

1. ଲେଖକଙ୍କ ନାମ, ଠିକଣା, ଶାସନାବଳୀ
 ଲେଖକଙ୍କ ନାମ : ଶ୍ରୀ ଶ୍ରୀ
 ଠିକଣା : ଲେଖକଙ୍କ ନାମ ଲେଖକଙ୍କ ନାମ
 (ଲେଖକଙ୍କ ନାମ)

25.11.21

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DATA CHECKLIST FOR THE DESIGN OF DRAINAGE SLUICE/ REGULATOR/WATER RETENTION STRUCTURE

While submitting proposal for the design of Sluice, Regulator or Water Control Structure, this Data Checklist shall be filled up and sent to the design office along with other requisites mentioned herein.

- A Name of the Project : Rehabilitation of polder 15 at sathkhira district
Name of the Structure : Construction of Regulator 2 vent at Gabura km 20.830 over Gabura khal in polder no-15 under "Rehabilitation of polder 15 at sathkhira district" project under sathkhira O&M Division-1, BWDB, Sathkhira.
- C Project Area
Gross : 5500 Ha
Net : 3441 Ha
- D Catchments Area above the Structure
: 650.00 Ha

1. PURPOSE OF THE STRUCTURE

Identify the purpose(s) that has to be served by the structure and put tick mark accordingly :

1.1	Pre-monsoon Drainage	:	✓
1.2	Monsoon Drainage	:	✓
1.3	Post monsoon Drainage	:	✓
1.4	Prevention of pre-monsoon flood	:	✓
1.5	Prevention of flood	:	✓
1.6	Flushing of irrigation water	:	✓
1.7	Retention of post monsoon water for irrigation	:	

2. MAPS

- 2.1 Project Index Map : Attached
- 2.2 Basin Map : Attached
- 2.3 Site Plan : Attached

3. HYDROLOGICAL DATA

3.1 Rainfall Data :

3.1.1 Is there any rainfall station within the catchments area? If so, specify the name(s) and length of records available :

Yes ☐

No ☒

Station No.	Name of Station	Length of records available	Remarks

3.1.2 Specify the name and length of records of the rainfall station close to the catchments of the proposed structure :

Station No.	Name of Station	Length of records available	Remarks
CL 506	Koikhali	1989-2017	
CL 515	Paikgacha	1989-2017	

3.2.1 Is there any water level station on the outfall river at or near the structure site? If so, mention the name of the station(s) :

Yes ☒ No ☐

3.2.2 Specify the name of at least one station U/S and one station D/S of the structure site with distance :

Station No.	Name of Station	Length of records available	Distance (u/s or d/s) from structure	Remarks
SW 26	Pratobnagar	1990-2020	23.00 Km (U/S)	
SW 165	Kobadakh Forest Office	1990-2020	13.00 Km (D/S)	

U/S Station : Pratobnagar
 U/S distance : 23.00 km
 D/S Station : Kobadakh Forest Office
 D/S distance : 13.00 Km

3.2.3 Is there any water level station on the drainage channel corresponding the proposed structure? If so, specify the name.

Yes ☐ No ☒

3.2.4 Mention the highest flood level (H.F.L) ever experienced in the basin indicating the source of the record
 H.F.L (ever experienced) = 3.95 m(PWD) from gauge level at 4.00m(PWD) 2013 station/
 From average public information.

3.3 Discharge Data :

3.3.1 Is there any record of discharge in the drainage channel? If so, enclose the data as available:

4. MORPHOLOGICAL DATA

Enclose discharge data for the year of at station
Yes ☐ No ☒

4.1 (a) Are the banks of the out fall river and drainage channel at or near the structure site stable?

Yes ☒ No ☐

(b) If not, show the movement of the bank in each year in a map.
Enclosed ...Not applicable...No. of Map.

(c) What is the average rate of erosion in each year?
Average rate of erosion ..0.00.. m /year (approx.).

4.2 Cross-section of the drainage channel for at least 0.708 km u/s and 0.000 km d/s of the structure site at an interval of 150 m.

Enclosed 06 (Six) No(s) of cross section.

4.3 Long section of the drainage channel for at least 0.000 Km u/s from the structure site and up to the outfall river in the d/s (Not Applicable)

4.4 Cross-section of the outfall river from length of 100m u/s and 100m d/s from the confluence point of drainage channel and the outfall river.

Enclosed 02 (two) No(s) of cross section.

5. MISCELLANEOUS DATA

5.1 Data related with Embankment / Road connecting the structure

5.1.1 Existing or proposed road / embankment profile for at least 150m on each side of the proposed structure :

Proposed Embankment new Design

5.1.2 Existing or proposed top elevation, top width and side slopes of embankment / road at the structure site :

i) Top Elevation : 6.00
ii) Top Width : 6.00
iii) C/S Slope : 1:2
iv) R/S Slope : 1:3

5.1.3 Type of expected traffic loading on road/embankment.

20 ton Loading

5.2 Data Related with Drainage Aspects :

5.2.1 Are the existing section and bed slope of the drainage channel adequate for complete or desired level or drainage?

Yes ☒ No ☐

5.2.2 If not, does the scheme include excavation of the drainage channel? If so, the design cross section and long section may be furnished as requirement indicated in Para 4.2 and 4.3

Yes ☐ No ☒

Enclosed cross sections in of the proposed drainage channel has to be prepared. Not applicable

5.2.3 (a) Is the complete drainage of the basin necessary?

Yes ☐ No ☒

(b) If not, mention the drainage level required & distance of such level from the proposed structure site.

Drainage Elevation Requirement 1.40 m(PWD)
Distance from the structure site: Approx. .1.000 Km

5.2.4 From the field condition propose the invert level of the structure which can allow desired level of drainage from field condition.

(a) Proposed invert level (-) 1.50 m(PWD)

(b) Invert level nearby existing structure(s) (-) 1.60 m(PWD)

5.2.5 From the field condition, what is the maximum level of acceptable flooding on the basin during the drainage period?

Acceptable flooding level 1.60 m(PWD).

5.2.6 Desired Post Monsoon Drainage level :

Date: October 31 Level 1.60 m(PWD)
Date: December 31 Level 1.25 m(PWD)
Date: March 31 Level 1.40 m(PWD)

5.3 Data Related with irrigation Aspects :

5.3.1 Specify the total cultivable and irrigable area within the project.

Cultivable Area 3441.00 Ha.
Irrigable Area 3441 Ha.

W

5.3.3 Proposed retention level of water in the u/s of the drainage channel of the structure for irrigation.

5.3.4 For Irrigation by Flushing of water, specify the period of such irrigation.

[illegible]