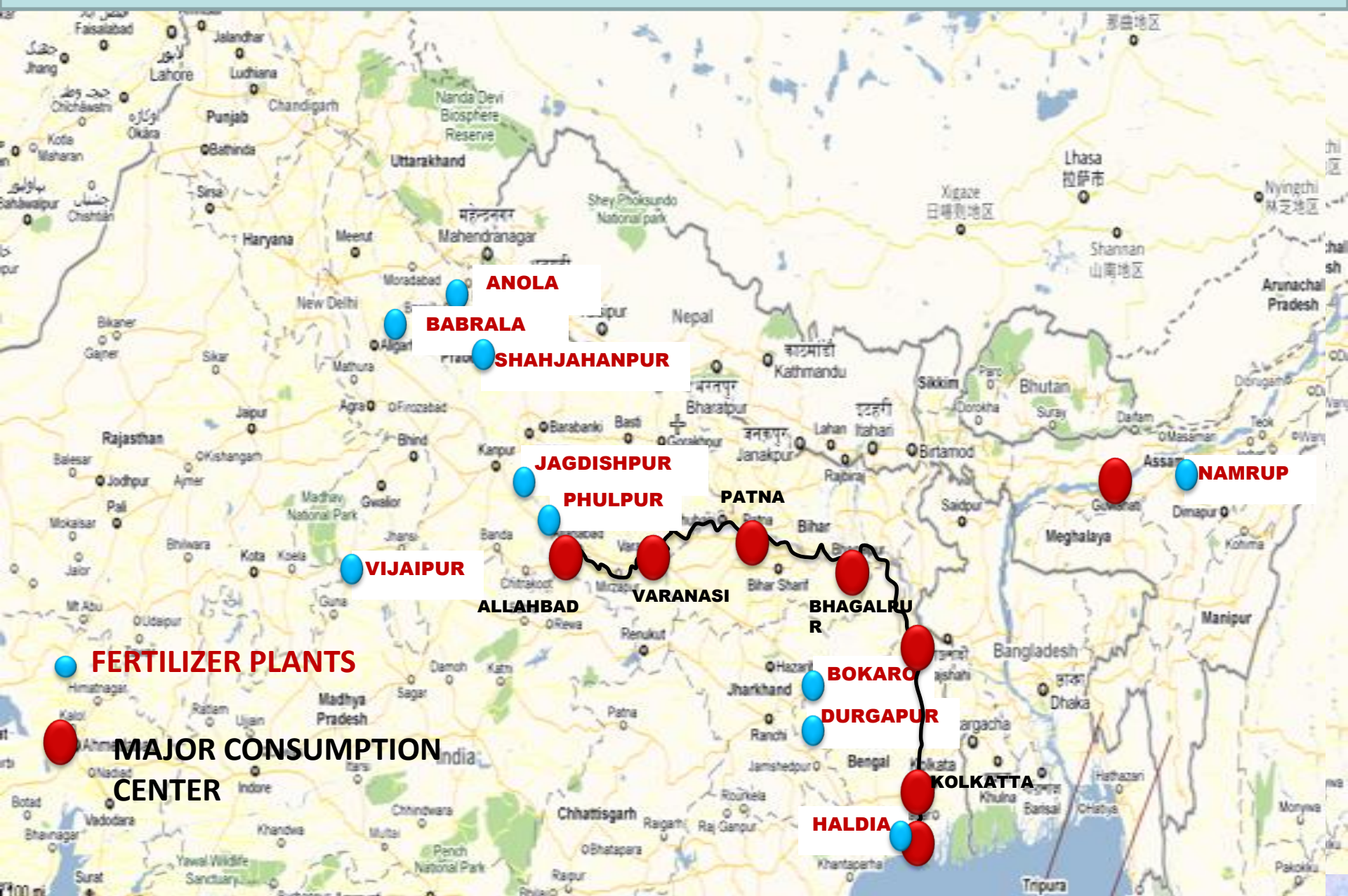
Status of Fertilizers

- Increasing trend in consumption of chemical fertilizers - 1.61crore tonne in 2001-02 to 2.26 crore tonne in 2007-08
- 56 large size fertilizer plants in India
- Country largely self-sufficient in Nitrogenous fertilizers – urea
- Dependent on import of raw materials & intermediates required for production of Phosphates
- Fully dependent on imports of Potash

Fertilizer Movement Today

- More than 110 lakh tonnes of fertilizer imports per annum
- Imported fertilizer handled at 29 ports
- Minor ports handle nearly 35% of imported fertilizers
- Railways move nearly 75 percent of fertilizers
- Congested bottleneck routes; shortage of covered wagons; pilferage major problems
- Balance moved by roadways

FERTILIZER PLANTS ON NWs /IN ITS PROXIMITY



IWT potential

- Major consumption States like Bihar, West Bengal and eastern Uttar Pradesh can be served by IWT
- Fertilizer imports can be taken to major consumption points through integration of coastal shipping & IWT
- If volumes are committed, logistics operators can offer 'economically viable' rates using IWT as a multi-modal logistics solution
- IWAI can play role of 'facilitator'

Policy Support

- M/o of Chemicals & Fertilizers should **include IWT** for payment of **equated freight subsidy** to manufacturers to cover transportation costs from production plants to consumption centres
- Provision of navigable fairway, Night navigation facilities, Fixed & floating Terminals with mechanized cargo-loading & unloading facilities to be provided by IWAI

THANK YOU