

# BANGLADESH WATER DEVELOPMENT BOARD



## PROJECT COMPLETION REPORT IMED-04/2003 (REVISED).

NAME OF PROJECT: PROTECTION OF SONAHAT BRIDGE AND BHURUNGAMARI MADARGANJ ROAD FROM THE EROSION OF DUDHKUMAR RIVER AT BHURUNGAMARI UPAZILA & BANK REVETMENT WORK AT LEFT BANK OF TEESTA RIVER FROM GUNAIGACH TO BAZRA SENIOR MADRASHA AT ULIPUR UPAZILA IN KURIGRAM DISTRICT (2nd REVISED).

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| Name of Divisions | . Lalmonirhat O&M Division, BWDB, Lalmonirhat<br>. &<br>Kurigram O&M Division, BWDB, Kurigram. |
| Name of Circle    | . Rangpur O&M Circle-1, BWDB, Rangpur.<br>.                                                    |
| Name of Zone      | . Northern Zone, BWDB, Rangpur.<br>.                                                           |

**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** : Protection of Sonahat Bridge and Bhurungamari–Madarganj Road from the erosion of Dudhkumar River at Bhurungamari Upazila & Bank Revetment work at Left Bank of Teesta River from Gunaigach to Bazra Senior Madrasha at Ulipur Upazila in Kurigram District (2<sup>nd</sup> Revised).
02. **Administrative Ministry/Division:** Ministry of Water Resources.
03. **Executing Agency** : Bangladesh Water Development Board.
04. **Location of the Project** : Upzila- Bhurugamari & Ulipur, Dist. Kurigram
05. **Objective of the Project** :

- ❖ To protect Sonahat Bridge and Bhurungamari-Madarganj road and all immovable public and private properties situated in the project area .
- ❖ Approximate value of which Tk. 10074 lakh, by implementation of river bank protection work for a length of 1.30 km.
- ❖ To reduce vulnerability of river erosion by implementation of 0.685 km. Bank revetment work, 1 no. Spur, 1 no Groyne along the left Bank of the Teesta River.
- ❖ 3000 meter embankment resectioning work along the left Bank of Teesta River at Bazra Upazilla Ulipur in Kurigram District.
- ❖ Huge immovable public & private properties with estimated total worth of Tk. 8542.00 lakh dispersed in the vicinity of affected area will be saved from river

06. **Estimated Cost** :

|                      |          | (In lakh Taka)                          |
|----------------------|----------|-----------------------------------------|
|                      | Original | Latest Revised(2 <sup>nd</sup> Revised) |
| (a) Total            | 4174.36  | 5480.27                                 |
| (b) Taka             | 4174.36  | 5480.27                                 |
| (c) Foreign Currency |          |                                         |
| (d) Project Aid      |          |                                         |
| (e) RPA              |          |                                         |



|     |                    |   |     |            |
|-----|--------------------|---|-----|------------|
| 07. | Date of Approval   | : | PCP | DPP        |
|     | (a) Original       | : | -   | 16/10/2012 |
|     | (b) Latest Revised | : | -   | 04/10/2016 |

08. Implementation Period :

|                    | Date of Commencement | Date of Completion |
|--------------------|----------------------|--------------------|
| (a) Original       | July 2012            | June 2014          |
| (b) Latest Revised | July 2012            | June 2017          |
| (c) Actual         | July 2012            | June 2017          |

09. Financing Arrangement (Source-wise) :

9.1 Status of Loan/Grant

a) Foreign Financing :

| 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       |
| Not applicable |                           |                           |                                       |                   |                       |                 |         |

b) GOB :

(In lakh Taka)

| Total amount | Loan | Grant   | Cash Foreign Exchange |
|--------------|------|---------|-----------------------|
| 1            | 2    | 3       | 4                     |
| 5480.27      | -    | 5480.27 | -                     |

9.2 Utilization of Project Aid : (Source wise)

(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                 |
| Not applicable |              |                   |                    |                   |                   |                   |

9.3 Re-imbursible Project Aid (RPA):

(In lakh Taka)

| R P A Amount   |                  | Amount Spent | Amount Claimed | Amount Re-imbursed | Remarks |
|----------------|------------------|--------------|----------------|--------------------|---------|
| As per DPP     | As per Agreement |              |                |                    |         |
| 1              | 2                | 3            | 4              | 5                  | 6       |
| Not applicable |                  |              |                |                    |         |

**B. IMPLEMENTATION POSITION****01. Implementation Period :**

| Implementation Period as per DPP |                        | Actual Implementation Period | Time Over-run (% of original implementation period) | Remarks                                                                                                                                                  |
|----------------------------------|------------------------|------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original                         | Latest Revised         |                              |                                                     |                                                                                                                                                          |
| 1                                | 2                      | 3                            | 4                                                   | 5                                                                                                                                                        |
| July 2012 to June 2014           | July 2012 to June 2017 | July 2012 to June 2017       | 150.00%                                             | * Change of scope of work as morphological change of the river<br>* Increase in market price of all construction materials during implementation period. |

**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       | 4174.36        | 5480.27        | 5168.11            | 23.81                              | due to change in river morphological condition, scope of works got increased. |
| Tk.         | 4174.36        | 5480.27        | 5168.11            |                                    |                                                                               |
| PA          | -              | -              | -                  | -                                  | -                                                                             |

**03. Project Personnel :**

| Sanctioned strength as per DPP | Manpower employed during execution                                                                                                             | Status of the existing manpower         |                             |        | Manpower Employed |        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|--------|-------------------|--------|
|                                |                                                                                                                                                | Manpower requirement for O&M as per DPP | Existing manpower for O & M | Others |                   |        |
| 1                              | 2                                                                                                                                              | 3                                       | 4                           | 5      | Male              | Female |
| Officer (s)                    | Existing manpower of the implementing agency were deployed during execution of the project. No separate manpower were engaged for the project. |                                         |                             |        |                   |        |
| Staff(s)                       |                                                                                                                                                |                                         |                             |        |                   |        |
| Total :                        |                                                                                                                                                |                                         |                             |        |                   |        |

**04. Training of Project Personnel (Foreign/Local) : No training were scheduled in the project.**

| Field of Training /Study tour/workshop/ Seminar etc. | Provision as per DPP |              | 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 DPP) :

(In lakh Taka)

| Items of work<br>(as per PP)                                                                          | Unit   | Target (as per RDPP) |                     | Actual Progress |                     | Reasons for deviation (±) |
|-------------------------------------------------------------------------------------------------------|--------|----------------------|---------------------|-----------------|---------------------|---------------------------|
|                                                                                                       |        | Financial            | Physical (Quantity) | Financial       | Physical (Quantity) |                           |
| 1                                                                                                     | 2      | 3                    | 4                   | 5               | 6                   | 7                         |
| <b>Revenue</b>                                                                                        |        |                      |                     |                 |                     |                           |
| Supplies & Services                                                                                   |        |                      |                     |                 |                     |                           |
| 1) Petrol and Lubricant                                                                               |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | 1 item | 3.00                 | 1 item              | 3.00            | 1 item              |                           |
| Kurigram O&M Division                                                                                 | 1 item | 4.00                 | 1 item              | 4.00            | 1 item              |                           |
| 2) Printing and publication                                                                           |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | 1 item | 2.00                 | 1 item              | 1.98            | 1 item              |                           |
| Kurigram O&M Division                                                                                 | 1 item | 2.00                 | 1 item              | 1.39            | 1 item              |                           |
| 3) Stationery, Seal & Stamps                                                                          |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | 1 item | 2.00                 | 1 item              | 2.00            | 1 item              |                           |
| Kurigram O&M Division                                                                                 | 1 item | 2.00                 | 1 item              | 2.00            | 1 item              |                           |
| 4) Honorarium of different Committee.                                                                 |        |                      |                     |                 |                     |                           |
| Kurigram O&M Division                                                                                 | 1 item | 2.00                 | 1 item              | 1.78            | 1 item              |                           |
| Honorarium for Mid Term Evaluation (by BWDB, MoWR, Planning Commission & IMED)                        | 1 item | 10.00                | 1 item              | 6.73            | 1 item              |                           |
| 5) Survey & investigation                                                                             |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | 1 item | 2.00                 | 1 item              | 2.00            | 1 item              |                           |
| Kurigram O&M Division                                                                                 | 1 item | 3.00                 | 1 item              | 2.92            | 1 item              |                           |
| 6) Repair & Maintenance of existing vehicles                                                          |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | 1 item | 1.50                 | 1 item              | 1.50            | 1 item              |                           |
| Kurigram O&M Division                                                                                 | 1 item | 2.50                 | 1 item              | 2.50            | 1 item              |                           |
| <b>Total ( Revenue ) =</b>                                                                            |        | <b>36.00</b>         |                     | <b>31.80</b>    | <b>88.33%</b>       |                           |
| <b>Capital</b>                                                                                        |        |                      |                     |                 |                     |                           |
| <b>7) Acquisition of Assets</b>                                                                       |        |                      |                     |                 |                     |                           |
| Motor Cycle-I no.( Kurigram O&M Division)                                                             | No.    | 2.00                 | 1 no.               | 1.98            | 1 no.               |                           |
| 8) Survey Instrument                                                                                  |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | No.    | 1.50                 | 2 nos.              | 1.50            | 2 nos.              |                           |
| Kurigram O&M Division                                                                                 | No.    | 1.50                 | 2 nos.              | 1.50            | 2 nos.              |                           |
| 9) Laptop with Laser Printer & accessories-I No. ( Kurigram O&M Division)                             | No.    | 1.00                 | 1 no                | 1.00            | 1 no                |                           |
| <b>Construction Works:</b>                                                                            |        |                      |                     |                 |                     |                           |
| 10) Bank Revetment work                                                                               |        |                      |                     |                 |                     |                           |
| Lalmonirhat O&M Division                                                                              | Km     | 2286.15              | 1,300 Km            | 2103.93         | 1,300 Km            |                           |
| Kurigram O&M Division                                                                                 | Km     | 919.06               | 0.685 Km            | 919.06          | 0.685 Km            |                           |
| <b>Kurigram O &amp; M Division</b>                                                                    |        |                      |                     |                 |                     |                           |
| 11) Manufacturing & supplying of c.c blocks in C/W T- head Groyne-I No. ( Shank=300 m & T-head=134 m) | Nos    | 307.79               | 113083.00 Nos       | 307.60          | 113083.00 Nos       |                           |
| 12). Manufacturing & supplying of c.c blocks in C/W Spur-I No ( Shank=200 m )                         | Nos    | 182.89               | 65725.00 Nos        | 156.08          | 65725.00 Nos        |                           |
| 13) Construction of T-head Groyne at Km. 88.200-1 No. ( Shank=300 m & T-head=134 m).                  | No     | 798.66               | 1 No                | 798.66          | 1 No.               |                           |
| 14) Construction of Spur at Km. 80.100-1 No. ( Shank=200 m & ).                                       | No.    | 399.35               | 1 No.               | 318.72          | 1 No.               |                           |
| 15) Rehabilitation of Bank Revetment work with End Termination at Gunigach                            | Km.    | 295.64               | 0.285 Km.           | 295.64          | 0.232 Km.           |                           |

| Items of work<br>(as per PP)                           | Unit    | Target (as per RDPP) |                     | Actual Progress |                     | Reasons for deviation (±) |
|--------------------------------------------------------|---------|----------------------|---------------------|-----------------|---------------------|---------------------------|
|                                                        |         | Financial            | Physical (Quantity) | Financial       | Physical (Quantity) |                           |
| 1                                                      | 2       | 3                    | 4                   | 5               | 6                   | 7                         |
| 16) Protective work at Saduadamar                      | Km.     | 97.01                | 0.300 Km.           | 95.85           | 0.300 Km.           |                           |
| 17) Construction of Tie-Bundh at Km. 86.615            | Km.     | 24.91                | 0.600 Km.           | 8.91            | 0.600 Km.           |                           |
| 18) River dredging/Shoal removal of Teesta at Gunigach | m.      | 59.00                | 1000.00             | 59.00           | 1000.00             |                           |
| 19) Re-sectioning of Teesta Left embankment at Bazra   | Km.     | 57.81                | 3.000               | 56.89           | 3.000               |                           |
| 20) O & M during construction = 1 item.                | 1 item. | 10.00                | 1 item.             | 9.99            | 1 item.             |                           |
| Total (Capital) =                                      |         | 5444.27              |                     | 5136.31         |                     |                           |
| Grand Total =                                          |         | 5480.27              | 100.00%             | 5168.11         | 100.00%             |                           |

#### 06. Information regarding Project Director (s):

| Name &<br>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       |
| Md. Enayet Ullah,<br>Executive Engineer<br>Payscale: 22250-900x10-31250           | Full time | -         | No                                    | 10-04-2013 | 17-11-2013 |         |
| Md. Shahjahan Ali Talukder,<br>Executive Engineer<br>Payscale: 22250-900x10-31250 | Full time | -         | No                                    | 17-11-2013 | 03-07-2014 |         |
| Md. Abu Taher,<br>Executive Engineer<br>Payscale: 22250-900x10-31250              | Full time | -         | No                                    | 03-07-2014 | 20-08-2014 |         |
| Abu Md. Shafiul Azam<br>Superintending Engineer<br>Payscale: 25750-1000x8-33750   | Full time | -         | yes                                   | 20-08-2014 | 25-11-2014 |         |
| Atikur Rahman<br>Superintending Engineer<br>Payscale: 25750-1000x8-33750          | Full time | -         | yes                                   | 26-11-2014 | 23-04-2015 |         |
| Babul Chandra Sheel<br>Superintending Engineer<br>Payscale: 25750-1000x8-33750    | Full time | -         | yes                                   | 23-04-2015 | 18-06-2015 |         |
| Md. Lutfor Rahman<br>Superintending Engineer<br>Payscale: 50000-71200             | Full time | -         | yes                                   | 18-06-2015 | 13-01-2016 |         |
| Md. Harun-Ar-Rashid<br>Superintending Engineer<br>Payscale: 50000-71200           | Full time | -         | yes                                   | 13-01-2016 | 30-06-2017 |         |



**07. Procurement of Transport (in Nos.) :**

| Type of transport | Number as per DPP | 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                                               |
| Car               |                   |                    |                                         |                                |                             | Motorcycle is daily used for O&M of the Project |
| Jeep              |                   |                    |                                         |                                |                             |                                                 |
| Microbus          |                   |                    |                                         |                                |                             |                                                 |
| Minibus           |                   |                    |                                         |                                |                             |                                                 |
| Bus               |                   |                    |                                         |                                |                             |                                                 |
| Pick-up           |                   |                    |                                         |                                |                             |                                                 |
| Truck             |                   |                    |                                         |                                |                             |                                                 |
| Motor Cycle       | 1                 | 1 Nos (09-03-17)   | -                                       | 01-07-17                       | -                           |                                                 |
| By-cycle          |                   |                    |                                         |                                |                             |                                                 |
| Speed Boat        |                   |                    |                                         |                                |                             |                                                 |
| Launch            |                   |                    |                                         |                                |                             |                                                 |
| Others with name  |                   |                    |                                         |                                |                             |                                                 |

**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 & supply of goods |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|---------------------|------------------------------------|--------------------------------------------------------|------------|
|                                                                                                                                                                                                                                                                                                                                                             | As per RDPP                             | Contract value | Invitation date     | Contract signing/ L.C opening date | As per contract                                        | Actual     |
| 1                                                                                                                                                                                                                                                                                                                                                           | 2                                       | 3              | 4                   | 5                                  | 6                                                      | 7          |
| 1) Bank Protection work along the right bank of Dudhkumar River from km 0.200 to 0.400 =200.00m in Upazilla Bhurungamari Kurigram District during the year 2012-13. (Package no. Lal-12 of Tender no. 05/2012-13                                                                                                                                            | 395.25                                  | 349.96         | 16-04-2013          | 20-06-2013                         | 17-11-2013                                             | 29-06-2017 |
| 2) Bank Protection work along the right bank of Dudhkumar River from km 0.400 to 0.634 =234.00m in Upazilla Bhurungamari Kurigram District during the year 2012-13. (Package no. Lal-13 of Tender no. 05/2012-13 No. 02/03).                                                                                                                                | 427.07                                  | 413.40         | 16-04-2013          | 20-06-2013                         | 17-11-2013                                             | 29-06-2017 |
| 3) Bank Protection work along the right bank of Dudhkumar River adjacent to Sonahat Bridge from km 0.000 to 0.200 =200m (Including bell mouth of existing Sonahat Bridge Guide Bundh) in Upazilla-Bhurungamari, District- Kurigram under Lalmonirhat O&M Division, BWDB, Lalmonirhat during the year 2013-14' (Package no. Lal-01 of Tender no. 01/2013-14) | 401.36                                  | 401.36         | 24-07-2013          | 04-11-2013                         | 13-05-2014                                             | 29-06-2017 |

| Description of procurement (goods/works<br>/consultancy)<br>as per bid document                                                                                                                                                                                                                                                                                                                    | Tender/Bid/Propo<br>al Cost (in Lakh<br>Taka) |                   | Tender/Bid/Proposal |                                                | Date of completion<br>of works/services &<br>supply of goods |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------|---------------------|------------------------------------------------|--------------------------------------------------------------|------------|
|                                                                                                                                                                                                                                                                                                                                                                                                    | As per<br>RDPP                                | Contract<br>value | Invitation<br>date  | Contract<br>signing/<br>L.C<br>opening<br>date | As per<br>contract                                           | Actual     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                             | 3                 | 4                   | 5                                              | 6                                                            | 7          |
| 4) Bank Protection work along the right bank of Dudhkumar River adjacent to Sonahat Bridge from km 0.634 to 0.867 =233m in Upazilla- Bhurungamari, District- Kurigram under Lalmonirhat O&M Division, BWDB, Lalmonirhat during the year 2013-14' (Package no. Lal-02 of Tender no. 01/2013-14)                                                                                                     | 394.86                                        | 394.85            | 24-07-2013          | 04-11-2013                                     | 13-05-2014                                                   | 29-06-2017 |
| 5) Bank Revetment work along the right bank of Dudhkumar river adjacent to Sonahat Bridge from Km. 0.867 to Km. 1.100 = 233.00m for protection of Sonahat Bridge and Bhurungamari-Mathergonj Road from erosion of Dudhkumar river in UZ. Bhurungamari, Dist. Kurigram under Lalmonirhat O&M Division, BWDB, Lalmonirhat during the year 2014-15 (Tender ID: 18272, Package No. Lal-01/ 2014-15)    | 367.04                                        | 367.04            | 22-01-2015          | 30-03-2015                                     | 30-06-2015                                                   | 19-06-2017 |
| 6) Bank Revetment Work along the right bank of Dudhkumar river adjacent to Sonahat Bridge from Km. 1.100 to Km. 1.300 = 200.00m for protection of Sonahat Bridge and Bhurungamari-Mathergonj Road from erosion of Dudhkumar river in UZ. Bhurungamari, Dist. Kurigram under Lalmonirhat O & M Division, BWDB, Lalmonirhat during the year 2015-16 (Tender ID: 28309, Package No. Lal-01/ 2014-15). | 300.57                                        | 300.57            | 21-07-2015          | 14-10-2015                                     | 30-06-2016                                                   | 09-06-2017 |
| 7) Bank Protection work along the left bank of Teesta River from km 86.000 to 86.400 =400.00m in UP. Gunaigach, Upazilla- Ulipur, District- Kurigram under Kurigram O&M Division, BWDB, Kurigram during the year 2012-13' (Package no. Kuri-06/2012-13)                                                                                                                                            | 550.52                                        | 550.52            | 25.04.2013          | 26-06-2013                                     | 25-06-2014                                                   | 25-06-14   |
| 8) Bank Protection work along the left bank of Teesta River from km 86.400 to 86.800 =400.00m in UP. Gunaigach, Upazilla- Ulipur, District- Kurigram under Kurigram O&M Division, BWDB, Kurigram during the year 2012-13' (Package no. Kuri-07/2012-13)).                                                                                                                                          | 427.54                                        | 427.54            | 25.04.2013          | 26-06-2013                                     | 25-06-2014                                                   | 25-06-14   |
| 9) Manufacturing and supplying of C.C Block in C/W construction of Groyne at the left bank of Teesta river at Gunaigach and construction of tie bund at km 86.610 at the left embankment of Teesta at Gunaigach in upazilla Ulipur under Kurigram district (Package No. Kuri-01/2013-14)).                                                                                                         | 332.70                                        | 320.37            | 29.08.2013          | 18-12-2014                                     | 02-06-17                                                     | 02-06-17   |
| 10) Manufacturing and supplying C.C blocks in C/W construction of spur at the left Bank of Teesta river at Bazra in upazilla Ulipur, District- Kurigram (Package No. Kuri-02/2013-14)).                                                                                                                                                                                                            | 182.89                                        | 162.89            | 29.08.2013          | 18-12-2014                                     | 25-06-16                                                     | 25-06-14   |



| Description of procurement (goods/works<br>/consultancy)<br>as per bid document                                                                                                                                                                                                                | Tender/Bid/Propo<br>sal Cost (in Lakh<br>Taka) |                   | Tender/Bid/Proposal |                                                | Date of completion<br>of works/services &<br>supply of goods |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------|---------------------|------------------------------------------------|--------------------------------------------------------------|----------|
|                                                                                                                                                                                                                                                                                                | As per<br>RDPP                                 | Contract<br>value | Invitation<br>date  | Contract<br>signing/<br>L.C<br>opening<br>date | As per<br>contract                                           | Actual   |
| 1                                                                                                                                                                                                                                                                                              | 2                                              | 3                 | 4                   | 5                                              | 6                                                            | 7        |
| 11) Construction of T-head Groyne (Earthen Shank 300m & T-head 134m) on Teesta left embankment at Km. 88.200 at Gunaigach in Ulipur Upazilla, Kurigram District under Kurigram O&M Division, BWDB, Kurigram during the year 2015-16 ( <b>Tender ID: 51094, Package No. Kuri-01/ 2015-16</b> ). | 798.66                                         | 798.66            | 13.03.2016          | 21-11-2016                                     | 25-06-2017                                                   | 25.06.17 |
| 12) Construction of Spur (Earthen Shank 200m) on Teesta left embankment at Km. 80.100 at Bazra in Ulipur Upazilla, Kurigram District under Kurigram O&M Division, BWDB, Kurigram during the year 2015-16 ( <b>Tender ID: 51102, Package No. Kuri-02/ 2015-16</b> ).                            | 399.35                                         | 331.33            | 13.03.2016          | 27-11-2016                                     | 25-06-2017                                                   | 25.06.17 |
| 13) Rehabilitation of Protective work from Km. 86.40 to Km. 86.560=160m with U/S end Termination at Gunaigach in Ulipur Upazilla, Kurigram District under Kurigram O&M Division, BWDB, Kurigram during the year 2015-16 ( <b>Tender ID: 82114, Package No. Kuri-03/ 2015-16</b> ).             | 295.64                                         | 295.64            | 10.01.2017          | 25-02-17                                       | 29-06-17                                                     | 29-06-17 |

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

| Name of the Field | Approved man month |                 | Actual man month utilised | Remarks |
|-------------------|--------------------|-----------------|---------------------------|---------|
|                   | As per DPP         | As per contract |                           |         |
| 1                 | 2                  | 3               | 4                         | 5       |
| a) Foreign :      | Not Applicable     |                 |                           |         |
| b) Local :        | Not Applicable     |                 |                           |         |

## 09. Construction/Erection/Installation Tools & Equipment :

| Description of items | Quantity (as per DPP) | 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 DPP :**

(In lakh Taka)

| Financial Year | Financial provision & physical target as per original DPP |                |      |                | Financial provision & physical target as per latest revised DPP |                |      |                |
|----------------|-----------------------------------------------------------|----------------|------|----------------|-----------------------------------------------------------------|----------------|------|----------------|
|                | Total                                                     | Taka           | P.A. | Physical %     | Total                                                           | Taka           | P.A. | Physical %     |
| 1              | 2                                                         | 3              | 4    | 5              | 6                                                               | 7              | 8    | 9              |
| 2012-13        | 200.00                                                    | 200.00         | -    | 4.79%          | 199.93                                                          | 199.93         | -    | 3.65%          |
| 2013-14        | 3974.36                                                   | 3974.36        | -    | 95.21%         | 1698.12                                                         | 1698.12        | -    | 30.99%         |
| 2014-15        | -                                                         | -              | -    | -              | 558.26                                                          | 558.26         | -    | 10.19%         |
| 2015-16        | -                                                         | -              | -    | -              | 575.57                                                          | 575.57         | -    | 34.75%         |
| 2016-17        | -                                                         | -              | -    | -              | 2448.39                                                         | 2448.39        | -    | 20.42%         |
| <b>Total</b>   | <b>4174.36</b>                                            | <b>4174.36</b> |      | <b>100.00%</b> | <b>5480.27</b>                                                  | <b>5480.27</b> |      | <b>100.00%</b> |

**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             |
| 2012-13        | 200.00                      | 200.00         | -        | 3.65%       | 200.00         | 199.93                          | 199.93         | -        | 3.65%          |
| 2013-14        | 1700.00                     | 1700.00        | -        | 30.99%      | 1700.00        | 1698.12                         | 1698.12        | -        | 30.99%         |
| 2014-15        | 559.00                      | 559.00         | -        | 14.04%      | 558.78         | 558.26                          | 558.26         | -        | 14.45%         |
| 2015-16        | 600.00                      | 600.00         | -        | 10.94%      | 600.00         | 577.12                          | 577.12         | -        | 10.53%         |
| 2016-17        | 2446.00                     | 2446.00        | -        | 40.38%      | 2445.77        | 2134.68                         | 2134.68        | -        | 40.38%         |
| <b>Total</b>   | <b>5505.00</b>              | <b>5505.00</b> | <b>-</b> | <b>100%</b> | <b>5504.55</b> | <b>5168.11</b>                  | <b>5168.11</b> | <b>-</b> | <b>100.00%</b> |

**D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT :**

| Objectives as per PP                                                                                                                                             | Actual achievement                                                                                                                                                                                                         | Reasons for shortfall, if any |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| (a) To protect Sonahat Bridge and Bhurungamari-Madarganj road and all immovable public and private properties situated in the project area .                     | (a) After completion of the project, River Bank erosion at the Sonahat bridge and Bhurungamari-Madarganj road and adjacent area in Kurigram and Lalmonirhat district became fully protected                                | Nil                           |
| (b) To protect properties, approximate value of which Tk. 10074.00 lakh, by implementation of river bank protection work for a length of 1.30 km.                | (b) 1.3 km Bank protective work along the right bank of Dudhkumar river near Sonahat bridge protected properties covering a total value of Tk. 18616.00 Lakh.                                                              |                               |
| (c) To reduce vulnerability of river erosion by implementation of 0.685km. Bank revetment work, 1 no. Spur, 1 no Groyne along the left Bank of the Teesta River. | (c) Implementation of 0.632 Km bank revetment work, 1 no spur and 1 no T-head Groyne along the left bank of Teesta river reduced vulnerability of river erosion at Gunaigach & Bazra in Ulipur upazilla, District Kurigram |                               |

*KW*

|                                                                                                                                                                             |                                                                                                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| (d) 3000 meter embankment resectioning work along the left Bank of Teesta River at Bazra Upazilla Ulipur in Kurigram District.                                              | (d) 3000 meter embankment resectioning work along the left Bank of Teesta River protected the flood affected areas at Bazra                                                                                               |  |
| (e) Huge immovable public and private properties with estimated total worth of Tk.8542.00 lakh dispersed in the vicinity of affected area will be saved from river erosion. | (e) Implementation of 0.632 Km bank revetment work, 1 no spur and 1 no T-head Groyne along the left bank of Teesta river saved huge immovable public and private properties with estimated total worth of Tk.8542.00 lakh |  |

#### 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). |
|-------------------------------------------------------------------------------------------------------|-------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <del>BWDB's infrastructure is input, provided service / benefits to the stake holders is output</del> |       |                                              | Yet to be evaluated as the project has been just completed                                                                             |
| (a) Land protected from River erosion                                                                 | Ha    | -                                            |                                                                                                                                        |
| <del>(b) people beneficiaries</del> <i>protected homestead</i>                                        | Nos   | <i>7900 Nos</i>                              |                                                                                                                                        |
| (c) Agricultural land protected                                                                       | Ha    | <i>300 Ha</i>                                |                                                                                                                                        |
| (d) Yield of crop protected                                                                           | M.Ton | -                                            |                                                                                                                                        |

##### 02. Cost / Benefit :

| Item                                  | Estimated   | Actual                                                   |
|---------------------------------------|-------------|----------------------------------------------------------|
| (1) Benefit cost ratio of the project |             |                                                          |
| (i) Financial                         | 1.42 : 1.00 |                                                          |
| (ii) Economic                         | 1.81 : 1.00 | Will be evaluated later by concerned Directorate of BWDB |
| (2) Internal Rate of Return           |             |                                                          |
| (i) Financial                         | 20.94%      |                                                          |
| (ii) Economic                         | 26.75%      |                                                          |

##### 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                                                |
| a) Ministry /Agency:<br>i) Mr. A.N.M Rokon uddin<br>Deputy Chief,Ministry of Water Resource | 30-08-2013               | No problem was identified | Delay of work progress                           |
| ii) Mr. Kazi Obaidur Rahman<br>Joint Secretary<br>Ministry of Water Resource                | 15-04-2015               | No problem was identified | Instructed to complete the work within June/2015 |
| iii) Mr Md. Ismail Hossain<br>Director General, BWDB                                        | 05-06-2015               | No problem was identified | Instructed to increase progress                  |
| iv) Mr. Montu Kumar Bisshas<br>Joint Chief<br>Ministry of Water Resource                    | 07-09-2015               | DPP to be Recast          | Instructed to Recast DPP                         |
| v) Mr. Mantu Kumar Bisshas<br>Joint Chief<br>Ministry of Water Resource                     | 09-03-2017 to 11-03-2017 | Delay of work progress    | Instructed to Increase Progress                  |
| vi) Mr. Abdul Azim Chowdhury<br>Joint Chief<br>Planning Commission                          | 09-03-2017 to 11-03-2017 | Delay of work progress    | Instructed to Increase Progress                  |
| vii) Mr. Jane Alam<br>Deputy Chief<br>Ministry of Water Resource                            | 09-03-2017 to 11-03-2017 | Delay of work progress    | Suggested to Increase Progress                   |
| viii) Mr. Md. Foridul Islam<br>Sr. Asst. Chief<br>Planning Commission                       | 09-03-2017 to 11-03-2017 | Delay of work progress    | Suggested to Increase Progress                   |
| ix) Mr. Abu Yousuf Md. Rasel<br>Asst. Chief<br>Ministry of Water Resource                   | 09-03-2017 to 11-03-2017 | Delay of work progress    | Suggested to Increase Progress                   |

**(b) IMED :**

| Name & designation of the inspecting official | Date of Inspection       | Identified Problems    | Recommendations                  |
|-----------------------------------------------|--------------------------|------------------------|----------------------------------|
| 1                                             | 2                        | 3                      | 4                                |
| i) Md. Tanvir Akkas<br>Asst. Director         | 09-03-2017 to 11-03-2017 | Delay of work progress | Suggested to Increase Progress . |

**(c) Others: (Please specify)**


**0.2. Auditing during and after Implementation:****2.1. Internal Audit: No internal audit were 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                                   |
| 2014-2015    | 29-10-2015                         | In connection with Tender  | Reply Submitted<br>Not resolved     |

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

The project has two major components. One is Protection of Sonahat Bridge and Bhurungamari-Madarganj Road from the Erosion of Dudhkumar River, which is situated at Bhurungamari Upazilla under Kurigram District. Other is Bank Revetment work at left bank of Teesta River from Gunaigach to Bazra Senior Madrasha at Ulipur Upazilla in Kurigram District.

The backgrounds of the two components are as follows.

**Protection of Sonahat Bridge and Bhurungamari- Madarganj Road:**

The Dudhkumar River is flowing along the right bank at Bongasonahat, Bamondanga, Barobari Kaligonj and Tangonmari. The aforesaid area is badly affected by erosion during the rainy season. Moreover, the embankments of "Kurigram Irrigation & flood control Project (North Unit)" are 800.00m and 20.00m away from the Bongasonahat & Tangonmari area respectively. At Bomondanga & Barobari-Kaligonj the flood embankment has been engulfed by the river during flood 2006, 2008 & 2009. During the flood 2008 & 2009 almost 250/290 nos. houses were totally damaged.

The Government of Bangladesh was seriously concerned with damaging impact of the right bank erosion of the right bank of Dudhkumar River under Kurigram District.

A Technical Study was conducted by the Technical committee constituted by the BWDB. The report of the Technical Study was published on September, 2009. The Technical committee recommended constructing 2100m bank protective work along the right bank of Dudhkumar river at Bongasonahat, Bamandanga, Barobari-Kaligonj and Tangonmari.

As Sonahat Bridge and Bhurungamari-Madarganj Road at Bongosonahat area were in a great threat from the river erosion, Honorable Advisor to the Prime Minister, Establishment and Administration Affairs requested the Minister of Water Resources to take immediate necessary action for the Sonahat Bridge and Bhurungamari-Madarganj Road at Bongosonahat area from the severe erosion of Dudhkumar river. Accordingly, to protect Sonahat Bridge and Bhurungamari- Madarganj Road, protective work 1.10 km (from km. 0.000 to km.1.100) instead of 1.30km due to incorporate 1150.00m



dredging work at Bongasonahat area was proposed in the DPP as per recommendation of the Technical Committee as a part of the Technical Committee report.

In view of the above reality and on the basis of public demands, this DPP has been prepared for the protection of the sensitive eroding area.

#### **Bank Revetment work at Gunaigach to Bozra Senior Madrasha:**

The left bank erosion of the Teesta River had been taking place since long. During the Financial year 2008-09 & 2009-10, 400 meter bank revetment work was implemented along the left bank of Teesta River under "River bank protection & Development and Town protection Project (Phase-4)"

Both the completed Sub-projects have been proved effective to reduce extent of bank erosion. At present 150 ha agricultural land, 50nos. Pacca house, 150nos. Semi-pacca house, 5 nos. Bridge & culvert, 3nos. Regulator including many other valuable public and private properties became most vulnerable due to river erosion. To conduct the study for protection of Teesta left bank at this vulnerable area a Technical Committee was formed by the BWDB. The report of the Technical Committee was published on April, 2012, The Technical Committee recommended for constructing 1800m bank protective work along the left bank of Teesta river from Gunaigach to Bazra Senior Madrasha and 4.200 km Embankment re-sectioning as well. Accordingly, to protect BWDB embankment and adjacent area along with huge number of Govt. & Semi-govt. Infrastructures from Gunaigach to Bazra Senior Madrasha area 1800m protective work (Chainage from km 86.000 to km 87.200 = 1200 meter in Gunaigach Union and km 80.600 to km 80.900, km. 81.300 to km. 81.600 = 600.00 meter in Bazra Union and 3.00 km instead of 4.200 km embankment re-sectioning (from km 78.800 to km 81.800) due to incorporate 1000.00 m dredging work was proposed in this DPP as per recommendation of the Technical Committee as a part of the Technical Committee report.

But Variation between DPP cost and contract price occurred due to increase in market price of the construction materials, labour cost etc. Based on this situation, a detailed discussion was made in the 1st meeting of the Steering committee of this project held on 21-07-2013 chaired by the Senior Secretary in the Ministry of Water Resources. In the meeting it was decided to review the design of dredging work at Teesta and Dudhkumar River by design expert

After field visit, Design expert opined vide memo no 01/se/Design circle-6/827 date: 13-02-2014 that dredging work in the Dudhkumar river are no longer necessary and execution of bank revetment work will earth adjacent to revetment work.

As per recommendation of Technical Committee and as per approved Design, additional 200m bank protective work needed to be incorporated in the RDPP than the approved DPP. It could be mentioned here that the additional 200m bank revetment work was included in the original DPP.

After approval of this project execution of 434 m bank revetment work at Sonahat Bridge were started at the end of 2012-13 Bhurungamari-Madarganj Road near Sonahat Bridge became at risk as the first flood 2013 of Dudhkumar river hit the area local district administration along with MoWR opined for immediate action to protect the road as because the road connects Bangasonahat land Port. As a force measure 75 kg new synthetic bags were dumped to protect the road the payment was not made which needs to be incorporated in the concern packages work as well as in the RDPP.

Besides this, in Gunaigach area including the concerned work, active morphological changes took place in last 2/3 floods after the approval of the DPP. So, for the sustainability of the work it was essential to have some technical guideline from the design office to review the design. In reviewed



design a dyke with compacted earth was provided along with the revetment work which was not incorporated in original contract and the original contracts need to be revised. It could also be mentioned that during the field visit the design expert observed the reach location at Gunaigach & Bazra location. Construction of retired embankment in that point was costly as well as required land acquisition for which they recommended resectioning of embankment from km 84.700 to km 88.700 (length 4.10km) to provide flood protection in Gunaigach & Bazra area which needed to be incorporated in the RDPP. The location of Shoal removal/dredging work in the Teesta river has been shifted (from km 85.00 to km 86.00 instead of km 86.00 to km 87.00) with design without changing the length & cross-section in the reviewed design. As such in the Gunaigach & Bazra portion of the project, the length of the re-sectioning of the embankment (village road) had to be incorporated in this RDPP.

So the reasons for DPP revision could be summarised as follows.

- \* Increase in contract price due to increase in market price of all construction materials and labour cost in the year 2012-13. As because the DPP was prepared by the rate FY2010-11.
- \* Due to morphological change in the project area according to the approved/reviewed design revetment and re-sectioning work length increased.
- \* According to the Design expert's recommendation, the dredging work in the Dudhkumar River was dropped.

#### **Reasons for 2<sup>nd</sup> Revision:**

In the monthly ADP Review Meeting held on September, 2015 at MoWR, a discussion was held on the morphological change of Teesta River at Gunaigach and Bazra area of Kurigram district due to flood/2015 which caused severe damages of ongoing works under this project and it's up & down streams. According to the decisions of ADP Review Meeting the honourable Minister for Ministry of Water Resources instructed to construct a team to visit the project area and to submit a report. Accordingly a three member's team comprising the Joint Chief, MoWR, the Chief Planning, BWDB, Dhaka & Superintending Engineer, Design Circle-VI, Dhaka visited the project area during 07.10.2015 to 09.10.2015 and submitted a report on 25.10.2015. As per approved 1<sup>st</sup> revised DPP the bank revetment work at left bank of Teesta River from km 86.000 to km 86.800 = 800 meter was more or less completed (80%) During flood of 2015 out of 800m, 115 meter at the U/S portion was washed out. Another 2(two) packages of river bank protective work (km. 80.600 to km. 80.900= 300 meter & km 86.800 to km 87.200 = 400meter), Some quantity of CC blocks have already been manufactured. According to the recommendation of the Team the ongoing bank revetment work has been stopped. Instead of bank revtment work a T-head Groyne at Gunaigach at a length of 300 meter & a Spur at Bazra at a length of 200 meter to be constructed using the CC blocks manufactured under package no Kuri-01/2013-14 & Kuri-02/2013-14. Rehabilitation of 285 meter (rest of 80% completed protective work of 800 meters) bank revetment work with U/S end termination along with a Tie Bundh behind its. Also a armouring/permanent protective work at the end of eroded embankment at km 84.700 to resist further expansion of breach of embankment. Estimated cost of T-head Groyne, Spur, Rehabilitation of protective work, Semi permanet protective work & a Tie Bundh has been enclosed in 5th meeting of steering committee of this project held on 25-10-2015 chaired by the additional secretary, Ministry of Water Resources. As per decisions of the said meeting present 2<sup>nd</sup> Revised DPP has been recast with total estimated cost of Tk. 5480.27 lakh which is 0.07% less than the approved 1<sup>st</sup> revised DPP.



A DPEC meeting was held on 10-12-2015 on the 2nd revised DPP chaired by the secretary, Ministry of Water Resources. As per decisions of the said meeting present 2nd Revised DPP was recast with total estimated cost of Tk. 5480.27 lakh which is 0.07% less than the approved 1<sup>st</sup> revised DPP.

## 1.2 Justification/Adequacy

Safety of huge immovale properties, valued taka 10074.00 lakh (at current market prise) located in the vicinity of affected area at Kurigram district was ensured against proposed investment cost of Tk.5480.27 lakh . To protect Sonahat bridge and Bhurungamari-Madargonj road which is the main road of Sonahat land port and Gunaigach and Bazra areas from the erosion of Dudhkumar and Dharla river respectively. The project was very much justified.

There was a direct relevance of the project to the objective stated above. Immediate objective of Bank protection form River bank erosion and the Altimate objective was the safety of lives & properties and its economic impacts was fulfilled for improved environmental impacts.

As for its relevance with the water sector objectives, the project was in line with the policy and macro level plan objective of GOB for poverty reduction as laid down in PRSP.

## 1.3 Objectives

- \*To protect Sonahat Bridge and Bhurungamari-Madarganj road in Bongasonahat area of Bhurungamari Upazilla and all immovable public and private properties situated in the project area , approximate value of which Tk. 10074 lakh, by implementation of river bank protection work for a length of 1.30 km.
- \* To reduce vulnerability of river erosion by implementation of 0.685 km. Bank revetment work, 1 no. Spur, 1 no Groyne along the left Bank of the Teesta River & 3000 meter embankment resectioning work along the left Bank of Teesta River at Bazra Upazilla Ulipur in Kurigram District. Huge immovable public & private properties with estimated total worth of Tk. 8542.00 lakh dispersed in the vicinity of affected area will be saved from river erosion.
- \* To solve the problems of flooding , river- bank erosion, sedimentation, flow pattern in different seasons and environmental degradation (water pollution, salinity intrusion, ecological problems, fisheries, agriculture, foresty etc.) in the project area by dredging.
- \* To reduce the extreme seismic events, human intervention and climate change on the morphological development of the river in the project area by dredging.
- \* The overall objective of the project is to provide safety of human lives, properties and infrasturctures and to maintain & improve economic activities, trade and commerce.

## 1.4 Project revision with reasons:

In the monthly ADP Review Meeting held on September , 2015 at MoWR, a discussion was held on the morphological change of Teesta River at Gunaigach and Bazra area of Kurigram district due to flood/2015 which caused severe damages of ongoing works under this project and it's up & down streams. According to the decisions of ADP Review Meeting the honourable Minister for Ministry of Water Resources instructed to construct a team to visit the project area and to submit a report . Accordingly a three member's team comprising the Joint Chief, MoWR, the Chief Planning, BWDB, Dhaka & Superintending Engineer, Design Circle-VI, Dhaka visited the project area during 07.10.2015 to 09.10.2015 and submitted a report on 25.10.2015. As per approved 1<sup>st</sup> revised DPP the bank revetment work at left bank of Teesta River from km 86.000 to km 86.800 = 800 meter was more or less completed (80%) Duing flood of 2015 out of 800m , 115 meter at the U/S portion was washed out



. Another 2(two) packages of river bank protective work (km. 80.600 to km. 80.900= 300 meter & km 86.800 to km 87.200 = 400meter), Some quantity of CC blocks have already been manufactured. According to the recommendation of the Team the ongoing bank revetment work has been stopped. Instead of bank revtment work a T-head Groyne at Gunaigach at a length of 300 meter & a Spur at Bazra at a length of 200 meter to be constructed using the CC blocks manufactured under package no Kuri-01/2013-14 & Kuri-02/2013-14. Rehabilitation of 285 meter (rest of 80% completed protective work of 800 meters) bank revetment work with U/S end termination along with a Tie Bundh behind its. Also a armouring/permanent protective work at the end of eroded embankment at km 84.700 to resist further expansion of breach of embankment. Estimated cost of T-head Groyne, Spur, Rehabilitation of protective work, Semi permanet protective work & a Tie Bundh has been enclosed in 5th meeting of steering committee of this project held on 25-10-2015 chaired by the additional secretary, Ministry of Water Resources. As per decisions of the said meeting present 2<sup>nd</sup> Revised DPP has been recast with total estimated cost of Tk. 5480.27 lakh which is 0.07% less than the approved 1<sup>st</sup> revised DPP.

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

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 of 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 bank lines.

In this context, there have been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructure, hats and bazars as well as agricultural land. The issue has been given due importance in the national planned documents for water sector and prioritized strategic locations of river banks have been stressed for phased implementation of river bank protection programme at the apex level.

In this context, present project that have been implemented last June/2017 is very much rationale. The overall objective of the project is to reduce environmental degradation and human hazards due to river erosion with ensuring safety of lives and properties around the area. Throughout the creation of bank revetment works, safety of establishment worth value of Tk 18616.00 Lakh was ensured against river erosion.

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

- ◆ **Project Identification:** Since Sonahat Bridge and Bhurungamari-Madargonj Road at Bongosonahat area at the right bank of Dudhkumar River and Gunaigach to Bazra senior Madrasa area at the left Bank of Teesta River were in a great threat from the river erosion, Honourable Adviser to the Prime Minister, Establishment and Administration Affairs requested to the Minister for Water Resources to take immediate necessary actions for the protection of Sonahat Bridge and Bhurungamari-Madargonj Road at Bongosonahat area and Gunaigach to Bazra senior Madrasa area from the severe erosion of Dudhkumar and Teesta river.
- ◆ **Project Preparation :**
- ◆ A technical committee was formed by BWDB to examine the feasibility of the project . Accordingly the technical committee visited the project area. After verification & study the technical committee recommended to implement the project. As per recommendation of the technical committee the field office prepared a DPP and submitted to concerned authority.



**Appraisal: The project was appraised by Planning Commission on 30.05.2016**

- ◆ **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 16.10.2012 & Subsequent revision was approved on 04-10-2016
- ◆ **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 stakeholder are directly taking advantages of the created facilities of the project
- 4.3 **O & M programme of the project:** Post project recurrent O &M works will be arranged from the regular O &M allocation.
- 4.4 **Impact of the project :**
  - 4.4.1 **Direct: Protection of** Sonahat Bridge and Bhurungamari- Madarganj Road & left bank of Teesta river from Gunaigach to Bazra .
  - 4.4.2 **Indirect:** Environmental enhancement from river erosion hazard.  
Sustainable socio-economic enhancement
- 4.5 **Transfer of Technology and Institutional Building through the project :** Not applicable
- 4.6 **Employment generation through the project:** Employment generation for skilled/unskilled during construction period about 11.00 lakh man days.
- 4.7 **Possibility of Self employment :** There are possibilities of self employment as existing commercial and business centers are protected from river bank erosion.
- 4.8 **Possibility of women-employment opportunity:** Yes, there is possibility of woman employment opportunity.
- 4.9 **Women's participation in development:** yes.
- 4.10 **Probable Impact on Socio-Economic activity:** Protecting the river bank erosion. Various infrastructures are saved from the erosion . The impact of socio-economic balance in the locality.
- 4.11 **Impact on environment :** Environmental enhancement is achieved through the implementation of the project. Bank erosion hazards of environment is eradicated.
- 4.12 **Sustainability of the project:** The project is sustainable but requires periodic maintenance.

- 4.13 Contribution to poverty alleviation/reduction:** The project fulfilled following benefits in compatible strategic goal i. e. a) reduction of vulnerability to water related disaster, b) manage erosion of major river and protect large and small towns of poverty alleviation as per PRS.

- 1) The project ensures immovable property of total worth of taka 18616.00 lakh.
- 2) It generated employment for skilled/unskilled during construction period and also in annual O&M phase in project performance. Also better employment access in business territory sectors is enhanced.
- 3) Natural security against river Bank erosion is resorted

**Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc:** Positive remarks regarding the project.

- 4.14 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities:** Not applicable.

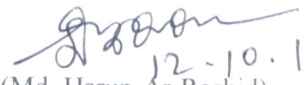
**5. Problems encountered during Implementation (with duration & steps taken to remove those)**

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| 5.1 Project Management                          | 5.12 Time & Cost Over-run           |
| 5.2 Project Director                            | 5.13 Project Supervision/Inspection |
| 5.3 Land Acquisition                            | 5.14 Delay in Decision              |
| 5.4 Procurement                                 | 5.15 Transport                      |
| 5.5 Consultancy                                 | 5.16 Training                       |
| 5.6 Contractor                                  | 5.17 Approval                       |
| 5.7 Manpower                                    | 5.18 Others.                        |
| 5.8 law & Order                                 |                                     |
| 5.9 Natural calamity                            |                                     |
| 5.10 Project financing, allocation and release. |                                     |
| 5.11 Design formulation/approval                |                                     |

No such problems were encountered during implementation of the project regarding the above facts.

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

In this project, 1.93 km Bank protection work (1.3 km along the right bank of Dudhkumar river near Sonahat Bridge, 0.632 km along the left bank of Teesta river at Gunaigach and Bazra), a T-head Groyne at Gunaigach and a Spur at Bazra was constructed. All the items, Revetment works, T-head Groyne and Spur are functioning well as planned to protect the Sonahat bridge and Bhurungamari-Madargonj road from the erosion of Dudhkumar river and Gunaigach to Bazra senior Madrasha from the erosion of Teesta river. It is protecting the immovable properties of the project area (As estimated in the RDPP). Moreover, the river flow has been diverted from the bank and reclaimed huge land after construction of T-head Groyne and Spur. As such the safety of flood control embankment, human livelihood and properties have been increased. Proper monitoring and regular maintenance of the bank revetment works will be continued to ensure the sustainability of the project. Otherwise, the benefits of the project might be hampered.

  
 12-10-17  
 (Md. Harun-Ar-Rashid)  
 Superintending Engineer  
 Rangpur O&M Circle-I  
 BWDB, Rangpur

Date : 12.10.17

\_\_\_\_\_  
Signature and seal of the Project Director/Manager

## 7. Remarks/Comments of Agency Head

This project has protected Sonahat Bridge and Bhurungamari - Madangan Road from the erosion of Dudhkumar river at Bhurungamari upazila. Implemented revetment works, spur and groyne have reduced river erosion vulnerability at the left Bank of Teesta river from Gunaigach to Barza Senior Madrasa at Ulipur upazila. 300 Ha of agricultural land have been protected through this project as well as approximately 7900 Nos homesteads / house. Nearly 186.16 Crore Taka worth properties have been saved through this project. Objective wise, it is a Successful project.

Date : .....

Signature and Seal

  
22/01/2019

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

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

Date :

Signature and Seal