

PROJECT COMPLETION REPORT

IMED 04/2003(Revised)



BANGLADESH WATER DEVELOPMENT BOARD

Name of the Project: Bank Protective Work along the Left Bank of Padma River from Aurangabad to Braha Bazar Ghat at Dohar Upazila in Dhaka District.

Name of Division: Dhaka O & M Division-2, BWDB, Dhaka.

Name of Circle: Dhaka O & M Circle, BWDB, Dhaka.

Name of Zone: Central Zone, BWDB, Dhaka.

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 : Bank Protective Work along the Left Bank of Padma River from Aurangabad to Braha Bazar Ghat at Dohar Upazila in Dhaka District.
02. Administrative Ministry/Division : Ministry of Water Resources.
03. Executing Agency : Bangladesh Water Development Board.
04. Location of the Project : Dohar, Dhaka.
05. Objective of the Project : The main objectives of the project are:
- To protect the left bank of Padma River from Aurangabad to Braha Bazar Ghat (from Km.0.000 to Km. 3.500 = 3500 meter with U/S(419 m) & D/S(78.5 m) end termination) from the erosion of Padma River.
 - To protect the Dohar Upazila area from the erosion of Padma River. Also to protect different physical infrastructure such as government & primary school, high school, college, Madrasha, mosque, homestead, market, fishery and poultry firms, cultivable land, bridge, previous protective works and other private & public properties.

06. Estimated Cost : (In lakh Taka)

| | Original | Latest Revised |
|----------------------|----------|----------------|
| (a) Total | 21762.05 | - |
| (b) Taka | 21762.05 | - |
| (c) Foreign Currency | 0.00 | - |
| (d) Project Aid | 0.00 | - |
| (e) RPA | 0.00 | - |

07. Date of Approval :

| | |
|-----|----|
| PCP | PP |
|-----|----|

(a) Original : - 07-01-2016

(b) Latest Revised : - N/A

08. Implementation Period :

| | Date of Commencement | Date of Completion |
|--------------|----------------------|--------------------|
| (a) Original | November, 2015 | June, 2018 |
| (b) Revised | November, 2015 | June, 2019 |
| (c) Actual | November, 2015 | June, 2019 |

A.

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 Effective-ness | 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 |
| 21762.05 | - | 21762.05 | - |

9.2 Utilization of Project Aid : (Source wise) N/A.

(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): N/A.

(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 |
| November, 2015 to June, 2018 | November, 2015 to June, 2019 | November, 2015 to June, 2019 | 37.50% | Dockyard & Engineering Works Limited, Bangladesh Navy, Sonakanda, Narayanganj was engaged as Contractor to implement the project. Time Over Run of Project implementation due to the fact that Dockyard & Engineering Works Limited completed only 35.90% of the project up to June, 2018 i.e. in the project implementation period. To complete the project, no cost time extension up to June, 2019 was approved and the project was successfully completed. |

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 | 21762.05 | N/A | 18798.09 | (-) 13.62% | In the Original DPP, there is provision for River Dredging Work by Dredger from km. 0.00 to km.2.200 = 2200 meter (Earth Volume: 13.06 lakh cum). But River Dredging Work has been completed of 1600 meter (Earth Volume: 3.92 lakh cum). The rest of the dredge length has not been taken into account as a project named "Dredging and Bank Protective Work along the Left Bank of Padma River from Majhir Char to Moksedpur via Narishabazar at Dohar Upazila under Dhaka District" was approved aiming to dredge 24 km at the downstream of the dredging area of the project near Braha Bazar. So the dredged alignment has been connected to the main channel which required dredging of 1600 meter length instead of 1825 meter. A model study on dredging alignment and dredged material disposal is in process for "Dredging and Bank Protective Work along the Left Bank of Padma River from Majhir Char to Moksedpur via Narishabazar at Dohar Upazila under Dhaka District" project. |
| TAKA | 21762.05 | N/A | 18798.09 | | |
| PA | - | - | - | | |

03. Project Personnel : Project work has been implemented by existing manpower of BWDB.

| Sanctioned strength as per PP | Manpower employed during execution | Status of the existing manpower | | | Manpower | |
|-------------------------------|---|--|-----------------------------|--------|----------|--------|
| | | Manpower requirement for O&M as per pp | Existing manpower for O & M | Others | Employed | |
| 1 | 2 | 3 | 4 | 5 | Male | Female |
| Officer (s) | Existing manpower of the implementing agency were deployed during execution of the project. | | | | | |
| Staff(s) | | | | | | |
| Total : | | | | | | |

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

| Field of Training /Study tour/workshop/S eminor etc. | Provision as per PP | | Actual | | Remarks |
|--|---------------------|-------------|------------------|--------------|---------|
| | Number of person | Man -months | Number of person | Man - months | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| a. Foreign | N/A | | | | |
| b. Local | N/A | | | | |

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

(In lakh Taka)

| Sl. No. | Items of work | Unit | Target (as per PP) | | Actual Progress | | Reasons for deviation (±) |
|-------------------------------------|--|-------|--------------------|-----------------------------|-----------------|----------------------------|---|
| | | | Financial | Physical (Quantity) | Financial | Physical (Quantity) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| (a) Revenue Component | | | | | | | |
| 1 | Honorarium of different Committee (PSC & TSC etc.) | L/S | 3.00 | L/S | 1.51 | L/S | |
| 2 | Honorarium for midterm evaluation | L/S | 2.00 | L/S | - | - | |
| 3 | Survey and Investigation | L/S | 5.00 | L/S | 4.14 | L/S | |
| 4 | Petrol & Lubricant | L/S | 7.50 | L/S | 7.50 | L/S | |
| 5 | Stationary, Seal & Stamps | L/S | 3.00 | L/S | 2.98 | L/S | |
| 6 | Printing & Publications | L/S | 3.00 | L/S | 3.00 | L/S | |
| 7 | Repair & maintenance of existing motor vehicles | L/S | 5.00 | L/S | 5.00 | L/S | |
| 8 | Computer & Office Equipments | L/S | 1.00 | L/S | 1.00 | L/S | |
| a) Revenue Total | | | 29.50 | | 25.13 | | |
| (b) Capital Component | | | | | | | |
| Acquisition of Assets | | | | | | | |
| 9 | Jeep (not more than 2500 cc) 5 Doors, Assembled by Pragati | nos | 75.00 | 1 no. | 54.40 | 1 no. | |
| 10 | Motor Cycle (125 cc) | nos | 3.00 | 2 nos. | 2.98 | 2 nos. | |
| 11 | Desktop Computer Ino. & Laptop 1 no. with Laser Printer and Accessories | nos | 2.00 | 2 nos. | 1.99 | 2 nos. | |
| Construction and Civil Works | | | | | | | |
| 12 | Bank Protective Work From Aurangabad to Braha Bazar Ghat Km. 0.00 to Km.3.500 = 3.500 km along the left bank of Padma River (With U/S D/S End Termination) | meter | 19764.05 | 3500 metre | 18207.76 | 3500 metre | |
| 13 | River Dredging Work by Dredger from km. 0.00 to km.1.825 = 1825 meter (Earth Volume:13.06 lakh cum) | meter | 1698.50 | 1825 metre (13.06 lakh Cum) | 505.83 | 1600 metre (3.92 lakh cum) | The rest of the dredge length has not been taken into account as a project named "Dredging and Bank Protective Work along the Left Bank of Padma River from Majhir Char to Moksedpur via Narishabazar at Dohar Upazila under Dhaka District" was approved aiming to dredge 24 km at the downstream of the dredging area of the project near Braha Bazar. So the dredged alignment has been connected to the main channel which required dredging of 1600 meter length instead of 1825 |

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| Sl. No. | Items of work | Unit | Target (as per PP) | | Actual Progress | | Reasons for deviation (±) |
|-----------------------|---------------|------|--------------------|---------------------|-----------------|---------------------|---|
| | | | Financial | Physical (Quantity) | Financial | Physical (Quantity) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | meter. A model study on dredging alignment and dredged material disposal is in process for "Dredging and Bank Protective Work along the Left Bank of Padma River from Majhir Char to Moksedpur via Narishabazar at Dohar Upazila under Dhaka District" project. |
| Capital Sub Total (b) | | | 21542.55 | - | 18772.96 | - | |
| Total (a+b) | | | 21572.05 | - | 18798.09 | - | |
| Physical Contingency | | L/S | 50.00 | - | - | - | |
| Price Contingency | | L/S | 140.00 | - | - | - | |
| Grand Total (a+b) | | | 21762.05 | 100% | 18798.09 | 100.00% | Work Completed. |

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 |
| Abul Kalam Azad Chief Engineer 66,000-76,490 (2 nd grade) | Full time | - | Yes | 21.01.2016 | 18.07.2016 | |
| A H M Fakhrul Islam Chief Engineer 66,000-76,490 (2 nd grade) | Full time | - | Yes | 19.07.2016 | 29.10.2018 | |
| Dewan Ainul Haque Executive Engineer 43,000-69,850 (5 th grade) | Full time | - | No | 29.10.2018 | till date | |

07. Procurement of Transport (in Nos.) :

| Type of transport | Number as per P.P. | Procured with date | Transferred to Transport Pool with date | Transferred to O & M with date | Condemned /damaged with date | Remarks |
|-------------------|--------------------|--------------------|---|--------------------------------|------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Jeep | 1 No. | May/2019 | - | 01/07/2019 | - | Dhaka Metro-Gha-18-3601 |
| Motor Cycle | 2 Nos | April/2018 | - | 01/07/2019 | - | Dhaka Metro-ha-50-1206, Dhaka Metro-ha-50-1207 |

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08. Procurement of Goods, Works and Consultancy Services:

08.1 Goods & Works of the Project costing above Tk. 200.00 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 PP | Contracted value | Invitation date | Contract signing/ L.C opening date | As per contract | Actual |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Bank Protective Work along the Left Bank of Padma River from Aurangabad to Braha Bazar Ghat at Dohar Upazila in Dhaka District. | 21762.05 | 18799.99 | 03/01/16 | 24/09/16 | 30/06/18 | Contractor failed to execute the work according to due time. As per agreement, penalty was imposed to the contractor within the contractual provision. |
| Bank protection work along the Left bank of Padma river at Aurangabad to Braha Bazar ghat at U/S End termination 125.60 m in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2946.98 | 2072.91 | 23/09/18 | 06/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Braha Bazar ghat From Km.0.000 to Km. 0.500 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 1743.30 | 23/09/18 | 06/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Brahabazar Ghat From Km.0.500 to Km. 1.000 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 1409.98 | 23/09/18 | 12/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Brahabazar Ghat From Km.1.000 to Km. 1.500 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 966.13 | 23/09/18 | 18/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Brahabazar Ghat From Km.1.500 to Km. 2.000 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 749.64 | 23/09/18 | 23/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Braha bazar Ghat From Km.2.000 to Km. 2.500 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 982.25 | 23/09/18 | 12/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Brahabazar Ghat From Km. 2.500 to Km. 3.000 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II, BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 863.63 | 23/09/18 | 23/12/18 | 30/06/19 | 30/06/19 |

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| 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 PP | Contracted value | Invitation date | Contract signing/ L.C opening date | As per contract | Actual |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Brahabazar Ghat From Km.3.000 to Km. 3.500 = 500 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II,BWDB, Dhaka, During the Year 2018-2019. | 2270.82 | 931.86 | 23/09/18 | 02/12/18 | 30/06/19 | 30/06/19 |
| Bank protection work along the Left bank of Padma river at Aurangabad to Braha bazar Ghat at D/S End termination 78.50 m. in Dohar Upazilla, Dist-Dhaka under Dhaka O & M Division-II,BWDB, Dhaka, During the Year 2018-2019. | 921.34 | 1264.88 (accomodated due to savings from other protective work package) | 23/09/18 | 12/12/18 | 30/06/19 | 30/06/19 |
| Dredging work of Padma river (CH. 0.00 to Km. 2.200 = 2.200 Km. at c/v Bank Protective Work along the Left Bank of Padma River from Aurangabad to Braha Bazar Ghat Project" at Dohar Upazila in Dhaka Dist. under Dhaka O&M Division-2, BWDB, Dhaka during the year 2017-18. | 1698.50 | 1376.91 | 07/05/19 | 28/08/18 | 30/04/19 | 30/06/19 |

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

| 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 | - | - | - | - |

09. Construction/Erection/Installation Tools & Equipment: N/A

| 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 |
| Not Applicable | | | | | | |

C. FINANCIAL AND PHYSICAL PROGRAMME:

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

(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 % |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 2015-16 | 941.00 | 941.00 | - | 4.32% | | | | |
| 2016-17 | 12239.43 | 12239.43 | - | 56.25% | | | | |
| 2017-18 | 8581.62 | 8581.62 | - | 39.43% | | | | |
| Total | 21762.05 | 21762.05 | - | 100% | - | - | - | - |

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 |
| 2015-16 | 0.00 | 0.00 | - | 0.00 % | 0.00 | 0.00 | 0.00 | - | 0.00 % |
| 2016-17 | 3750.00 | 3750.00 | - | 18.67 % | 3750.00 | 3744.82 | 3744.82 | - | 18.67 % |
| 2017-18 | 3752.00 | 3752.00 | - | 17.23 % | 3750.00 | 3518.52 | 3518.52 | - | 17.23 % |
| 2018-19 | 12456.00 | 12456.00 | - | 64.10 % | 12455.50 | 11534.75 | 11534.75 | - | 64.10 % |
| Total | 19958.00 | 19958.00 | - | 100.00 % | 19955.50 | 18798.09 | 18798.09 | - | 100.00 % |

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

| Objectives as per PP | Actual achievement | Reasons for shortfall, if any |
|---|--|----------------------------------|
| To protect the left bank of Padma River from Aurangabad to Braha Bazar Ghat (from Km.0.000 to Km. 3.500 = 3500 meter with U/S(419 m) & D/S(78.5 m) end termination) from the erosion of Padma River. | 3500 meter bank protective works along the Left Bank of Padma River has been completed. After Completion of the project, 3500 m bank erosion along the left bank of the Padma River is proceted. | No shortfall |
| To protect the Dohar Upazila area from the erosion of Padma River. Also to protect different physical infrastructure such as government & primary school, high school, college, Madrasha, mosque, homestead, market, fishery and poultry firms, cultivable land, bridge, previous protective works and other private & public properties. | Different physical infrastructure such as government & primary school, high school, college, Madrasha, mosque, homestead, market, fishery and poultry firms, cultivable land, bridge, previous protective works and other private & public properties have been protected from the erosion of the Padma river as 3500 meter bank protective works have been completed. | |

E. BENEFIT ANALYSIS

01. Annual Out-put:

| 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). |
|--|------|--|--|
| a) Agricultural land saved from erosion | Ha | 150.00 | 150.00 |
| b) Households saved from erosion | nos | 4,700 | 4,700 |
| c) School, College, Masjid, Madrasa saved from erosion | nos | 13 | 13 |
| d) Road saved from erosion | km | 1.00 | 1.00 |
| e) Bridge/Culvert saved | nos | 6 | 6 |
| f) Fisheries, Poultry, Dairy Farms saved | nos | 500 | 500 |
| g) Trees saved | nos | 20,000 | 20,000 |

02. Cost / Benefit :

| Item | Estimated | Actual |
|---------------------------------------|-----------|---|
| (1) Benefit cost ratio of the project | | |
| (i) Financial | 1.47:1.00 | Will be evaluated later by concern directors of BWDB and IMED |
| (ii) Economic | 1.72:1.00 | |
| (2) Internal Rate of Return | | |
| (i) Financial | 20.92% | |
| (ii) Economic | 25.16% | |

03. Please give reasons for shortfall, if any, between the estimated and actual benefit: N/A.

F. MONITORING AND AUDITING

0.1 Monitoring:

| Name & designation of the inspecting official | Date of Inspection | Identified Problems | Recommendations |
|---|--------------------|---------------------|-----------------|
| 1 | 2 | 3 | 4 |
| 1. Md. Mahfuzur Rahman Additional Director General (East Region) BWDB 2. Abul Kalam Azad Chief Engineer, Central Zone/PD 3. Md. Abdul Matin Sarkar Superintending Engineer Dhaka O&M Circle | 18.12.16 | No Problems Found | |
| 1. Md. Abdul Matin Sarkar Superintending Engineer Dhaka O&M Circle | 08.02.17 | No Problems Found | |

| Name & designation of the inspecting official | Date of Inspection | Identified Problems | Recommendations |
|---|--------------------|---------------------|-----------------|
| 1 | 2 | 3 | 4 |
| 1. Jahangir Kabir Director General, BWDB | | | |
| 2. A H M Fakhrul Islam Chief Engineer, Central Zone/PD | 22.03.17 | No Problems Found | |
| 3. Md. Abdul Matin Sarkar Superintending Engineer Dhaka O&M Circle | | | |
| 1. Kazi Toffail Hossain Chief Monitoring BWDB, Dhaka | 18.04.17 | No Problems Found | |
| 1. Md. Fazlur Rashid Director, Planning-1 BWDB, Dhaka | 04.04.18 | No Problems Found | |
| 2. Md. Abdul Matin Sarkar Superintending Engineer Dhaka O&M Circle | | | |
| 1. Md. Mahfuzur Rahman Director General, BWDB | | | |
| 2. Md. Momtaj Uddin Additional Director General (East Region) BWDB | 19.04.18 | No Problems Found | |
| 3. A H M Fakhrul Islam Chief Engineer, Central Zone/PD | | | |
| 4. Motahar Hossain Chief Engineer Design, BWDB, Dhaka | | | |
| 5. Md. Abdul Matin Sarkar Superintending Engineer Dhaka O&M Circle | | | |
| <u>Ministry / Agency:</u> 1) Mr. Mantu Kumar Biswas Joint Chief Ministry of Water Resource. | 22.03.17 | No Problems Found | |
| 1) Md.Siddikur Rahaman Senior Assistant Chief, Ministry of Water Resources | 18.10.17 | | |
| 2) Md.Ruhul Amin Joint Secretary BHWDB | to | No Problems Found | |
| 3) Md.Khalilur Rahaman Joint Secretary Ministry of Water Resources | 19.10.17 | | |

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| Name & designation of the inspecting official | Date of Inspection | Identified Problems | Recommendations |
|---|--------------------|---|---|
| 1 | 2 | 3 | 4 |
| IMED : Md. Afzal Hossain Director / Deputy Secretary IMED | 29-03-2018 | According to the collected information from the site visit and reasoning of time extension, the project duration can be extended 01(one) year (up to June, 2019) without increasing project cost by maintaining the following conditions: | By the memo vide no: 42.00.0000. 042.15.14-109, Date: 21/06/2018 of Ministry of Water Resources, the project duration was extended 01(one) year (up to June, 2019) without increasing project cost. |
| | | (a) The works of the project has to be completed within the proposed extended duration and proper necessary steps have to be taken by Ministry/BWDB. | (a) The works of the project were completed within the proposed extended duration and proper necessary steps were taken by Ministry/BWDB. It is to be noted that the existing protective works were divided into nine packages to complete the project within project duration. |
| | | (b) Proper necessary action should be taken against the concerned authority according to the rules as they could not complete the work according to the work plan. | (b) As Dockyard & Engineering Works Limited, Sonakanda, Narayanganj could not complete the work according to the work plan; work order was cancelled according to the tender agreement. |
| | | (c) Bank protective work should be done according to the design and maintaining quality. | (c) Bank protective work was done according to the approved design and maintaining quality. |
| | | (d) No time extension will be done to extend the project duration. | (f) The project has been completed within the extended project duration. |
| Md. Afzal Hossain Director / Deputy Secretary IMED | 29-11-2018 | (a) The progress of work needs to be accelerated to complete the project within June, 2019. | (a) The project has completed within June, 2019. |



| Name & designation of the inspecting official | Date of Inspection | Identified Problems | Recommendations |
|---|--------------------|--|--|
| 1 | 2 | 3 | 4 |
| | | (b) Work/Activity List needs to be formulated and accordingly Work Breakdown Structure (WBS) should be prepared. Work plan must be submitted by the contractor. Proper monitoring by Ministry/BWDB | (b) Work/Activity List formulation and accordingly Work Breakdown Structure (WBS) preparation, Work plan submission by the contractor, proper monitoring by Ministry/BWDB was ensured to complete the project within the time limit. |
| | | should be ensured to complete the project within the time limit. | |
| | | (c) Every work should be completed according to the design and specification. | (c) Every work has been completed according to the design and specification. |
| | | (d) As Dockyard & Engineering Works Limited could not complete the work according to the contract agreement, proper steps should be taken against them according to the rules. | (d) Proper steps were taken against Dockyard & Engineering Works Limited according to the rules as they could not complete the work according to the contract agreement. |
| | | (e) Suggestions can be taken from CPTU to change the purchase method. | (e) Suggestions were taken from CPTU to change the purchase method. |
| | | (f) It is necessary to ensure that no time extension will be done to extend the project duration. | (f) Necessary actions were taken to ensure that no time extension would be required. |

0.2. Auditing during and after Implementation:

2.1. Internal Audit (Resolved/Not Resolved/Partially resolved) : No Internal audit conducted

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

NA

2.2. External Audit (Resolved/Not Resolved/Partially resolved):

| Audit period | Date of submission of Audit Report | Major findings/ objections | Whether objections resolved or not. |
|--------------|------------------------------------|----------------------------|--|
| 1 | 2 | 3 | 4 |
| 2016-17 | 20.02.2018 | 5 Nos | 4 Nos objections Resolved 1 Nos objections Not Resolved, response submitted. |
| 2017-18 | - | - | - |

G. DESCRIPTIVE REPORT**1. General Observations/Remarks of the Project****1.1 : Background:**

The proposed project area is located very near to the Dhaka city at the southern part of it, namely Aurangabad & Braha Bazar in Dohar Upazila under Dhaka District on the left bank of the mighty River Padma.

The objective of the project is to protect the area of Aurangabad to Braha Bazar Ghat (Km. 0.000 to Km. 3.500 with U/S and D/S End Termination) from erosion of Padma River. Padma River is one of the mighty river in this country, originated from the Himalayas and crossing over the India as Ganges enter in Bangladesh as Padma through the district of Chapai Nawabganj. The river destined to the Bay of Bengal as Meghna while it fall into it near Chandpur and changed it's name. The downstream of the river Padma from Gualondo ghat is flowing bifurcate due to the creation of a char in the middle of it. The water flow in the right part of this char starts increasing gradually and accordingly decreasing in the left part. Recently the left flow of the river is quite straight through cut off which has increased the flow of the confluence in left side. Therefore, the access flow in the left side is consequently increasing the erosion on the left bank. The left bank of the river Padma, which is eroded the bank under the district of Dhaka. This area is famous for different handicraft type industries preserving our traditional textile. Already different locality of this area has been lost by the river erosion by this time. The south-west flood protection embankment which is now under utilization as the Dhaka-Dohar Highway is under threat from river erosion. In this situation, local people and local administration expressed their demand to protect valuable government and non-government properties including land, markets, school, college, madrasa, mosque, handicraft industries, and Dhaka-Dohar highway from the river erosion. The Honorable Member of the Parliament for Dhaka-1 and State Minister for the Ministry of Housing and Public Works also requested to the honorable Minister for Ministry of Water Resources for the implementation of protective work. In this context, a technical committee was formed by the board to conduct technical study for the protective work at Narisa Bazar and Doair bazaar & Braha Bazar area. The technical committee submitted a report on December, 2009 and recommended to implement bank protective work of 3.500 km from Aurangabad to Braha Bazar Ghat and 2.3700 km from Narisa bazaar (Majhir char) to Moksedpur along the left bank of Padma river at Dohar Upazila, Dhaka.

1.2 : Justification/Adequacy:

Bangladesh is a riverine country and bank-line erosion of different rivers has been a recurrent effect. River bank erosion in alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it becomes very severe and causes immense damages impacted by occurrence of devastating river erosion. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living within bankline/flood-plains. The large seasonal variation in river flow results in varying sediment transportation capacity and causes river-bank erosion, migration of river-bank and meandering river channels. There is a direct relevance of the project to the objectives stated above. Immediate objective of bank protection from river bank erosion

and the ultimate objective of safety of lives, properties and its economic impacts will be fulfilled for improved socio-economic and environmental impacts.

The Institute of Water Modelling (IWM) carried out a hydrological and morphological study of the Padma River for the mentioned areas by applying mathematical modelling techniques. The purpose of the study is to investigate the erosion problem and to devise a sustainable erosion mitigation plan. As mentioned in the study, the entire erosion prone area has been divided into several sites and the sites have been classified into three risk categories namely high risk, medium risk and low risk. It is obvious that sites under high risk category need protection on priority basis. Sites under medium category also need protection. On the other hand, low risk category may not need any protection work now but future development at those reaches need appropriate monitoring. Based on the baseline hydraulic and morphological conditions and experience from similar past studies a number of bank protection work options have been formulated for stabilization of eroding bank.

According to concluding remarks of the study, Option 2 is recommended as technically feasible and economically viable mitigation measures against the left bank erosion of the Padma River for the present study locations. Option 2 suggests for 3.500 km revetment from Aurangabad to Braha Bazar Ghat (Reach 1) and 7.5 km revetment at Narisha Bazzar (Majhir char) to Mokshedpur (Reach 2). According to present field condition the erosion of Aurangabad to Braha Bazar Ghat is more vulnerable. So, the present DPP has been prepared to protect the erosion of Aurangabad to Braha Bazar Ghat.

1.3 : Objectives:

- to protect the left bank of Padma River from Aurangabad to Braha Bazar Ghat (from Km.0.000 to Km. 3.500 = 3500 meter with U/S(419 m) & D/S(78.5 m) end termination) from the erosion of Padma River.
- To protect the Dohar Upazila area from the erosion of Padma River. Also to protect different physical infrastructure such as government & primary school, high school, college, madrasa, mosque, homestead, market, fishery and poultry farms, cultivable land, bridge, previous protective works and other private & public properties.

1.4 Project revision with Reason: Didn't require.

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

It seems rationale to implement erosion mitigation measures at said locations on emergency basis. Implementation of 3500 meter protective work along the Padma River at Dohar, Dhaka will save the lives and valuable properties under the project area along with the important Dhaka south-west flood protection embankment under use as Dhaka-Dohar Highway and Dohar-Nababgonj from possible flood threat.

The very nature and objectives of this Project have direct relevance with the national objectives of attaining self-reliance in food grain production, generation of rural employment, poverty alleviation especially for rural poorer section, creation of social & environmental balance and building economic infrastructures for the future generations to sustain.

A.

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

◆ Project Identification

To identify the potential erosion area of Padma River, The Institute of Water Modelling (IWM) carried out a hydrological and morphological study of the Padma River for the mentioned areas by applying mathematical modelling techniques. The purpose of the study is to investigate the erosion problem and to devise a sustainable erosion mitigation plan. As mentioned in the study, the entire erosion prone area has been divided into several sites and the sites have been classified into three risk categories namely high risk, medium risk and low risk. Based on the baseline hydraulic and morphological conditions and experience from similar past studies a number of bank protection work options have been formulated for stabilization of eroding bank.

According to concluding remarks of the study, Option 2 is recommended as technically feasible and economically viable mitigation measures against the left bank erosion of the Padma River for the present study locations. Option 2 suggests for 3.500 km revetment from Aurangabad to Braha Bazar Ghat (Reach 1) and 7.5 km revetment at Narisha Bazaar (Majhir char) to Mokshedpur (Reach 2). According to present field condition the erosion of Aurangabad to Braha Bazar Ghat is more vulnerable. So, the present DPP has been prepared to protect the erosion of Aurangabad to Braha Bazar Ghat.

◆ Project Preparation

A technical committee was formed by the board to conduct technical study for the protective work at Narisa Bazar and Doair bazaar & Braha Bazar area. The technical committee submitted a report on December, 2009 and recommended to implement bank protective work of 3.500 km from Aurangabad to Braha Bazar Ghat (from Km. 1.00 to Km. 4.500) and Narisa bazaar to Mokshedpur (from Km. 0.050 to Km. 2.420) along the left bank of Padma river at Dohar, Dhaka.

Subsequently a Technical Committee was formed by BWDB vide memo no. বাপাউবো(সচি) / পরি-১/ বিবিধ-৩/২০০২(৯ম খণ্ড)/ ৫৫, তারিখঃ ২৭/০৫/২০১৫। The committee visited the project area and submitted a report on 23.07.2015. The committee suggested for 3.500 km. bank revetment work from Aurangabad to Braha Bazar Ghat.

◆ Appraisal

The appraisal meeting was held on 12-01-2015 at Planning Commission. As per decision of appraisal meeting the DPP was corrected and sent to the ECNEC for approval the above project.

- ◆ Credit Negotiation: Not Applicable.
- ◆ Credit Agreement: Not Applicable.
- ◆ Credit Effectiveness: Not Applicable.
- ◆ Loan Disbursement: Not Applicable.
- ◆ Loan Conditionalities: Not Applicable.
- ◆ Project Approval.

The project was approved by ECNEC on 07.01.2016.

- ◆ Others (if any) : Nill.

4. Analysis of the Post-Implementation situation and result of the project :

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

Yes.

- 4.2 Programme for use of created-facilities of the project

The stakeholders are directly taking advantages of the created facilities of the project

4.3 O & M programme of the project.

As the project has been completed, major repair/ rehabilitation works will be accomplished from regular O&M budget of BWDB.

4.4 Impact of the project -

4.4.1 Direct

- Protect the left bank of Padma River from Aurangabad to Braha Bazar Ghat (from Km.0.000 to Km. 3.500 = 3500 meter with U/S (419 m) & D/S(78.5 m) end termination) from the erosion of Padma River.
- Protection of surrounding community from inundation during monsoon period.
- To increase the conveyance and storage capacity of Padma River.
- Huge immovable public & private properties beside the left bank of Padma river about worth 104640.00 lakh taka have been saved.

4.4.2 Indirect

- Safety of public and government owned assets and natural resources.
- Improvement of socio-economic condition.

4.5 Transfer of Technology and Institutional Building through the project

Not Applicable.

4.6 Employment generation through the project.

A large number of skilled/unskilled workers were employed during construction period.

4.7 Possibility of Self employment

There are possibilities of self employment as existing commercial, industrial and business centres are protected from river bank erosion & the environmental degradation.

4.8 Possibility of women-employment opportunity

Yes, there is possibility of women-employment through the project benefited area enhanced.

4.9 Women's participation in development

Yes.

4.10 Probable Impact on Socio-Economic activity.

By protecting the river bank erosion, the threat on the living community being landless and homeless will be eradicated and therefore the economy of the local people will not be adversely affected. As a result socio-economic balance in the locality is enhanced.

4.11 Impact on environment

Environmental enhancement is achieved through the implementation of the project. Bank erosion hazards of environment are eradicated to ensure the safety of local community and to increase the flow capacity of river.

4.12 Sustainability of the project

The project is sustainable but requires periodic maintenance.

4.13 Contribution to poverty alleviation/reduction

- After Completion of the project, 3500 meter along the left bank of the Padma river is protected from erosion. Thus protecting the local people from being homeless and saving huge immovable public and private properties which worth about 104640.00 lakh taka.
- Socio-economic development of the area.
- Growth of local business on the protected bank and surrounding area of Padma River.

4.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.

Positive remarks regarding the project.

4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.

Not Applicable.

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

| | | |
|------|--|---|
| 5.1 | Project Management | : N/A |
| 5.2 | Project Director | : N/A |
| 5.3 | Land Acquisition | : N/A |
| 5.4 | Procurement | : N/A |
| 5.5 | Consultancy | : N/A |
| 5.6 | Contractor | : Dockyard & Engineering Works Limited, Bangladesh Navy, Sonakanda, Narayanganj completed only 35.90% of the project up to June, 2018. Contractor failed to execute the work according to the time bar ratio. Several times BWDB official correspondence to submit re-schedule & improve work progress accordingly. The contractor failed to submit time bar schedule as per agreement & could not improve the progress in respect of completion period. In this reason total required work was not completed in time. As per agreement penalty was imposed to the contractor within the contractual provision. |
| 5.7 | Manpower | : N/A |
| 5.8 | law & Order | : N/A |
| 5.9 | Natural calamity | : N/A |
| 5.10 | Project financing, allocation and Release. | : N/A |
| 5.11 | Design formulation/approval | : N/A |
| 5.12 | Project aid disbursement and re-imbursment | : N/A |
| 5.13 | Mission of the development partners. | : N/A |
| 5.14 | Time & Cost Over-run | : N/A |
| 5.15 | Project Supervision/Inspection | : N/A |
| 5.16 | Delay in Decision | : N/A |
| 5.17 | Transport | : N/A |
| 5.18 | Training | : N/A |
| 5.19 | Approval | : N/A |
| 5.20 | Others. | : N/A |

No problems encountered during implementation of the project regarding the above facts excluding clause 5.6.



6 : Remarks & Recommendations of the Project Director :

To Save Dohar Upazila from continuous erosion along the Left bank of Padma River, it was necessary to construct permanent protective work. A total of 3500 meter permanent protective work has been completed under this project. This permanent protective work will save surrounding area's physical infrastructure such as government & primary school, high school, college, Madrasha, mosque, homestead, market, fishery and poultry farms, cultivable land, bridge, previous protective works and other private & public properties.

According to the approved DPP, the dredging work was included as 1825 meter length (13.06 Lakh cum). But during the pre-work measurement, it was found that a total of 2200 meter dredging work was needed to be done to achieve the required benefit from the project. After that it was decided to do the 2200 meter dredging work. Following that the dredging work started and due to the morphological changes of the Padma River during the following years, only 1600 meter (3.92 Lakh cum) dredging work was needed to do and The rest of the dredge length has not been taken into account as a project named "Dredging and Bank Protective Work along the Left Bank of Padma River from Majhir Char to Moksedpur via Narishabazar at Dohar Upazila under Dhaka District" was approved aiming to dredge 24 km at the downstream of the dredging area of the project near Braha Bazar. So the dredged alignment has been connected to the main channel which required dredging of 1600 meter length instead of 1825 meter. A model study on dredging alignment and dredged material disposal is in process for "Dredging and Bank Protective Work along the Left Bank of Padma River from Majhir Char to Moksedpur via Narishabazar at Dohar Upazila under Dhaka District" project.

During the Implementation period of the project members of different committees & monitoring authorities visited project site and gave their opinions which has help implementation of the project within project period. Project was implemented properly following respective design, drawing and specification. The quantity and quality of CC Block, Sand filled Geo-bag etc. were ensured by Task force committee of BWDB and concerned officials of BWDB.

After successful implementation of this project, the Dohar Upazila and adjacent area has been protected from severe erosion of the Padma River. The socio-economic condition of the people has been improved. Scope of new jobs & works have been created. The safety of human livelihood and properties have also been improved.

Recommendation: Proper monitoring and regular maintenance of the implemented revetment works are required for more sustainability of the project.

Date :


29.09.19

Dewan Ainul Haque
Project Director
&
Executive Engineer
Dhaka O&M Division-2
BWDB, Dhaka.

7. Remarks/Comments of Agency Head

This project has protected huge amount of immovable public & private properties including 150 Ha agriculture land worth monetary value of approx 1046 cr Taka from erosion of left bank of Padma river. Though BWDB has successfully implemented the project, the implementation phase wasn't smooth. Due to poor progress by DPM contractor, BWDB had to terminate the contract after one-third of implementation. BWDB implemented the remaining two-third of the project in a year by appointing new contractors through OTM tender. Overcoming such challenges inspire BWDB to successfully implement other ongoing sick projects.

Date :

Signature and Seal

(Md. Mahfuzur Rahman)
Director General
BWDB, Dhaka.

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

Date :

Signature and Seal

