

BANGLADESH WATER DEVELOPMENT BOARD



Design Data for

Construction of Inlet & Outlet at Gagramari km 12.400 in polder no-15 under “Rehabilitation of polder 15 at satkhira district” project under satkhira O&M Division-1, BWDB, Satkhira during the year 2021-22.

NAME OF DIVISION	: SATKHIRA O&M DIVISION-1, BWDB, SATHKIRA.
NAME OF CIRCLE	: KHULNA O & M CIRCLE, BWDB, KHULNA.
NAME OF ZONE	: SOUTH-WESTERN ZONE, BWDB, KHULNA.

কারিগরী প্রতিবেদন

কাজের নাম	১০২১-২০২২ ইং অর্থ বৎসরে সাতক্ষীরা পওর বিভাগ-১, বাপাউবো, সাতক্ষীরা'র আওতাধীন পোল্ডার নং ১৫ এর গাগরামারী নামক ছানের বাঁধের কিঃমিঃ ১২.৪০০ তে ইনলেট এবং আউটলেট নির্মাণ কাজ।
প্রকল্পের নাম	"সাতক্ষীরা জেলার পোল্ডার নং-১৫ পুনর্বাসন" প্রকল্প।
কাজের প্রয়োজনীয়তা	১০২১-২০২২ ইং অর্থ বৎসরে সাতক্ষীরা পওর বিভাগ-১, বাপাউবো, সাতক্ষীরা'র আওতাধীন শ্যামনগর উপজেলার পোল্ডারটি সাতক্ষীরা জেলার শ্যামনগর উপজেলার দ্বাপ খ্যাত গাবুরা ইউনিয়নে অবস্থিত। পোল্ডারটির পূর্বে কপোতাক্ষ নদ, উত্তর, দক্ষিণ ও পশ্চিমে খোলপেটুয়া নদী দ্বারা বেষ্টিত। প্রকল্পের গ্রোস এরিয়া ৫৫০০ হেক্টের এবং নেট এরিয়া ৩৪৪১ হেক্টের। এ অঞ্চলে লবণাক্ততার অনুপ্রবেশ রোধ, কৃষি জমি সম্প্রসারণ ও লবণাক্ততার কবল হতে প্রকল্প এলাকা রক্ষাকল্পে ১৯৭০ এর দশকে উপকূলীয় বাঁধ নির্মাণের মাধ্যমে প্রকল্পটি পোল্ডারিং করা হয়। জলবায়ু পরিবর্তনের ফলে বাঢ়, জলোচ্ছাসহ সমুদ্রপৃষ্ঠের উচ্চতা উল্লেখযোগ্যভাবে বৃদ্ধি পেয়েছে। উপকূলীয় বাঁধগুলো মারাত্কভাবে ক্ষতিহস্ত হয়ে পোল্ডারিং এর কার্যকারিতা প্রায় সম্পূর্ণ বিলোপ হচ্ছে। পোল্ডারটির তিন দিক খরস্তোতা খোলপেটুয়া নদী ও কপোতাক্ষ নদ দ্বারা পরিবেষ্টিত এবং দক্ষিণ পাশে খোলপেটুয়া নদীর অপর পাশে সুন্দরবন অবস্থিত। প্রতিনিয়ত জোয়ার ভাটা, বাতাসের সৃষ্ট চেউয়ের আঘাত এবং মৌসুমি নিম্ন চাপের আঘাতে পোল্ডারটির অবকাঠামো ব্যাপক ক্ষয় ক্ষতি হয়ে থাকে। খোলপেটুয়া নদীর প্রতিনিয়ত জোয়ার ভাটার সময় বাতাসে সৃষ্ট চেউয়ের আঘাতে মাটির বাঁধ মারাত্কভাবে ক্ষতিহস্ত হয়। এছাড়া নদীর বাঁকে Scouring ও Undermining এর কারণে নদীর তীর ভঙ্গনের কবলে পড়ছে। ফলে মানুষ প্রতিনিয়ত বসত-ভিটা হারিয়ে নিঃশ্ব হয়ে পড়ছে। উক্ত অবস্থা হতে উত্তোরণের লক্ষ্যে গত ০৭-০৯-২০২১ খ্রিঃ তারিখে "সাতক্ষীরা জেলার পোল্ডার নং-১৫ পুনর্বাসন" ডিপিপিটি অনুমোদিত হয়েছে।
প্রকল্পের অঙ্গসমূহ	বাঁধ পুনর্বাসন ২৯.৫০০ কিঃমিঃ, নদী তীর সংরক্ষণমূলক কাজ ৭.৮১৯ কিঃমিঃ, বাঁধের ঢাল সংরক্ষণমূলক কাজ ২১.০৮১ কিঃমিঃ, রেগুলেট নির্মাণ ৫ টি, ইনলেট/আউটলেট স্ট্রাকচার ১১ টি ও খাল পুনঃখনন ৮ টি (২২.৫০০ কিঃমিঃ)। উক্ত প্রকল্পের আওতায় ইনলেট এবং আউটলেট নির্মাণ কাজের ডিজাইন ডাটা প্রস্তুত করা হয়েছে। ইনলেট এবং আউটলেট নির্মাণ কাজের নিমিত্তে নকশা প্রয়োজনের লক্ষ্যে নকশা উপাত্ত অন্তর্সাথে সংযোজন করা হলো।


 ২০. ১১. ২১
 (মোঃ আবুল খায়ের)
 নির্বাহী প্রকৌশলী
 সাতক্ষীরা পওর বিভাগ- ১
 বাপাউবো, সাতক্ষীরা ।

প্রতিবেদন,
 ২৫/১/২১.
 (মোঃ জাকির হোসেন)
 উপ-বিভাগীয় প্রকৌশলী
 শ্যামনগর পওর উপ-বিভাগ
 বাপাউবো, শ্যামনগর, সাতক্ষীরা।


 ২৫/১/২১
 (মোঃ সাজ্জাদুল হক)
 উপ-সহকারী প্রকৌশলী/শাখা কর্মকর্তা
 নওয়াবেঁকী পওর শাখা
 বাপাউবো, শ্যামনগর।

Annexure – A

DATA CHECKLIST FOR THE DESIGN OF DRAINAGE INLET & OUTLET 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 satkhira district” project under satkhira O&M Division-1, BWDB, Satkhira.

B Name of the Structure : Construction of Inlet & Outlet at Gagramari km 12.400 in polder no-15 under “Rehabilitation of polder 15 at satkhira district” project under satkhira O&M Division-1, BWDB, Satkhira during the year 2021-22.

C Project Area Gross : 5500 Ha
Net : 3441 Ha

D Catchments Area above the Structure : 210 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 od the proposed structure :

Station No.	Name of Station	Length of records available	Remarks
CL- 506	Kaikhali	1989-2017	

3.2 Water Level Data :

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

Station No.	Name of Station	Length of records available	Distance (u/s or d/s) from structure	Remarks
SW 165	Kobadak Forest Office	1990-2020	4.750 Km (D/S)	

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

U/S Station : Pratobnagar

U/S distance : 16.000 km

D/S Station : Kobadak Forest Office

D/S distance : 4.750 Km

3.2.3 Is there any water level station on the drainage channel correspoding 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 4.16m(PWD) May 2021 station/
From average public information.

3.3 Discharge Data :

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

S

Yes

No

Enclose discharge data for the year of at station

4. MORPHOLOGICAL DATA

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 No. of Map.

(c) What is the average rate of erosion in each year?

Average rate of erosion m /year (approx.).

4.2 Cross-section of the drainage channel for at least 0 km u/s and 0 km d/s of the structure site at an interval of 0 m.

Enclosed 0 (Zero) No(s) of cross section.

4.3 Long section of the drainage channel for at least 0 Km u/s from the structure site and up to the outfall river in the d/s

Enclosed 0(Zero) No(s) of long section.

4.4 Cross-section of the outfall river from length of 250m u/s and 250m d/s from the confluence point of drainage channel and the outfall river.

Enclosed 03 (Three) No(s) of cross section.

5. MISCELLANEOUS DATA

5.1 Data related with Embankment / Road connecting the structure

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

New Embankment Design Data Submitted

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

- i) Top Elevation : 5.00 m
- ii) Top Width : 5.00 m
- iii) C/S Slope : 1 : 2.5
- iv) R/S Slope : 1 : 3

5.1.3 Type of expected traffic loading on road/embankment.

S

H 20 Tones 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 2 Sheet(s) & one long-section of the proposed drainage channel has to be prepared.

- 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 1.00 m(PWD)

Distance from the structure site: Approx. 0.500 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 0.20 m(PWD)

(b) Invert level nearby existing structure(s) 0 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 1.50 m(PWD)

Date: December 31 Level 1.30 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 Ha.

Irrigable Area 3441 Ha.

5.3.2 Principal crops with acreage in the basin with present and future cropping pattern.

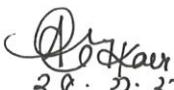
Enclosed in Shrimp farming, Fisheries & Paddy cultivation number of sheet(s)

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

Retention Level : (+) 0.80 m(PWD)

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

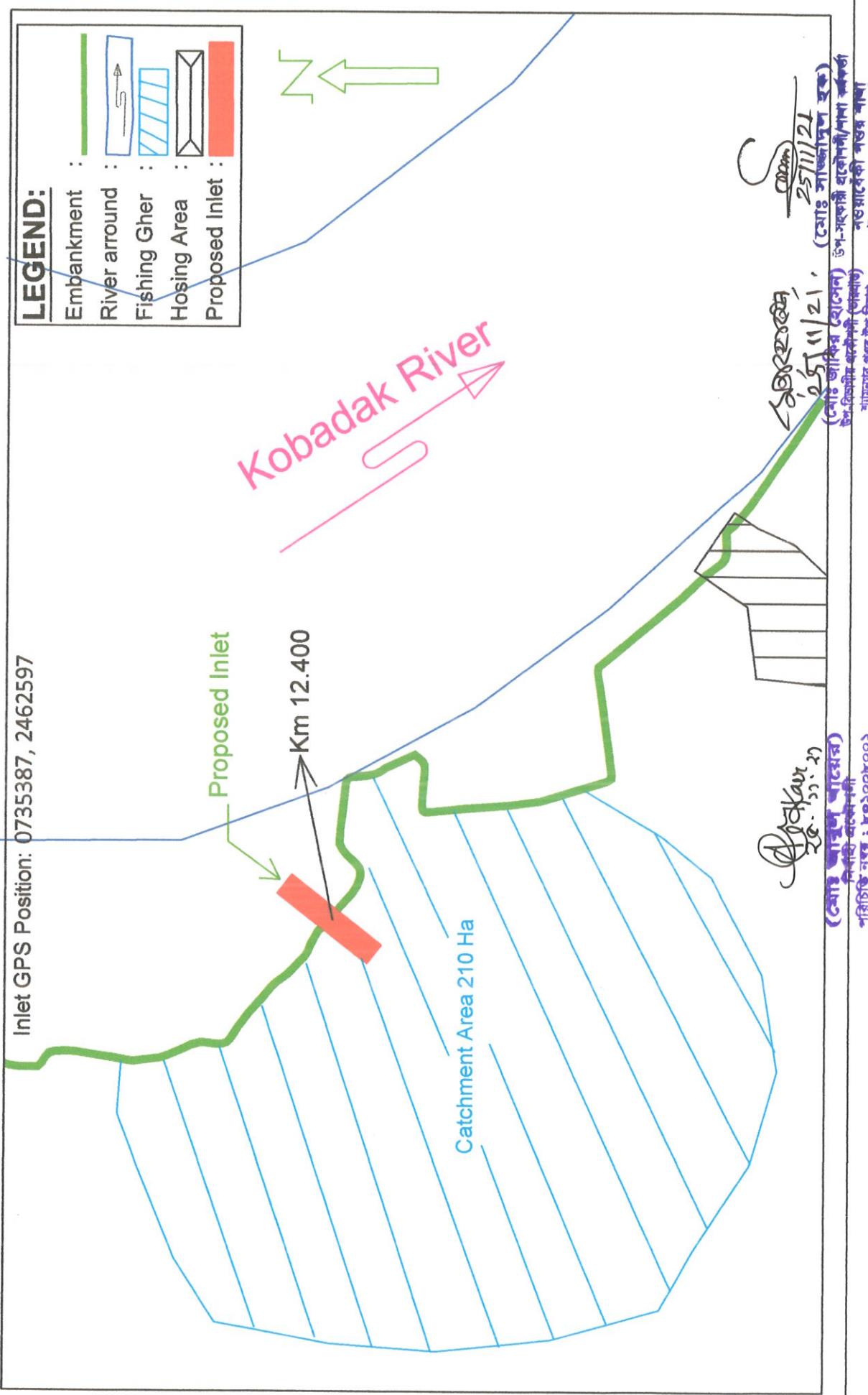
Period from December to 31st March.


২৫. ১. ২১
(মোঃ আকবর হোসেন)
নিরামী পরিষদ
পরিচিতি নম্বর : ৮০১০০৮০০১
সাতকীরা পওর বিভাগ-১
বালাইঢ়ো, সাতকীরা।

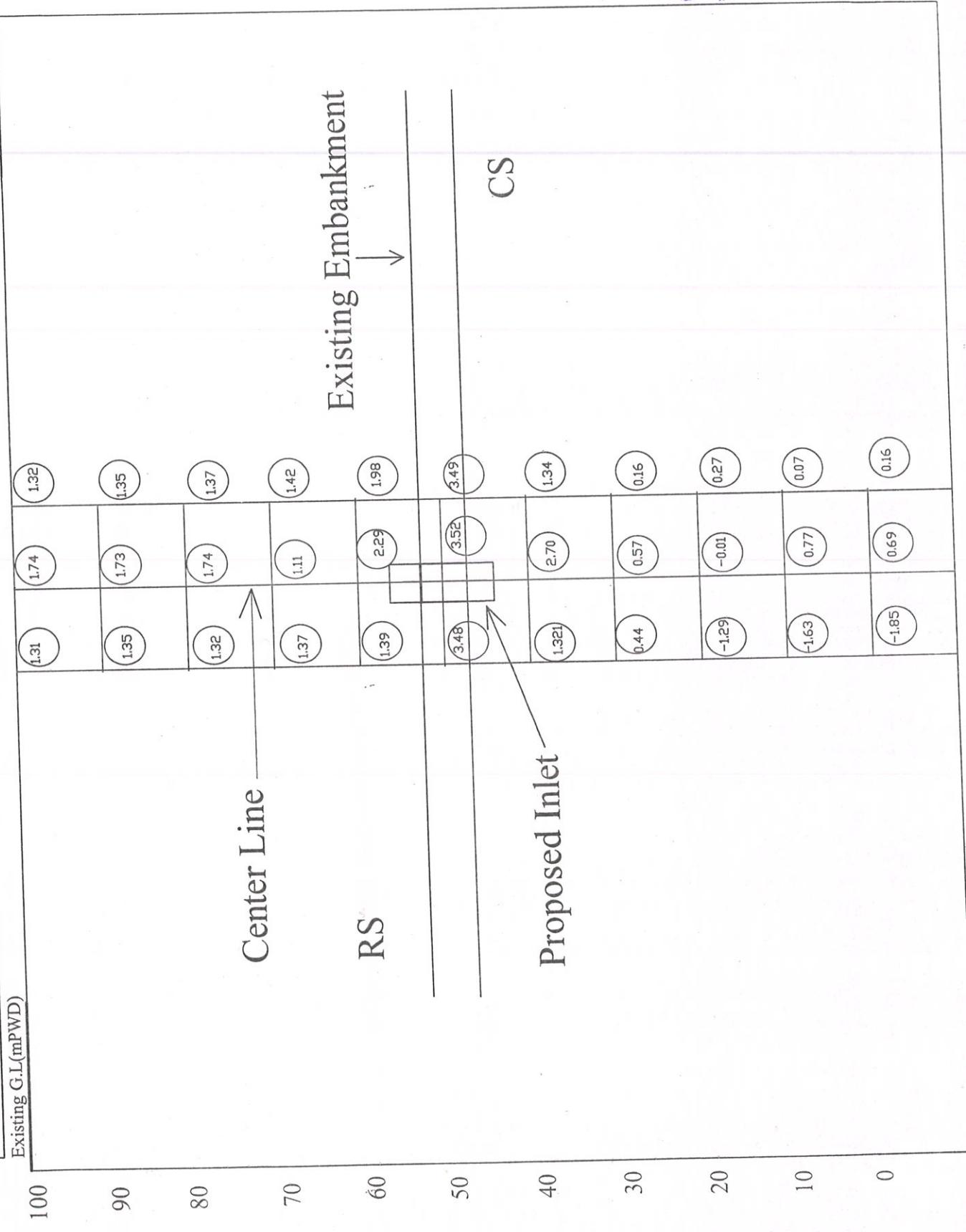

২৫/১/২১
(মোঃ সাজিদুল হক)

উপ-বিভাগীয় পরিষদ
শ্যামনগর পত্র উপ-বিভাগ
বালাইঢ়ো, শ্যামনগর, সাতকীরা।

**Site Plan For Construction of Inlet & Outlet at Gagramari km 12.400 in polder no-15 under
“Rehabilitation of polder 15 at satkhira district” project under satkhira O&M Division-1,
BWDB, Satkhira during the year 2021-22.**



Construction of Inlet & Outlet at Gagramari km 12.400 in polder no-15 under "Rehabilitation of polder 15 at satkhira district" project under satkhira O&M Division-1, BWDB, Satkhira during the year 2021-22.



Google Map For Construction of Inlet & Outlet at Gagramari km 12.400 in polder no-15 under "Rehabilitation of polder 15 at satkhira district" project under satkhira O&M Division-1, BWDB, Satkhira during the year 2021-22.



Google Earth

Imagery Date: 4/22/2019 45Q 735549.88 m E 2462546.97 m N elev 0 m eye alt 1.85 km
107 PM

25/7/21
(মোঃ সাফারুল ইস্লাম বেগবতী
উপ-সচিবকাৰী প্ৰযোগী পত্ৰ পথা
নওগাঁবেৰী পত্ৰ পথা
গাজুড়ো, নওগাঁবেৰী, গাজুড়ো)

POLDER - 15, SHYAMNAGAR, SATKHIRA



LEGEND:

- CS Chainage Line
- Khal in the Polder-15
- Drainage Sluice
- Embankment
- River around Polder-15
- Interior Road Network
- Bazar/School area

N-2467500

N-2465000

N-2462500

N-2460000

N-2457500

DS-03, Box Sluice
At Gabura.

POLDER - 14/1

Kobadak River

Kobadak River

POLDER - 13-14/1-2

Kholpatuya River

Gabura Bazar

POLDER - 7/1

Kholpatuya River

POLDER - 5

Kholpatuya River

POLDER - 15
GABURA

DS-04, Box Sluice
At Chakbara.

Dumuria Khal

Dumuria Bazar

& Boat Ghat.

Sura Khal - Dumuraisisha-1

DS-05, Box Sluice
At Dumuria.

DS-01, Box Sluice
At no. Sora.

DS-02, Box Sluice
At Chandimukha.

DS-03, Box Sluice
At Gabura.

DS-04, Box Sluice
At Chakbara.

DS-05, Box Sluice
At Dumuria.

DS-06, Box Sluice
At Sura Khal.

DS-07, Box Sluice
At Chandimukha.

DS-08, Box Sluice
At Gabura.

DS-09, Box Sluice
At Chakbara.

DS-10, Box Sluice
At Dumuria.

DS-11, Box Sluice
At Sura Khal.

DS-12, Box Sluice
At Chandimukha.

DS-13, Box Sluice
At Gabura.

DS-14, Box Sluice
At Chakbara.

DS-15, Box Sluice
At Dumuria.

DS-16, Box Sluice
At Sura Khal.

DS-17, Box Sluice
At Chandimukha.

DS-18, Box Sluice
At Gabura.

DS-19, Box Sluice
At Chakbara.

DS-20, Box Sluice
At Dumuria.

DS-21, Box Sluice
At Sura Khal.

DS-22, Box Sluice
At Chandimukha.

DS-23, Box Sluice
At Gabura.

DS-24, Box Sluice
At Chakbara.

DS-25, Box Sluice
At Dumuria.

DS-26, Box Sluice
At Sura Khal.

DS-27, Box Sluice
At Chandimukha.

DS-28, Box Sluice
At Gabura.

DS-29, Box Sluice
At Chakbara.

DS-30, Box Sluice
At Dumuria.

DS-31, Box Sluice
At Sura Khal.

DS-32, Box Sluice
At Chandimukha.

DS-33, Box Sluice
At Gabura.

DS-34, Box Sluice
At Chakbara.

DS-35, Box Sluice
At Dumuria.

DS-36, Box Sluice
At Sura Khal.

DS-37, Box Sluice
At Chandimukha.

DS-38, Box Sluice
At Gabura.

DS-39, Box Sluice
At Chakbara.

DS-40, Box Sluice
At Dumuria.

DS-41, Box Sluice
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DS-42, Box Sluice
At Chandimukha.

DS-43, Box Sluice
At Gabura.

DS-44, Box Sluice
At Chakbara.

DS-45, Box Sluice
At Dumuria.

DS-46, Box Sluice
At Sura Khal.

DS-47, Box Sluice
At Chandimukha.

DS-48, Box Sluice
At Gabura.

DS-49, Box Sluice
At Chakbara.

DS-50, Box Sluice
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DS-51, Box Sluice
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DS-52, Box Sluice
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DS-53, Box Sluice
At Gabura.

DS-54, Box Sluice
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DS-55, Box Sluice
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DS-56, Box Sluice
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DS-57, Box Sluice
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DS-58, Box Sluice
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DS-77, Box Sluice
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DS-78, Box Sluice
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DS-79, Box Sluice
At Chakbara.

DS-80, Box Sluice
At Dumuria.

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DS-82, Box Sluice
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DS-83, Box Sluice
At Gabura.

DS-84, Box Sluice
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DS-85, Box Sluice
At Dumuria.

DS-86, Box Sluice
At Sura Khal.

DS-87, Box Sluice
At Chandimukha.

DS-88, Box Sluice
At Gabura.

DS-89, Box Sluice
At Chakbara.

DS-90, Box Sluice
At Dumuria.

DS-91, Box Sluice
At Sura Khal.

DS-92, Box Sluice
At Chandimukha.

DS-93, Box Sluice
At Gabura.

DS-94, Box Sluice
At Chakbara.

DS-95, Box Sluice
At Dumuria.

DS-96, Box Sluice
At Sura Khal.

DS-97, Box Sluice
At Chandimukha.

DS-98, Box Sluice
At Gabura.

DS-99, Box Sluice
At Chakbara.

DS-100, Box Sluice
At Dumuria.

DS-101, Box Sluice
At Sura Khal.

DS-102, Box Sluice
At Chandimukha.

DS-103, Box Sluice
At Gabura.

DS-104, Box Sluice
At Chakbara.

DS-105, Box Sluice
At Dumuria.

DS-106, Box Sluice
At Sura Khal.

DS-107, Box Sluice
At Chandimukha.

DS-108, Box Sluice
At Gabura.

DS-109, Box Sluice
At Chakbara.

DS-110, Box Sluice
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DS-111, Box Sluice
At Sura Khal.

DS-112, Box Sluice
At Chandimukha.

DS-113, Box Sluice
At Gabura.

DS-114, Box Sluice
At Chakbara.

DS-115, Box Sluice
At Dumuria.

DS-116, Box Sluice
At Sura Khal.

DS-117, Box Sluice
At Chandimukha.

DS-118, Box Sluice
At Gabura.

DS-119, Box Sluice
At Chakbara.

DS-120, Box Sluice
At Dumuria.

DS-121, Box Sluice
At Sura Khal.

DS-122, Box Sluice
At Chandimukha.

DS-123, Box Sluice
At Gabura.

DS-124, Box Sluice
At Chakbara.

DS-125, Box Sluice
At Dumuria.

DS-126, Box Sluice
At Sura Khal.

DS-127, Box Sluice
At Chandimukha.

DS-128, Box Sluice
At Gabura.

DS-129, Box Sluice
At Chakbara.

DS-130, Box Sluice
At Dumuria.

DS-131, Box Sluice
At Sura Khal.

DS-132, Box Sluice
At Chandimukha.

DS-133, Box Sluice
At Gabura.

DS-134, Box Sluice
At Chakbara.

DS-135, Box Sluice
At Dumuria.

DS-136, Box Sluice
At Sura Khal.

DS-137, Box Sluice
At Chandimukha.

DS-138, Box Sluice
At Gabura.

DS-139, Box Sluice
At Chakbara.

DS-140, Box Sluice
At Dumuria.

DS-141, Box Sluice
At Sura Khal.

DS-142, Box Sluice
At Chandimukha.

DS-143, Box Sluice
At Gabura.

DS-144, Box Sluice
At Chakbara.

DS-145, Box Sluice
At Dumuria.

DS-146, Box Sluice
At Sura Khal.

DS-147, Box Sluice
At Chandimukha.

DS-148, Box Sluice
At Gabura.

DS-149, Box Sluice
At Chakbara.

DS-150, Box Sluice
At Dumuria.

DS-151, Box Sluice
At Sura Khal.

DS-152, Box Sluice
At Chandimukha.

DS-153, Box Sluice
At Gabura.

DS-154, Box Sluice
At Chakbara.

DS-155, Box Sluice
At Dumuria.

DS-156, Box Sluice
At Sura Khal.

DS-157, Box Sluice
At Chandimukha.

DS-158, Box Sluice
At Gabura.

DS-159, Box Sluice
At Chakbara.

DS-160, Box Sluice
At Dumuria.

DS-161, Box Sluice
At Sura Khal.

DS-162, Box Sluice
At Chandimukha.

DS-163, Box Sluice
At Gabura.

DS-164, Box Sluice
At Chakbara.

DS-165, Box Sluice
At Dumuria.

DS-166, Box Sluice
At Sura Khal.

DS-167, Box Sluice
At Chandimukha.

DS-168, Box Sluice
At Gabura.

DS-169, Box Sluice
At Chakbara.

DS-170, Box Sluice
At Dumuria.

DS-171, Box Sluice
At Sura Khal.

DS-172, Box Sluice
At Chandimukha.

DS-173, Box Sluice
At Gabura.

DS-174, Box Sluice
At Chakbara.

DS-175, Box Sluice
At Dumuria.

DS-176, Box Sluice
At Sura Khal.

DS-177, Box Sluice
At Chandimukha.

DS-178, Box Sluice
At Gabura.

DS-179, Box Sluice
At Chakbara.

DS-180, Box Sluice
At Dumuria.

DS-181, Box Sluice
At Sura Khal.

DS-182, Box Sluice
At Chandimukha.

DS-183, Box Sluice
At Gabura.

DS-184, Box Sluice
At Chakbara.

DS-185, Box Sluice
At Dumuria.

DS-186, Box Sluice
At Sura Khal.

DS-187, Box Sluice
At Chandimukha.

DS-188, Box Sluice
At Gabura.

DS-189, Box Sluice
At Chakbara.

DS-190, Box Sluice
At Dumuria.

DS-191, Box Sluice
At Sura Khal.

DS-192, Box Sluice
At Chandimukha.

DS-193, Box Sluice
At Gabura.

DS-194, Box Sluice
At Chakbara.

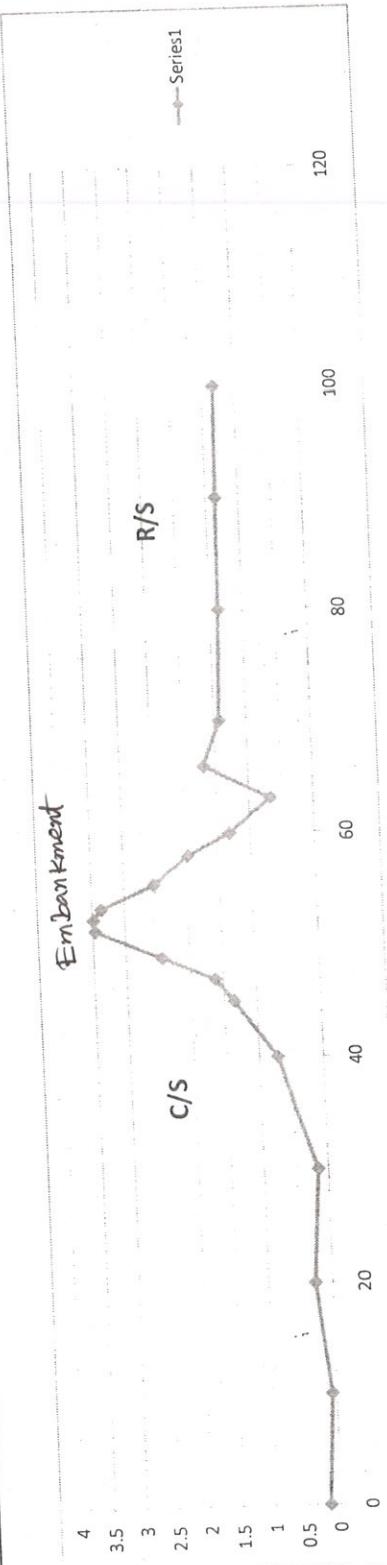
DS-195, Box Sluice
At Dumuria.

X-section for Construction of Inlet at Gagramari km 12.400 in polder no-15 under "Rehabilitation of polder 15 at satkhira district" project under satkhira O&M Division-1, BWDB,

Satkhira.

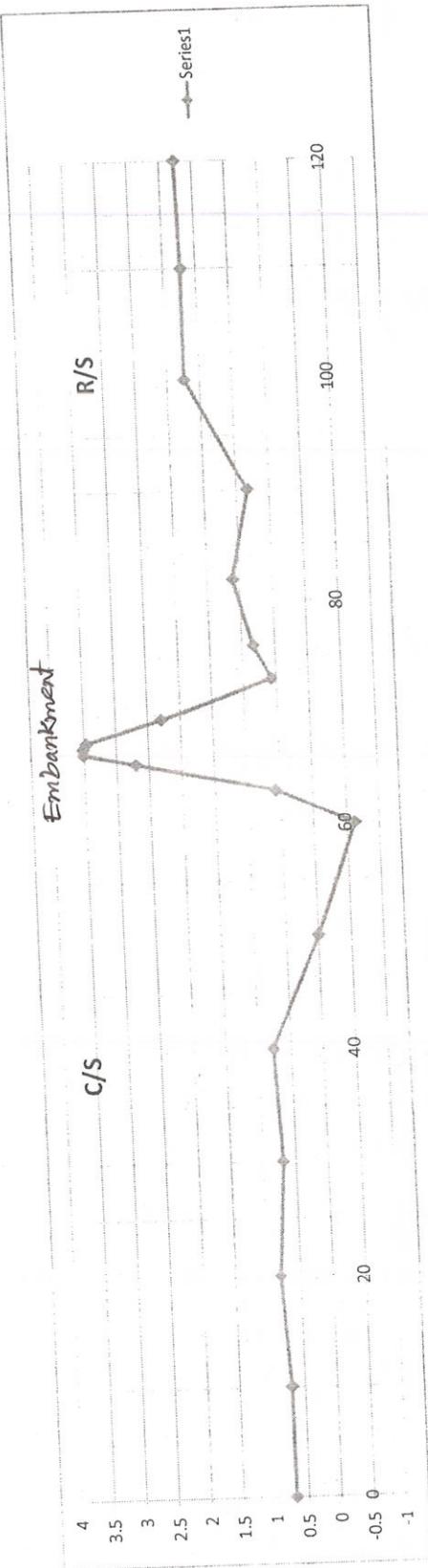
C/S at Km 12.390	
Distance	R/L
0	0.16
10	0.07

Distance	R/L
0.16	0.07

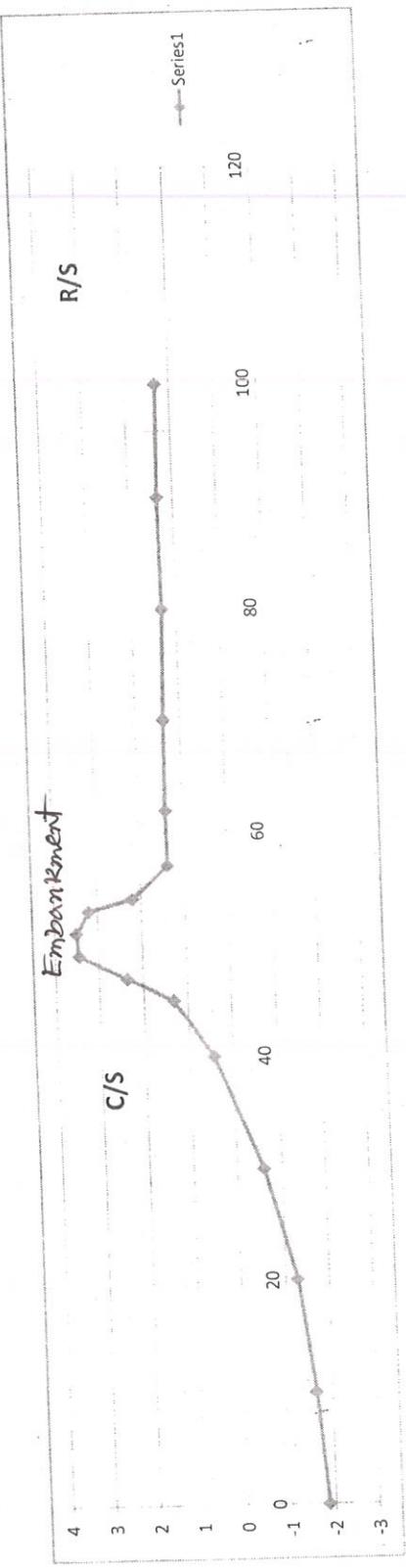


C/S at Km 12.400	
Distance	R/L
0	0.69
10	0.7

Distance	R/L
0.69	0.7



C/S at Km 12.410									
Distance	0	10	20	30	40	45	47	49	51
Existing R/L	-1.85	-1.63	-1.29	-0.6	0.44	1.32	2.36	3.45	3.48



25/11/24
(Md. Sazzadul Haque)
Sub-Assistant Engineer/SO
Nowabekti O&M Section
BWDB, Shyamnagar.

সত্খিরা
২৫/১/২৪
(Md. Zahir Hossain)
Sub-Divisional Engineer
Shyamnagar O&M Sub-Division
BWDB, Shyamnagar

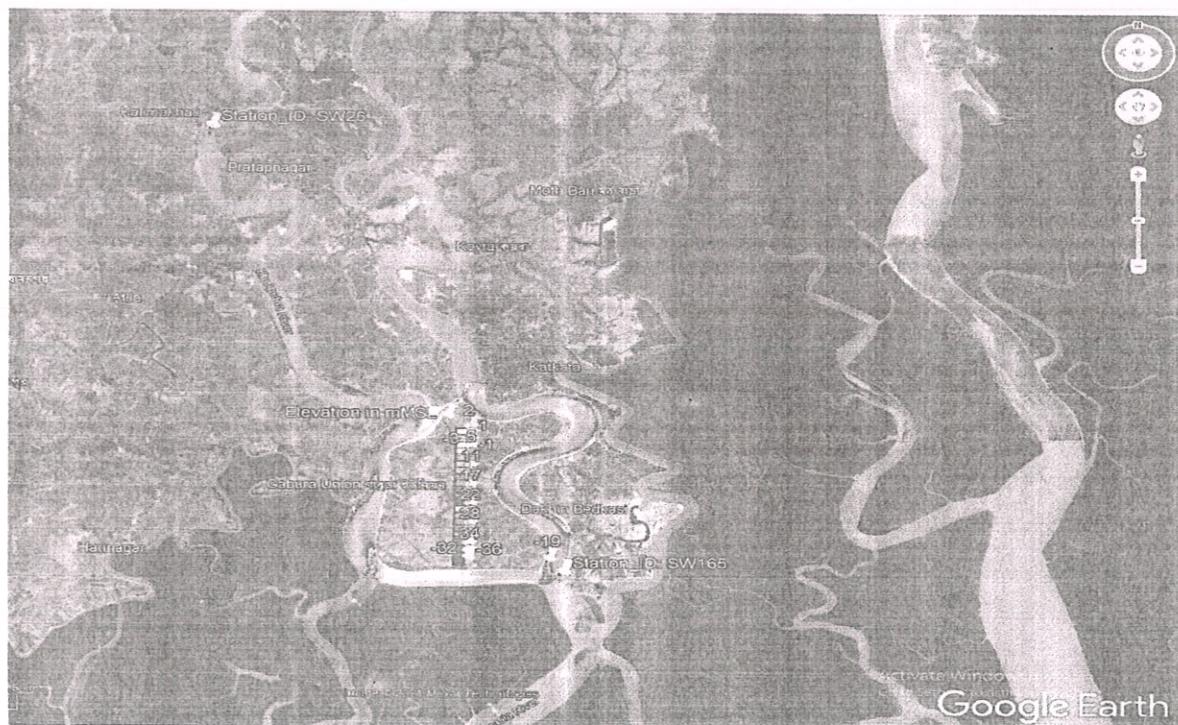
অবুল খার
২৫/১/২৪
(Md. Abul Khaer)
Executive Engineer
Satkhira O&M Division-1
BWDB, Satkhira.

RiverName	StationID	StationName	Year	MaxOfWL	MinOfWL
Betna-Kholpetua	SW26	Pratobnagar	1990	2.61	-2.46
Betna-Kholpetua	SW26	Pratobnagar	1991	2.88	-2.44
Betna-Kholpetua	SW26	Pratobnagar	1992	3.09	-1.99
Betna-Kholpetua	SW26	Pratobnagar	1993	3.10	-2.08
Betna-Kholpetua	SW26	Pratobnagar	1994	2.89	-2.18
Betna-Kholpetua	SW26	Pratobnagar	1995	3.47	-2.31
Betna-Kholpetua	SW26	Pratobnagar	1996	2.64	-2.40
Betna-Kholpetua	SW26	Pratobnagar	1997	2.92	-2.50
Betna-Kholpetua	SW26	Pratobnagar	1998	3.11	-2.59
Betna-Kholpetua	SW26	Pratobnagar	1999	2.66	-2.89
Betna-Kholpetua	SW26	Pratobnagar	2000	3.22	-2.82
Betna-Kholpetua	SW26	Pratobnagar	2001	2.97	-2.87
Betna-Kholpetua	SW26	Pratobnagar	2002	2.81	-1.77
Betna-Kholpetua	SW26	Pratobnagar	2003	2.62	-1.97
Betna-Kholpetua	SW26	Pratobnagar	2004	2.68	-1.97
Betna-Kholpetua	SW26	Pratobnagar	2008	2.75	-1.99
Betna-Kholpetua	SW26	Pratobnagar	2009	2.96	-1.61
Betna-Kholpetua	SW26	Pratobnagar	2010	3.49	-1.76
Betna-Kholpetua	SW26	Pratobnagar	2011	3.90	-1.87
Betna-Kholpetua	SW26	Pratobnagar	2012	3.76	-1.80
Betna-Kholpetua	SW26	Pratobnagar	2013	3.01	-1.72
Betna-Kholpetua	SW26	Pratobnagar	2014	2.77	-1.81
Betna-Kholpetua	SW26	Pratobnagar	2015	2.69	-1.81
Betna-Kholpetua	SW26	Pratobnagar	2016	2.96	-1.89
Betna-Kholpetua	SW26	Pratobnagar	2017	3.11	-1.85
Betna-Kholpetua	SW26	Pratobnagar	2018	3.23	-1.42
Betna-Kholpetua	SW27	Pratobnagar	2019	3.410	-1.340
Betna-Kholpetua	SW28	Pratobnagar	2020	3.490	-2.300



S
25/11/21
(মোঃ সাজ্জাদুল হক)
ডপ-সহকারী প্রতোষণী/শাখা কর্মকর্তা
নওয়াবেকী পৌর শাখা
বাপাউবো, ন্যাবদগুল, সাতকীগঠ।

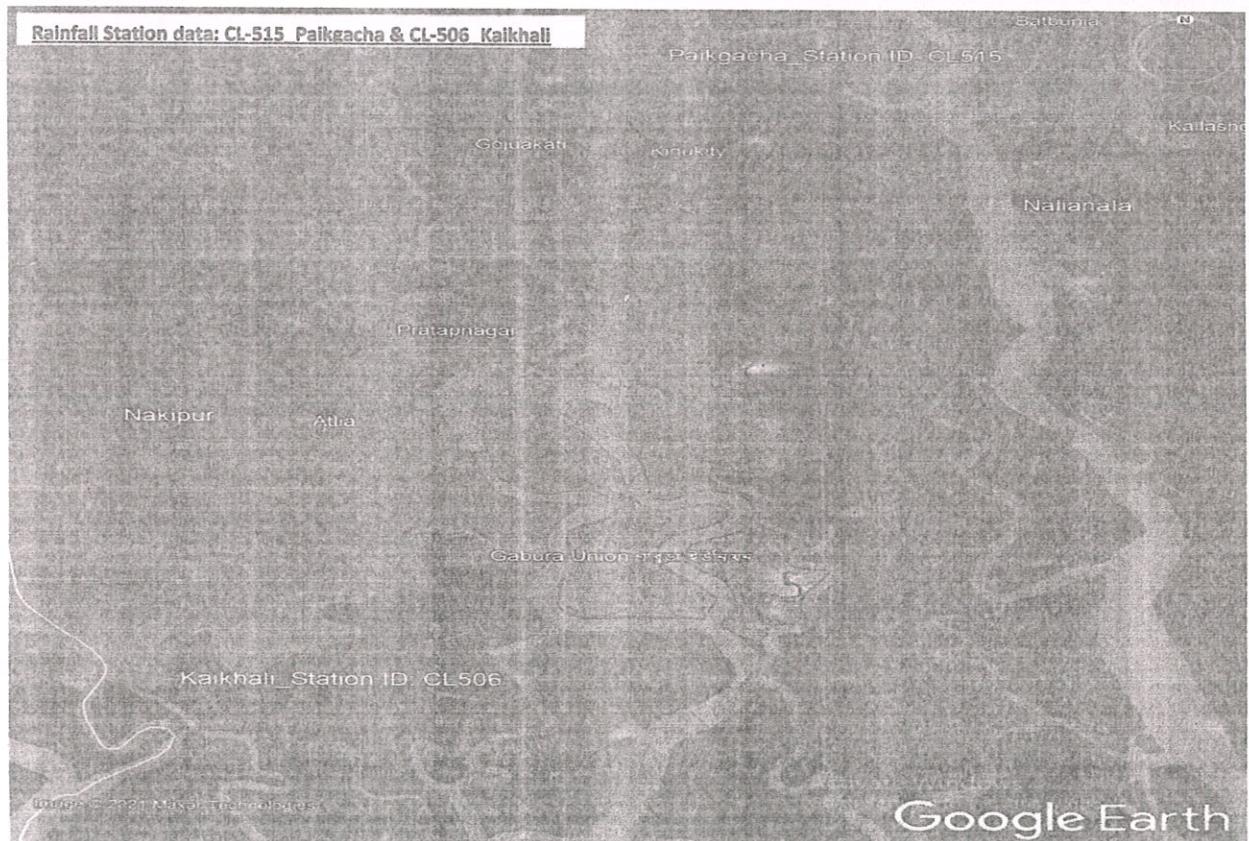
RiverName	StationID	Station	Year	MaxOfWL	MinOfWL
Kobadak	SW165	Kobadak Forest Office	1990	2.93	-1.78
Kobadak	SW165	Kobadak Forest Office	1991	2.49	-1.84
Kobadak	SW165	Kobadak Forest Office	1992	2.55	-2.25
Kobadak	SW165	Kobadak Forest Office	1993	3.00	-2.30
Kobadak	SW165	Kobadak Forest Office	1994	2.49	-2.16
Kobadak	SW165	Kobadak Forest Office	1995	2.53	-2.32
Kobadak	SW165	Kobadak Forest Office	1996	2.95	-2.45
Kobadak	SW165	Kobadak Forest Office	1997	2.65	-2.35
Kobadak	SW165	Kobadak Forest Office	1998	2.23	-2.65
Kobadak	SW165	Kobadak Forest Office	1999	2.27	-2.74
Kobadak	SW165	Kobadak Forest Office	2000	2.22	-2.44
Kobadak	SW165	Kobadak Forest Office	2001	1.85	-2.87
Kobadak	SW165	Kobadak Forest Office	2008	2.62	-2.08
Kobadak	SW165	Kobadak Forest Office	2009	3.27	-2.28
Kobadak	SW165	Kobadak Forest Office	2010	2.34	-2.58
Kobadak	SW165	Kobadak Forest Office	2011	2.63	-2.58
Kobadak	SW165	Kobadak Forest Office	2012	2.42	-2.80
Kobadak	SW165	Kobadak Forest Office	2013	4.00	-2.58
Kobadak	SW165	Kobadak Forest Office	2014	2.20	-2.57
Kobadak	SW165	Kobadak Forest Office	2015	2.26	-2.86
Kobadak	SW165	Kobadak Forest Office	2016	1.97	-2.73
Kobadak	SW166	Kobadak Forest Office	2020	3.54	-1.32

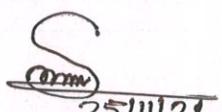


S
25/11/21
(মোঃ সাজাদুল হক)
উপ-সচিবী প্রকৌশলী/শাখা কর্মকর্তা
নওয়াবেকী পওর শাখা
পাটেবা, শ্যামলগঠ, সাতকীরা।

Yearly Rainfall Information of CL506_Kaikhali & CL515_Paikgacha nearest of Polder-15

District	StationName	StationID	Year	Rainfall (mm)	District	StationName	StationID	Year	Rainfall (mm)
Satkhira	Kaikhali	CL506	1989	1641.70	Khulna	Paikgacha	CL515	1989	1092.00
Satkhira	Kaikhali	CL506	1990	2773.30	Khulna	Paikgacha	CL515	1990	2051.10
Satkhira	Kaikhali	CL506	1991	1709.20	Khulna	Paikgacha	CL515	1991	2052.00
Satkhira	Kaikhali	CL506	1992	1990.10	Khulna	Paikgacha	CL515	1992	1294.00
Satkhira	Kaikhali	CL506	1993	1789.40	Khulna	Paikgacha	CL515	1993	1685.70
Satkhira	Kaikhali	CL506	1994	1788.00	Khulna	Paikgacha	CL515	1994	1456.60
Satkhira	Kaikhali	CL506	1995	1870.10	Khulna	Paikgacha	CL515	1995	1638.80
Satkhira	Kaikhali	CL506	1996	1245.20	Khulna	Paikgacha	CL515	1996	1631.40
Satkhira	Kaikhali	CL506	1997	1771.10	Khulna	Paikgacha	CL515	1997	2164.20
Satkhira	Kaikhali	CL506	1998	2718.10	Khulna	Paikgacha	CL515	1998	1994.10
Satkhira	Kaikhali	CL506	1999	2023.90	Khulna	Paikgacha	CL515	1999	1416.10
Satkhira	Kaikhali	CL506	2000	1648.70	Khulna	Paikgacha	CL515	2000	1690.00
Satkhira	Kaikhali	CL506	2001	1839.90	Khulna	Paikgacha	CL515	2001	1507.40
Satkhira	Kaikhali	CL506	2002	1585.50	Khulna	Paikgacha	CL515	2002	
Satkhira	Kaikhali	CL506	2003	1474.40	Khulna	Paikgacha	CL515	2003	
Satkhira	Kaikhali	CL506	2004	2239.20	Khulna	Paikgacha	CL515	2004	
Satkhira	Kaikhali	CL506	2005	2288.10	Khulna	Paikgacha	CL515	2005	
Satkhira	Kaikhali	CL506	2006	1743.50	Khulna	Paikgacha	CL515	2006	
Satkhira	Kaikhali	CL506	2007	2499.20	Khulna	Paikgacha	CL515	2007	
Satkhira	Kaikhali	CL506	2008	1635.70	Khulna	Paikgacha	CL515	2008	
Satkhira	Kaikhali	CL506	2009	1264.37	Khulna	Paikgacha	CL515	2009	1011.00
Satkhira	Kaikhali	CL506	2010	1433.50	Khulna	Paikgacha	CL515	2010	
Satkhira	Kaikhali	CL506	2011	2208.25	Khulna	Paikgacha	CL515	2011	1704.02
Satkhira	Kaikhali	CL506	2012	1557.30	Khulna	Paikgacha	CL515	2012	1069.23
Satkhira	Kaikhali	CL506	2013	1517.90	Khulna	Paikgacha	CL515	2013	1514.75
Satkhira	Kaikhali	CL506	2014	2409.80	Khulna	Paikgacha	CL515	2014	2043.60
Satkhira	Kaikhali	CL506	2015	2230.80	Khulna	Paikgacha	CL515	2015	2985.00
Satkhira	Kaikhali	CL506	2016	1868.90	Khulna	Paikgacha	CL515	2016	2721.00
Satkhira	Kaikhali	CL506	2017	2110.20	Khulna	Paikgacha	CL515	2017	2648.00




 25/11/21
 (মোঃ সাজিদুল হক)
 উপ-সহকারী ধর্মৌপদেশ/শাখা কর্মকর্তা
 নওয়াবেকী পওর শাখা
 গাপাটুরো, শ্যামলগঞ্জ, সাতক্ষীয়া।

