DEVELOPMENT ACTIVITIES



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY RAJSHAHI

December'2021

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Background of BMDA:

The part of greater Rajshahi, Dinajpur, Rangpur and Bogra District of Bangladesh and the Indian territorial Maldah District of West Bengal is geographically identified as Barind Tract. The hard red soil of these areas is very significant in comparison to that of the other parts of the country.

The Rajshahi Barind Tract is located in between 24 degree 23 minute to 25 degree 15 minute north latitude and 88 degree 2 minute to 88 degree 57 minute east longitude. A typical dry climate with comparatively high temperature prevails in Barind area except for the wet season beginning from mid June to October. Rainfall in the area varies from about 1500 mm to 2000 mm. Temperature ranges from 4 degree Celsius to 44 degree Celsius. The total cultivable area being 1.44 million acres, out of which 34% is loamy, 10% is Sandy, 49% is clayed and the rest of 7% is others. Out of the total cultivable land, 84% are single cropped, 13% are double cropped and the rest are triple cropped. The cropping intensity was 117%.

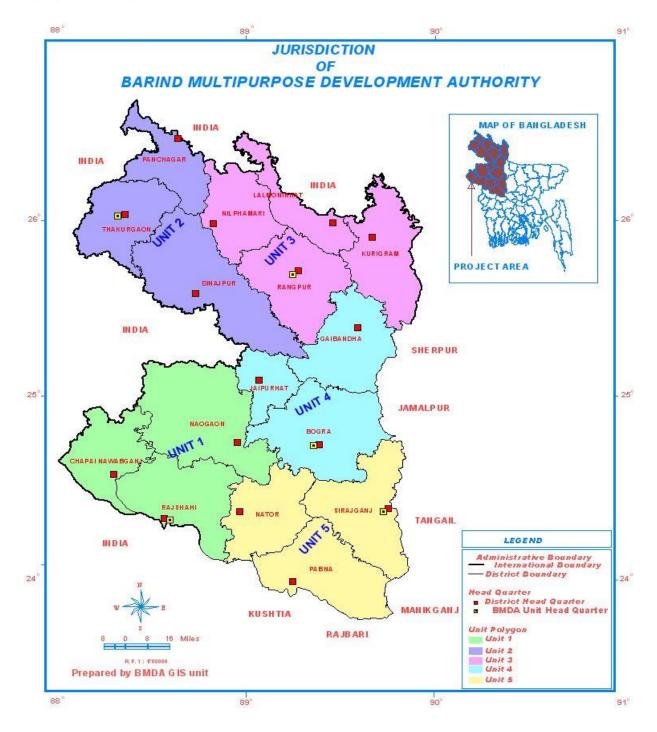
The Rajshahi Barind Tract was much flourished and the Socio-economic activities were much better in comparison to that of the other part of the country before 1947. In that time the area was well communicated to Kolkata, the capital city of west Bengal, now in India. Trade and commerce was much dependent on Kolkata and this Region was the hinterland of Kolkata port.

After partition of India communication, trade and commerce of this region with Kolkata was ceased totally and all the socio-economic activities almost came to a hault. As there was no well road linkage to the other part of the country, even to capital city Dhaka; no effort could make any development or any upliftment of the socio-economic structure of this region. As days passed by, this tract of land had fallen behind in all phases of development and economic activities could not be generated much. Further, the latest development in industrialization within the country could not make any headway in this Region. As a result the standard of living of the people of this region came to a lower level compared to that of the other parts of the country.

In 1985 the Government approved a project named "Barind Integrated Area Development Project" under the Bangladesh Agricultural Development Corporation. In 1990 the project was declared complete using only 26% of the fund allocated. On completion of the project a review was conducted and to speed up the development project implementation of the Barind area a separate authority was created named **Barind Multipurpose Development Authority (BMDA)** on 15 th January 1992 under the ministry of Agriculture. Till Now The authority has so far implemented 44 (Forty-four) development projects.

Jurisdiction of BMDA:

According to the resolution, forming BMDA, firstly all the highland which are normally free from flood and draught prone area of Rajshahi Division are under the Jurisdiction of BMDA. At present the Act of the Authority has passed by the Government on 1st October 2018 named "BMDA Act-2018". According to the Act, all the districts (Rajshahi, Chapai Nawabganj, Naogaon, Joypurhat, Bogra, Sirajganj, Pabna and Natore) of Rajshahi Division and all the districts (Thakurgaon, Dinajpur, Panchagar, Rangpur, Kurigram, Nilfamari, Lalmonirhat and Gaibandha) of Rangpur Division are under the development Programme of **Barind Multipurpose Development Authority (BMDA).**



Scope of BMDA:

The Development priorities of the Barind Area particularly concerning the development of Agriculture include:-

- a) To ensure the development of ground & surface water resource and its proper use for irrigation.
- b) Agricultural mechanization, seed production & supply and crop diversification.
- c) Afforestation to achieve environmental and ecological balance.
- d) Construction of connecting road in small scale & maintenance for marketing of agricultural product.
- e) Installation of irrigation equipment and supply of pure drinking water to the human habitation.
- f) Complete the contract with the approval of the Government.
- g) Research and training.
- h) Other activities

Total Development activities under various projects of BMDA:

Development activities	Achievement
Installation of DTW	11474
Activating Inoperable DTW (Nos.)	4332
Installation of LLP (Solar+Electric) (Nos.)	(192+440) 601
Irrigation Water Distribution System (Km.)	12413.56
Extension Irrigation Water Distribution System (Km.)	1271.30
Re-excavation of Canals (km.)	2093.32
Re-excavation of Derelict Ponds (Nos.)	3451
Construction of Cross dam (Nos.)	749
Digging of Dug Well with solar energy (Nos.)	578
Feeder Road Construction (Km.)	1143.71
Drinking water supply from irrigation DTW (Nos.)	1579
Construction of Foot over Bridge (Nos.)	17
Construction of Cattle cross culvert (Nos.)	27
Construction of Light Culvert (Nos.)	8
Afforestation (Lakh)	260
Farmer training (Person)	151992
Utilization of irrigation equipment in 2020-2021 (Nos.)	DTW 15537+LLP 519
Irrigated area in 2020-2021 (Lakh Hec)	5.32
Irrigation charge realization in 2020-2021 (Tk. Lakh)	18153.25
Utilization of irrigation equipment in 2021-2022 (Nos.)	DTW 13203+LLP 337
Irrigated area in 2021-2022 (Lakh Hec)	1.07
Irrigation charge realization in 2021-2022 (Tk. Lakh)	2925.56

ACHIEVEMENTS OF BARIND AUTHORITY AT A GLANCE

A. ONGOING PROJECTS

1. Expansion of Irrigation in Natore District Through Best Uses of Surface Water and Conservation of Rain Water, (July-2019- December'2023). Estimated cost as per DPP Tk. 17557.52 lakh.

Objective of the project:

- a) Increasing surface water reservoirs, conservation water, its use in irrigation works, reduction stress in ground water and enhancement of ground water recharge through re-excavation of derelict canals.
- b) Make agriculture via drainage on 447 hectares of arable land.
- c) To increase the use of renewable energy and reduce the pressure on electricity by setting up solar powered LLPs.
- d) Production of drought tolerant and vibrant consumer crops (onion, garlic, cucumber, eggplant, sweet lava, pumpkin, gossip, melons, vegetables etc.) and limiting the excessive use of ground water by digging dugwell.
- e) 30816MT additional crop production in 7257 hectare of land by providing low cost and planned irrigation.
- f) Creating additional forest resources, increasing the supply of nutrients and supporting the improvement of environment by planting 1.50 lac fruits and medicinal plants.
- g) Providing training to 600 ideal farmers on modern agriculture, irrigation infrastructure, moderate use of ground water and surface water.

(Lakh Taka)

						(Lakii Taka)
				e year 202	21-2022	Cumulative
	DDD	Achievement			Expenditure	Expenditure
Components	DPP	up to	ADP	Fund	(%) physical	(% of PP
_	Target	December, 2021	Allocation	released		Allocation)
		2021			%	Physical %
Plantation (Fruit, Forest & Medicinal Plants) (Nos.)	150000	102000				
Farmers training (Person)	600	400				
Construction of footover bridge (Nos.)	30	26				
Drainage canal & cattle cross culvert construction (Nos.)	60	21				
Construction of uPVC pipeline for LLP (Nos.)	60	27			1287.94	5529.411
Extension of uPVC pipeline (610 m. each) (Nos.)	100	70	3450.00	1725.00	(37.33%)	(31.49%)
Construction of water distribution system for Dugwell	50	22			46.49%	33.89%
(360 m. each) (Nos.)	30	22				
Re-excavation of khal/khari (49493 cum/km) (Km.)	155	42.50				
Digging of Dugwell (120-130 ft) (Nos.)	50	22				
Construction of uPVC drainage canal for elimination of Water Logging (M.)	2500	845				

2. Minor irrigation through pond re-excavation and surface water augmentation; (July,2019 - December,2023). Estimated cost as per DPP Tk. 12818.75 lakh.

Objective of the project:

- a) To increase water holding capacity by re-excavating khas pond/dighi for multipurpose uses and enhancement of ground water recharge.
- b) To create opportunities for irrigating 3058 hectares of land through conservation and use of rain water/surface water and to produce additional 18348 MT. crops.
- c) To create opportunities for fish farming through water conservation and additional 1088 MT. of fish production.
- d) To increase the use of renewable energy by installing solar pumps for irrigation.
- e) To improve the environmental condition by afforestation.
- f) To facilate the job opportunities for the marginal farmers.

(Lakh Taka)

	ponents DPP Achievement - up to December, 2021		For the year 2021-2022			Cumulative
Components			ADP Allocation	Fund released	Expenditure (%) physical%	Expenditure (% of DPP Allocation) Physical %
Re-excavation of pond (Nos.)	715	335				
Re-excavation of dighi (Nos.)	10	4			1201.26	4578.26
Repair of Zonal Office building. (Nos.)	10	10	2450.00	1225.00	(49.03%)	(35.72%)
Construction of uPVC pipeline (Nos.)	80	45			60.98%	46.84%
Plantation (Fruit, Forest & Medicinal) (Nos.)	150000	75000				

3. Minore Expansion of Irrigation in Greater Rangpur District Through Best Uses of Surface Water and Conservation of Rain Water; (October-2019- December'2024). Estimated cost as per DPP Tk. 25056.63 lakh.

Objective of the project:

- a) Increasing surface water reservoirs, conservation water and its use in irrigation through re-excavation of canals, ponds & beels.
- b) Make agriculture via drainage on 350 hectares of arable land.
- c) 83400MT additional crop production in 10250 hectare of land by providing low cost and planned irrigation.
- d) To increase the use of surface water for irrigation through 130 nos. of LLP's.
- e) To increase the use of renewable energy and reduce the pressure on electricity by setting up solar powered LLP's.
- f) Production of low water consuming crops by digging 50 nos.soler powered dugwells.
- g) Creating additional forest resources, increasing the supply of nutrients and supporting the improvement of environment by planting
- 2.30 lac fruits, forests and medicinal plants.

(Lakh Taka)

						(Lakii Taka)
			For	the year 202	1-2022	Cumulative
Components	DPP Target	Achievement up to December, 2021	ADP Allocation	Fund released	Expenditure (%) physical%	Expenditure (% of PP Allocation) Physical %
Plantation (Fruit, Forest & Medicinal) (Nos.)	230000	79000				
Farmers training (Person)	1125	775				
Construction of Divisional Office Building (Nos.)	1	0				
Construction of Regional Office Building (Nos.)	1	0				
Construction of Zonal Office Building (Nos.)	8	4				
Re-excavation of khal/khari (km.)	230	36.00			1451.27	5131.025
Re-excavation of Beel (Nos.)	11	2	4140.00	2070.00	(35.05%)	(20.48%)
Re-excavation of Pond (Nos.)	118	15		2070.00	43.78%	24.77%
Construction of Sub-merged weir (Nos.)	10	0				
Construction of Footover Bridge (Nos.)	20	1				
Digging of DugWell with pipeline (Nos.)	50	19				
Construction of uPVC pipeline (Km.)	130	24				
Construction of drainage canal & cattle crass culvert (Nos.)	50	15				

4. Enhancement of Irrigation Throgh Surface Water Augmentation in Greater Dinajpur & Joypurhat District.; (October-2020- June'2025). Estimated cost as per DPP Tk. 25114.79 lakh.

Objective of the project:

- 1) Bringing non-irrigated land of the project area under irrigation.
- 2) Expansion of irrigation and removal of waterlogging by creating water reservoir & conserving rain water. For this-
- a) Re-excavation of 200 km Khals & 60 nos. waterbody and construction of 25 nos. submersedweir
- b) Installation of 165 nos. solar/electric LLPs and other facilities in the project area.
- c) To produce 1.7 lakh MT crop every year by irrigating 23340 hectares of land using 165 nos. of solar/electric LLP.
- d) Bringing 306 hectares submersed land under agricultural production by removing waterlogging.
- e) Ensuring low water consuming crop /vegetable production by excavating 60 nos. of Dugwells.
- f) Reduce the use of electricity for irrigation, through the use of renewable solar energy.
- g) To create additional forest resources, meet nutritional needs and help in environmental development by planting 2 lakh fruit, forest and medicinal trees.
- h) To create opportunities for farmer training and self-employment in the project area.

(Lakh Taka)

			For	the year 202	1-2022	Cumulative
Components	DPP Target	Achievement up to December, 2021	ADP Allocation	Fund released	Expenditure (%) physical%	Expenditure (% of PP Allocation) Physical %
Plantation (Fruit, Forest & Medicinal) (Nos.)	200000					
Construction of Zonal office building (Nos.)	4	1				
Construction of Godaon Com Zonal office building (Nos.)	5				2309.14	2803.135
Construction/repair of office boundary (Nos.)	5		4650.00	2325.00	(49.66%)	(11.16%)
Digging of DugWell (120-130 ft) with Solar and Water distribution system (Nos.)	60				58.06%	12.74%
Re-excavation of khal/khari (km.)	200					
Re-excavation of Water Body (Nos.)	60					

Construction of Sub-merged weir (Nos.)	25	
Construction of uPVC Pipeline (250mm dia)	140	16
with LLP (Nos.)	140	10
Construction of uPVC pipeline (200mm dia)	25	
with LLP (Nos.)	23	
Extension of uPVC pipeline (250mm dia) Each-	1000	200
590m (Nos.)	1000	200
Construction of RCC sign board (Nos.)	250	
Water drainage Pipe Line (625mm dia) (Nos.)	2.50	
Construction of Electric Lines with LLP (Nos.)	30	
Installation & Commissioning of Electric	30	
Transformer (Nos.)	30	
Construction of RCC Drainage (Nos.)	200	

5. Popularize of High Value Unconventional Fruit & Medicinal Crop in Barind Area Project; (July-2020-June'2025). Estimated cost as per DPP Tk. 1733.82 lakh.

Objective of the project:

- a) For the shake establishing high value non-conventional fruits and medicinal crops garden in farmers' own land or homestead area disbute saplings free of cost.
- b) Establishment of demonstration farms of high value non-conventional fruits and medicinal crops in the Barind area..
- c) Provide training to farmers / officers-staffs on production of high value fruit and medicinal saplings, planting etc.

(Lakh Taka)

	Components DPP up to December, 2021		For the year 2021-2022			Cumulative
Components			ADP Allocation	Fund released	Expenditure (%) physical%	Expenditure (% of PP Allocation) Physical %
Farmer's Training (Person)	1500	420				
Officer/Employee Training (Person)	310	120			126.13	277.846
Foreign Training (Person)	3		310.00	155.00	(40.69%)	(16.03%)
Demonstration farming (Nos.)	52	26	310.00	155.00	50.76%	21.60%
Purchase of sapling (Nos.)	415000	95000			33.7070	
Purchase of seeds (Nos.)	2000	1282				

6. Feasibility Study on "Conservation of Ground Water and Raising Its Use Efficiency and Productivity in Irrigated Agriculture in Bangladesh"; (July' 2020 - June' 2023.). Estimated cost as per DPP Tk. 41.22 lakh.

Objective of the project:

- 1) Assist in policy formulation to create necessary economic incentives for transition from low efficient, low productive and wasteful water management through the proposed project.
- 2) Increase the need, efficiency and productivity of water used for irrigation in deep tube well areas of BMDA and BADC through proposed water management based on 5 components (water quantity based irrigation charge, smart card, AWD technology, water supply efficiency, community based water management).
- 3) Conducting studies on shallow tube wells and deep tube well irrigation in the private sector through data collection and analysis to determine how to make the irrigation water market more efficient and productive in all these fields.

(Lakh Taka)

			For the	he year 2021	-2022	Cumulative
Components	DPP Target	Achievement up to November, 2021	ADP Allocation	Fund released	Expenditure (%) physical%	Expenditure (% of PP Allocation) Physical %
Purchase of UPVC pipes with necessary equipment and installation of pipelines	LS	LS	19.00	9.32	6.95 (36.58%)	21.872 (53.06%)
Outlet structure construction work	LS	LS	19.00	9.32	36.58%	53.25%
User card	LS	LS				33.23%

B. LIST OF COMPLETED PROJECT

Project Name	Allocation & Expenditure (Lakh Tk.)	<u>Components</u>	Achievement
1. Barind Integrated Area	39497.75 &	a) Installation of DTW (nos.)	1512
Development Project-Phase-	10411.00 (26.36%)	b) Re-excavation of Ponds (nos.)	1170
I (1985-1990)		c) Re-excavation of Canals (miles)	6.50
		d) Water Distribution System (nos.)	26
		e) Electrification of DTW (nos.)	10
		f) Construction of Feeder Road (km.)	47.98
		g) Aforestation (Lakh)	49.21
2. Barind Integrated Area	49168.00 &	a) Installation of DTW (nos.)	3536
Development Project-Phase-	46512.96 (94.60%)	b) Re-excavation of Derelict Ponds (nos.)	784
II (1990-2001)		c) Re-excavation of Canals (km.)	40.50
		d) Construction of Cross dam (nos.)	30
		e) Irrigation Water Distribution System (nos.)	2074
		f) Electrification of DTW (nos.)	3040
		g) Feeder Road Construction (km.)	65.85
2. Fine Bire Beet adies	197.00 &	h) Aforestation (lakh) a) Seed Procurement (MT)	84.21
3. Fine Rice Production Project in Barind Area		, ,	43.70 25.65
(1995-2001)	137.52 (69.81%)	b) Seed Distribution (MT.) c) Farmers Training (nos.)	23.63 2679
(1993-2001)		d) Demonstration plot (nos.)	142
		• • • • • • • • • • • • • • • • • • • •	
4. Rural Drinking Water	161.50 &	Drinking Water Distribution System	26
Supply (PILOT) Project	161.50 (100%)	Construction (nos.)	
(1995-1997)	12600 00 0	Contact Conference (Free Lorenze LOV)	225.20
5. Barind Rural Road	12600.00 &	a) Construction of Feeder road (Km)	335.38
Development Project-Phase-	12520.10 (99.37%)	b) Construction of Culvert, Bridge (Nos.)	186
I (1994-2000) 6. Barind Bridging Project	2133.00 &	c) Aforestation (Lakh)	14.15 80
(2001-2003)	2000.00 (93.76%)	a) Re-excavation of pond. (Nos.) b) Re-excavation of canal (Km)	12.80
(2001-2003)	2000.00 (93.70%)	c) Construction of Cross Dam (Nos)	8
		d) Rehabilitation of DTW (Nos.)	130
		d) Sapling (lakh)	4.00
7. Barind Rural Road	1901.00 &	a) Construction of Feeder road (Km.)	37
Development Project-Phase-	1832.62 (96.40%)	b) Construction of Culverts (Nos.)	22 (162M.)
II (2000-2003)	,	e) Aforestation (Lakh)	0.10
8. Intensive Aforestation	958.40 &	a) Aforestation i) Fruit trees (lakh)	5.56
Project (1997-2004)	957.56 (99.91%)	ii) Forest trees (lakh)	21.66
9. Repair/Rehabilitation of	1087.83 &		
Deep tube well Project in	1087.83 (100%)		
Greater Dinajpur District		Rehabilitation of DTW (Nos)	1217
Under Post-Drought		Reliabilitation of D1 W (1408)	1217
Agricultural Rehabilitation			
Programmer (2003-2004)	12004 56.0	N. B.	2.500
10. Barind Command Area	13804.56 &	a) Water Distribution System (nos.)	2600
Development And Training	13804.56 (100%)	b) Farmers training (Person)	30000
Project of (1996-2006) 11. Barind DTW	14962.70 %	a) Electrification of DTW/(N)	2202
	14862.70 &	a) Electrification of DTW (Nos.)b) Electric Pump purchase (Nos.)	2203
Electrification Project (1996-2006)	14862.66 (100%)	c) Construction of sub-station (Nos.)	2203 5
(1990-2000)		d) Supply & Installation of 3/15 KVA	3 495
		11/0.4 KV distribution sub-station (Nos.)	1 73
		e) Supply & Installation of 3/10 KVA	1708
		11/0.4 KV distribution sub-station (Nos.)	1700
ı			
		f) Rehabilitation of 11/0.04 KV. 3/15 &	330
		f) Rehabilitation of 11/0.04 KV, 3/15 & 3/10 KV distribution sub-station (Nos.)	330
12. Barind DTW Installation	13050.00 &	3/10 KV distribution sub-station (Nos.)	330 1650 Nos
12. Barind DTW Installation Project (2001-2006)	13050.00 & 13050.00 (100%)		

Septembliture (Lakh Tk.) 250.00 & a) 250.00 & b) Seed supply and procurement (MT). 40 70 70 70 70 70 70 70	Project Name	Allocation &	<u>Components</u>	Achievement
Production & Marketing Programme (2004-2006) C) Setting of demonstration Plot (Nos). 70		Expenditure (Lakh Tk.)		
Programme (2004-2006)			, , ,	
14. Eco-System Anagement in Barind Areas (1999-2006)		98.38 (39.35%)		
Management in Barind Areas (1999-2006) Cross Dam (Nos.) 43 Cross Dam (Nos.) 11 e. Excavation of Genal (Km) 16.50 d. Cross Dam (Nos.) 11 e. Excavation of Mini ditch. (Nos.) 430 f. Water sealed latrine (Nos.) 96 g. Pliot-Home lighting (set) 23 h. Pilot-Biogas plant (Nos.) 20 i. Drinking water supply system 12 j. Established of Eco-village (Nos.) 9 k.) Mini Eco-Park (Nos.) 1 1 1 1 1 1 1 1 1				
Areas (1999-2006) Construction of Canal (Km) Construction of Data (Km) Construction (Km) Construction of Data (Km) Construction (Km) Construction (Construction of Data (Km) Construction (Km) Construction (Construction of Data (Km) Construction (Construction (Constructio		754.21 &		
d) Cross Dam (Nos.)				
e) Excavation of Mini ditch. (Nos) 430 f) Water sealed latrine (Nos.) 96 g) Filot-Home lighting (set) 23 h) Pilot-Biogas plant (Nos.) 20 i) Drinking water supply system 12 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 a) Water supply installation (Nos.) 27 Tubewell Project (2002- 2007) 16. Command Area 27 Development & Training 27 Project, Unit-2, Thakurgaon (2003-2008) 29 17. Barind Rural Road 10000.00 & 20 Development Project, 9999.76 (100%) 29 Development Project, 9999.76 (100%) 20 Development Project, 9999.76	Areas (1999-2006)			
f) Water sealed latrine (Nos.) 96 g) Pilot-Home lighting (set) 23 h) Pilot-Biogas plant (Nos.) 20 i) Drinking water supply system 12 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 1 15. Drinking Water Supply 4124.66 & a) Water supply installation (Nos.) 282 282 4124.53 (100%) b) Water supply installation extension (Nos.) 27 27 27 27 27 27 28 28				
g) Pilot-Home lighting (set) 23 h) Pilot-Biogas plant (Nos.) 20 10 prinking water supply system 12 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 12 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 12 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 2 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 2 j) Established of Eco-village (Nos.) 9 k) Mini Eco-Park (Nos.) 1 2 j j j j j j j j j				
h Pilot-Biogas plant (Nos.) 20 i Drinking water supply system 12 j Established of Eco-village (Nos.) 9 k Mini Eco-Park (Nos.) 1 15. Drinking Water Supply 4124.66 & a) Water supply installation (Nos.) 282 from Irrigation Deep 4124.53 (100%) b) Water supply installation extension (Nos.) 27 Tubewell Project (2002-2007) 2007 2007 16. Command Area Project (Unit-2, Thakurgaon (2003-2008) 2003 2008 2003-2008) 2003 2008 2003-200			` '	
1) Drinking water supply system 12 j) Established of Eco-village (Nos.) 1 1 15. Drinking Water Supply from Irrigation Deep 4124.66 & 4124.53 (100%) 282 27 27 282 297 2907 2008 2008 2008 2003-2008				
15. Drinking Water Supply 4124.66 & a) Water supply installation (Nos.) 282 15. Drinking Water Supply 4124.53 (100%) b) Water supply installation (Nos.) 27 27 27 27 27 27 27 2				
Section Sect				
15. Drinking Water Supply from Irrigation Deep Tubewell Project (2002-2007)				
From Irrigation Deep Tubewell Project (2002-2007)				
Tubewell Project (2002-2007)				
2007 16. Command Area 9748.50 & a) Burried Pipe Line (Nos) 1217		4124.53 (100%)	b) Water supply installation extension (Nos.)	27
16. Command Area Development & Training Project, Unit-2, Thakurgaon (2003-2008) Development & Training Project, Unit-2, Thakurgaon (2003-2008) Development Project, Unit-2, Thakurgaon (2003-2008) Development Project, Phase-3 (2003-2008) Development Project, Development Project, Phase-3 (2003-2008) Development Project, Development Project, Development Project, Development Project, Development Project (2005-2008) Development Project (2005-2008) Development Project (2005-2008) Development Project, Development Projec				
Development & Training Project, Unit-2, Thakurgaon (2003-2008) Development Project, Unit-2, Thakurgaon (2003-2008) Development Project, Phase-3 (2003-2008) Development Project (2003-2008) Development Project (2005-2008) Development Project, Project (2005-2008) Development Project, Project, (2005-2008) Development Project, Project, (2005-2008) Development Project, Project, (2004-2010) Development Project, Development Project, (2004-2010) Development Project, (2004-2010) Development Project, (2008-2010) Development Project				
Project, Unit-2, Thakurgaon (2003-2008)			, , ,	
C2003-2008 C3 C3 C3 C3 C3 C3 C3 C		9700.50 (99.51%)		
17. Barind Rural Road 10000.00 & a) Construction of Road (Km.) 237.50 b) Construction of Bridge/Culvert (Nos.) 87 c) Construction of Office Building (Nos.) 3 d) Road/Culvert repair/maintenance (Km.) 686 e) Aforestation (Lakh.) 3 3 d) Road/Culvert repair/maintenance (Km.) 686 e) Aforestation (Lakh.) 3 3 d) Road/Culvert repair/maintenance (Km.) 686 e) Aforestation (Lakh.) 3 3 3 3 3 3 3 3 3				
Development Project, Phase-3 (2003-2008)	, ,			
Phase-3 (2003-2008)				
d) Road/Culvert repair/maintenance (Km.) 686 e) Aforestation (Lakh.) 3 18. Aforestation Program for Ecological Balance in Unit-2 Area of Barind Project (2005-2008) 588.26 (98.91%) 10.00 Unit-2 Area of Barind Project (2005-2008) 15995.00 & 2030 19. Deep Tubewell Installation Project, Unit-2, Thakurgaon. (2005-2010) 15994.61 (100%) 15994.61 (100%) 1000 20. Barind Rain Water Conservation & Irrigation Project. (2004-2010) 15116.81 (100%) 15116.81 (100%) 1600 21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.06 (100%) 1567.06 (100%) 1000 d) Card reader 1000 1000 d) Road/Culvert repair/maintenance (Km.) 3.00 a) Aforestation: i) Fruit tree (lakh) 3.00 ii) Forest trees (lakh) 10.00 iii) Forest trees (lakh) 10.00 iiii Forest trees (9999.76 (100%)		
e) Aforestation (Lakh.) 3	Phase-3 (2003-2008)		c) Construction of Office Building (Nos.)	3
18. Aforestation Program 867.69 & a) Aforestation: i) Fruit tree (lakh) 3.00 ii) Forest trees (lakh) 10.00 Unit-2 Area of Barind b) Nursery establishment (Nos.) 13 c) Training (Person) 2030 19. Deep Tubewell 15995.00 & 15994.61 (100%) b) Electrification of DTW (Nos.) 1100 Unit-2, Thakurgaon. (2005-2010). 20. Barind Rain Water 15117.13 & a) Re-Excavation of Canals (Km.) 1000 Conservation & Irrigation Project. (2004-2010) 1567.31 & a) Pre-paid Meter (Nos.) 3000 Smart Card (Nos.) 30000 Conservation System Project. (2008-2010) 1567.06 (100%) b) Smart Card (Nos.) 30000 c) Mobile Vending Unit (Nos.) 100 1			d) Road/Culvert repair/maintenance (Km.)	686
For Ecological Balance in Unit-2 Area of Barind Project (2005-2008) B58.26 (98.91%) B58.26 (98.91%) B58.26 (98.91%) Deep Tubewell Installation Project, Unit-2, Thakurgaon. (2005-2010) Deep Tubewell Installation Project, Unit-2, Thakurgaon. (2005-2010) Deep Tubewell Installation Project, Installation Project, Unit-2, Thakurgaon. (2005-2010) Deep Tubewell Installation Project, Installation Installation (Nos.) Defect Installation (Nos.) Defect Installation Installation			e) Aforestation (Lakh.)	3
Unit-2 Area of Barind Project (2005-2008) b) Nursery establishment (Nos.) 13 19. Deep Tubewell Installation Project, Unit-2, Thakurgaon. (2005-2010) 15995.00 & a) DTW installation (Nos.) 1100 2010). 15994.61 (100%) b) Electrification of DTW (Nos.) 1100 2010). 20. Barind Rain Water Conservation & Irrigation Project. (2004-2010) 15117.13 & a) Re-Excavation of Canals (Km.) 1000 21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.31 & a) Pre-paid Meter (Nos.) 3000 Measuring System Project. (2008-2010) 1567.06 (100%) b) Smart Card (Nos.) 30000 0 Card reader 25	18. Aforestation Program	867.69 &	a) Aforestation: i) Fruit tree (lakh)	3.00
Project (2005-2008)		858.26 (98.91%)	ii) Forest trees (lakh)	10.00
19. Deep Tubewell 15995.00 & a) DTW installation (Nos.) 1100 Installation Project, 15994.61 (100%) b) Electrification of DTW (Nos.) 1100 Unit-2, Thakurgaon. (2005-2010). c) Water distribution System (Nos.) 1100 20. Barind Rain Water 15117.13 & a) Re-Excavation of Canals (Km.) 1000 Conservation & Irrigation 15116.81 (100%) b) Re-Excavation of Derelict Ponds (Nos.) 800 Project. (2004-2010) c) Construction of X-Dam (Nos.) 555 21. Smart Card Based Prepaid Pump Usage & Energy 1567.31 & a) Pre-paid Meter (Nos.) 3000 Measuring System Project. (2008-2010) c) Mobile Vending Unit (Nos.) 100 (2008-2010) d) Card reader 25			b) Nursery establishment (Nos.)	13
Installation Project, Unit-2, Thakurgaon. (2005-2010). 15994.61 (100%) b) Electrification of DTW (Nos.) 1100 c) Water distribution System (Nos.) 1100 d) Training (Person) 5000 20. Barind Rain Water 15117.13 & a) Re-Excavation of Canals (Km.) 1000 Conservation & Irrigation 15116.81 (100%) b) Re-Excavation of Derelict Ponds (Nos.) 800 Project. (2004-2010) c) Construction of X-Dam (Nos.) 555 21. Smart Card Based Prepaid Pump Usage & Energy 1567.31 & a) Pre-paid Meter (Nos.) 3000 2000 2008-2010) b) Smart Card (Nos.) 30000 20000 200000 200000000000	Project (2005-2008)		c) Training (Person)	2030
Unit-2, Thakurgaon. (2005-2010). c) Water distribution System (Nos.) 1100 20. Barind Rain Water 15117.13 & a) Re-Excavation of Canals (Km.) 1000 Conservation & Irrigation Project. (2004-2010) 15116.81 (100%) b) Re-Excavation of Derelict Ponds (Nos.) 800 21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.31 & a) Pre-paid Meter (Nos.) 3000 Measuring System Project. (2008-2010) c) Mobile Vending Unit (Nos.) 100 d) Card reader 25	19. Deep Tubewell	15995.00 &	a) DTW installation (Nos.)	1100
Unit-2, Thakurgaon. (2005-2010). c) Water distribution System (Nos.) 1100 20. Barind Rain Water 15117.13 & and the project. (2004-2010) a) Re-Excavation of Canals (Km.) 1000 21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.31 & and the project. (2008-2010) a) Pre-paid Meter (Nos.) 3000 Mobile Vending Unit (Nos.) 100 d) Card reader 25	Installation Project,	15994.61 (100%)	b) Electrification of DTW (Nos.)	1100
2010). d) Training (Person) 5000 20. Barind Rain Water 15117.13 & a) Re-Excavation of Canals (Km.) 1000 Conservation & Irrigation Project. (2004-2010) 15116.81 (100%) b) Re-Excavation of Derelict Ponds (Nos.) 800 21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.31 & a) Pre-paid Meter (Nos.) 3000 Measuring System Project. (2008-2010) b) Smart Card (Nos.) 30000 c) Mobile Vending Unit (Nos.) 100 d) Card reader 25	Unit-2, Thakurgaon. (2005-			
Conservation & Irrigation Project. (2004-2010)15116.81 (100%)b) Re-Excavation of Derelict Ponds (Nos.)800 55521. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010)1567.31 & a) Pre-paid Meter (Nos.)3000 30000b) Smart Card (Nos.) C) Mobile Vending Unit (Nos.)30000 30000d) Card reader25	2010).			5000
Conservation & Irrigation Project. (2004-2010)15116.81 (100%)b) Re-Excavation of Derelict Ponds (Nos.)800 55521. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010)1567.31 & 1567.06 (100%)a) Pre-paid Meter (Nos.) b) Smart Card (Nos.)3000 300000 Mobile Vending Unit (Nos.) d) Card reader100 25	20. Barind Rain Water	15117.13 &	a) Re-Excavation of Canals (Km.)	1000
Project. (2004-2010) c) Construction of X-Dam (Nos.) 555 21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.31 & a) Pre-paid Meter (Nos.) 3000 b) Smart Card (Nos.) 30000 c) Mobile Vending Unit (Nos.) 100 d) Card reader 25	Conservation & Irrigation			
21. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.31 & a) Pre-paid Meter (Nos.) 3000 b) Smart Card (Nos.) 30000 c) Mobile Vending Unit (Nos.) 100 d) Card reader 25	Project. (2004-2010)			
paid Pump Usage & Energy Measuring System Project. (2008-2010) 1567.06 (100%) b) Smart Card (Nos.) c) Mobile Vending Unit (Nos.) d) Card reader 25	21. Smart Card Based Pre-	1567.31 &	a) Pre-paid Meter (Nos.)	
Measuring System Project. (2008-2010) c) Mobile Vending Unit (Nos.) 100 d) Card reader 25	paid Pump Usage & Energy		•	
(2008-2010) d) Card reader 25				
	(2008-2010)			
o) server with necessary equipment			/	
f) Tower Installation/construction 9				
22. Quality Seed Production 1032.40 & a) Seed production, procurement, 2000	22. Quality Seed Production	1032.40 &	,	-
Project on Farmer Level 1031.77 (99.94%) processing & marketing (MT)				
(2006-2011) b) Foundation/breeder seed procurement (MT) 65		(-	65
c) Training (Person) 12600	,		-	
d) Demonstration Plot (nos.) 625				
23. Barind Environmental 2252.43 & a) Afforestation (i) Fruit (Lakh) 16.80	23. Barind Environmental	2252.43 &		
Balance Restoration 2251.80 (99.97%) (ii) Medicinal & Forest (Lakh) 18.70				
Through Afforestation b) Training (Person) 1042		, , , ,		
Project (2006-2011) c) Nursery establishment (Nos.) 25				

Project Name	Allocation & Expenditure (Lakh Tk.)	<u>Components</u>	<u>Achievement</u>
24. Capacity Building & Resource Mobilization for Sustainable Land Management (Eco System Management) in Bangladesh		a) Green Manuring (Kg.) b) Compost Heap (Nos.) c) Eco-village (Nos.) d) Plantation (Nos.) e) Water sealed latrine (nos.)	1330 20 5 2486 10
(SLMP, Barind Part) (2009- 2011)	20.420.00.0	f) Tissue culture lab. (No) g) bio-gas plant (Nos). h) Re-excavation of pond (Nos.) i) Training (Person)	1 2 2 75
25. Barind Integrated Area Development Project-Phase- III (2007-2012)	28428.00 & 28424.62 (99.99%)	a) Installation of DTW (nos.) b) Water Distribution System (nos.) c) Electrification of DTW (nos.) d) Aforestation (Lakh)	2000 2000 2000 0.12
26. Fine Rice Production & Marketing Programe (2009-2012)	368.57 & 361.71 (98.14%)	a) Seed procurement, processing, preservation & marketing (MT) b) Foundation/breeder seed procurement (MT) c) Training (Person) d) Demonstration Plot (nos.)	3.27 16000 390
27. Drinking Water Supply from Irrigation Deep Tubewell Project (2008- 2012)	9302.76 & 9302.26 (99.99%)	a) Water supply installation (Nos.) b) Water supply installation extension (Nos.) c) Training (Person)	695 24 1500
28. Command Area Development & Training Project, Phase-2 (2008- 2013)	16154.23 & 16123.42 (99.80%)	a) Burried Pipe Line (Nos) b) Farmers training (Person)	2500 23500
29. Command Area Extension & Development Project (2010-2013)	5124.59 & 5074.06 (99.01%)	a) Extension of Burried Pipe Line (Nos)b) Rehabilitation of DTW (Nos.)c) Farmers training (Person)	1000 100 6500
30. Activating Inoperable DTW for Irrigation Project (2008-2014)	19913.09 & 19903.32 (99.95%)	a) Activating Inoperable DTW(Nos.) b) Water Distribution System (nos.) c) Electric line construction (Nos.) d) Pre-paid Meter installation (Nos.) e) Hose/Fita Pipe (Km.)	2415 2415 2113 400 20
31. Irrigation programme through surface water augmentation (2013-2016)	4060.94 & 4060.08 (99.98%)	a) Re-excavation of Canal (Km.) b) Construction of X-Dam (Nos.) c) Installation of Pontoon (Nos.) d) Installation of LLP (Nos.) e) Water Distribution System (nos.) f) Hose/Fita Pipe (Km.)	30 7 2 117 117
32. Smart Card Based Prepaid Pump Usage & Energy Measuring System Project. (2008-2016)	1908.82 & 1847.68 (96.80%)	a) Pre-paid Meter (Nos.)b) Smart Card (Nos.)c) Mobile Vending Unit (Nos.)d) Card reader	4100 82000 160 34
33. Panchagar, Thakurgaon, Dinajpur and Joypurhat Integrated Area Development Project (2010- 2017)	23225.45 & 23216.35 (99.96%)	a) Installation of DTW (nos.) b) Water Distribution System (nos.) c) Extension of Burried Pipe Line (Nos) d) Electrification of DTW (nos.) e) Re-excavation of Canal (Km.) f) Re-excavation of Ponds (Nos.) g) Construction of X-Dam (Nos.)	790 790 725 790 112 11
		h) LLP installation with irrigation chanel i) Aforestation (Lakh) j) Farmers training (Person)	80 8.00 10400

Project Name	Allocation & Expenditure (Lakh Tk.)	Components	Achievement
34. Deep tubewell	27403.96 &	a) Installation of DTW (nos.)	1115
Installation project, Phase-ii;	27400.58 (99.99%)	b) Water Distribution System (nos.)	1115
(January'2010-June'2018).	, , , ,	c) Extension of Burried Pipe Line (Nos)	1115
		d) Electrification of DTW (nos.)	1115
		e) Re-excavation of Canal (Km.)	40.00
		f) Construction of X-Dam (Nos.)	2
		g) LLP installation with irrigation chanel	25
		h) Construction of Dugwell (Nos.)	20
		i) Irrigation chanel for Dugwell (360 M.) (Nos.)	20
		j) Aforestation (Lakh)	0.80
		k) Farmers training (Person)	3000
35. Marketing agricultural	33695.69 &	a) Construction of Feeder Road (Km.)	420
product through	33683.88 (99.96%)	b) Periodic maintenance of constructed	744
development of rural	33003.00 (33.50%)	road (Km.)	
communication project,		c) Construction of culvert (Nos.)	108 (382 M.)
(October 2010-June 2018).		d) Aforestation (Lakh)	, , ,
(October 2010 June 2010).		i) Forest 3.14 & ii) Fruits 0.52	3.14 & 0.52
36. Barind rain water	19999.57 &	a) Re-excavation of Canal (Km.)	600
conservation & irrigation	19995.87 (99.98%)	b) Re-excavation of pond (Nos.)	200
project, Phase-ii;		c) Re-excavation of Dighi (nos.)	6
(March-2011-June 2018)		d) Construction of X-Dam (Nos.)	97
,		e) Construction of Dugwell (Nos.)	110
		f) LLP installation with irrigation chanel	69
		g) Soler irrigation system (Nos.)	46
		h) Construction of rubber dam (no.)	1 (62 M.)
		i) Construction of rechargewell (nos.)	5
		j) Aforestation (Lakh) i) Forest & ii) Fruits	6 & 2
37. Rehabilitation of old	7724.90 &	a) Rehabilitation of old DTW (nos.)	600
Deep tubewell in Rajshahi,	7622.57 (98.68%)	b) Installation of ground water monitoring	25
Chapai-nawabgonj &	,	Data logger (nos.)	
Naogaon districts;		c) Construction of electric & buried pipe	400
(February'2014-June'2018).		line (Nos.)	
38. Extension of irrigation	11613.00 &	a) Re-excavation of Canal (Km.)	38.85
in Barind area through	11612.22 (99.99%)	b) Re-excavation of pond (nos.)	7
conservation of water in	11012.22 (55.5570)	c) Construction of X-Dam (nos.)	16
cannel;		d) Construction of pipe line (M.)	181000
(January'2015-June'2018)		e) LLP installation (nos.)	57
		f) Installation of solar pump (15 hp) (nos.)	106
		g) Aforestation (Lakh)	0.80
39. Drinking Piped Water	11045.00 &	a) Water supply installation (Nos.)	550
Supply from Irrigation Deep	10698.595 (96.86%)	b) Water supply installation extension	50
Tubewells, Phase-iii;		(Nos.)	
(July'2013-June'2018)			
40. Enhancement of	13616.20	a) Construction of underground irrigation	1080
Irrigation Efficiency	13510.52 (99.22%)	channel (km.);	
Through Construction of		b) Farmers training (Person)	3000
Sub-surface Irrigation			
Channel;			
(July2015-June2019).			
41. Extension of irrigation	7912.50 &	a) Re-excavation of Khal/Khari (Km.)	
facilities by increasing	7894.60 (99.77%)	b) Re-excavation of Water body (Acre.)	02.20
availability of surface water		c) Construction of Submerged weir with	92.20
and removing water logging		foot bridge (Nos.)	14
in Naogaon District;			13
(July 2015-June 2019).			
(541y 2015-Julic 2019).	l	<u> </u>	

42. Quality Seed Production,		a) Seed procurement, processing,	3000
Distribution & Farmers'	1045.00 (99.88%)	preservation & marketing (MT)	
Training Project for crop		b) Farmer Training (Person)	5000
production (1st Revised).		c) Officer Training (Person)	700
(July 2015-June 2020)		d) Demonstration Plot (nos.)	400
(buly 2013 bulle 2020)		e) Field Day (Nos.)	100
43. Excavation of Dug-well	5348.38 &	a) Excavation of dug-well (Nos.)	420
in Barind Area for	5347.756 (99.88%)	b) Solar Panel Installation (Nos.)	420
cultivation of crops by soft		c) 1.5 Inch Dia uPvc Pipe Line construction	420
Irrigation (Revised-1); (July		(360 meter each) (Nos.)	
2016-June 2021).			
44. Extension of irrigation	2987.06 &	a) RCC Retaining wall	4035
facilities by augmentation of	2985.26 (99.94%)	b) RCC Slab	100
surface water and mitigation		c) Footover bridge with gatevalve	7
of water logging in Bagha,		d) Heavy Culvert with gatevalve	2
Charghat & Paba Upazillas		e) Light Culvert	8
of Rajshahi District;		f) Structure for protection of river bank	1
(October 2015-June 2021).		g) Sluice gate	1
(Getobel 2013-Julie 2021).		h) Re-excavation of Khas Khal/Khari	21.50
		i) Digging of Dug well	20
		j) Water distribution system for Dug well	20
		k) Water distribution system for LLP	10

OUTPUT

Development Activities	Before Project	After Project (Rajshahi Barind)
Irrigated area (lakh hectare) Boro	0.52	3.36
Percentage of Irrigated area (as per cultivated area)	13%	57.57%
Cropping intensity (in the command area)	117%	230%
Yearly benefited farmer family (lake)	1.10	5.46
Yearly production crop (lake tons.)	7.56	34.32
Yearly additional crop yield (lake tons.)	-	26.76
Value of additional crop (Crore taka)	-	4348.50
Yearly average rainfall (inch)	54.99	64.00

Potential of Rajshahi Barind area if all cultivable land brought under irrigation

(a)	Total cultivable land in the project area	5.83 lakh ha.
(b)	Present production (M.T)	34.32 lakh
	(non irrigated)	<u>26.76 lakh</u>
	=> Yearly additional production in irrigated area (M.T)	61.08 lakh
	If all 5.83 lakh ha. cultivable land comes under irrigation, production will be	Total 68.90 lakh M.T.
(c)	=> Expected Yearly additional production will be	24.48 lakh M.T
(d)	=> Value of additional yield per year	4348.50 Crozes TK.