

Projects and Technologies in Inland Waterways for Russian companies

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Chairperson,

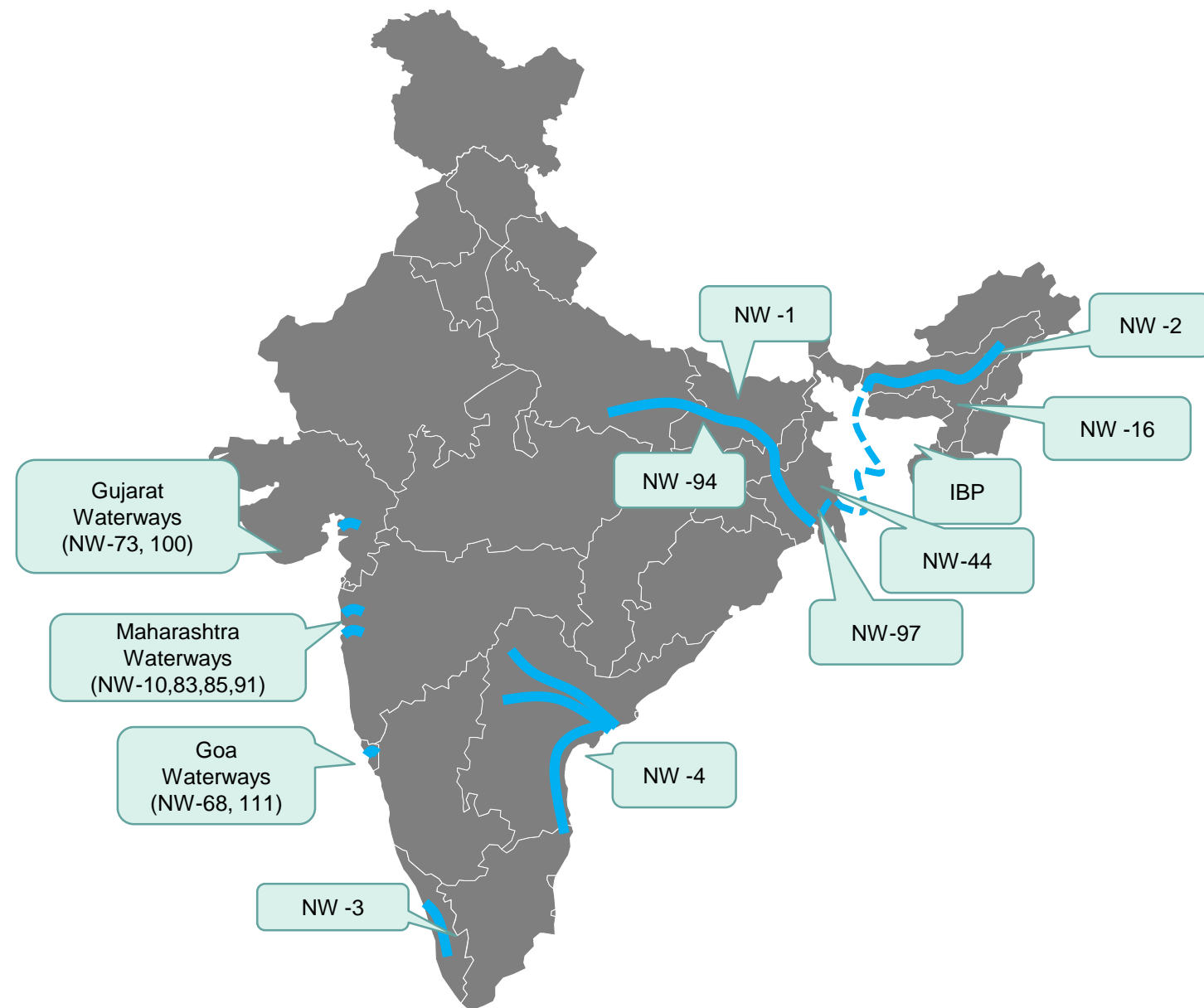
Inland Waterways Authority of India

(Ministry of Shipping), Government of India



Inland Water Transport (IWT) sector overview

- ❑ **111** National Waterways, **23** (5200 km) have been identified with potential for mechanized crafts, **16** are currently operational
- ❑ **73.6** MMT traffic in FY 2019-20, **2.4** times increase since 2015
- ❑ Currently **2%** Modal share of IWT in comparison with other modes of transport in India
- ❑ Expected growth by 2030: **120** MMTPA - New NWs to play a significant role in overall growth



Five year vision

Vision: Develop a self-sustainable, economical, safe & environment friendly supplementary mode of transport for the overall economic growth of the country

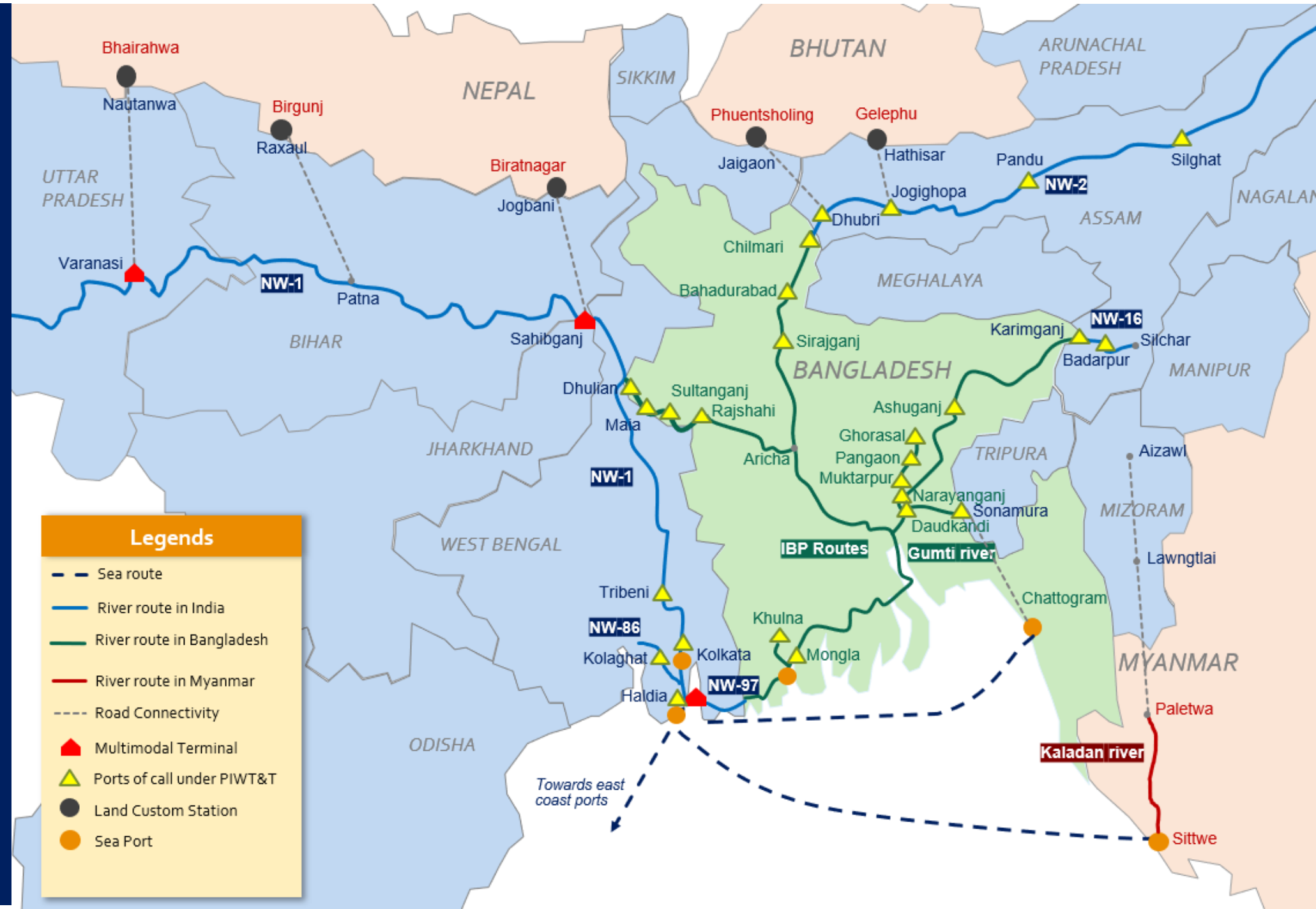
Initiatives taken to achieve vision

- ❑ Increase modal share of IWT from current 2% to 2.5% by including bulk and containerised cargo
- ❑ Develop 5,000 kms of IWT routes across states (India@75 as per NITI Aayog)
- ❑ Enhance regional connectivity with North East India & neighbouring countries (Bangladesh, Nepal, Bhutan & Myanmar) through Eastern Waterway Connectivity – Transport Grid
- ❑ Integrate IWT with Coastal Shipping and other modes
- ❑ Target passenger / Cruise Tourism on waterways by encouraging private sector
- ❑ Focussing on infrastructure and service gaps
- ❑ Introduction of e-initiatives

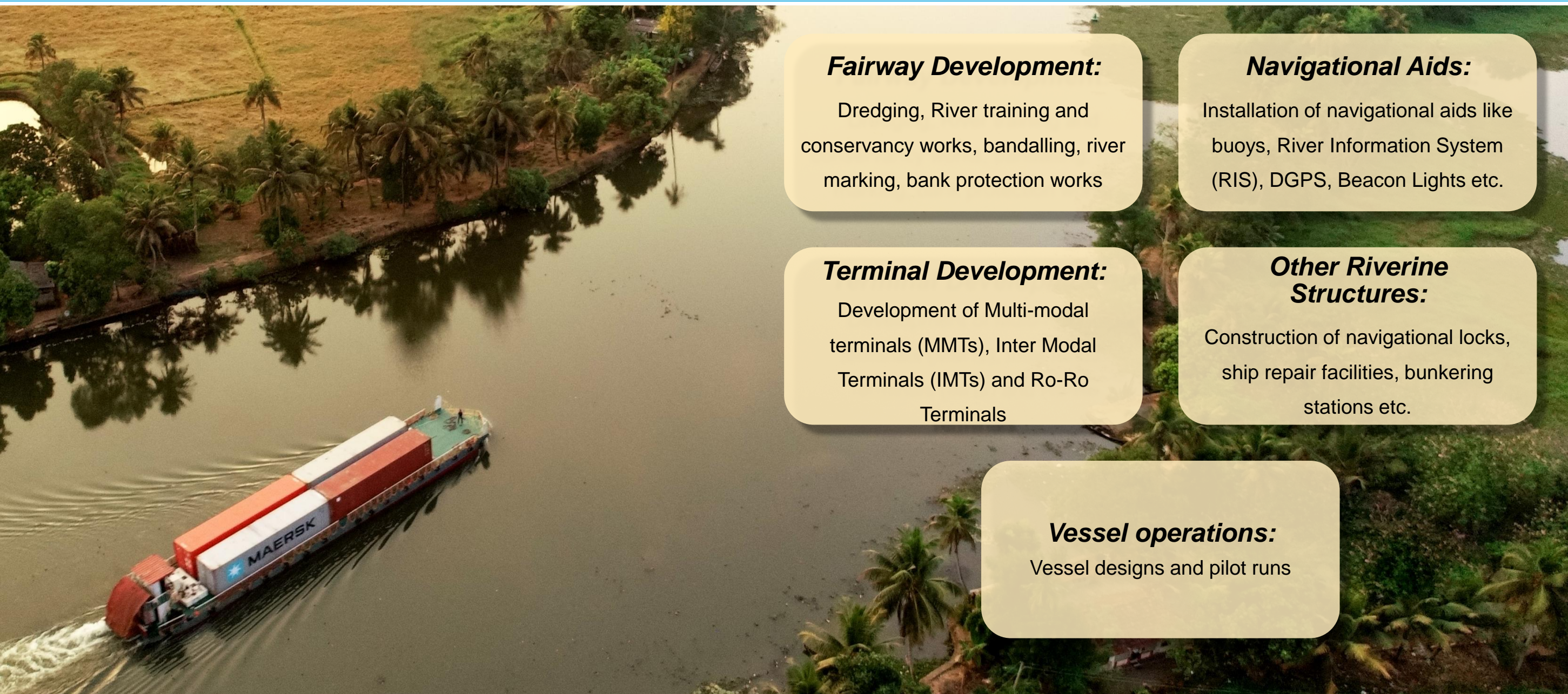
Development of Eastern Grid: Connectivity with Bangladesh, Nepal, Bhutan and North Eastern States

Indo Bangladesh Protocol Routes (IBP):

- ❑ **10** Protocol routes covering **2650** kms
- ❑ **13** Ports of Call (PoC) each in both countries
- ❑ **3.5** MMT traffic in FY 19-20, CAGR~11% over last 5 years
- ❑ **600** vessels, **3,600** voyages currently in a year
- ❑ Major commodities include fly ash, coal, stone chips, project cargo, steel products, containers etc.



Infrastructure Development



Fairway Development:

Dredging, River training and conservancy works, bandalling, river marking, bank protection works

Navigational Aids:

Installation of navigational aids like buoys, River Information System (RIS), DGPS, Beacon Lights etc.

Terminal Development:

Development of Multi-modal terminals (MMTs), Inter Modal Terminals (IMTs) and Ro-Ro Terminals

Other Riverine Structures:

Construction of navigational locks, ship repair facilities, bunkering stations etc.

Vessel operations:

Vessel designs and pilot runs

Opportunities for Russian Industry

- ❑ Construction of Shallow draft cargo and passenger vessels. The vessels are to be procured by Private players / Shipping companies independently.
- ❑ Catamaran and environment friendly hybrid vessels.
- ❑ Construction of **Side floaters** for reduction of Vessel draft.
- ❑ Ship repair facilities proposed at Sahibganj & Kolkata on NW-1 and Jogighopa & Pandu on NW-2 which can be explored for development in collaboration with an Indian Partner.
- ❑ Cooperation in areas of imparting training and skill development for management of inland navigable channels may be explored



- ❑ Private sector participation in Terminal Management. Russian Firms may consider participating in the bidding process. Following terminals are to be given for O&M in FY 20-21
 - ❑ MMT Varanasi (Uttar Pradesh), Sahebganj (Jharkhand), Haldia (West Bengal) and Gaighat Terminal (Patna) on NW-1.
 - ❑ Pandu and Dhubri Terminal on NW-2.
 - ❑ Karimganj & Badarpur on NW-16.
 - ❑ 9 small terminals on NW-3 (Kerala).
- ❑ Smart Hydrography development
- ❑ Development of smart vessel tracking system, auto pilotage, safety and navigation framework (AIS/ENC/Beacon/Buoys etc.)

Thank you...

IWAI Services:

National Waterways

- ☐ Survey
- ☐ Navigation, Infrastructure and Regulations
- ☐ Fairway Development
- ☐ Pilotage
- ☐ Coordination of IWT with other modes

General

- ☐ Advise Central Govt.
- ☐ Carry out hydrographic surveys
- ☐ Assist State Governments
- ☐ Develop consultancy services
- ☐ Research & Development
- ☐ Classification of waterways
- ☐ Standards & safety

Important Contacts:

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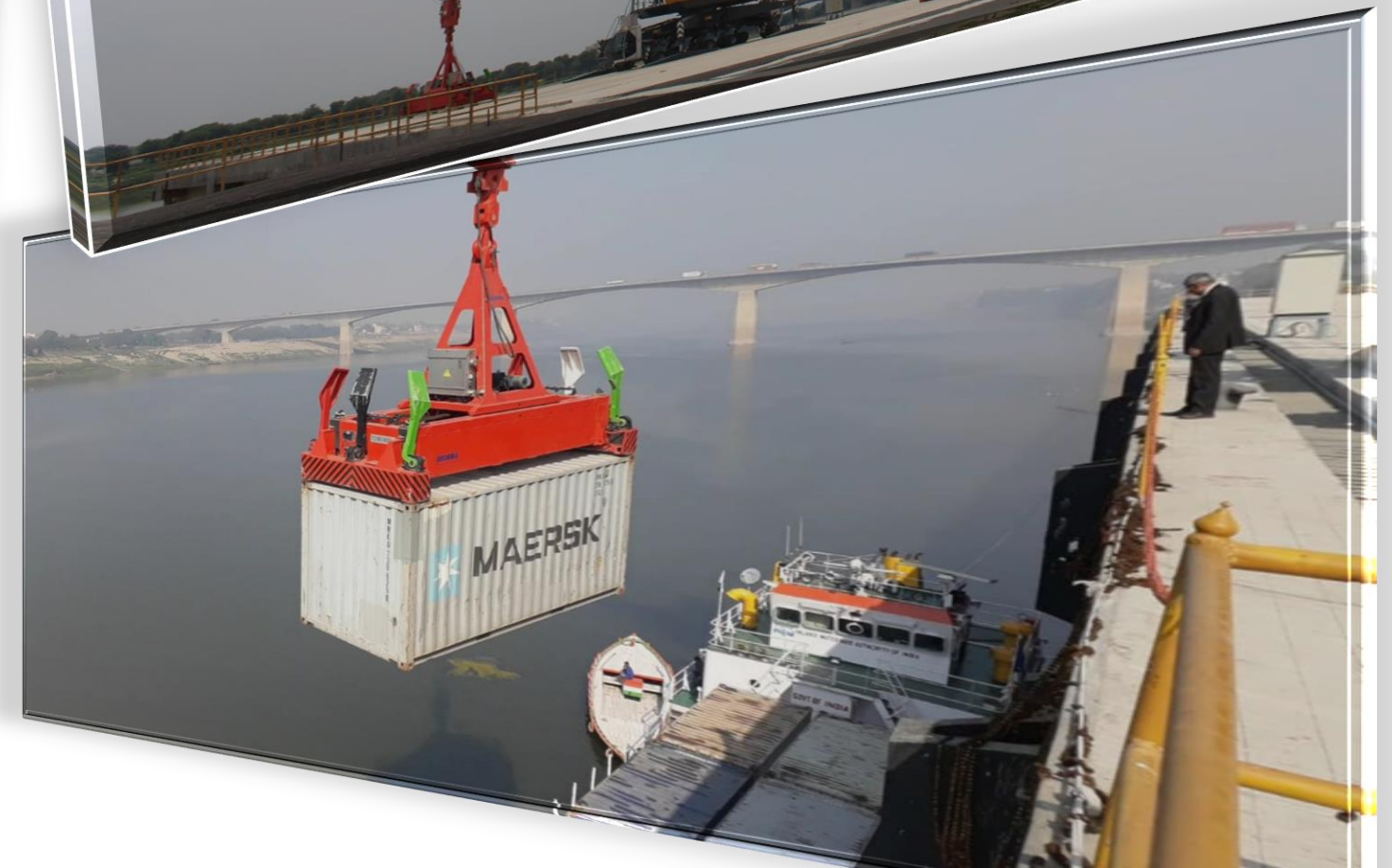
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Varanasi Terminal



Sahibganj Terminal

Shallow Draft Cargo & Passenger Vessels







Shallow draft passenger vessels



Ship repair facilities at Kolkata



Training at NINI facility



Training at NINI facility