

**A PRESENTATION ON NW - 2
(RIVER BRAHMAPUTRA)
AS AN ALTERNATIVE MODE OF
TRANSP ORT**

FEB 2014

NATIONAL WATERWAYS

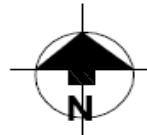


NATIONAL WATERWAYS

WATERWAY	LENGTH (KM)	STATES SERVED
N. W. 1 (HALDIA TO ALLAHABAD)	1620	4 (UP, Bihar, Jharkhand and WB)
N.W. 2 (DHUBRI TO SADIYA)	891	4 (Assam, WB, Arunachal, Meghalaya)
N.W. 3 (KOLLAM TO KOTTAPURAM)	205	1 (Kerala)
N.W. 4 (KAKINADA TO PUDUCHERY)	1078	3 (AP, Tamil Nadu, Puducherry)
N.W.5 (GOENKHALI TO TALCHER)	588	2 (Odisha, WB)
N.W. 6 (LAKHIPUR TO BHANGA – in process)	121	4 (Assam, Mizoram, Manipur)
TOTAL LENGTH	4503	

EASTERN INLAND WATERWAYS GRID

NW-1	- 1620 km
NW-2	- 891 km
NW-5	- 588 km
NW-6	- 121 km
Prot. routes	- 1665 km (includes 220km in Indian side)
Total:	- 4885 km



India map

Details

BENEFITS OF IWT MODE

Cost savings:

- 1 HP moves 150 kg on road, 500 kg on rail & 4000 kg on water
- 1 liter of fuel moves 24 t-km on road, 85 on rail & 105 on IWT
- Cost of developing waterways much lower than rail & road

Environment friendliness of IWT:

- Least fuel consumption per tonne- km
- CO₂ emission is 50% that of a truck
- Negligible land requirement
- Safe mode for hazardous cargo

Supplementary mode:

- Reduces pressure on road and rail and thus cuts delays in transportation
- Reduction in congestion and accidents on road

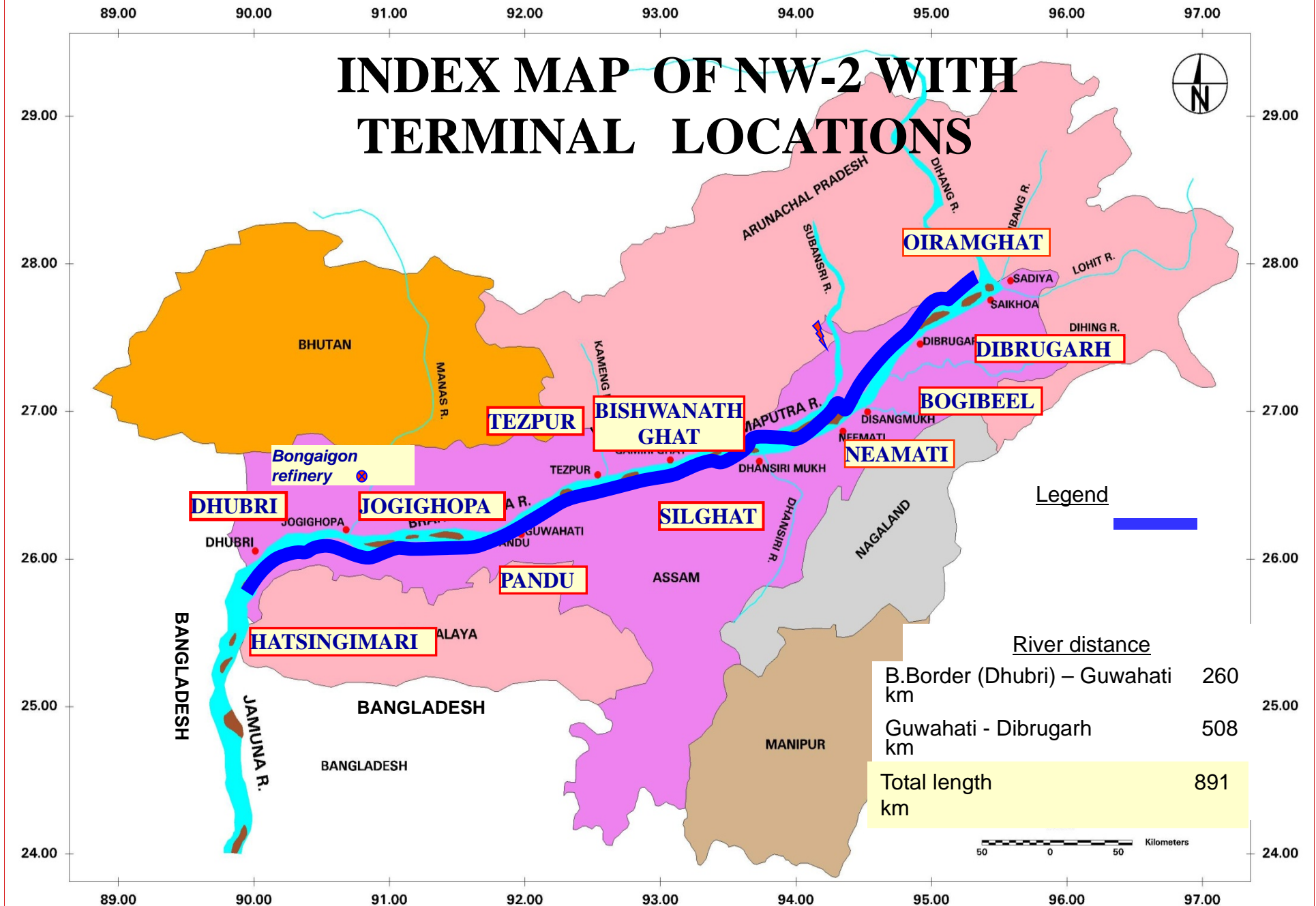
NW -2 (RIVER BRAMHAPUTRA)

**A RIVER WITH UNIMAGINABLE
POWER, BEAUTY & CHALLENGES**

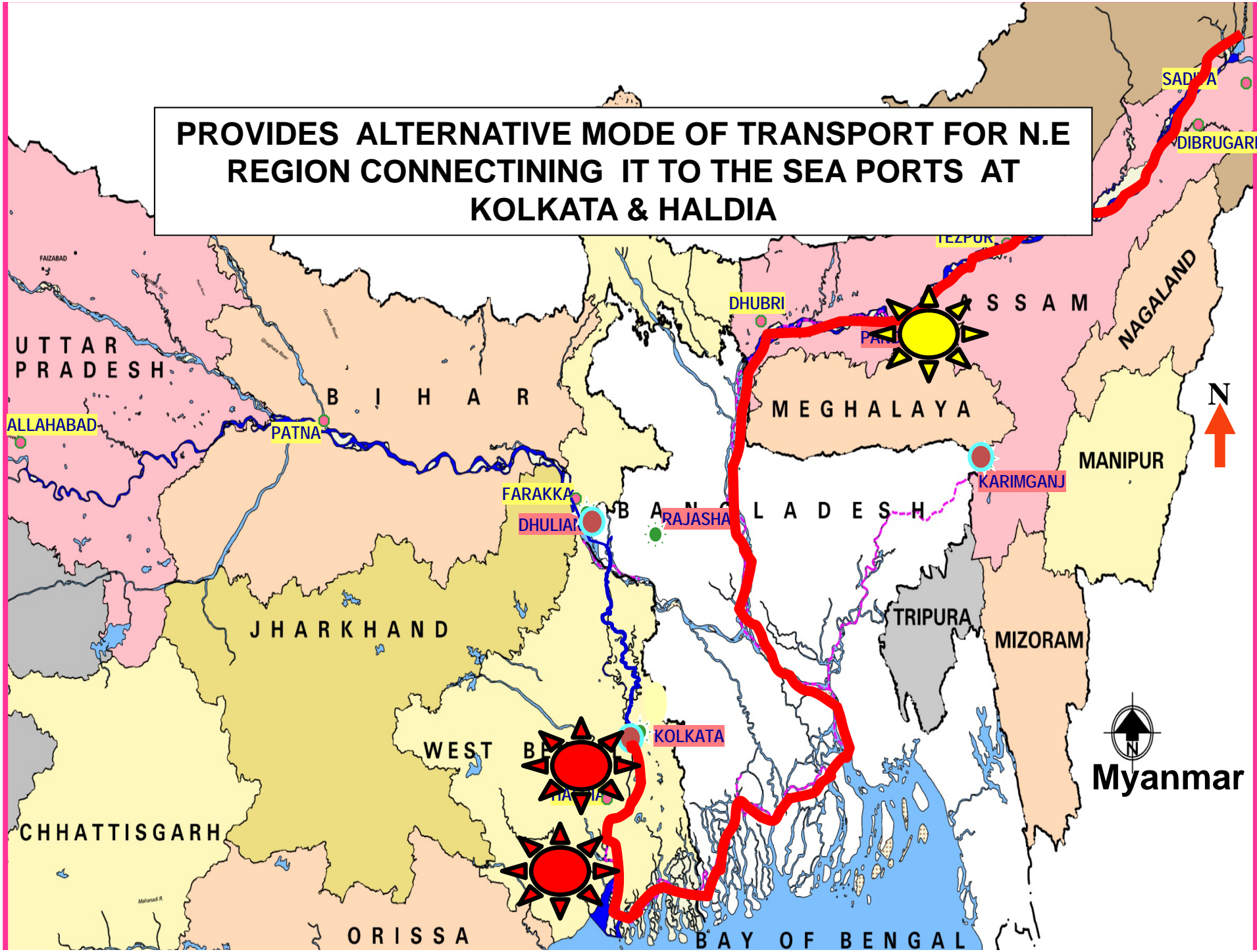


BRAHMAPUTRA RIVER (NATIONAL WATERWAY No. - 2)

INDEX MAP OF NW-2 WITH TERMINAL LOCATIONS

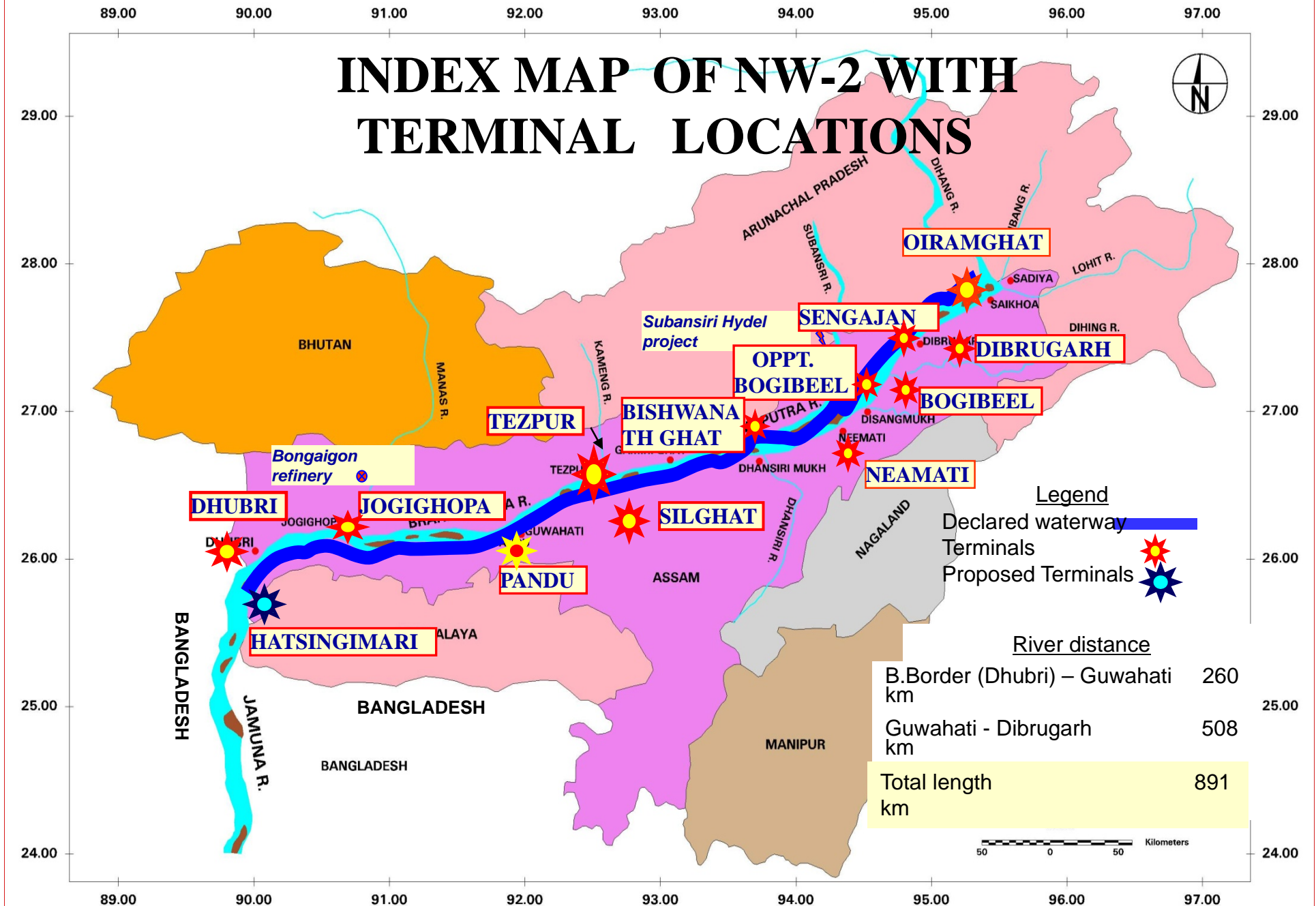



PROVIDES ALTERNATIVE MODE OF TRANSPORT FOR N.E REGION CONNECTING IT TO THE SEA PORTS AT KOLKATA & HALDIA



BRAHMAPUTRA RIVER (NATIONAL WATERWAY No. - 2)

INDEX MAP OF NW-2 WITH TERMINAL LOCATIONS





**TOTAL LENGTH = 891 KM, SPANNING
ALMOST ALL ACROSS THE STATE OF ASSAM**

**DECLARED AS NATIONAL WATERWAYS NO. 2 IN 1988
AND SINCE THEN, IT IS BEING DEVELOPED FOR IWT
MOVEMENT**

**THE RIVER ENTERS ASSAM FROM THE FOOT HILLS OF HIMALAYA
WITH TREMENDOUS ENERGY WHICH OFTEN CAUSES EXTENSIVE
BANK EROSION/SAND BAR FORMATION**

**10-30
KM**

AREAL VIEW OF NW 2

Image © 2010 TerraMetrics

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27°45'33.94" N 95°22'35.67" E elev 407 ft

©2009 Google™

Eye alt 17.56 mi

IWAI PROVIDES ASSURED DEPTH & WIDTH PARAMETERS IN NATIONAL WATERWAY NO 2 FOR SAFE MOVEMENT OF IWT VESSELS

IWAI VESSELS FOR UNDERTAKING RIVER CONSERVANCY WORKS

SURVEY LAUNCH – 5 NOS

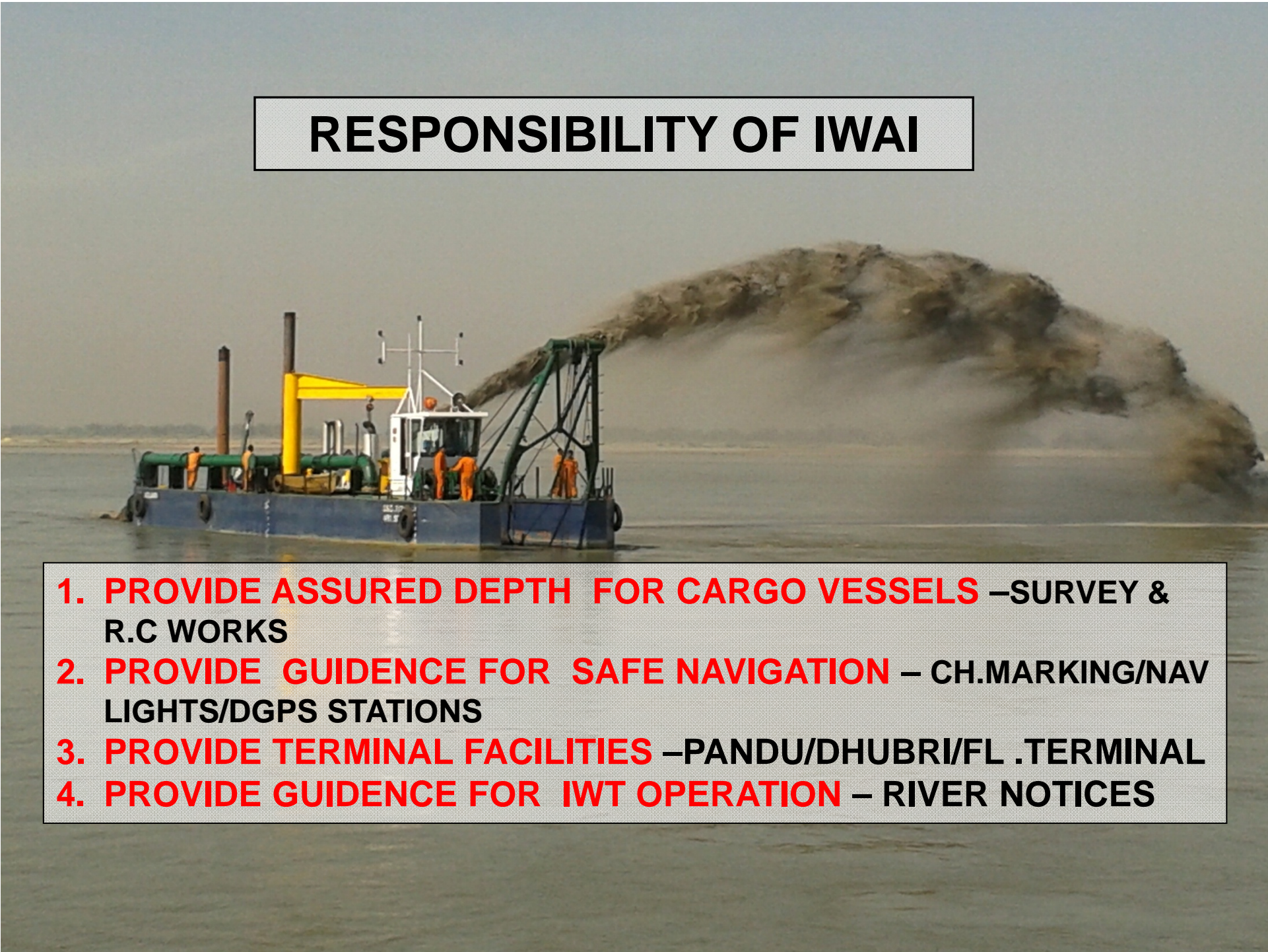
CSD – 3 NOS (ANOTHER 2 TO ARRIVE BY 2015)

HSD – 2 NOS , TUG – 3 NOS , FOLATING CRANE – 4 NOS

TERMINAL PONTOON – 10 NOS , HOUSE BOAT – 4 NOS



RESPONSIBILITY OF IWAI

- 
- 1. PROVIDE ASSURED DEPTH FOR CARGO VESSELS –SURVEY & R.C WORKS**
 - 2. PROVIDE GUIDENCE FOR SAFE NAVIGATION – CH.MARKING/NAV LIGHTS/DGPS STATIONS**
 - 3. PROVIDE TERMINAL FACILITIES –PANDU/DHUBRI/FL .TERMINAL**
 - 4. PROVIDE GUIDENCE FOR IWT OPERATION – RIVER NOTICES**



**MIN. WIDTH OF NAV. CHANNEL : 100M (APP) IN
ALMOST ALL PLACES UPTO DIBRUGARH & 50
METERS BEYOND DIBRUGARH**

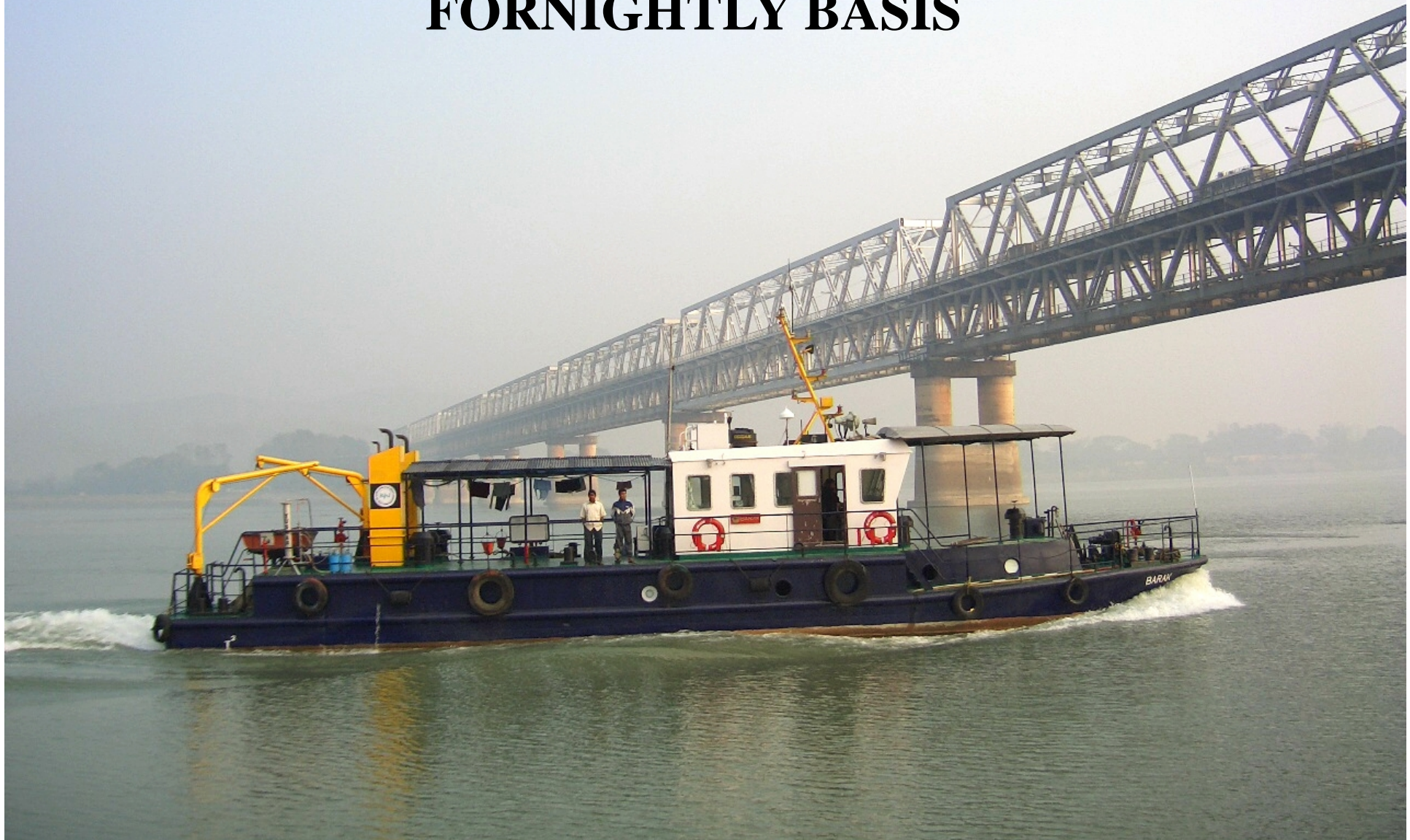
TARGETTED MINIMUM DEPTH :

B'BORDER – NEAMATI (629 KM) : 2.50 METERS

NEAMATI – DIBRUGARH (161 KM) : 2.0 METERS

BEYOND DIBRUGARH : 1.50 METERS

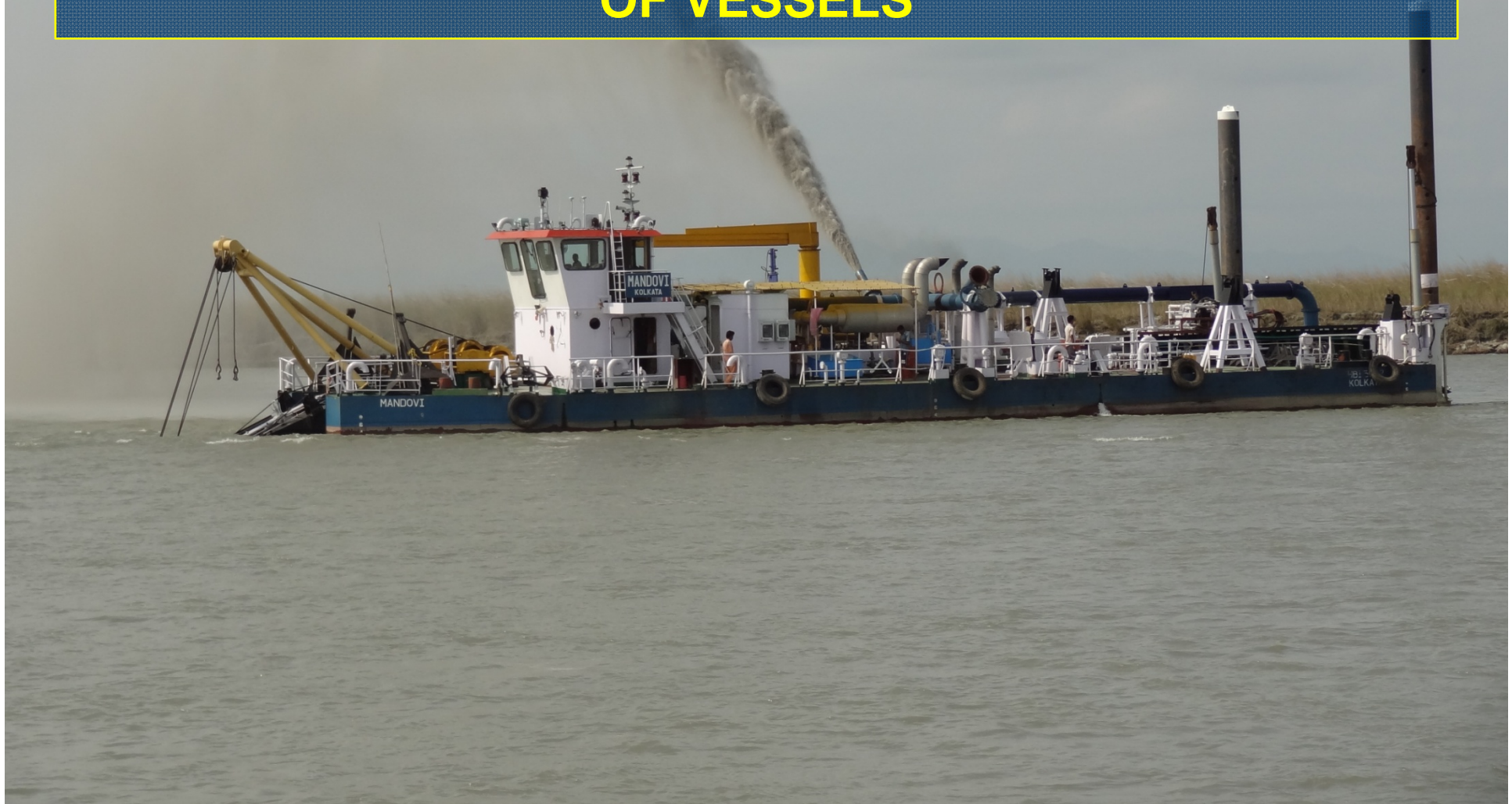
**HYDROGRAPHIC SURVEY IS UNDERTAKEN
IN THE ENTIRE LENGTH OF NW -2 ON A
FORNIGHTLY BASIS**



NAV DEPTH MAINTAINED DURING 2013-14

STRETCH	APR 13	MAY 13	JUNE 13	JLY 13	AUG 13	SEPT 13	OCT 13	NOV 13	DEC 13	JAN 14	FEB 14	MAR 14
B'B -P	2.6	2.6	2.8	3.4	3.0	3.0	2.6	2.5	2.5	2.5	-	-
P-N	2.5	2.6	3.0	3.0	2.7	2.7	2.2	1.8	2.2	2.2	-	-
N-D	1.8	1.3	2.1	1.8	1.8	1.6	2.0	2.0	2.0	2.0	-	-
N-O	1.4	1.0	1.5	1.0	2.3	1.8	1.5	1.5	1.2	1.5	-	-

DREDGING WORK IS UNDERTAKEN AT SHALLOW LOCATIONS ALONG WITH OTHER FORMS OF RIVER TRAINING WORKS TO ENSURE SMOOTH MOVEMENT OF VESSELS

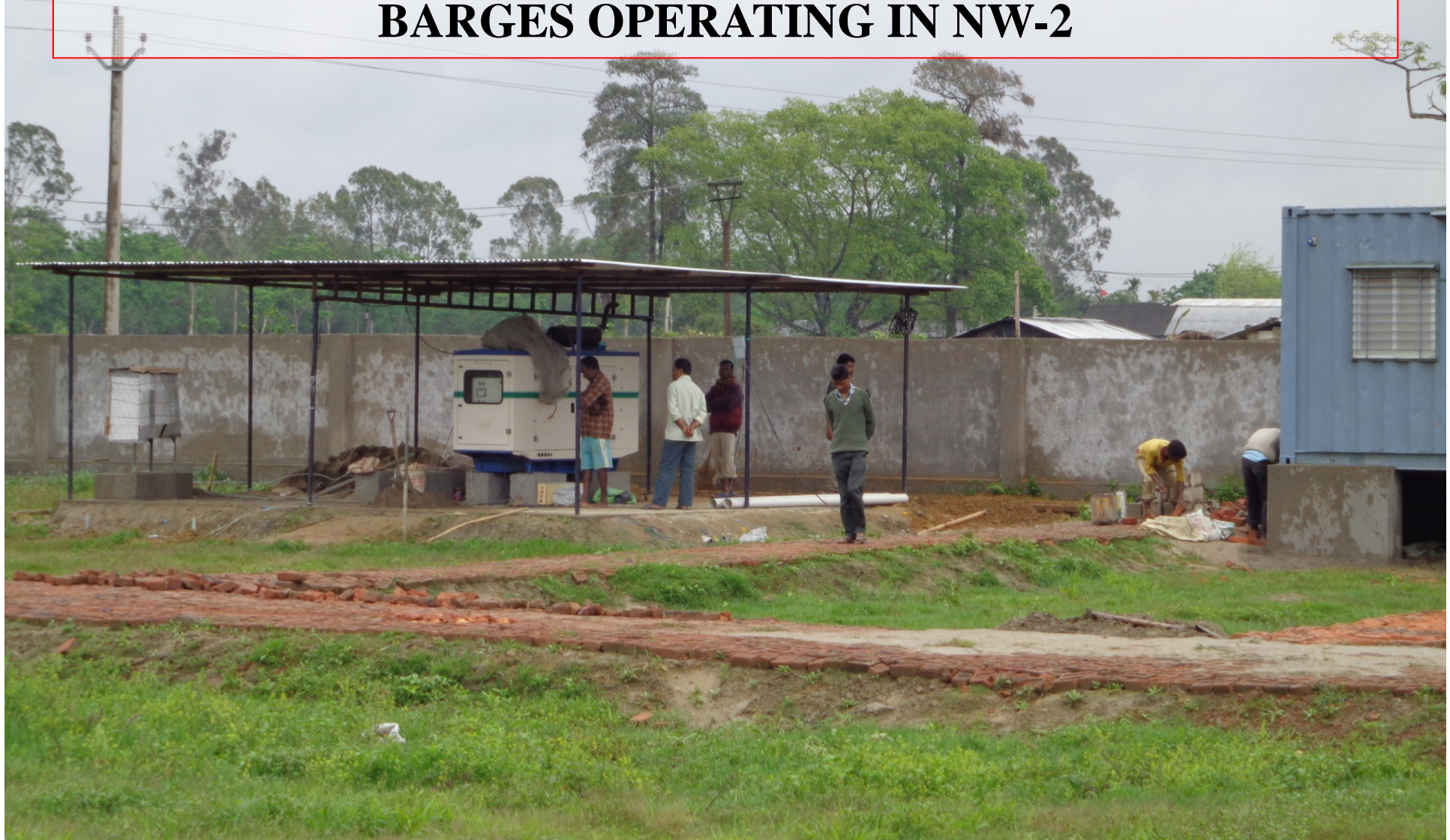


**DAY LIGHT CHANNEL MARKS ARE ERECTED AT ALL
REQUIRED LOCATIONS FOR SAFE NAVIGATION**



**BEACON LIGHTS WITH 5 NM RANGE ARE INSTALLED
IN B'BORDER – SHILGHAT STREACH OF NW -2 FOR
FACILITATING NIGHT NAVIGATION**

**4 NOS DGPS STATATIONS HAVE BEEN ESTABLISHED AT
DHUBRI, JOGIGOPA, SHILGHAT AND AT DIBRUGARH
FOR PROVING ELECTONIC GAUIDENCE TO IWT
BARGES OPERATING IN NW-2**



**IDEAL SIZE OF CARGO VESSEL THAT CAN PLY BETWEEN
KOLKATA TO DIFFERENT DESTINATIONS OF ASSAM
THROUGH NW-2**

STRETCH	DIST	MAXIMUM CARGO CARRYING CAPACITY IN MT.	
		SELF PROPELLED	PUSHER TUG & BARGE
TYPE OF VESSEL	IN KM		
KOLKATA - GUWAHATI	1535	600	1500
GUWAHATI - DIBRUGARH	613	600	600
DIBRUGARH - OIRAMGHAT	123	100	-



**PANDU PORT IS DEVELOPED AS A MULTI
MODAL MODERN IWT PORT WITH R.C.C.
JETTY, BROAD GAUGE RAILWAY LINE AND
NH CONNECTIVITY**

RIVER BRAMHAPUTRA (NW-2) IS ALREADY AN ESTABLISHED MODE OF TRANSPORT SINCE PRE INDEPENDENCE DAYS



IT IS THE ONLY MODE OF TRANSPORT FOR ALL OVER DIMENSIONAL PROJECT CARGO

RIVER CRUISE



**NW -2 IS EMERGING AS A N IDEAL DESTINATION FOR
RIVER CRUISE BY FOREIGN TOURIST**

A fisherman in a small boat is silhouetted against a bright sunset. He is holding up a large, orange-tinted fishing net that is draped over the side of the boat. The sun is low on the horizon, creating a golden glow in the sky and reflecting on the water. The clouds are scattered and catch the light of the setting sun. The overall scene is peaceful and evocative of traditional fishing practices.

THANK YOU