

Government of the People's Republic of Bangladesh
Ministry of Water Resources



Bangladesh Water Development Board

PROJECT COMPLETION REPORT: IMED 04/2003 (Revised)

for

**Construction of Necessary Residential, Administrative and Other
Physical Infrastructure at BWDB Establishments.**

November, 2022

Government of the People's Republic of Bangladesh
Ministry of Planning
Implementation Monitoring and Evaluation Division
PROJECT COMPLETION REPORT: IMED 04/2003 (Revised)

A. PROJECT DESCRIPTION:

01. Name of the Project : Construction of Necessary Residential, Administrative and Other Physical Infrastructure at BWDB Establishments.) (Project code- 222012600)
02. Administrative Ministry/Division : Ministry of Water Resources (MoWR)
03. Executing Agency : Bangladesh Water Development Board (BWDB)
04. Location of the Project : All over Bangladesh
05. Objective of the Project:
- To observe the structural condition of all the buildings in BWDB campus including offices, residential buildings, rest houses etc. all over the Bangladesh.
 - To develop the data base of all the residential quarters of BWDB.
 - To develop detail inventory of the existing buildings of BWDB over the country.
 - To find out whether dismantling of the existing buildings is necessary or not (i.e. Structural functionality).
 - To determine the housing requirement by calculating the future development trend in accordance with the organogram of BWDB.
 - To investigate and prepare documents of all the properties and infrastructures.
 - To develop design, construction and implementation plans for necessary residential, administrative, dormitory, guest house and other physical infrastructure at BWDB establishments.
 - To develop design of residential buildings along with gymnasium with indoor sports facilities and landscape planning in Dhaka Metropolitan Area (DMA) along with other zones.
 - To develop electrical and plumbing design and drawings.
 - To develop the interior design and landscape plan.
 - To estimate the cost of proposed infrastructures for DPP preparation.
 - To ensure participation of the stakeholders in all phases of the project.

06. Estimated Cost:

	(In lakh Taka)	
	Original	Latest Revised
(a) Total	497.03	-
(b) Taka	497.03	-
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-



07.	Date of Approval	:	PCP/PFS	PP
(a)	Original	:	16.06.2021	
(b)	Latest Revised	:	-	
(c)	No cost time extension		05.10.2021	

08. Implementation Period:

	Date of Commencement	Date of Completion
(a) Original	June 2021	January 2022
(b) Latest Revised	June 2021	June 2022
(c) Actual	June 2021	June 2022

09. Financing Arrangement (Source-wise):

9.1 Status of Loan/Grant

a) Foreign Financing : Not Applicable

Source (s)	Currency as per Agreement	Amount in US \$ (Million)	Nature (Loan/Grant/supplier's/credit)	Date of Agreement	Date of Effectiveness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8

b) GOB:

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
497.03	-	497.03	-

9.2 Utilization of Project Aid: Not Applicable

(In million)

Source (s)	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	In US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7

9.3 Re-imbursible Project Aid (RPA): Not Applicable

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6

B. IMPLEMENTATION POSITION

01. Implementation Period:

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
June 2021-January 2022 (08 months)	June 2021-June 2022	June 2021- June 2022 (13 months)	62.5 %	The scope of the ToR increased with time and data had to be collected from all over Bangladesh which was time extensive.

02. Cost of the Project:

(In lakh Taka)

Description	Estimated Cost		Actual expenditure	Cost over-run (% of original cost)	Remarks
	Original	Latest revised			
1	2	3	4	5	6
TOTAL	497.03	-	488.09	-	
TAKA	497.03	-	488.09	-	
PA	-	-	-	-	

03. Project Personnel:

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per pp	Existing manpower for O & M	Others		
1	2	3	4	5	Male	Female
Officer (s)	11	-	-	-	11	0
Staff(s)	11	-	-	-	6	5
Total:	22	Existing Manpower of Directorate of Planning-1, BWDB			17	5

04. Training of Project Personnel (Foreign/Local): No provision of training in this project

Field of Training /Study tour/workshop/Seminer etc.	Provision as per PP		Actual		Remarks
	Number of persons	Man - months	Number of persons	Man - months	
1	2	3	4	5	6
a. Foreign	-	-	-	-	-
b. Local	-	-	-	-	-

05. Component-wise Progress (As per latest approved PFS):

(In lakh Taka)

Items of work (as per PFS)	Unit	Target (as per PFS)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (%)	Financial	Physical (%)	
1	2	3	4	5	6	7
A. Revenue						
1. Feasibility Study (Local Professionals 176.00 Man-month)	Lot	489.03	100.00%	482.76	100%	
2. Other stationary	LS	1.00	100.00%	0.99	100%	
3. Honorarium	LS	3.00	100.00%	2.36	78.33%	
4. Entertainment Expenses	LS	2.00	100.00%	0.00	0.00%	
Sub-total (Revenue):		495.03	100.00%	486.11	98.20%	
B. Capital			100.00%			
5. Furniture	LS	2.00	100.00%	1.98	100%	
Sub-total (Capital):		2.00	100.00%	1.98	100%	
Grand-Total		497.03	100.00%	488.09	99.47%	

06. Information regarding Project Director (s):

Name & Designation with pay Scale.	Full time	Part time	Responsible for more than one project	Date of		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Dr. Shamal Chandra Das Superintending Engineer (Civil) Directorate of Planning-1 BWDB, Dhaka Grade-4 (50,000 to 71,200)	Full time	-	Yes	26.08.2021	Till date	-

07. Procurement of Transport (in Nos.): *Not Applicable*

Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferr ed to O & M with date	Condemned/ damaged with date	Remarks
1	2	3	4	5	6	7
Car	-	-	-	-	-	
Jeep	-	-	-	-	-	

08. Procurement of Goods, Works and Consultancy Services:

08.1 Goods & Works of the Project costing above Tk. 200.00 lakh. and Consultancy above Tk. 100.00 lakh:

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PFS	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
"Feasibility Study for Construction of Necessary Residential, Administrative and Other Physical Infrastructure at BWDB Establishments Project"	489.03	487.98	10.08.2021	16.09.2021	Original: 31.01.2022 Revised: 30.06.2022	30.06.2022

8.2 Use of Project Consultant (s) (Foreign/Local):

Name of the Field	Approved man month		Actual man month utilised	Remarks
	As per PP	As per contract		
1	2	3	4	5
a) Foreign:	-	-	-	
b) Local:	176	176	176	Conducted by Professional Associates Ltd.

09. Construction/Erection/Installation Tools & Equipment: Not Applicable

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date	Disposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7

C. FINANCIAL AND PHYSICAL PROGRAMME:

01. (a) Original and revised schedule as per PFS:

(In lakh Taka)

Financial Year	Financial provision & physical target as per original PP				Financial provision & physical target as per latest revised PP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2021-22	497.03	497.03	-	100.00%	-	-	-	-
Total	497.03	497.03	-	100.00%	-	-	-	-

01. (b) Revised ADP allocation and progress:

(In lakh Taka)

Financial Year	Revised Allocation & target				Taka release	Expenditure & physical progress			
	Total	Taka	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2021-22	497.00	497.00	-	100.00%	496.00	488.09	488.09	-	99.47%
Total	497.00	497.00	-	100.00%	496.00	488.09	488.09	-	99.47%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objectives as per PP/PFS	Actual achievement	Reasons for shortfall, if any
To observe the structural condition of all the buildings in BWDB campus including offices, residential buildings, rest houses etc. all over Bangladesh.	Observation and visits of all sites has been done (Annex 03 – Annex 11 (Page182-Page199) of the final report).	-
To find out whether dismantling of the existing buildings is necessary or not (i.e., Structural functionality).	The list of the buildings needed for dismantling has been done (Annex 03 – Annex 11 (Page182-Page199) of the final report).	-
To develop the data base of all the residential quarters of BWDB.	The data base of residential quarters has been prepared (Section 4: Technological Analysis 4.2.1 List of existing residential and office colony of Bangladesh Water Development Board (Page-15 of the final report).	-
To develop detail inventory of the existing buildings of BWDB over the country	The detail inventory has been prepared (Section 4: Technological Analysis of the final report) 4.2.1 List of existing residential and office colony of Bangladesh Water Development Board (Page-15 of the final report).	-
To investigate and prepare documents of all the properties and infrastructures	The investigation has been completed (Section 4: Technological Analysis of the final report) 4.2.1 List of existing residential and office colony of Bangladesh Water Development Board (Page-15 of the final report).	-
To determine the housing requirement by calculating the future development trend in accordance with the organogram of BWDB.	According to the organogram, the housing requirement has been developed (Section 4: Technological Analysis 4.2.2 List of the Sites approved for the Master Plans (Page:24) Annex-02 (Page 03 – Page 181).	-

Objectives as per PP/PFS	Actual achievement	Reasons for shortfall, if any
To develop design, construction and implementation plans for Necessary Residential, Administrative, Officers' (bachelor's) accommodation, Guest House and Other Physical Infrastructure at BWDB Establishments.	According to the requirements, Master Plan and implementation plan have been prepared (Section 4: Technological Analysis 4.2.4 Master Plans of the Zones (Page-52 to Page 375)).	-
To develop design of residential building along with gymnasium with indoor sports facilities and landscape planning in Dhaka Metropolitan Area (DMA) along with other zones.	The designs of residential buildings along with all other amenities have been prepared (Section 4: Technological Analysis 4.2.4 Master Plans of the Zones (Page-52 to Page 375)).	-
To develop electrical and plumbing design and drawings.	Electrical and plumbing design and drawings have been prepared (Section 4: Technological Analysis 4.2.4 Master Plans of the Zones (Page-52 to Page 375)).	-
To develop the Interior Design and Landscape Plan.	Interior Design and Landscape Plan have been prepared (Section 4: Technological Analysis 4.2.4 Master Plans of the Zones (Page-52 to Page 375)).	-
To estimate the cost of proposed infrastructures for DPP preparation.	The DPP of the project has been submitted. The cost of 1st phase is at 180663.02 lakh. The cost of second phase and third phase are 406032.30 lakh 266750.30 lakh respectively. The whole project will be divided into three phases. All the abandoned structures will be demolished in 1 st phase. The free spaces will be used to build new infrastructures in those. The structures that are in very poor condition will be demolished in 2 nd phase and new structures will be built in this phase. Land development and landscaping works will be held in this phase too. The maximum cost of the total project will be needed in this phase. Remaining structures that are in poor and moderate condition will be furnished and then be built. Utility services (e.g, electricity, gas, water drainage etc) will be designed in this phase. (Section 4: Technological Analysis 4.6.1 Costing Plan of 1st Phase for implementing project (Page-382).	-
To ensure participation of the stakeholders in all phases of the	The stakeholder (BWDB employees all over Bangladesh) participation has been ensured	-

Objectives as per PP/PFS	Actual achievement	Reasons for shortfall, if any
project.	(Annex 12- Annex 15 (Page 200 to Page 208) Appendix A: Meeting Minutes Appendix B: Revised Lists of sites of nine zones	

E. BENEFIT ANALYSIS

01. Annual Out-put: Not Applicable for the Study Project.

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1st year of operation at full capacity (or during, real production for newly completed project).
-	-	-	-

02. Cost / Benefit: *Not Applicable* (It is not an investment project, hence *not applicable*)

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	-	-
(ii) Economic	-	-
(2) Internal Rate of Return		
(i) Financial	-	-
(ii) Economic	-	-

02. Please give reasons for shortfall, if any, between the estimated and actual benefit:

Not Applicable

F. MONITORING AND AUDITING

1. Monitoring: Nil

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<u>Ministry/Agency:</u>	-	-	
<u>Others:</u>	-	-	



2. Auditing during and after Implementation:

2.1. Internal Audit: No audit conducted.

Period of Audit	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
-	-	-	-

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
01/09/2022-07/09/2022	-	No objections arisen	-

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

After recurrence devastating flood of 1954 and 1955 Crug Mission was formed in 1957 under United Nations (UN) to boost up food productivity by minimizing flood damage and water resources development & management in this region. As per mission's recommendations, Bangladesh Water Development Board (BWDB) started its operation in 1959 as the water wing of the erstwhile 'East Pakistan Water and Power Development Authority'. As the principal agency of the government for managing water resources of the country it was given the responsibility of accomplishing the tasks of executing flood control, drainage and irrigation projects to increase productivity in agriculture and fisheries. After the independence of Bangladesh, the authority was restructured in 1972 into two different organizations to deal with water and power separately. BWDB was created under the Bangladesh Water and Power Development Boards Order 1972 (P.O. No. 59 of 1972) as a fully autonomous organization. The reform program and structural adjustment process were undertaken by the GoB for transformation of BWDB is the enactment of the BWDB Act, 2000 that requires the BWDB's functions be guided by the National Water Policy (NWPo)- 1999 and National water Management Plan (NWMP)-2004. Policy making and overseeing the overall management of BWDB is now vested on the Governing Council (GC) with thirteen Members headed by the Minister, Ministry of water Resources. Bangladesh Water Development Board has made inhabitant quarter for Officers and Employees in BWDB. Most of the buildings were built between 1965 and 1975.

1.2 Justification/Adequacy

This project has been taken because most of the buildings and residences of the officers and staffs were built between 1965 to 1975. These infrastructures have been damaged in the course of time. Officers and employees of BWDB have to stay in these old buildings otherwise they have to stay in rental houses. In most of the time it is observed that they have to travel distances to go to work. Not only that, the official and administrative building condition is also poor in most of the field offices of BWDB. So the residences and other facilities are needed to accelerate the administrative activities of Bangladesh Water Development Board. Sustainable Development Goals (SDG) number-11 aims to provide adequate, safe and affordable housing and infrastructure in an eco-friendly manner. In this

manner, it is essential to ensure eco-friendly and affordable housing for officers and employee of Bangladesh Water Development Board.

Linkage with BDP 2100

The Project will contribute to the implementation of the Bangladesh Delta Plan 2100 from institutional aspect. This project complies with the Delta (BDP 2100) Goal no 5 which is “*Develop effective institutions and equitable governance for in country and trans-boundary WR management*”.

Since BWDB will play a lead role in water management by implementing 60 projects out of 80 of BDP 2100 so the institutional development of BWDB is must. This project will help to develop the overall institutional capacity of BWDB all over Bangladesh. So, the concept of the project is aligned with BDP2100.

1.3 Objectives

- To observe the structural condition of all the buildings in BWDB campus including offices, residential buildings, rest houses etc. all over Bangladesh.
- To develop the data base of all the residential quarters of BWDB.
- To develop detail inventory of the existing buildings of BWDB over the country.
- To find out whether dismantling of the existing buildings are necessary or not (i.e. Structural functionality).
- To determine the housing requirement by calculating the future development trend in accordance with the organogram of BWDB.
- To investigate and prepare documents of all the properties and infrastructures.
- To develop design, construction and implementation plans for Necessary Residential, Administrative, Dormitory, Guest House and Other Physical Infrastructure at BWDB Establishments.
- To develop design of Residential buildings along with gymnasium with indoor sports facilities and landscape planning in Dhaka Metropolitan Area (DMA) along with other zones.
- To develop electrical and plumbing design and drawings.
- To develop the Interior Design and Landscape Plan.
- To estimate the cost of proposed infrastructures for DPP preparation.
- To ensure participation of the stakeholders in all phases of the project.

1.4 Project revision with reasons: Not Applicable

2. Rationale of the project in respect of Concept, Design, Location and Timing:

After emerging as an autonomous organization in 1972, BWDB made offices, quarters and administrative buildings for their official works. These infrastructures have been damaged in the course of time. Officers and employees of BWDB have to stay in these old buildings otherwise they have to stay in rental houses. In most of the time it is observed that they have to travel distances to continue work. Better residences and other facilities are needed to accelerate the administrative activities of Bangladesh Water Development Board. In view of these, BWDB took preparation for this project.



3. Brief description on planning and financing of the project and its applicability.

◆ Project Identification

Bangladesh Water Development Board has made inhabitant quarter for Officers and Employees. Most of the buildings were built between 1965 and 1975. Not only the quarters but also office buildings and other infrastructures are built between the 60s to 70s. The durability of those buildings has decreased due to their old age. The use of those buildings is becoming more risky day by day. Again, current condition and facilities of staff quarters are very poor. Living costs in those buildings are high according to their current condition and facilities. That is why the staff is motivated to live in another rental house whereas it is their right to live in the defined area. In this circumstance, the authority of the Bangladesh Water Development Board has decided to solve this problem. For that reason, a project has been initiated namely "Construction of Necessary Residential, Administrative and Other Physical Infrastructure at BWDB Establishments" to provide better living and working space for all the staff of the Bangladesh Water Development Board (BWDB).

◆ Project Preparation

Previously, Colony development and maintenance were part (item) of DPP of investment projects which were taken time to time. The funding was not also adequate for this. So that, the damaged infrastructures related issues were not properly addressed. In course of time, offices, quarters and administrative buildings lose their efficacy all over Bangladesh.

The State Minister and Deputy Minister of MoWR visited the colonies of BWDB from time to time and felt the need of updating the degraded office, colony and other infrastructures of BWDB. Also, Senior Secretary of MoWR conducted site visits in several filed offices of BWDB and gave decision to develop the office, rest houses and other buildings for ensuring proper workplace for the officers of BWDB. That's why BWDB took preparation for this project.

◆ Appraisal

The DPEC meeting regarding this project was held on 25/03/2021 at MoWR.

◆ Credit Negotiation: N/A

◆ Credit Agreement: N/A

◆ Credit Effectiveness: N/A

◆ Loan Disbursement: N/A

◆ Loan Conditionalities: N/A

◆ Project Approval: The project was approved by the Honorable State Minister, MoWR on 16.06.2021

◆ Others (if any): N/A

4. Analysis of the Post-Implementation situation and result of the project: *Not Applicable*

4.1 Whether the beneficiaries of the project have clear knowledge about the Target/ Objectives of the project.

4.2 Programme for use of created-facilities of the project

4.3 O & M programme of the project.

4.4 Impact of the project -

4.4.1 Direct

4.4.2 Indirect



- 4.5 Transfer of Technology and Institutional Building through the project
- 4.6 Employment generation through the project.
- 4.7 Possibility of Self employment
- 4.8 Possibility of women-employment opportunity
- 4.9 Women's participation in development
- 4.10 Probable Impact on Socio-Economic activity.
- 4.11 Impact on environment
- 4.12 Sustainability of the project
- 4.13 Contribution to poverty alleviation/reduction
- 4.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.
- 4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.

5. *Problems encountered during Implementation (with duration & steps taken to remove those)*

- | | |
|---|---|
| 5.1 Project Management | 5.12 Project aid disbursement and re-imbursment |
| 5.2 Project Director | |
| 5.3 Land Acquisition | 5.13 Mission of the development partners. |
| 5.4 Procurement | 5.14 Time & Cost Over-run |
| 5.5 Consultancy | 5.15 Project Supervision/Inspection |
| 5.6 Contractor | 5.16 Delay in Decision |
| 5.7 Manpower | 5.17 Transport |
| 5.8 law & Order | 5.18 Training |
| 5.9 Natural calamity | 5.19 Approval |
| 5.10 Project financing, allocation and release. | 5.20 Others. |

5.11 Design formulation/approval

It is a contract base consultancy service procurement project. The above problems don't occur

6. **Remarks & Recommendations of the Project Director:**

The prime objective of this study is to carry out a Feasibility Study for ensuring sustainable and integrated plan to ensure perfect working and living environment for the officers and staffs of BWDB. To achieve this, stakeholder consultation has been conducted in all the 9 zones of BWDB all over Bangladesh. 336 sites of BWDB have been visited to check the existing conditions of the structures of BWDB.

The physical infrastructures' requirement has been determined according to the existing structural condition and organogram of BWDB. After consulting with the stakeholders, the residences and administrative buildings requirement has developed in each zone.

Regarding their opinion, an integrated master plan consists of 246 BWDB sites have been designed and prepared along with recreational facilities such as gymnasium, playground, tennis court, swimming pool, club in the selected sites. The location of residential and administrative building has been determined according to the distance and time. The proposed project will contribute to the overall development of the services rendered by BWDB. For the implementing convenience, the entire

project is divided into three phases for working convenience and budget accommodation. All of the abandoned buildings will be identified and demolished in the initial phase. The badly damaged buildings will be demolished in the second phase. This phase will also include landscaping and land development. This stage of the project will have the highest expense. The remaining structures that are in poor and moderate condition will subsequently be furnished and built in the third phase. Utility services (such as power, gas, water, drainage, etc.) will be offered concurrently during this phase.

In view of the above, DPP has been made for the first phase. The cost of 1st phase is at 97276.59 lakh BDT. The cost of second phase and third phase are 406032.30 lakh BDT 266750.30 lakh BDT respectively. The DPP was sent to MoWR for review.

This project will develop an ideal living plan for all officers and staff of the Bangladesh Water Development Board (BWDB). There are different grades of officers and employees regarding the position. The facilities will be provided in accordance with the grade of the government's buildings, Condominium, Officers' (bachelor's) accommodation, staff accommodation, Barrack, ansar barrack, as well as school, mosque, rest house, and ware house are types of accommodation's infrastructure. Geographical illustration, environmental, climate change, and disaster risk analysis, cost estimation, and legal analysis are all necessary steps in conducting a feasibility study for this project. The benefit cost ratio (BCR) of the project is 1.12:1.

Last of all, this project will ensure developed work environment and residence for the employees of BWDB which will contribute to gain maximum output from the employees of BWDB.

Date:

Signature and seal of the Project Director

(Dr. Shamal Chandra Das)
Superintending Engineer (Civil)
Directorate of Planning-1
BWDB, Dhaka.

7. Remarks/Comments of Agency Head:

This project is significant because it will effectively solve the office space & accommodation related infrastructural problems of BWDB which it has been facing over the course of time. The project is conducted to provide a better housing environment and working facilities for the employees of the BWDB.

However, to get the maximum benefit and to ensure sustainability of the implementation project, suggestions and recommendations based on the feasibility study should be followed accordingly. The masterplans have been carefully designed according to the needs of the field officials and the cost of implementing the project has been prepared. The concerned DPP is now in MoWR. After the approval of the DPP, BWDB will take necessary steps for implementing the project as early as possible.

Date:

(FAZLUR RASHID)
Signature and Seal of the General
Director, BWDB, Dhaka

8. Remarks/Comments of the officer in- charge of the Ministry/Division:

The project has been completed successfully and satisfactorily. This project was taken to check the structural condition of the existing buildings in BWDB, determine the housing requirements by calculating the future development trend of BWDB, and develop design, construction and implementation plans of residential buildings along with other infrastructures. Master plan and architectural drawings have been designed on the basis of study recommendation as well as the actual need of the field officials. Based on the recommendations of the feasibility study, investment project will be formulated very soon to address the necessity of the accommodation of BWDB officials in all over the country.

Date:

Signature and Seal

GOVERNMENT OF THE PEOPLE'S
REPUBLIC OF BANGLADESH



MINISTRY OF WATER RESOURCES

১৭৪৬

৩০/০৬/২০২২

FINAL REPORT
ON

FEASIBILITY STUDY FOR "CONSTRUCTION OF NECESSARY
RESIDENTIAL, ADMINISTRATIVE AND OTHER PHYSICAL
INFRASTRUCTURE AT BWDB ESTABLISHMENTS"
PROJECT'

“বাপাউবো’র স্থাপনা সমূহে প্রয়োজনীয়
আবাসিক, প্রশাসনিক ও অন্যান্য ভৌত
অবকাঠামো নির্মাণ”
সমীক্ষা প্রকল্প



BANGLADESH WATER DEVELOPMENT BOARD

JUNE, 2022

Prepared by



Professional Associates Ltd.

Architects, Engineers & Interior Designers

Approved



00/04/22

(FAZLUR RASHID)
Director General
BWDB, Dhaka.

FINAL REPORT APPROVED BY DG. BV

U.O. No. 2984-DG

Dated: 00/04/2022

Executive Summary

Bangladesh Water Development Board (BWDB) takes the initiative to build a better and sustainable life for the people of BWDB. The current residences and administrative spaces are insufficient and in poor condition. The majority of the infrastructure was constructed between 1965 and 1975. To achieve sustainable development, the water board intends to implement necessary residential, administrative and other physical infrastructure. Bangladesh Water Development Board (BWDB) signed the contract agreement with the consulting firm, Professional Associates Ltd. on 26 September, 2021.

In the project, they divided all into nine zones, with each zone classified into circles, divisions, sub-divisions, and sections. **Dhaka, Barisal, Chittagong, Sylhet, Rajshahi, Rangpur, Cumilla, Khulna, and Faridpur** are among the project's nine zones. The sites visits have been done in all zones by observing the existing infrastructural condition. The physical infrastructures' requirement has been determined according to the existing structural condition and organogram of BWDB. After consulting with the stakeholders, the residences and administrative buildings requirement has developed in each zone. Regarding their opinion, the master plans have been designed and prepared along with recreational facilities such as gymnasium, playground, tennis court, swimming pool, club in the selected sites. The location of residential and administrative building has determined according to the distance and time.

The proposed project will contribute to the Ministry of Water Resources' mission and vision. For the implementing convenience, the entire project is divided into **three phases** for working convenience and budget accommodation in order to conduct the feasibility study. All of the abandoned buildings will be identified and demolished in the initial phase. The badly damaged buildings will be demolished in the second phase. This phase will also include landscaping and land development. This stage of the project will have the highest expense. The remaining structures that are in poor and moderate condition will subsequently be furnished and built in the third phase. Utility services (such as power, gas, water, drainage, etc.) will be offered concurrently during this phase.

This project will develop an ideal living plan for all officers and staff of the Bangladesh Water Development Board (BWDB). There are different grades of officers and employees regarding the position. The facilities will be provided in accordance with the grade of the government's

Construction of Necessary Residential, Administrative and Other Physical Infrastructure at BWDB Establishments

salary structure, and it will be ensured that they receive as many benefits as they deserve. There is an urge for affordable better-conditioned residential and work areas for employees. Aside from that, as a necessary consequence of future demand, more space will be required in the coming years to accommodate new professionals. The project's adopted technology aims to provide everyone with a better housing environment. A type to F type buildings, Condominium, Officers' (bachelor's) accommodation, staff accommodation, SM (Single Man) Barrack, ansar barrack, as well as school, mosque, rest house, and ware house are types of accommodation's infrastructure. Geographical illustration, environmental, climate change, and disaster risk analysis, cost estimation, and legal analysis are all necessary steps in conducting a feasibility study for this project. 246 of total master plans has been developed. The cost benefit ratio of the project is **1.12 : 1**. The cost of implementing the 1st phase in DPP is **180663.02** lakh.

Moreover, this project will eject the residential difficulties and provide administrative amenities as well as enhance the open and green recreational facilities, the environment by implementing an effective solid waste management system, educational facilities, community services, and residential amenities.

