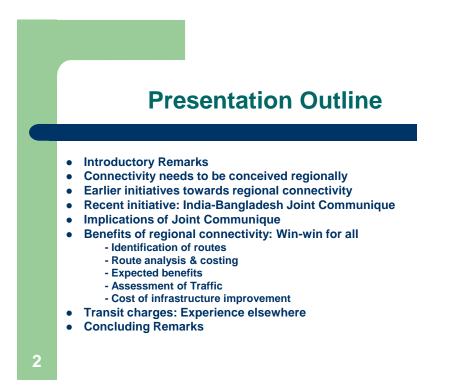
### 3<sup>rd</sup> South Asia Economic Summit December 17-19, 2010, Kathmandu

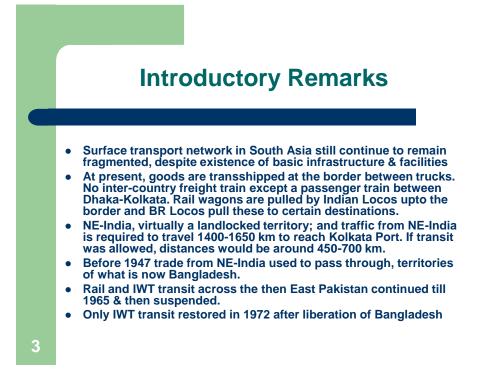
### Improving Transport Connectivity in South Asia

### **Presented by**

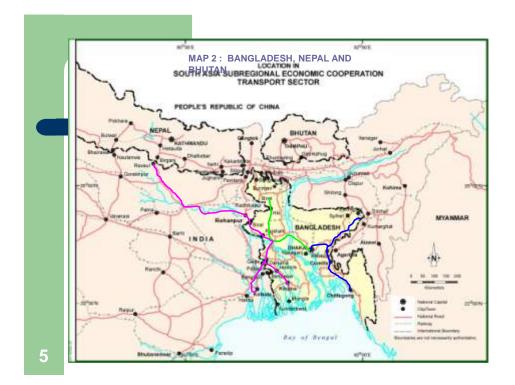
Dr. M. Rahmatullah Visiting Fellow Centre for Policy Dialogue, Dhaka and Former Director, Transport UN-ESCAP, Bangkok,

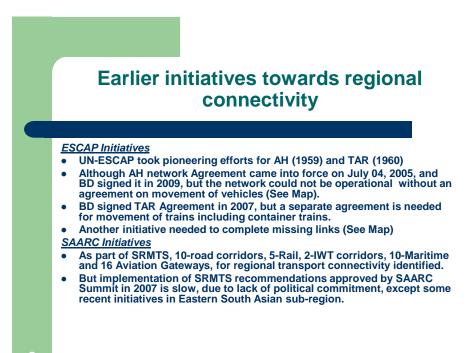


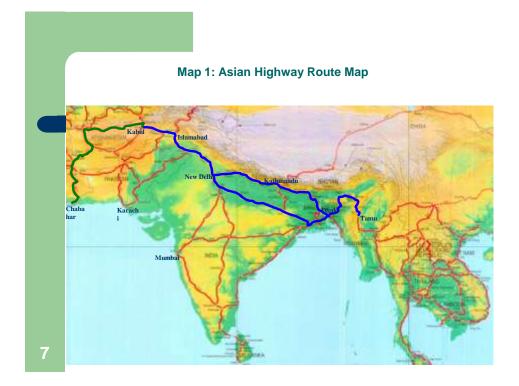


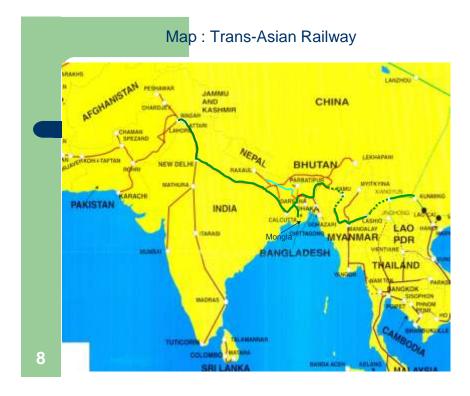








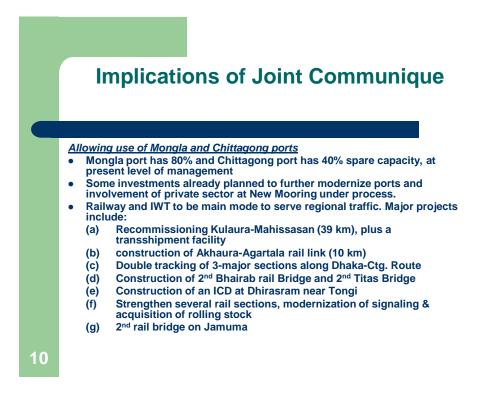


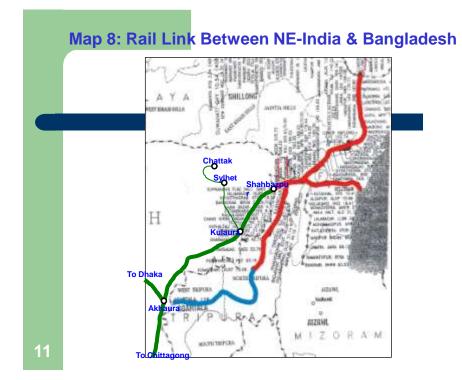


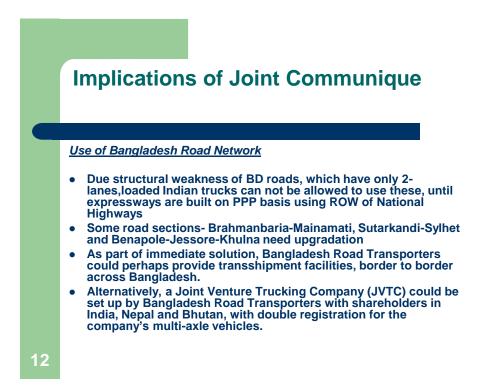
### Recent Initiatives: India-Bangladesh Joint Communique

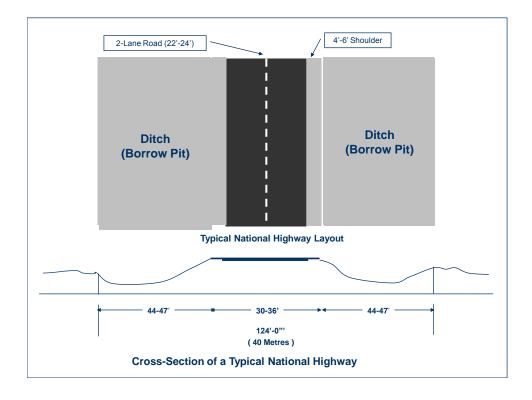
India-Bangladesh Joint Communique- Agreement included:

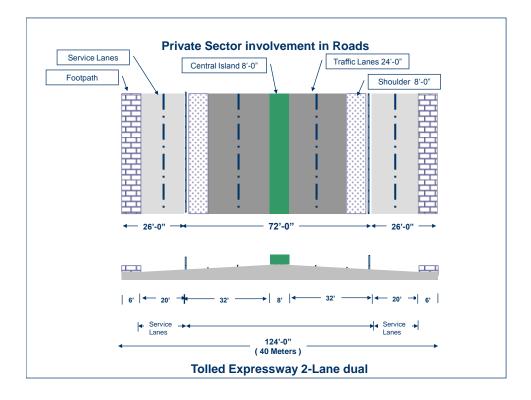
- Use of Mongla and Chittagong sea ports by India, Bhutan and Nepal.
- Rohanpur-Kathihar-Rauxal-Birgunj BG rail link for transit traffic movement between Nepal and Mongla Port
- Construction of Akhaura-Agartala rail link
- Designating Ashuganj as a new port of call and transshipment port for onward connectivity to Tripura
- Allowing bilateral container traffic between India and Bangladesh to be carried by both rail and IWT.

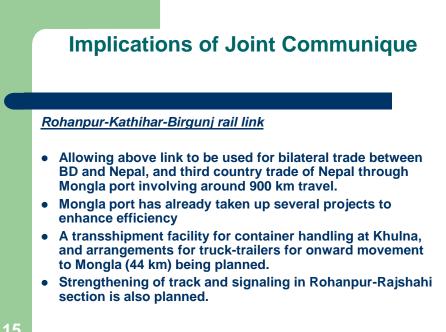








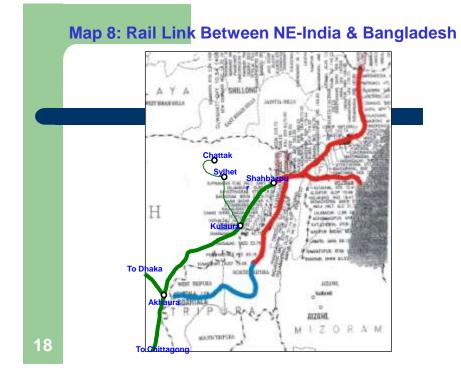












# **Implications of Joint Communique**

Ashuganj, a new transshipment port

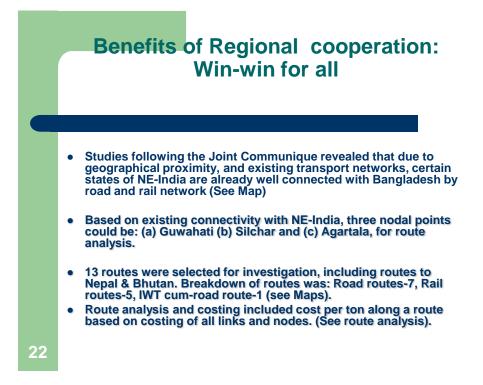
- This development will provide NE-India a shorter IWT-cumroad transport link to Kolkata.
- India will pay for development of facilities to carry ODC for power plant at Palatana, Tripura.
- Upgradation of Sultanpur-Akhaura-Sonarbadi (35 km) link is critical for carrying ODC and Bangladesh is paying for its construction out of 1 billion Indian LOC.
- BD is investing in developing transshipment facilities at Ashuganj to facilitate India's container movement to Agartala by IWT-cum-road transport, which would be a new transit route.



# **Implications of Joint Communique**

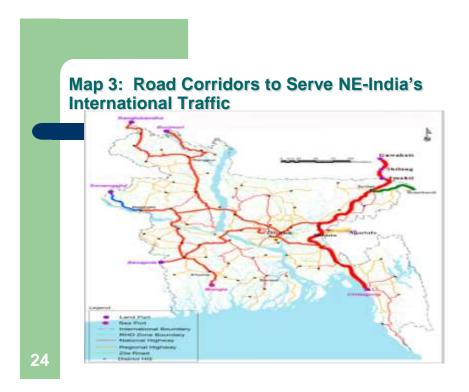
Container movement by Rail & IWT between India & Bangladesh

- Jamuna bridge has no restriction for ISO containers movement, but problem may arise with regard to number of trains that could cross the bridge in a day.
- A new dedicated rail bridge essential, which may cost around \$700-800 million.
- Containers can move upto Dhaka ICD through dual gauge
- IWT container terminal under construction at Pangaon, and a few more private sector IWT container terminals also under development
- These IWT terminals will facilitate direct container movement between Kolkata and Dhaka as well as between Dhaka-Chittagong/Mongla
- Self propelled barges to carry containers are already under construction in private sector in Bangladesh.



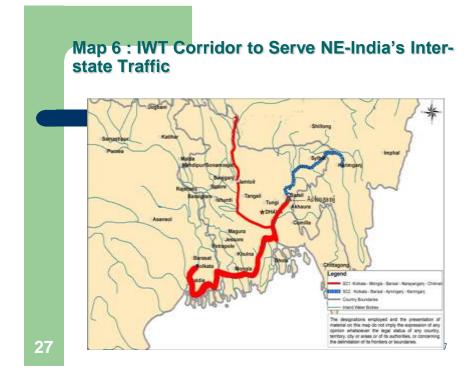
# Map 1: Transport connections of Bangladesh to NE-Indian States



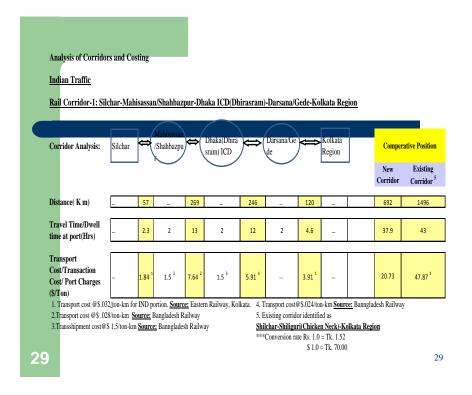


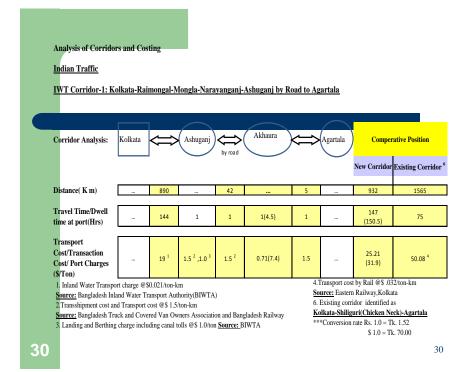


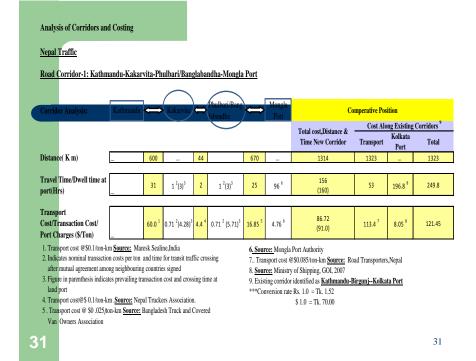


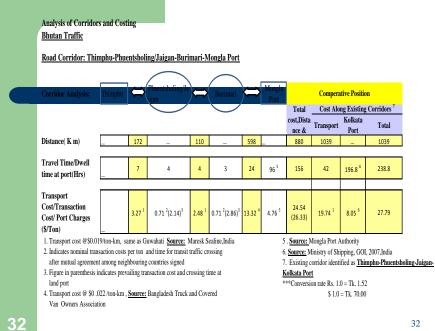


Corridor Analysis:	Guwahati			Chittagong Port	Comperative Position				
			$\bigcirc$			Total cost,Distance & Time New Corridor		ong Existing Kolkata Port	<u>; Corridor</u> Tota
Distance( K m)		187		443		630	1081		108:
Travel Time/Dwell time at port(Hrs)		14	1.0 <sup>2</sup> (3) <sup>3</sup>	18	168 <sup>5</sup>	201 (203)	76	196.8 <sup>7</sup>	272.
Transport Cost/Transaction Cost/		11.97 <sup>1</sup>	.71 <sup>2</sup> (9.63) <sup>3</sup>	10.71 <sup>4</sup>	5.84 <sup>5</sup>	28.87 (33.34)	24.86 <sup>6</sup>	8.05 <sup>7</sup>	32.91
Source: National Highway 2. Indicates nominal transact after mutual agreement an 3. Figure in parenthesis indic land port	Transport cost @\$.0641on-km (same as Kolkata-Benapole route) <u>urce:</u> National Highway Authority, GOI, Indicates nominal transaction costs per ton and time for transit traffic crossing after mutual agreement among neighbouring countries signed Figure in parenthesis indicates prevailing transaction cost and crossing time at					S. <u>Source:</u> Chittagong F     G. Transport cost @ \$.0:     7. <u>Source:</u> Ministry of S     8. Existing corridor ider <u>Guwahati-Shiliguri</u> ***Conversion rate Rs.     \$1	23/ton-km <u>So</u> Shipping, GO ntified as (Chicken Ne	<u>urce: Maer</u> I, 2007 <u>ck)-Kolkata</u> 2	









# Comparison of Transport Costs: Existing vis-à-vis Proposed Corridors

Transport Co	Costs Saving		
Proposed Corridor	Existing Route	(US\$/Ton)	%
25.80	38.52	12.72	33%
21.94	42.00	20.06	48%
28.87	32.91	4.04	12%
21.67	46.57	24.90	53%
14.88	50.05	35.17	70%
86.72	121.45	34.73	29%
24.54	27.79	3.25	12%
20.73	47.87	27.14	57%
18.48	56.13	37.65	67%
16.41	54.00	37.59	70%
12.52	52.05	49.53	80%
29.62	27.76	-1.86	
25.21	50.08	24.87	50%
	Proposed Corridor           25.80           21.94           28.87           21.67           14.88           86.72           24.54           20.73           18.48           16.41           12.52           29.62	Corridor         Route           25.80         38.52           21.94         42.00           28.87         32.91           21.67         46.57           14.88         50.05           86.72         121.45           24.54         27.79           20.73         47.87           18.48         56.13           16.41         54.00           12.52         52.05           29.62         27.76	Proposed Corridor         Existing Route         (US\$/Ton)           25.80         38.52         12.72           21.94         42.00         20.06           28.87         32.91         4.04           21.67         46.57         24.90           14.88         50.05         35.17           86.72         121.45         34.73           20.73         47.87         27.14           18.48         56.13         37.65           16.41         54.00         37.59           12.52         52.05         49.53           29.62         27.76         -1.86

## Benefits of Regional cooperation: Win-win for all

Expected Benefits to Bangladesh: Sources are

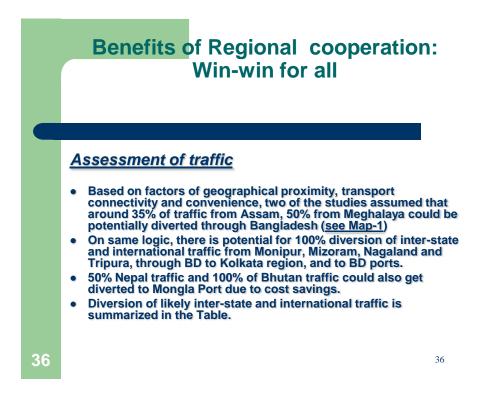
- Transport charges (rail freight or roads or IWT charges)
- Port charges (for international traffic)
- Border crossing charges for transit traffic
- Toll charges for major bridges, ferries, expressways, etc.
- Transit fees <u>or</u> sharing of benefits due to large savings in transport costs and travel time of Indian transit traffic moving through Bangladesh.



### Benefits of Regional cooperation: Win-win for all

### Type of Traffic being looked into

- Current studies focused on "diverted traffic" only. Future studies should focus on "generated traffic" as well.
- Two studies focused on traffic to be diverted from NE-India, Nepal and Bhutan, as well as their international traffic to pass through Chittagong and Mongla ports.
- Another study focused on only inter-state traffic to and from NE-India, which could be diverted through Bangladesh.



## Map 1: Transport connections of Bangladesh to NE-Indian States



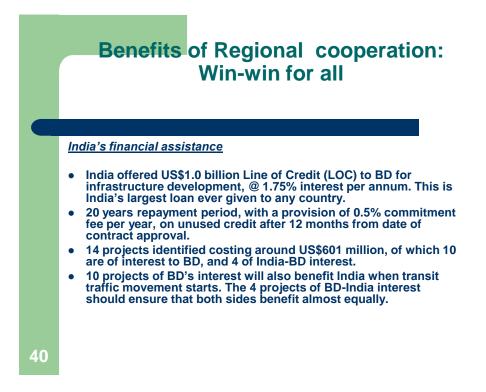
# Total Potential Diversion of Freight Traffic of NEI, Nepal and Bhutan

States/Countri es	International		Dom	estic	Total (i		
	TEUs	Tons	TEUs	Tons	Intl	Domestic	All
Assam	4294	488132	3503	12015829	36836	804558	8413
Nagaland	1768	201008	1442	2317791	15169	155962	171
Tripura	2328	264671	1899	788516	19973	54467	74
Other NEI states	2457	308082	2201	2564990	28476	173200	201
Nepal	15883	429000	0	0	44483	0	44
Bhutan	0	58000	0	0	3867	0	3
Total	26719	1749793	8808	15641649	143372	1051584	1194
Total Traffic in million tons.					1.75	15.64	17

### Benefits of Regional cooperation: Win-win for all

### Cost of Infrastructure Improvement

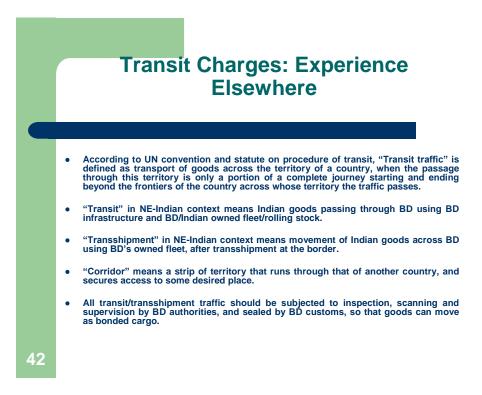
•	Bangladesh shall ha strengthening and e transit as well as na	expanding its transp	e investment for ort infrastructure to carry
•	A quick assessment be needed:	t revealed that follow	wing investments would
(1)	Railways	Tk. 17,308.00 crores	= US\$ 2490.00 million
(2)	Roads and Highways	Tk. 9487.00 crores	= US\$ 1365 million
(3)	Inland Waterways and Inland Ports	Tk. 4578.00 crores	= US\$ 658.00 million
(4)	Chittagong Port	Tk. 1728.00 crores	= US\$ 249.00 million
(5)	Mongla Port	Tk. 2690.00 crores	= US\$ 387.00 million
(6)	Land Ports	Tk. 500.00 crores	= US\$ 72.00 million



## Benefits of Regional cooperation: Win-win for all

#### **Details of the Projects being financed**

- 6 Nos high powered dredgers and transshipment port at Ashuganj and reconstruction of road to Akhaura/Agartala.
- Procurement of Locomotives, passenger coaches, tank wagons, flat wagons, break vans, etc.
- 2<sup>nd</sup> Railway Bhairab Bridge and 2<sup>nd</sup> Titas Bridge.
- Purchase of 300 double decker and and 50 articulated buses
- Construction of Rail over passes at Jurain and Malibagh
- Ramgarh-Sabroom Road
- Power Grid line between India-Bangladesh, around Bheramara
- 4-subprojects related to capacity building of BSTI/ Laboratory.



# Transit Charges: Experience Elsewhere

#### European Experience (Switzerland)

- In 1992, European Economic Community reached an agreement with Switzerland, a transit country, to allow charges on transit traffic for use of infrastructure. Agreement covered international transport by road and rail. Charges were infrastructure user fees.
- In 1999, EU and Switzerland signed another agreement to replace ban on vehicles over 28 tones with a quota and high charges system, w.e.f. June 01, 2002.
- According to EU "White Paper on Transport Policy for 2010"; the charges, or using infrastructure must cover not only infrastructure and its damage cost, but also external costs, related for air pollution, noise, congestion and accidents.

