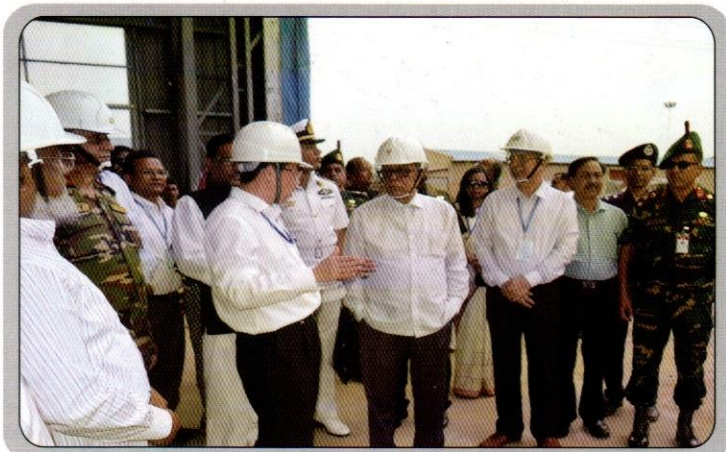




**Bangladesh Bridge Authority
Bridges Division
Ministry of Road Transport and Bridges**



The Hon'ble President Md. Abdul Hamid visited Padma bridge project sites on 2 April 2018 and expressed his satisfaction over the progress of the construction work.

The Bridge of Pride



Erection of 5th Span of the Padma Multipurpose Bridge



PADMA MULTIPURPOSE BRIDGE PROJECT (PMBP)

Setu Bhaban, Banani, Dhaka-1212

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September 2018

PADMA MULTIPURPOSE BRIDGE PROJECT

The Padma Multipurpose Bridge Project (PMBP), located approximately 40 km south-west of Dhaka, comprises a new fixed crossing over the Padma River in Bangladesh. Padma Multipurpose Bridge is the largest infrastructure project in Bangladesh. The government has given highest priority to construct a bridge across the mighty river Padma for a direct road and rail link with the south-western region of Bangladesh, which is separated from the capital city. The Hon'ble Prime Minister Sheikh Hasina laid the Foundation Stone of PMBP on 4 July 2001 at Mawa.



Hon'ble Prime Minister Sheikh Hasina inaugurated construction work of approach roads at Janjira and Mawa points and Service Area-2 on 12 November 2013

To implement the project, Detail Design Consultant was appointed on February 2009. They have finalized Design for Main Bridge, River Training Works, Approach Roads & Bridge End Facilities and Service Areas in September 2010.

This Bridge will connect 19 districts of south-western part with the eastern part including the capital. The proposed Padma Bridge lies on the Asian Highway route AH-1 and with the implementation of the bridge, it will bring revolutionary changes in the South Asia Countries including internal transportation system of Bangladesh. The Padma Bridge will bring significant changes in poverty alleviation by reducing poverty 0.84% per annum and socio-economic uplift of the country by an increase of 1.23% growth in the GDP.



The Hon'ble Prime Minister Sheikh Hasina inaugurated the Main Bridge construction works at Mawa Points on 12 December 2015

The main bridge structure would carry a 4-lane highway and have provisions for future installation of a dual gauge rail line as well as other facilities including gas, telecommunication lines and 400KV power transmission line would be installed. The main bridge is a two level steel truss superstructure acting compositely with a reinforced concrete deck slab with road traffic on the upper level and rail on the lower level.



The Hon'ble Prime Minister Sheikh Hasina inaugurated the River Training Works at Janjira Points on 12 December 2015

Padma Multipurpose Bridge Project: At a Glance

	Year	Financing Agency
Pre-feasibility Study by BBA	1998-1999	GoB Fund
Feasibility Study finalized by JICA, Japan.	2003-2005	JICA Grant
LAP, RAP & EMP	2006	GoB Fund
Detailed Design and procurement finalized by Maunsell Ltd. AECOM NZL	2009-2011	ADB TA Loan + GoB Fund
Procurement & Implementation	2011-2015	GoB Fund
Independent checking of design finalized by Flint & Neill Limited UK	2010	ADB TA Loan Fund

Project Cost

	Implementation Period	Cost in BDT
Primary DPP	2008-09 to 2014-15	10,161.75 Crore
1st RDPP	2008-09 to 2015-16	20,507.20 Crore
2nd RDPP	2008-09 to 2018-19	30,193.39 Crore

Original Funding Arrangement

Financing plan and loan signing had been finalized with the development partners
(WB, ADB, JICA, IDB)

	Project Financing Agency	Amount (USD in Millions)
i)	World Bank (WB)	1200.00
ii)	Asian Development Bank (ADB)	615.00
iii)	Japan International Co-operation Agency (JICA)	400.00
iv)	Islamic Development Bank (IDB)	140.00
v)	Government of Bangladesh (GoB)	617.06
	Total	2,972.06

Government of the Bangladesh decided not to take loan from funding Agencies on 09 July 2012 & took decision to complete the project from GoB Fund/Budget.

The Padma Multipurpose Bridge Project consists of the following contract packages:

Main Bridge:

Length	: Main Bridge - 6.15 km, Viaduct -(Road) 3,148 km and (Rail) 532m.
Contractor's Name	: China Railway Major Bridge Engineering Group Co. Ltd.
Contract Amount	: BDT 12,133.39 Crore
Date of Work Order	: 26 November 2014.
Contract period	: 4 years.
Financial Progress	: BDT 6907.81 crore (Upto August/2018)
Physical Progress	: 66% (Upto August/2018)

River Training Works:

River Training Works	13.1km length (1.8km Mawa + 11.3km in Janjira)
Contractor's Name	: Sinohydro Corporation Limited, China.
Contract Amount	: BDT 8,707.81 Crore.
Date of Work Order	: 31 December 2014.
Contract Period	: 4 years.
Financial Progress	: BDT 3540.51 Crore (upto August/2018)
Physical Progress	: 42.50% (upto August/2018)

Janjira Approach Road and Selected Bridge End Facilities:

Length	: 10.50 km
Contractor's Name	: Abdul Monem Limited (AML) - HCM JV
Contract Amount	: BDT 1,318.99 Crore.
Date of Work Order	: 08 October 2013.
Contract Period	: 3 years.
Date of Completion	: 02 June 2018 (Completed)
Financial Progress	: BDT 1,278.24 Crore (upto August/2018)
Physical Progress	: 100%

Mawa Approach Road and Selected Bridge End Facilities:

Length	: 1.617 km
Contractor's Name	: Abdul Monem Limited (AML) - HCM JV
Contract Period	: 2.5 years.
Contract Amount	: BDT 193.40 Crore.
Date of Work Order	: 27 January 2014.
Contract Period	: 2.5 years.
Date of Completion	: 26 July 2016 (Completed)
Financial Progress	: BDT 191.95 Crore (upto August/2018)
Physical Progress	: 100%

Service Area-2:

Contractor's Name	: Abdul Monem Limited (AML).
Contract Amount	: BDT 208.71 Crore.
Date of Work Order	: 12 January 2014.
Contract Period	: 2.5 years.
Date of Completion	: 11 July 2016 (Completed)
	Mosque, Motel Mess, Resort Reception Building, Supervision Office, Duplex Houses-30 Nos., Overhead Water Tank, health Centre, Guard House, Electric Sub-station, Fire detection and fire fighting systems.
Financial Progress	: BDT 198.86 Crore (upto August/2018)
Physical Progress	: 100%

Management Support Consultancy (MSC) Services

Consultant's Name	: Rendel Limited & Associates.
Contract Amount	: BDT 168.98 Crore.
Date of Signing Contract	: 29 February 2016.
Date of Completion	: 28 February 2019
Financial Progress	: BDT 70.40 Crore (upto August/2018)

Construction Supervision Consultant- 2 (for Main Bridge & River Training Works)

Consultant's Name	: Korea Expressway Corporation (KEC), South Korea In Association with a) Pyunghwa Engineering Consultants Ltd. (PEC) South Korea, b) Korea Engineering Consultants Corp. (KECC), South Korea c) Sunjin Engineering & Architecture Co. Ltd. (SUNJIN), South Korea d) ACE Consultants Ltd. (ACE), Bangladesh and e) DevConsultants Ltd. (DevCon) Bangladesh.
Contract Amount	: BDT 383.15 Crore.
Date of Signing Contract	: 13 November 2014.
Contract Period	: 4 years.
Financial Progress	: BDT 331.82 Crore (upto August/2018)

Construction Supervision Consultant- 1 (for Approach Road & Service Area):

Consultant's Name	: Special Works Organization (SWO-West), Bangladesh Army in association with BRTC, BUET.
Contract Amount	: BDT 133.49 Crore.
Date of Work Order	: 13 October 2013.
Contract Period	: 3 years.
Date of Completion	: 31 July 2018 (with extension period)
Financial Progress	: BDT 71.01 Crore (upto August/2018)

Engineering Support & Safety Team (ESST) Contract

ESST Provider	: Bangladesh Army.
Contract Amount	: BDT 72.14 Crore.
Date of Work Order	: 13 October 2013.
Contract Period	: 4 years.
Date of Completion	: 31 December 2019 (with extension period)
Financial Progress	: BDT 56.34 Crore (upto August/2018)
Progress of Work	: Engineering Support & Safety Team continue service provide.
Equipment for ESST	: BDT 77.00 Crore.

Main Bridge Details (Technical)

Span	Total 41 nos. 2 transition Piers 40 Center Piers
Span Length	150 m each Composite Superstructure (Warren type Steel Truss Girder and Concrete on Upper Deck)
Total Length (Main Bridge)	41 x 150 = 6150m = 6.150 km 7 Nos. Module: <ul style="list-style-type: none"> • 6 span in each 6 module • 5 span in one module
Pile Details	<ul style="list-style-type: none"> • Racked (Inclined at 1 H:6V) Steel Tubular Driven Pile • 6 Nos. In each Pier (18 Nos. Pier) • 6+1 Nos. in each Pier-(11 Nos. Pier) • 6+1 Nos. in each Pier with Skin grouting (11 Nos. Pier) • Pile Diameter = 3m • Pile Length = 98m to 122m • Total number of Pile in Main Bridge: Steel Pile = 40x6+22 = 262 Nos. Vertical bored concrete pile = 2x16 = 32 nos. (upto 88m depth)
Upper Deck	<ul style="list-style-type: none"> • 22m wide concrete deck slab (2.5 m hard shoulder on the both side) • 4 Lane road
Lower Deck	Single Track Dual Gauge Rail
Deck Hight	13.6m
Navigation Clearence	18.30m
Viaduct	Mawa End (North Bank 19+20 = 39 Span ; Length = 1478.03m) Janjira End (South Bank 23+19 = 42 Span; Length = 1670.03) Total Road Viaduct (81 Span) = 3148.603m
Rail Viaduct	Mawa End and Janjira End 7+7 = 14 Span; Length = 532m
Utlities Through the Bridge	i. 760 mm dia Gas Transmission Line ii. 150 mm dia Fiber optical & Telephone Duct iii. 7 nos. High voltage Electric Line Platform in River over Pile Foundation at 2 km downstream of Main Bridge.

River Training Works Details (Technical)

Mawa End (North/Left Bank)	<ul style="list-style-type: none"> • length = 1.8 km • 5 layers 800 kg geo-bag dumping on launching apron • 0.9 m rock riprap over 3 layers 125 kg geo-bag dumping on dredged slope • Concrete Block placing above water and dumping up to low water transition area over geo-textile 		
Janjira End (South/Right Bank)	<ul style="list-style-type: none"> • length = 11.3 km • 5 layers 800 kg geo-bag dumping on launching apron • 0.9 m rock riprap over 3 layers 125 kg geo-bag dumping on dredged slope • 4 layers 800 kg geo-bag dumping on dredged slope • Concrete Block placing above water and dumping up to low water transition area over geo-textile 		
Description	Unit	Location	Estimated Quantity
Dredging	m ³	South Bank	495,60,000
		North Bank	99,20,000
		Dredging Total	594,80,000
Rock Rip-Rap	m ³	South Bank	706,950
		North Bank	221,400
		Rock Rip-Rap Total	928,350
Geo- Bags	800kg/Nos.	South Bank	27,42,858
		North Bank	2,65,524
		Sub-Total	30,08,382
	125kg/Nos.	South Bank	10,572,500
		North Bank	6,695,000
		Sub-Total	17,267,500
		Geo- Bags Total	20,275,882
CC Block	400x400x200/Nos.	South Bank	367,641
		North Bank	123,233
	400x400x300/Nos.	South Bank	3,696,062
		North Bank	212,072
	400x400x400/Nos.	South Bank	7,582,546
		North Bank	1,284,694
	600x600x600/Nos.	South Bank	-
		North Bank	35,000
		CC Block Total	13,301,248

Mawa & Janjira Approach Road & Selected Bridge End Facilities and Service Area-2 (Technical)

Approach Roads & Service Area- 2	Mawa End (North Bank)	Length = 1.617 km 4- Lane Dual Carriageway Total Road Width = 27.6 m 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 Width = 27.6 m 5 nos. Bridge, 20 nos. Box Culvert, 8 nos. Underpasses, 12 km Service Road & 3 km Local Road Toll Plaza, Police Station, Service Area-03, Weigh Station, Emergency Response Area etc.
	Service Area-2	Mosque, Motel Mess, Resort Reception Building, Duplex House-30 Nos, Overhead Water Tank, Health Centre, Guard House, Electrical Sub-Station, Fire Detection and Fire Fighting System.

Resettlement Activities Details

The Social Action Plan was introduced to minimize the adverse impact of the Project. The loss of Assets, livelihood, occupations breaking the community for Land acquisition of the Project area is addressed in 05 Resettlement Action Plans (RAP).

Number of Resettlement Sites (RS) and Location: 07 [(01) RS-2 Jashaldia; (02) RS-3 Kumarbhog; (03) RS-7 Medinimondal; (04) RS-8 Kumerbhog Extension; (05) RS-4 West Naodoba; (06) RS-6 Naodoba and (07) RS-5 Bakhorerkandi.] Four Primary Schools and Five Health Centres are functioning in Resettlement Sites.

Different types of grants paid (up to August/2018)

District Name	No of Voucher	No of EP	Grant for Agricultural Land	Grant for Home/Com. Ind. Land/Vis Land	Grant for Water Indus Land	Grant for R.A. Phy. strc (without title)	Dislocation Allowance for loss of Agricultural Land	Dislocation Allowance for loss of Home/Com/Vis Contd Land (H)	Dislocation Allowance Water Indus Land	Grant for Residential Structure (with title of Land)	Grant for Trees	Transfer Grant for Residential Structure (with title of Land)	Transfer Grant for Residential Structure (without title of Land)	Reconstruction Grant Residential Structure (with title of Land)	Reconstruction Grant Residential Structure (without title of Land)	Female Health Household	Temporary Rental Allowance	Land Development Assistance	Total Paid by BBA
Munshiganj	928	6252	1865169425.89	1124948431.90	69907731.77	161402255.99	3394748.62	2123126.40	238945.65	0.00	0.00	4737201.55	0.00	6767430.75	0.00	25800.00	190000.00	64048000.00	3158178030.72
Madaripur	806	5813	1136743440.31	578659663.16	38779751.54	0.00	555889.82	4441133.29	17299.31	0.00	0.00	4888668.88	0.00	6828336.00	0.00	0.00	60000.00	4420000.00	17969961.83
Shariatpur	620	4916	1015487139.68	283825133.70	17521488.85	0.00	5781191.94	1925804.77	51352.77	2174017.50	578414.00	456232.52	38843.00	6549816.60	15490.00	0.00	135000.00	2540000.00	136236461.33
Total	2914	14881	403720064.88	197865916.76	91182777.56	161402255.99	14745528.33	8462264.36	305997.33	2174017.50	578414.00	1412282.07	38843.00	20174718.35	15490.00	25800.00	184000.00	134140000.00	4338429125.88

Residential Plots at the Resettlement sites and their locations (up to August/2018)

Number and Name of the Resettlement sites	Location	Name of the Upazila and Districts	Total Residential Plots	Total Commercial Plots	Total Numbers of Plots	Numbers of the Allotments of the plots	Number of the handed over Plots
RS-2 Jashaldia	North Bank of the river Padma	Louhajang, Munshiganj	451	20	471	428	421
RS-3 Kumarbhog		Louhajang, Munshiganj	339	20	359	342	333
RS-7 Medinimondal		Louhajang, Munshiganj	16	0	16	15	15
RS-8 Kumarbhog Extension		Louhajang, Munshiganj	344	0	344	281	271
RS-4 West Naodoba	South Bank of the river Padma	Janjira, Shariatpur	514	20	534	504	468
RS-6 Naodoba		Janjira, Shariatpur	552	0	552	518	385
RS-5 Bakhorerkandi		Shibchar, Madaripur	528	20	548	487	457
Total Nos. 7 RS		3 District 3 Upazilas	2744	80	2824	2575	2350

The self relocated family will get the Land Development Assistance (in BDT)

Applicant Eligible for	For Mawa side	For Jajira side	Remarks
2.5 dec plot in Resettlement site (RS site)	300,000	150,000	* Self owned land
5.0 dec plot in Resettlement site (RS site)	400,000	200,000	* Be eligible for getting plot in RS
7.5 dec plot in Resettlement site (RS site)	500,000	250,000	Homestead should be completed

Status of Grievance Cases (up to August/2018)

Name of the issue	Louhajang, Munshiganj	Janjira, Shariatpur	Shibchar, Madaripur	Total
Grievance resolved by BBA	30	167	63	260
Referred by BBA to Deputy Commissioner, Munshiganj	97	0	0	97
Hearing Completed by local GRC	30	193	112	335
Case pending	02	14	20	36
Total	159	374	195	728

Environment Management Activities Details

Tree Plantation:

Tree plantation has been started from 2012.
Location of Tree Plantation: Seven Resettlement Sites
Three Service Areas, Janjira and Mawa Approach Road
Planted tree: 1,66,957 nos of tree planted upto August/2018.
Implementing Agency: Department of Forest (Dhaka & Faridpur)

Consultancy Services for Preparing a Comprehensive Documentation of PMBP

Consulting firm's name: Impress Telefilm Ltd.
Date of contract: 17 February 2016
Contract period: 05 Years
Contract Cost : BDT 6,31,35,735.98/-
Present Status: Ongoing

Biodiversity Baseline Survey and Preparing Monitoring Plan, Identifying Location of the Protected Sanctuary and Developing a Sanctuary Establishment Plan of PMBP:

Consulting firm: Agriconsulting S.p.A & SODEV
Consult International Ltd - JV.
Contract Cost : BDT 4,90,83,750/-
Present Status: Completed

Establishment of Padma Bridge Museum:

Implementing Agency: Department of Zoology, Dhaka University.
Date of contract: 18 November 2015
Contract period: 5 Years
Contract Cost : BDT 6,21,46,395/-
Present Status: 1697 nos. specimens have been collected & preserved (upto August/2018).

Land Acquisition Details

Land Acquisition and Requisition for Padma Multipurpose Bridge Project (Up to August/2018)

District	Land Acquisition in Hectares	Land Requisition in Hectares	Costing in BDT (Crore)
Munshiganj	329.64	-	526.77
Madaripur	1601.19	82.64	1462.83
Shariatpur	610.96	-	369.17
Total	2541.79	82.64	2358.77

Project Cost Summary (2nd Revised DPP)

Sl. No.	Project Components	As per Approved 2nd RDDP BDT (Crore)	Equivalent USD (Million)
1.	Bridge Construction (including single track rail with viaduct, bridge facilities)	12133.39	1549.60
2.	Other Infrastructure (River Training Works) including service Area earth filling	9400.00	1201.28
3.	Janjira Approach Road & Selected Bridge End Facilities, Mawa Approach Road & Selected Bridge End Facilities & Service Area- 2	1907.68	252.67
4.	Land Acquisition (with Additional cost)	2698.73	345.77
5.	Resettlement	1515.00	194.1
6.	Environment	129.03	16.53
7.	Construction Supervision Consultant- 1 (for Approach Roads & SA-2) & Construction Supervision Consultant- 2 (for Main Bridge & RTW)	521.39	66.50
8.	Management Support Consultant (MSC) and audit	151.80	19.45
9.	Engineering Support & Safety Team (ESST)	201.00	25.75
10.	M & E and supervision of EMP & SAP (Internal and External monitoring agency (EMA) for monitoring & evaluation of the EMP and SAP)/RAP, Charland (monitoring and management) internal monitoring)	48.30	6.19
11.	Others	1487.07	190.52
	Total Project Cost	30193.39	3868.36

Project Activities

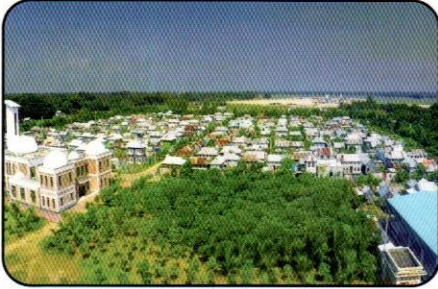


Crane erection date
 *P4- 20.09.2017
 *P5- 20.09.2018
 *P7- 20.09.2018
 *P8- 12.05.2018
 *P7- 29.06.2018

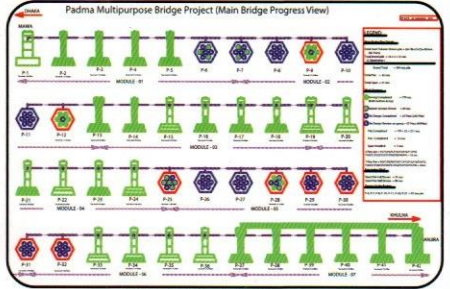
5 Nos. Span has been erected and completed a module of 07 successfully



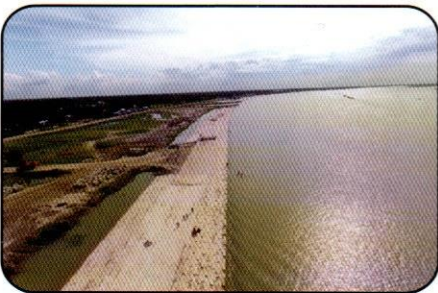
Overall activities of Pier and Pile Cap at Mawa site



Top View of Resettlement Site



Main Bridge Pile Progress



Aerial View of River Training Works



Placement of CC Block at River Site Slope



Aerial View of Service Area-2



Approach Road and Bridge End Facilities



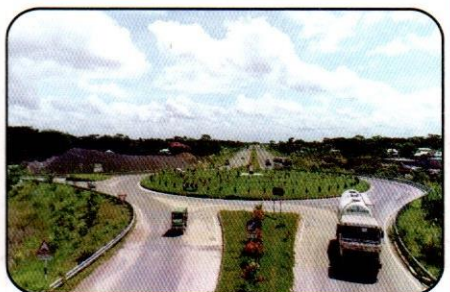
Primary Health Care Services at RS Health Centre



Students Studying in RS Primary School



Some specimens at Padma Bridge Museum



Tree Plantation at Approach Road