COMMUNICATION REVOLUTION

21 southwest districts are directly linked with Dhaka Khulna, Bagerhat, Jessore, Satkhira, Narail, Kushtia, Meherpur, Chuadanga, Jhenaidah, Magura, Barisal,

Pirojpur, Bhola, Patuakhali, Barguna, Jhalokati, Gopalganj, Faridpur, Madaripur, Shariatpur, Rajbari

PRIDE OF THE NATION: CELEBRATING ONE YEAR OF THE MAJESTIC PADMA BRIDGE

The Padma Bridge, an iconic marvel of infrastructure, bridge, made possible by the visionary leadership of completes its first year of successful operation today, our esteemed Prime Minister Sheikh Hasina, stands signifying a momentous milestone in our nation's tall as a testament to her unwavering determination history. This magnificent bridge has not only connect- and transformative vision. We extend our deepest ed previously isolated regions but has also sparked a gratitude to Prime Minister Sheikh Hasina for her wave of socio-economic development. This iconic exceptional commitment to our nation's advance-

MAIN BRIDGE LENGTH 6.15 km

APPROACH ROAD 12.117 km

ment. We also express heartfelt appreciation to all the dedicated individuals involved in the planning, construction, and operation, whose tireless efforts have turned this grand vision into a tangible reality. Moreover, we acknowledge the invaluable support and trust of the people of Bangladesh, who have been

VIADUCT 3.148 KM (ROAD), 532 M (RAIL)

1471 HECTOR Land Acquisition

RIVER TRAINING WORKS 14 km

BDT 32,605.47 crore

Estimated Project Cost

(1.6 Mawa + 12.4 in Janjira)

CAPACITY TO SURVIVE

9-magnitude earthquake

instrumental in driving the success of this remarkable endeavor. Together, we will continue to amplify the bridge's impact, propelling our beloved country towards boundless opportunities and a prosperous

98,725KN (CAPACITY)

Largest double curvature friction

pendulum bearings in the world

Longest steel truss

girder-bridge in the world

USD 1.1 BILLION

122M

river training works

Largest single contract of

Longest driven pile in the world

WORLD RECORDS

ROAD AND BRIDGE END FACILITY

- Mawa End (North Bank)
- > Length = 1.617 km > 4-Lane Dual Carriageway
- > Total Road with = 27.6m
- > 2.141 km Service Road & 0.682 km local road
- > Toll Plaza, Police Station, Service Area-01 > Weigh Station, Emergency Response Area etc.

- Janjira End (South Bank)
- > Length = 10.50 km > 4-Lane Dual Carriageway
- > Total Road with = 27.6m
- > 5 nos. Bridge, 20 nos. Box Culvert, 8 nos. Underpasses
- > 12km Service Road & 3km local road

> Toll Plaza, Police Station, Service Area-03, > Weigh Station, Emergency Response Area etc.

FIRST TIME IN BANGLADESH

- 1. Super T Girder
- 2. Use of Microfine Cement
- 3. Double Deck Bridge 4. Modular Movement Joints
- 5. Waterproofing on the Bridge Roadway Deck 6. 7 full-fledged Resettlement Sites



VIADUCT Mawa End (North Bank):

> 19+20 = 39 span; Length 1478.03m Janjira End (South Bank): > 23+19 = 42 span; Length 1670.03m

Mawa End and Janjira End: > 7+7 = 14 span; Length 532m

> Total Road Viaduct: 81 span > Total Length=3148.06m

Key Goals

> Development of national and inter-country rail connectivity: Construction of a 169 km broad gauge railway line from Dhaka to Jessore via the Padma

PROGRESS OF THE PADMA **BRIDGE RAIL LINK PROJECT**

- > Newly linked districts: Munshiganj, Shariatpur, Madaripur, and Narail will be connected via the Padma Bridge through the rail line.
- > Direct connection to the capital: The existing Bhanga-Pachuria Rajbari section will have a direct link to Dhaka through the Padma Bridge

Tk 39, 246.80 Crores Total project cost

TIMELINE

October 14, 2018: Prime Minister Sheikh Hasina naugurated the railway construction work

Bangladesh Railway conducts first trial run over Padma Bridge

August 20, 2022: Installation of rail

LOAN

REPAYMENT

August 2023: The Dhaka to Bhanga rail line via the Padma Bridge is expected to be ready for train operation

April 4, 2023:

Annual Loan interest rate 35 years Loan repayment period Number of instalments

instalments

revenue is projected in the next 31 years from Padma Tk 29,893 Crore Bridge (5.5 times construction cost). Total Loan \$25 billion social progress contribution to the economy. FY 2056-57

Tk 1,400 crore Repayment of the loan will Value of protected land by river governance continue Tk 2,400 crore Tk 316.02 Crore

Savings from electricity, gas, and internet lines Amount of 3rd and 4th 70 km Distance shortened between Dhaka and Kolkata paid on June 19, 2023

100 km

\$18.5 billion

Distance shortened between Mongla and Dhaka Travel time between the capital and the southwest

region to be reduced by one-fourth;

EXPECTED OUTCOME OF

THE PADMA BRIDGE

tourism to get a boost Being part of the proposed Asian Highway and Trans-Asian Railway Network, the bridge will facilitate regional connectivity

29% growth in construction sector, 9.5% in agriculture, 8% in manufacturing and transport Poverty to drop by 1% in the region, 0.8% nationally GDP to groth by 1.7% in southwest region, 0.56% countrywide

River training to save 9,000 hectares of land worth \$156 million from erosion and flooding \$400 million ferry service cost on Mawa-Janjira

route to be saved

TRAFFIC Daily traffic forecast

6,451

7,898

11,841 second year

1 YEAR AFTER INAUGURATION

2.5 times more vehicles used the bridge daily than predicted for the

15,000 vehicles

56.54 Lac total number of vehicles passed through the bridge till June 2023



TK 4.19 CRORE Record-breaking toll collection in a single day since opening.

10 DECEMBER 2020 Last span installed

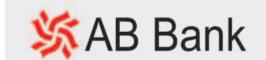
30 SEPTEMBER 2017

First span installed

25 JUNE 2022 Prime Minister Sheikh Hasina inaugurated the Padma bridge

Content: Priyam Paul **Tuhin Shubhra Adhikary** Infographic Design:

Md. Akram Hossen



PILE

> Racked (Inclined at 1H:6V)

Steel Tubular driven pile

> 6 Nos. In each pier

> Pile Diameter = 3m

> Pile Length = 128m

> Number of Pile 272nos

> 40mm Rebar used in the Piles

> Total 132 nos Rebar used







Total Number of

PILLARS 42



2003-2005

(JICA Grant)

Feasibility Study,

finalized by JICA, Japan





JULY 2012

17 JUNE 2014

portition of the bridge

own fund

Bangladesh Govt. decides

Deal signed with China Major Bridge

Engineering Co Ltd to build main

to build the bridge with



26 NOVEMBER 2014

Main construction begins

12 DECEMBER 2015

Prime Minister Sheikh Hasina

of the much-expected Padma

Bridge at Mawa in Munshiganj

inaugurated the construction work











SPAN 41

and 40 Center pier

SPAN LENGTH

Concrete on Upper Deck)

2 transition pier at landward ends

150 m each Composite Superstructure

(Warren type Steel Truss Girder and





UPPER DECK

22 m wide concrete deck

slab (2.5 m hard shoulder

on the both side) 4 Lane road

TIMELINE OF PADMA BRIDGE PROJECT



Navigational Clearance

2006

Land Acquisition Plan,

Plan (GoB Fund)

Resettlement Action Plan and

Environmental Management

18.30 M



2009-2011

GoB Fund)

JUNE, 2012

Detailed design and procurement,

finalized by Maunsell Ltd.

AECOM NZL (ADB TA Loan +

World Bank cancels loan











1998-1999

funding)

Prefeasibility study (GoB

