

## বাংলাদেশ পানি উন্নয়ন বোর্ড

Project Management Office  
Climate-Resilient Integrated Southwest  
Project for Water Resources Management  
(CRISP-WRM), BWDB, Dhaka.  
email: bwbd.pd.crisp@gmail.com



প্রকল্প ব্যবস্থাপনা দণ্ডের  
গোপালগঞ্জ জেলার টুঙ্গিপাড়া-কোটালীপাড়া উপজেলার  
জলাবদ্ধতা নিরসনে সমর্পিত পানি সম্পদ ব্যবস্থাপনা  
বাস্তবায়ন প্রকল্প, বাপাউবো, ঢাকা।

email: bwdb.pd.crisp@gmail.com

ଆରକ୍ ନେଟ୍-ପିଡ଼ି/ପିଏମଡ଼/ ୨୪୯

তারিখঃ ০৫/১২/২০২৪

বরাবর  
তাঙ্গুবধায়ক প্রকোশলনী  
মুক্তি সার্কেল - ৫  
বাংলাদেশ পানি উন্নয়ন বোর্ড  
৭২, শ্রীন রোড, পানি ভবন, ঢাকা।

## বিষয় ৪ Working Design অদান প্রসঙ্গে।

ଶ୍ରୀମତୀ ପାକେଶ୍ଵରୀ, ଗୋପାଲଗଞ୍ଜ ପାନି ଉପାଯନ ବିଭାଗ, ବାପୁଆଁବୋ, ଗୋପାଲଗଞ୍ଜ ଦସ୍ତର ଆରକ ନ୍ୟ-୪୨.୦୧.୩୫୦୦.୪୭୯.୦୩.୦୧.୨୪.୭୦୧ ;  
ଡାରିଦ୍ର୍ୟ : ୦୨୨୨୨୨୦୨୪ ହିଁ ।

উপর্যুক্ত বিধয় ও শূন্যের প্রেক্ষিতে জানানো যাচ্ছে যে “গোপালগঞ্জ জেলার টুঙ্গিপাড়া-কোটালীপাড়া উপজেলার জলাবদ্ধতা নিরসনে সমর্থিত পানি সম্পদ ব্যবহার্পনা বাস্তবায়ন প্রকল্প” শৈর্ষক প্রকল্পের আওতায় নিম্নবর্ণিত কাজগুলির Working Design প্রদানের নিমিত্ত হালনাগাদ তথ্য উপাত্ত এতদসঙ্গে সংযুক্ত করে প্রেরণ করা হলো।

ক্রমিক নং	কাজের নাম	মন্তব্য
1.	Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W “Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District)” under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.	
2.	Re-excavation of Chowdhuri Bazar-Sonatia Khal from Km. 0.000 to Km. 2.202 = 2.202 Km in Salta-Bagda Sub Project in c/w “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.	
3.	Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km. in Satla-Bagda Sub-Project in c/w “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.	

এগভাবহুল্য, তবে বর্ণিত কাজগুলির Working Design প্রদানের প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুরোধ করা হলো।

ଶର୍ଯ୍ୟକ୍ରି ଧ ନକଳୀ ଉପାତ୍ତ ୦୩(ତିଲ) ଖାନା ପ୍ରତିଟି ୦୨(ଦୁଇ) ପ୍ରସ୍ତେ ।

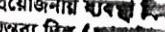
৪৭  
০৫/১২/২৮  
(মোহাম্মদ আব্দুর রবি সিদ্দিক ভূইয়া)  
প্রকল্প পরিচালক  
CRISP-WRM  
বাপাটুরো, ঢাকা।

ମାର୍କ ନଂ: ପିଡ଼ି/ପିଏମ୍ୟୁ/ ; ତାରିଖ:

অবগতিপী সদয় অবগতি/অবগতির ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্ম প্রেরণ করা হলো:

- ১। পশ্চাদপকোশলী, পশ্চিমাভজ্জল, বাপাউবো, ফরিদপুর।
  - ২। তৎপৰধায়ক প্রকোশলী ফরিদপুর পানি উন্নয়ন সার্কেল, বাপাউবো, ফরিদপুর।
  - ৩। নির্বাহী প্রকোশলী, গোপালগঞ্জ পানি উন্নয়ন বিভাগ, বাপাউবো, গোপালগঞ্জ।

୪ | ଶିଖନ କାହାରେ

ଡায়েরী নং	তারিখ	জন্ম প্রযোগ করা হওয়ার সময়সূচী
১. জন্ম প্রযোগ করা হওয়ার সময়সূচী ২. জন্ম প্রযোগ করা হওয়ার সময়সূচী ৩. জন্ম প্রযোগ করা হওয়ার সময়সূচী ৪. জন্ম প্রযোগ করা হওয়ার সময়সূচী ৫. জন্ম প্রযোগ করা হওয়ার সময়সূচী ৬. উপ-সহকারী প্রকৌশলী ৭. উপ-সহকারী প্রকৌশলী / ডিইও / উৎ ইঞ্চি সহকারী	১-১-২০২৪ জন্ম প্রযোগ করা হওয়ার সময়সূচী মন্তব্য দিব / মন্তব্য দিব নথিভৃত করুন 	

প্রকল্প পরিচালক  
CRISP-WRM  
বাপাউবো, ঢাকা।

① \$ PD.CRISP-WRM memo: PD/Pmo/1246, dt:05.12.24



## BANGLADESH WATER DEVELOPMENT BOARD

### Design Data

### For

Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W “Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.

**Name of Sub-Division : Tungipara WD Sub-Division, BWDB, Gopalganj.**

**Name of Division : Gopalganj WD Division, BWDB, Gopalganj.**

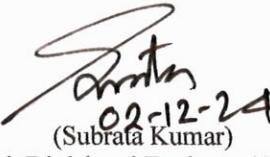
**Name of Circle : Faridpur WD Circle, BWDB, Faridpur.**

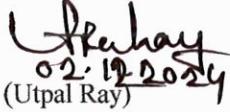
**Name of Zone : Western Zone, BWDB, Faridpur.**

## কারিগরী প্রতিবেদন

১. কাজের নাম ৪- Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W “Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.
২. প্রকল্পের নাম ৪- “ Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District ”।
৩. কাজের অবস্থান ৪- গোপালগঞ্জ জেলাধীন কোটালীপাড়া ও টুঙ্গিপাড়া উপজেলা।
৪. কাজের প্রয়োজনীয়তা ৪- গোপালগঞ্জ জেলার টুঙ্গিপাড়া উপজেলা ও কোটালিপাড়া উপজেলা জলাবদ্ধতা ও বন্যা কর্বলিত নিম্নাঞ্চল। জলবায়ু পরিবর্তন ও ঘন ঘন প্রাকৃতিক দুর্যোগ/সূর্ণিবাড় (ইয়াস/ আশ্ফান/আইলা/সিডর) এর কারনে উপজেলার অভ্যন্তরে স্বাভাবিক বৈশিষ্ট্যের পরিবর্তন হয়েছে। এলাকাটি নিম্নাঞ্চল হওয়ায় জোয়ার-ভাটায় বিপুল পরিমাণ পলি অবক্ষেপিত হয়ে নিষ্কাশন খাল অনেকাংশে ভরাট হয়ে গেছে। ফলে শুক মৌসুমে খালে পানির অভাবে কৃষি জমিতে সেচ কার্যক্রম ব্যাহত হচ্ছে। খালগুলোর তলদেশ পলি পড়ে ভরাট হওয়ায় খালগুলোর অনেকাংশে শুক মৌসুমে পানির প্রবাহ থাকে না। খালের পানি নিষ্কাশন না হওয়ায় খালের পাশ্ববর্তী ফসলি জমি ধান উৎপাদনের মৌসুমেও জলাময় থাকে ফলে খালের পার্শ্ব আবাদী জমি সারাবছর অনাবাদী থেকে যায়। খালগুলো পুনঃখনন করা হলে সেচ কাজের জন্য পানি সংরক্ষণ করা যাবে এবং ধান উৎপাদনের মৌসুমেও দ্রুত পানি নিষ্কাশিত হবে। উল্লেখিত খালটি দীর্ঘদিন পুরঃখনন না করার ফলে পলি পড়ে ভরাট হয়ে যাওয়ায় সেচ কার্যক্রম বাধ্যত্ব হওয়া সহ বর্ষ মৌসুমে জলাবদ্ধতা সৃষ্টি হচ্ছে। স্থানীয় জনগন ও জনপ্রতিনিধীদের চাহিদার প্রেক্ষিতে উপরে বর্ণিত সমস্যার সমাধান কল্পে উক্ত প্রকল্পের আওতায় বর্ণিত খালটি পুনঃখনন কাজ বাস্তবায়নের জন্য নকশা প্রনয়নের নিমিত্তে প্রয়োজনীয় তথ্য উপাত্ত অস্ত্রসাথ সন্নিবেশন করা হলো।
৫. প্রয়োজনীয় তথ্যাদি ৪- বর্ণিত স্থানের প্রয়োজনীয় খালের Cross Section, Long Section, Index Map, Out-fall Height & Lowest Water Level, Data Check List, Rain Fall Data List & Polder Map ইত্যাদি যথাযথভাবে প্রক্রিয়াকরণ পূর্বক ডিজাইন প্রণয়নের লক্ষ্যে এতদসঙ্গে প্রেরণ করা হলো।
৬. কাজ বাস্তবায়নের খাত ৪- উক্ত কাজের ব্যয় “গোপালগঞ্জ জেলার টুঙ্গিপাড়া-কোটালীপাড়া উপজেলার জলাবদ্ধতা নিরসনে সমন্বিত পানি সম্পদ ব্যবস্থাপনা বাস্তবায়ন প্রকল্প” শীর্ষক প্রকল্প হতে নির্বাহ করা হবে।

  
(S M Refat Jamil )  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

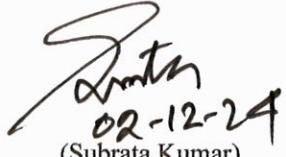
  
02-12-24  
(Subrata Kumar)  
Sub Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Tungipara , Gopalganj.

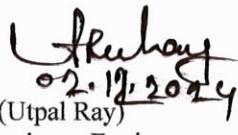
  
02.12.2024  
(Utpal Ray)  
Sub-Assistant Engineer  
Kotalipara WD Section  
BWDB,Tungipara, Gopalganj

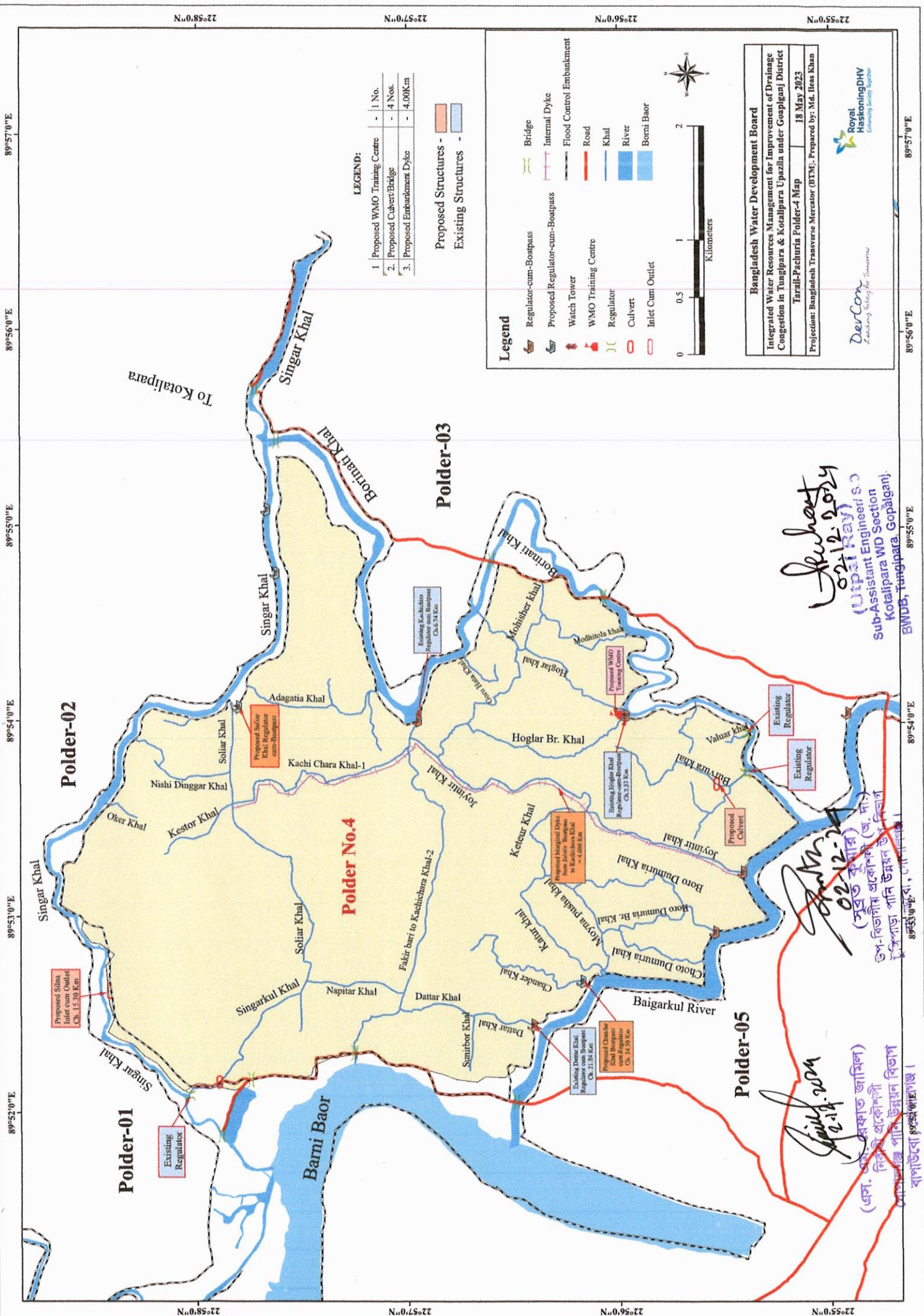
## Data Check List

1.	Name of the Project	:	Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W "Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District)" under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.
2.	Name of the proposed khal	:	Fokirbari to Kachichara Khal-2
3.	Length of the proposed khal	:	From KM 0.000 to km 3.500 = 3.805 KM.
4.	Location of the proposed khal.	:	Upazila-Tungipara, District- Gopalganj.
5.	Name of the off-Take	:	Borinati Khal
6.	Name of the out fall	:	Borni Baor
7.	Cross section of khal	:	Enclosed.
8.	Long section of khal	:	Enclosed.
9.	Site plan of the proposed khal (Showing drainage network)	:	Enclosed.
10.	Index map	:	Enclosed.
11.	L W L of the out fall. Bed level of the out fall	:	(+) 5.50 m PWD (-) 7.355 m PWD (at present).
12.	L W L of the Off-Take Bed level of the off-take	:	(+) 0.65 m PWD (-) 7.20 m PWD (at present).
13.	X-Section of the out fall	:	Enclosed.
14.	Bank line demarcation	:	Bank line of the proposed khal shown in the x-section of the proposed khal which will not be extended because besides the bank line area is public land.
15.	Catchments area of the proposed khal	:	380.00 hectare. (Approximately).
16.	a) Water level data for last 20 years of nearby gauge station b) No of gauge station c) Name of the river d) Name of gauge station	:	Enclosed. SW -198. Madaripur Beel Route (MBR) Channel Haridaspur. :
17.	a) Rainfall data for last 20 years. b) Station ID c) Station name d) District	:	Enclosed. CL- 409 Haridaspur. Gopalganj.
18.	Structural information :- a) Sluice gate (if any)  b) Bridge/Culvert (if any)	:	a) Existing RCC Bridge Size : (33.00 m x 5.21 m) Opening Location: Ch. Km 0+150 km  b) Kachichara Khal Regulator Cum Boatpass Size: (3.0 m x 1.80 m) Location: Ch. 3+646 Km Sill Level :(-)1.286 m PWD Apron Level : (-) 1.517 m PWD (R/S) Apron Level : (-) 1.375 m PWD (C/S)
19.	Depth of water have to be maintain during dry season in the Khal	:	1.00 m (Minimum)
20.	Proposed bed width of the khal	:	3.00 m avg.
21.	Proposed bed level of the khal	:	(-) 1.20 m
22.	Proposed side slope of the khal	:	1:1.5

  
 (S M Refat Jamil )  
 Executive Engineer  
 Gopalganj WD Division  
 BWDB, Gopalganj.

  
 (Subrata Kumar)  
 Sub Divisional Engineer (A.C)  
 Tungipara WD Sub-Division  
 BWDB, Tungipara , Gopalganj.

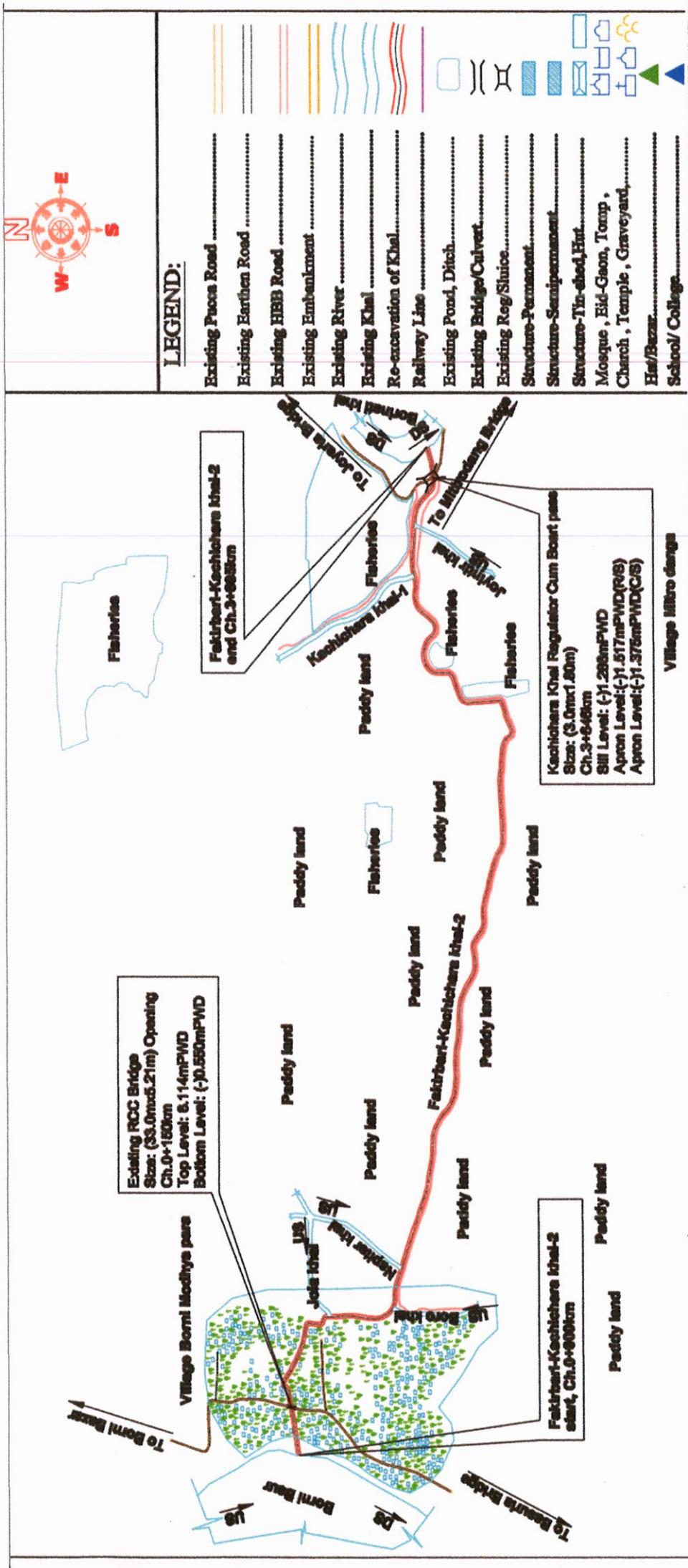
  
 (Utpal Ray)  
 Sub-Assistant Engineer  
 Kotalipara WD Section  
 BWDB,Tungipara, Gopalganj



Site Plan  
For

For

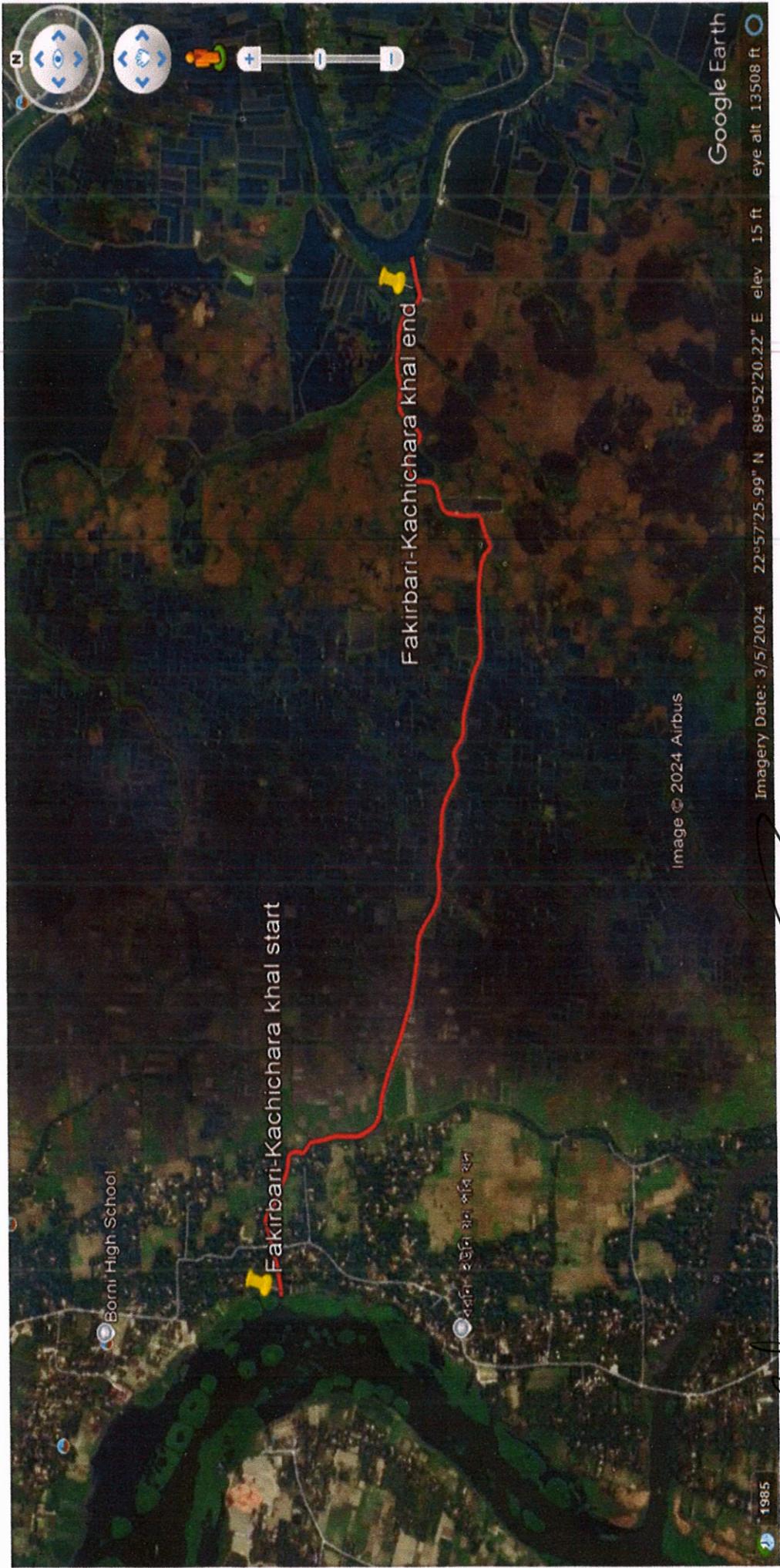
**Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W “Implementation of Integrated Water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.**



## Google Map

For

Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W "Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District)" under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.



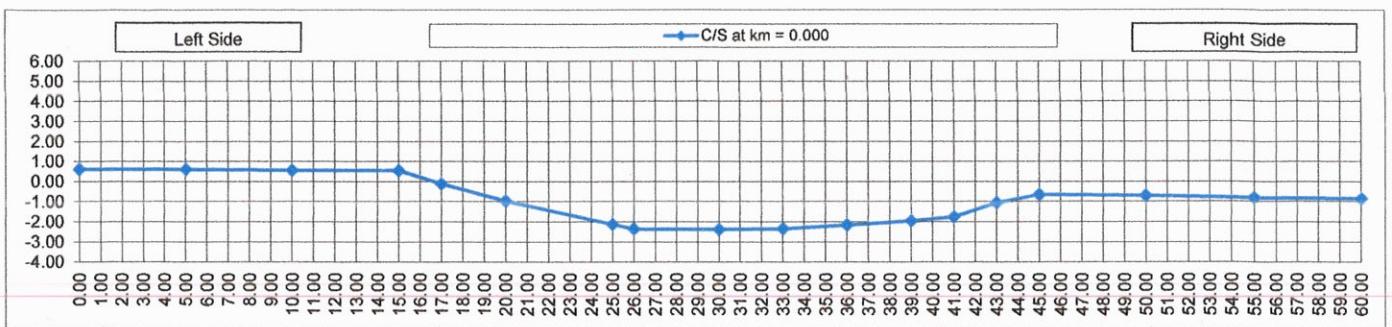
Subhanto  
02-12-2024  
(Upal Ray)

Sub-Assistant Engineer  
Kotalipara WD Section  
BWDB, Tungipara, Gopalganj.

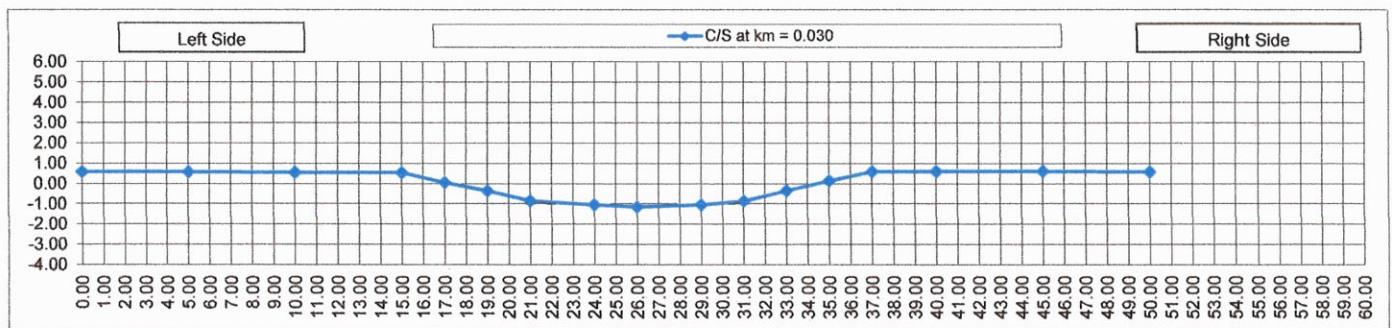
Subrata  
02-12-24  
(Subrata Kumar)  
Sub-Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Tungipara, Gopalganj.

Refaat  
02-12-24  
(S. M. Refaat Jamil)  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

Cross Section for Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W "Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District" under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.

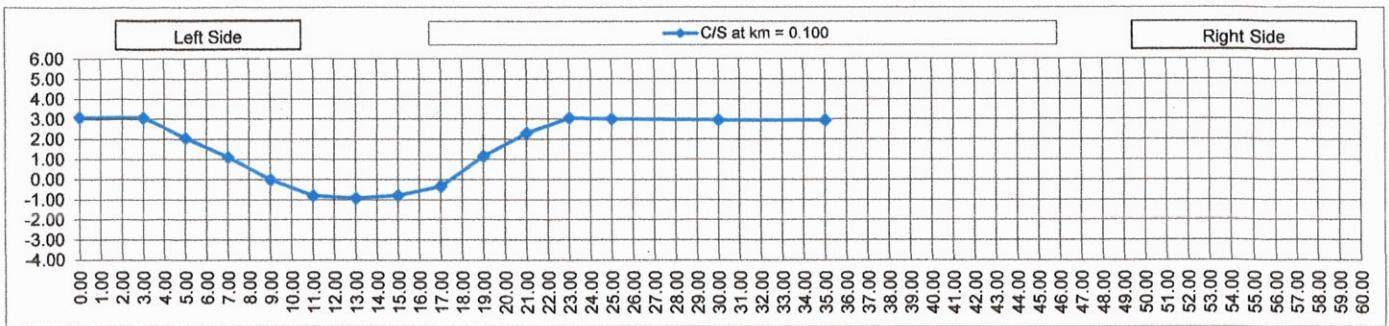


Remark	R/L	Distance
Khal bank	0.625	0.00
	0.614	5.00
	0.574	10.00
LB	0.565	15.00
	-0.097	17.00
	-0.944	20.00
	-2.117	25.00
	-2.342	26.00
CL	-2.362	30.00
	-2.334	33.00
	-2.142	36.00
	-1.936	39.00
	-1.737	41.00
	-1.036	43.00
RB	-0.637	45.00
	-0.685	50.00
	-0.792	55.00
Baor	-0.836	60.00



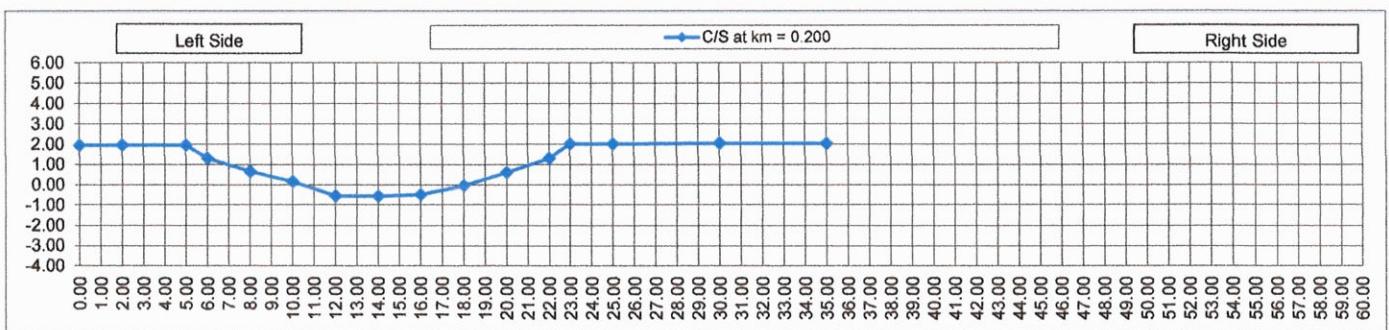
Remark	R/L	Distance
Char	0.588	0.00
	0.585	5.00
	0.560	10.00
LB	0.555	15.00
	0.063	17.00
	-0.344	19.00
	-0.837	21.00
	-1.032	24.00
CL	-1.137	26.00
	-1.036	29.00
	-0.842	31.00
	-0.340	33.00
	0.163	35.00
RB	0.605	37.00
	0.614	40.00
	0.625	45.00
Char	0.588	50.00

*A* *G*



C/S at km = 0.100

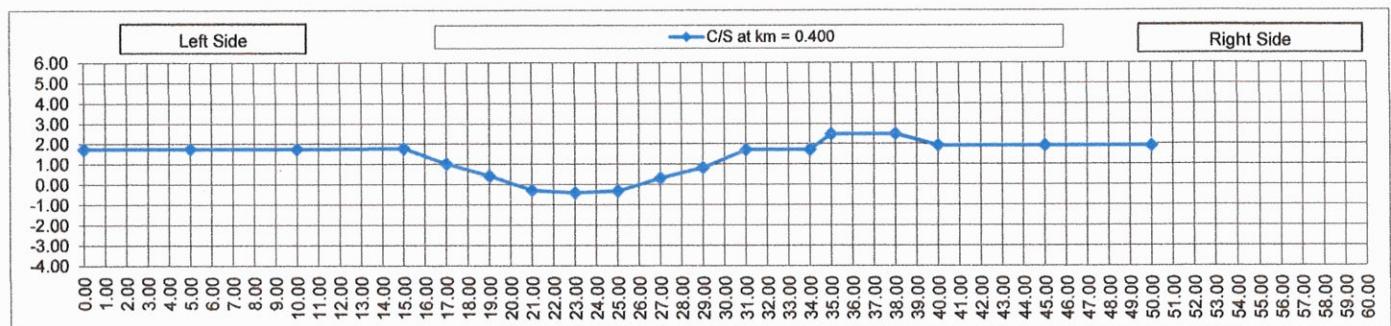
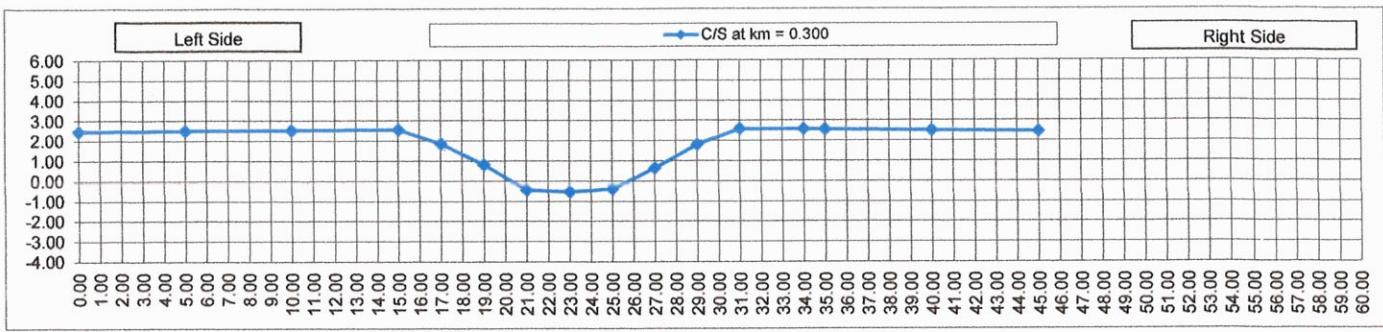
Remark	R/L	Distance
House	3.095	0.00
LB	3.090	1.00
	2.072	2.00
	1.117	3.00
	0.010	4.00
	9.00	5.00
	6.00	6.00
	7.00	7.00
	8.00	8.00
	9.00	9.00
	10.00	10.00
	11.00	11.00
	12.00	12.00
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	15.00	15.00
	16.00	16.00
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	18.00	18.00
	19.00	19.00
	20.00	20.00
	21.00	21.00
	22.00	22.00
	23.00	23.00
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	27.00	27.00
	28.00	28.00
	29.00	29.00
	30.00	30.00
	31.00	31.00
	32.00	32.00
	33.00	33.00
	34.00	34.00
	35.00	35.00
	36.00	36.00
	37.00	37.00
	38.00	38.00
	39.00	39.00
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	42.00	42.00
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	44.00	44.00
	45.00	45.00
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	47.00	47.00
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	49.00	49.00
	50.00	50.00
	51.00	51.00
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	53.00	53.00
	54.00	54.00
	55.00	55.00
	56.00	56.00
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	58.00	58.00
	59.00	59.00
	60.00	60.00



C/S at km = 0.200

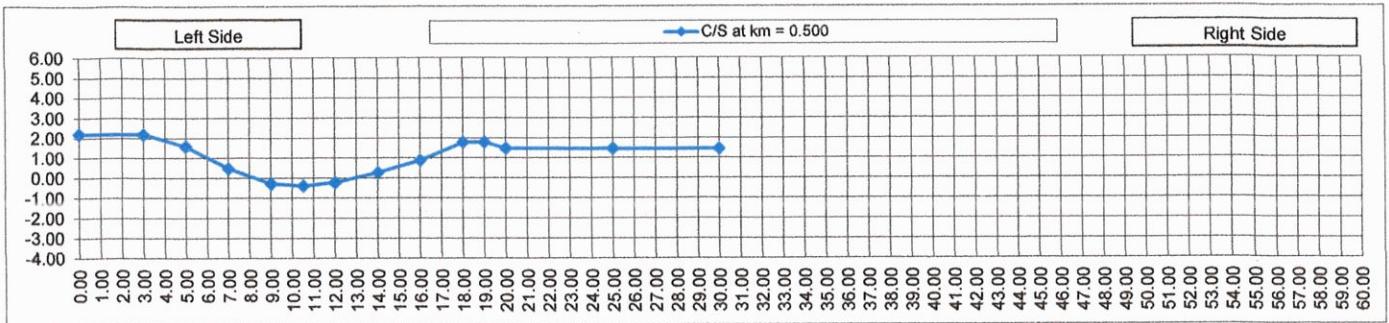
Remark	R/L	Distance
House	2.052	0.00
LB	2.053	1.00
	2.022	2.00
	2.022	3.00
	2.022	4.00
	2.022	5.00
	2.022	6.00
	2.022	7.00
	2.022	8.00
	2.022	9.00
	2.022	10.00
	2.022	11.00
	2.022	12.00
	2.022	13.00
	2.022	14.00
	2.022	15.00
	2.022	16.00
	2.022	17.00
	2.022	18.00
	2.022	19.00
	2.022	20.00
	2.022	21.00
	2.022	22.00
	2.022	23.00
	2.022	24.00
	2.022	25.00
	2.022	26.00
	2.022	27.00
	2.022	28.00
	2.022	29.00
	2.022	30.00
	2.022	31.00
	2.022	32.00
	2.022	33.00
	2.022	34.00
	2.022	35.00
	2.022	36.00
	2.022	37.00
	2.022	38.00
	2.022	39.00
	2.022	40.00
	2.022	41.00
	2.022	42.00
	2.022	43.00
	2.022	44.00
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	2.022	46.00
	2.022	47.00
	2.022	48.00
	2.022	49.00
	2.022	50.00
	2.022	51.00
	2.022	52.00
	2.022	53.00
	2.022	54.00
	2.022	55.00
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	2.022	57.00
	2.022	58.00
	2.022	59.00
	2.022	60.00

*A* *C*

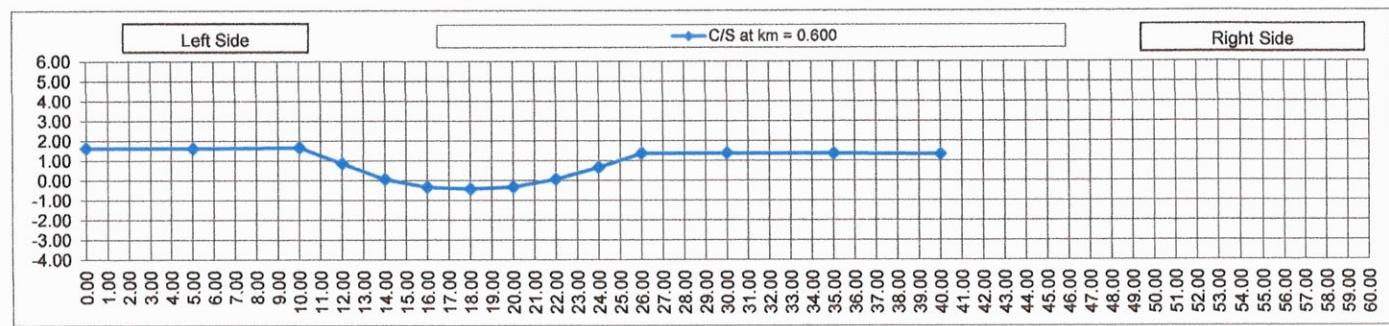




14

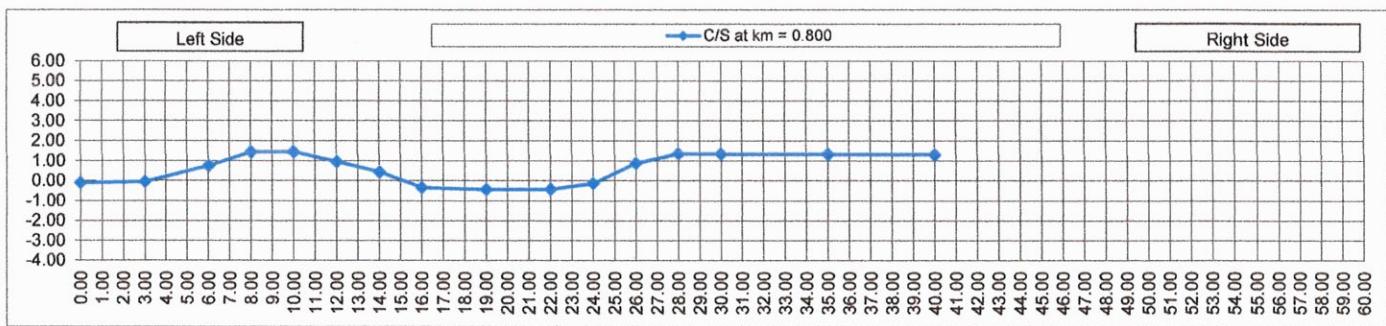
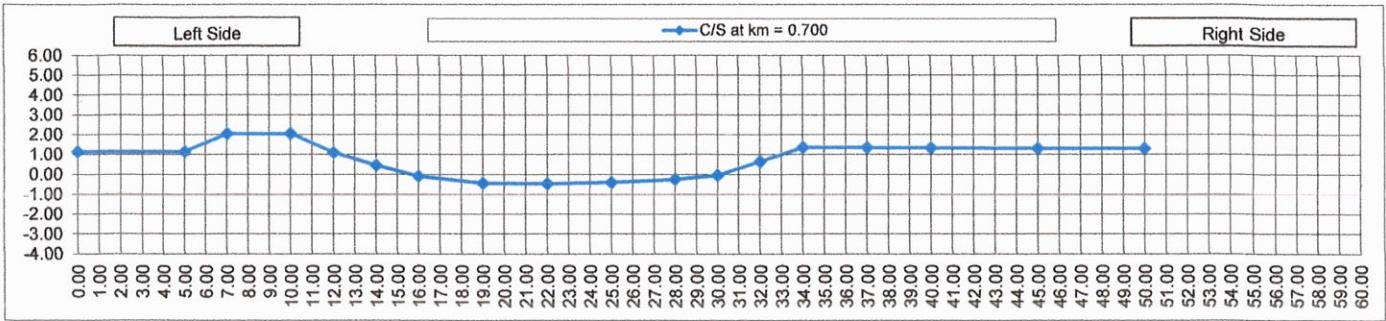


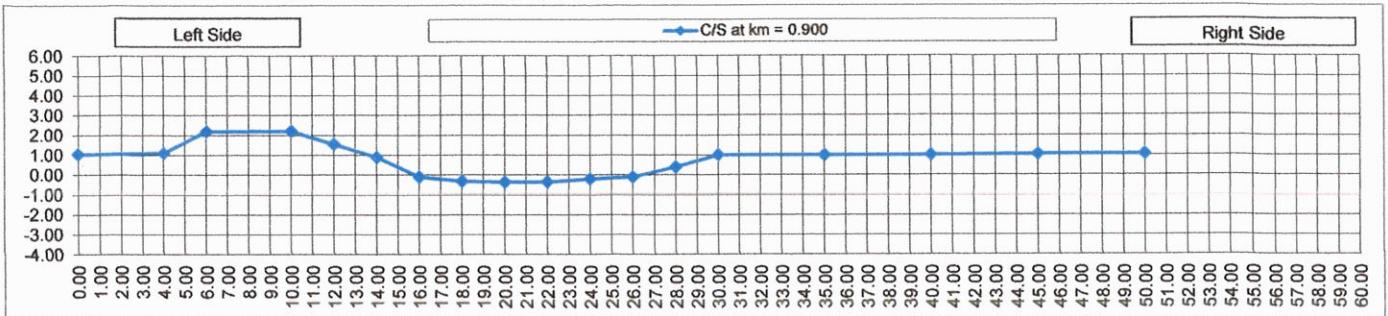
Remark	R/L	Distance
House	2.205	0.00
LB	2.195	3.00
	1.591	5.00
	0.491	7.00
	-0.264	9.00
CL	-0.376	10.50
	-0.214	12.00
	0.287	14.00
	0.890	16.00
RB	1.786	18.00
	1.794	19.00
	1.494	20.00
	1.475	25.00
Paddy land	1.456	30.00
	22.00	21.00
	23.00	22.00
	24.00	23.00
	25.00	24.00
	26.00	25.00
	27.00	26.00
	28.00	27.00
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	30.00	29.00
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	35.00	34.00
	36.00	35.00
	37.00	36.00
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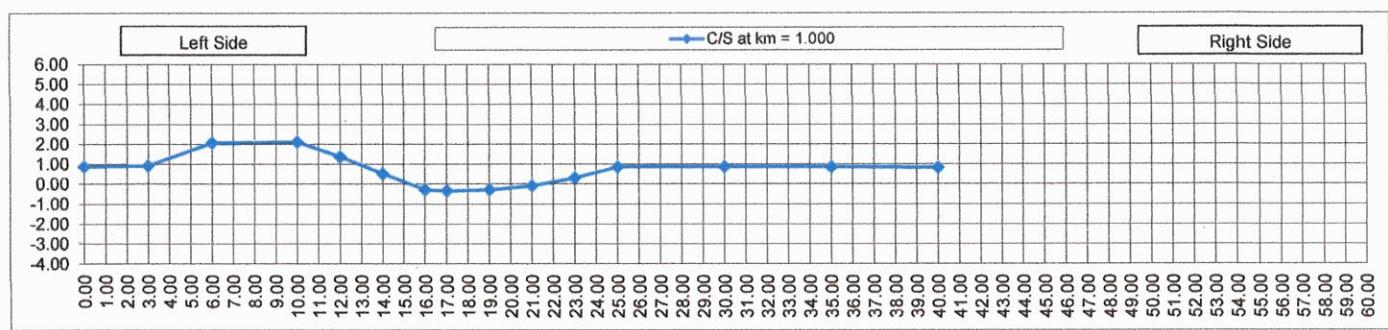
Remark	R/L	Distance
House Area	1.638	0.00
	1.627	5.00
LB	1.677	10.00
	0.871	12.00
	0.077	14.00
	-0.324	16.00
CL	-0.412	18.00
	-0.317	20.00
	0.073	22.00
	0.677	24.00
RB	1.378	26.00
	1.381	30.00
	1.376	35.00
Paddy land	1.336	40.00
		23.00
		24.00
		25.00
		26.00
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2 G



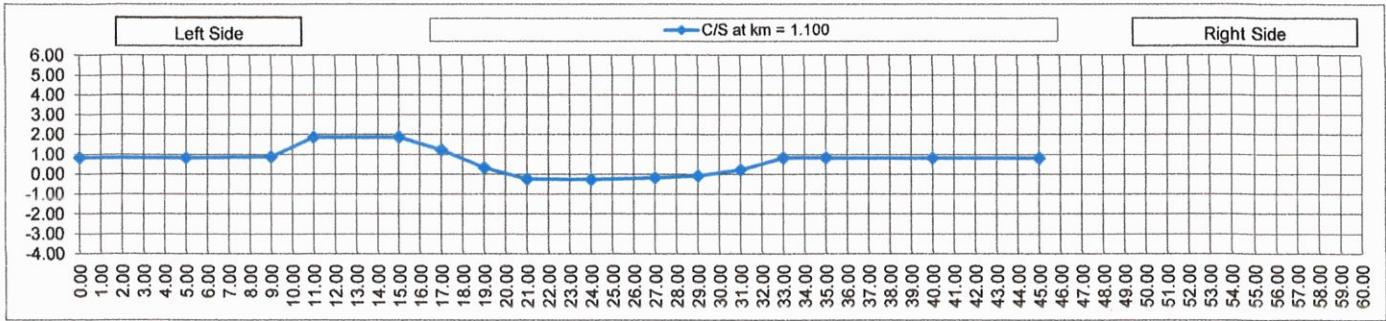


Remark	R/L	Distance
Paddy land	1.059	0.00
	1.119	4.00
LB	2.228	6.00
	5.00	10.00
	1.559	12.00
	6.00	14.00
	7.00	8.00
	8.00	9.00
	9.00	10.00
	10.00	11.00
	11.00	12.00
CL	-0.350	12.00
	13.00	14.00
	14.00	22.00
	-0.341	22.00
	15.00	15.00
	-0.191	24.00
	16.00	16.00
	-0.092	26.00
	17.00	17.00
	18.00	18.00
	19.00	19.00
	20.00	20.00
RB	1.019	20.00
	21.00	21.00
	22.00	22.00
	23.00	23.00
	24.00	24.00
	25.00	25.00
	26.00	26.00
	27.00	27.00
Paddy land	1.070	27.00
	28.00	28.00
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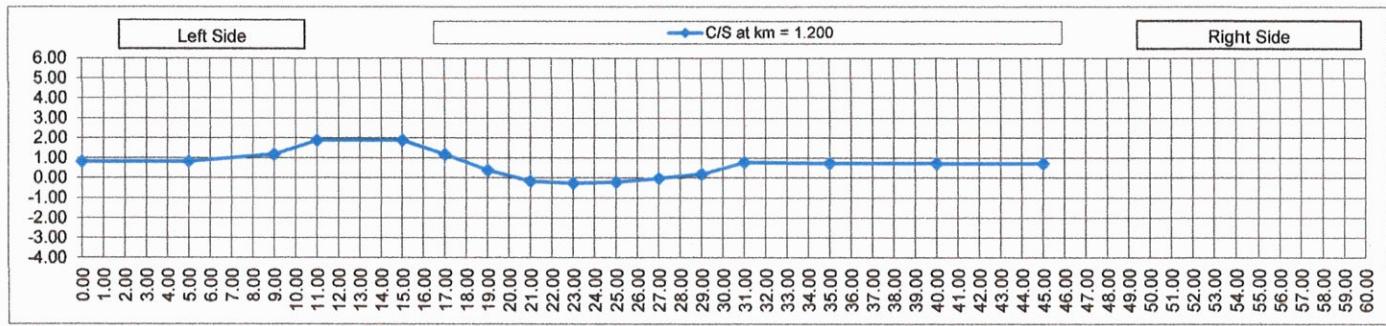


Remark	R/L	Distance
Giber	0.887	0.00
	0.935	3.00
	2.086	6.00
LB	2.130	10.00
	1.386	12.00
	0.535	14.00
	-0.264	16.00
CL	-0.324	17.00
	-0.272	19.00
	0.887	21.00
	0.336	23.00
RB	0.872	25.00
	0.887	30.00
	0.872	35.00
Paddy land	0.837	40.00
	23.00	40.00
	24.00	40.00
	25.00	40.00
	26.00	40.00
	27.00	40.00
	28.00	40.00
	29.00	40.00
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	31.00	40.00
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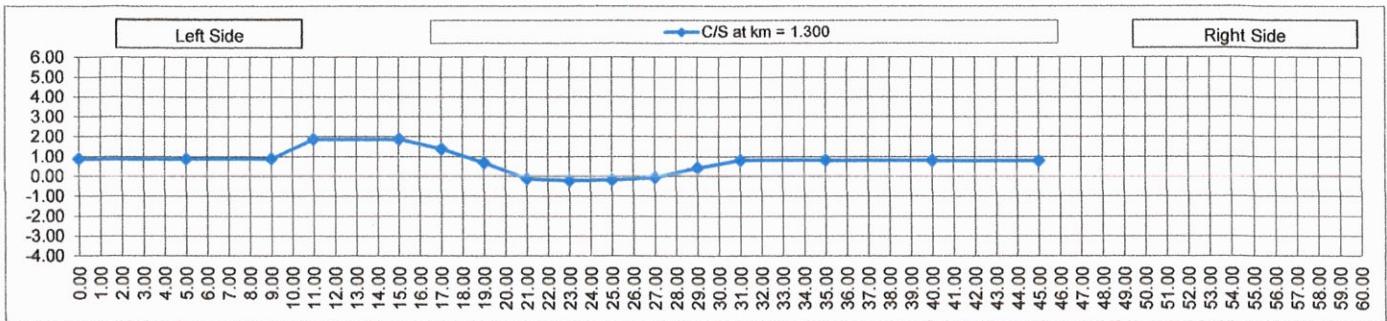
Remark	R/L	Distance
Paddy land	0.837	0.00
	0.845	5.00
LB	1.887	15.00
CL	-0.253	24.00
RB	0.834	33.00
Paddy land	0.816	45.00



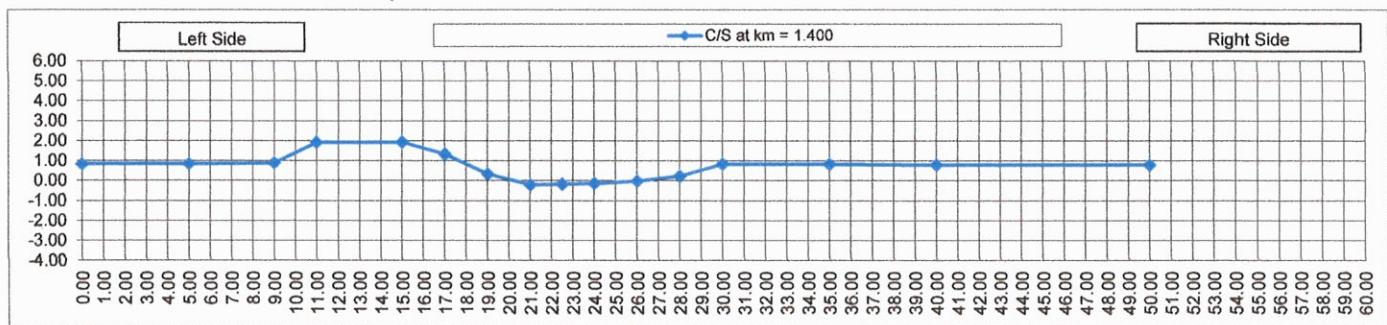
Remark	R/L	Distance
Paddy land	0.830	0.00
	0.841	5.00
LB	1.892	11.00
CL	-0.248	23.00
RB	0.797	31.00
Paddy land	0.735	45.00

*(Signature)*

*f*

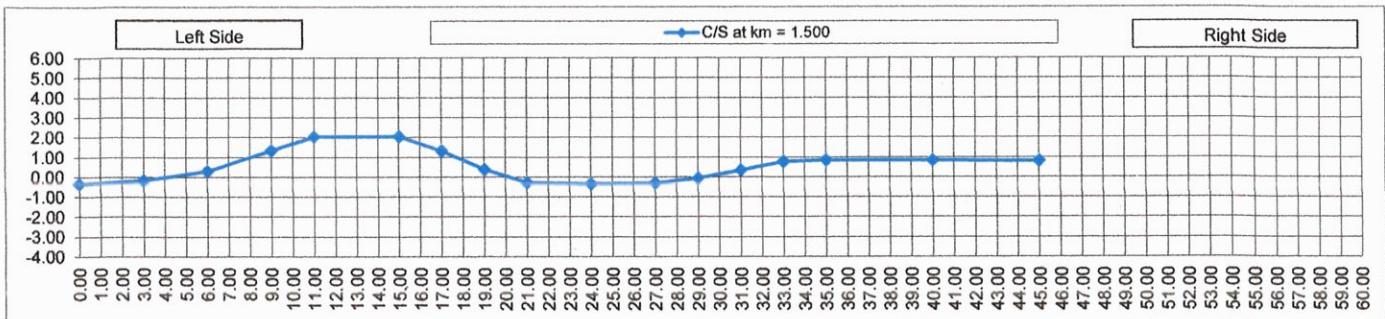


Remark	R/L	Distance
Paddy land	0.846	0.00
	0.856	5.00
0.896	9.00	
1.926	11.00	
LB	1.945	15.00
CL	-0.195	21.00
-0.154	22.50	
-0.125	24.00	
0.346	19.00	
-0.004	26.00	
0.247	28.00	
RB	0.844	30.00
0.835	35.00	
0.807	40.00	
Paddy land	0.796	50.00

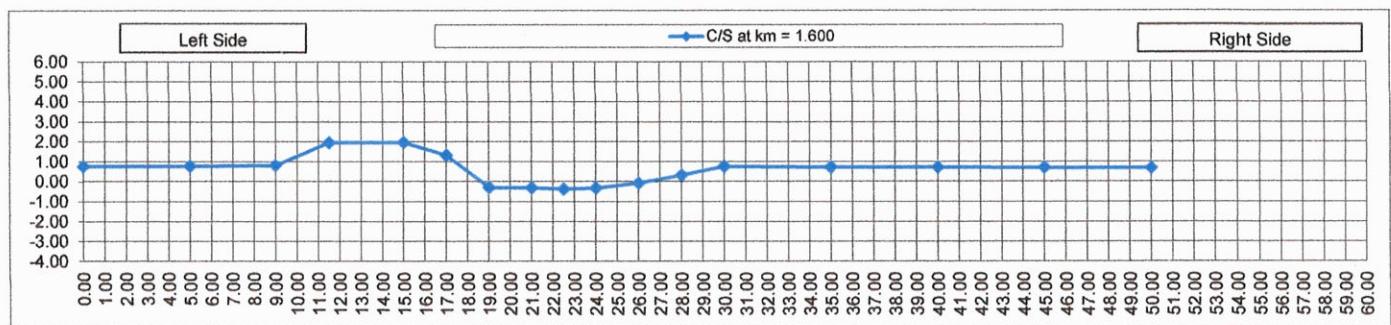


Remark	R/L	Distance
Paddy land	0.846	0.00
	0.856	5.00
0.896	9.00	
1.926	11.00	
LB	1.945	15.00
CL	-0.195	21.00
-0.154	22.50	
-0.125	24.00	
0.346	19.00	
-0.004	26.00	
0.247	28.00	
RB	0.844	30.00
0.835	35.00	
0.807	40.00	
Paddy land	0.796	50.00

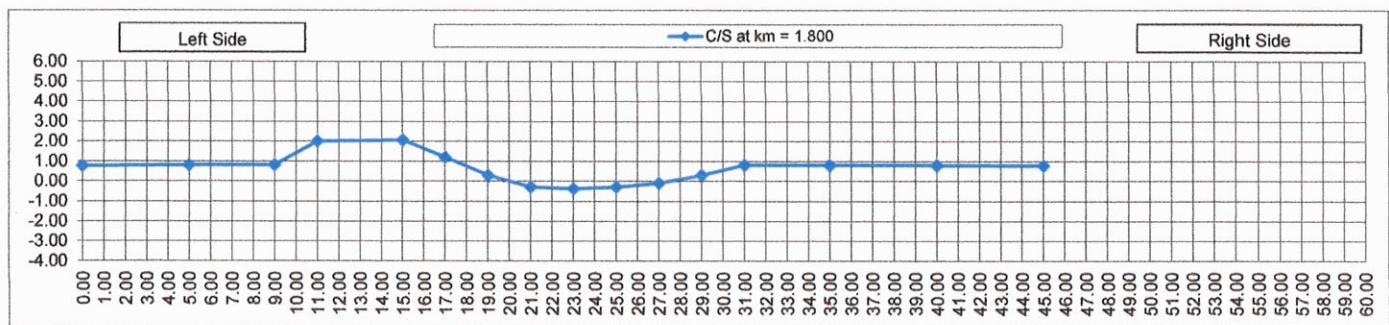
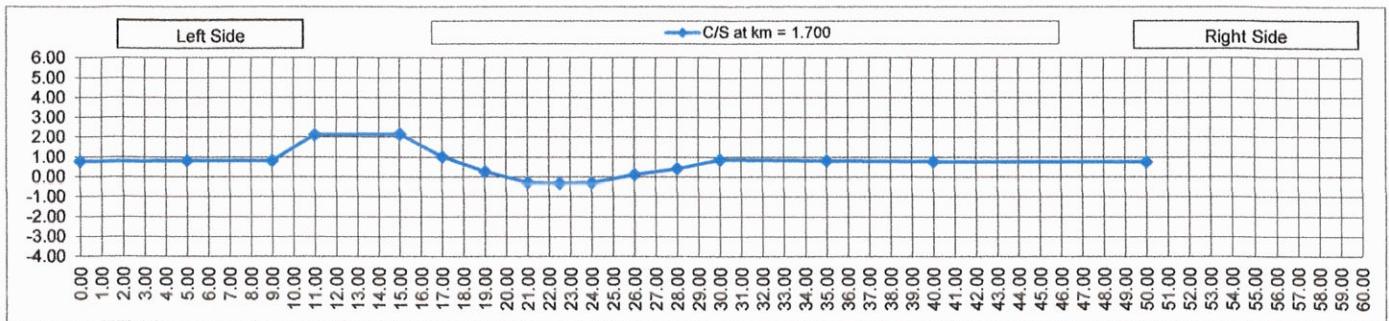


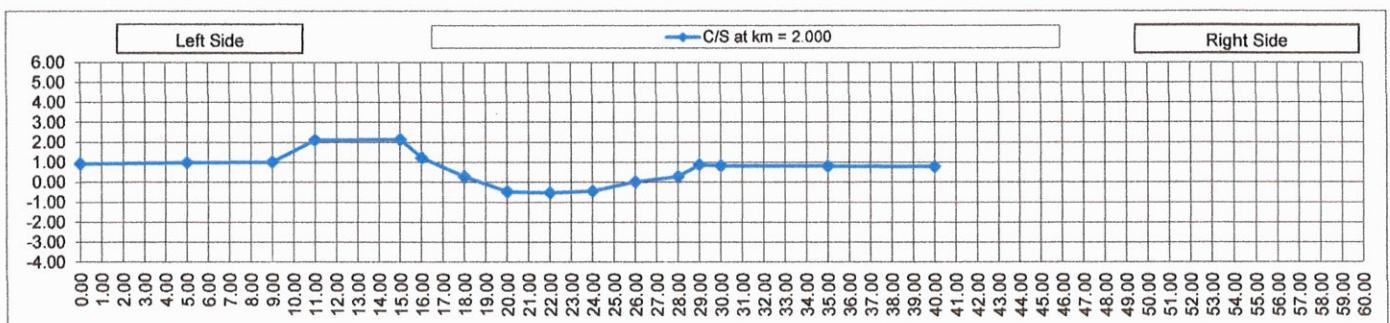
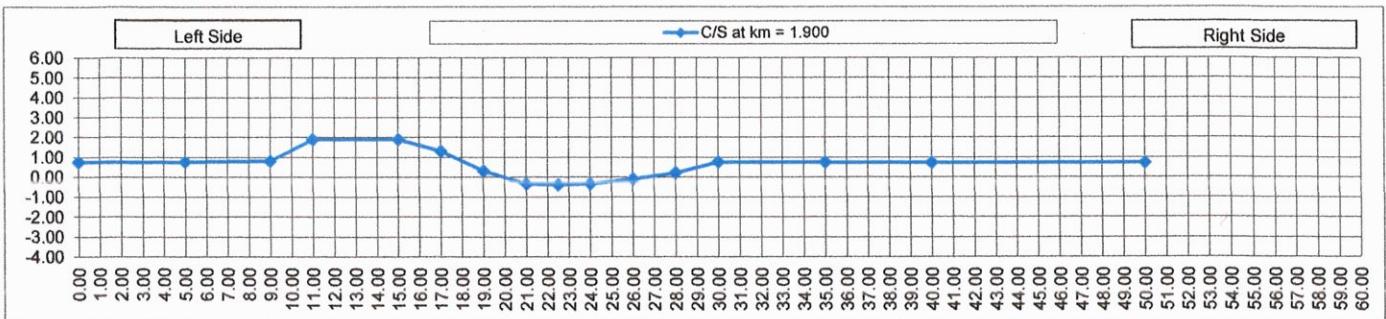



Remark	R/L	Distance	C/S at km = 1.500
Pond	-0.330	0.00	
	-0.147	3.00	
	0.309	6.00	
	1.358	9.00	
	2.048	11.00	
LB	2.059	15.00	
	1.329	17.00	
	0.403	19.00	
	-0.261	21.00	
CL	-0.331	24.00	
	-0.291	27.00	
	-0.045	29.00	
	0.355	31.00	
RB	0.790	33.00	
	0.858	35.00	
	0.850	40.00	
Paddy land	0.820	45.00	

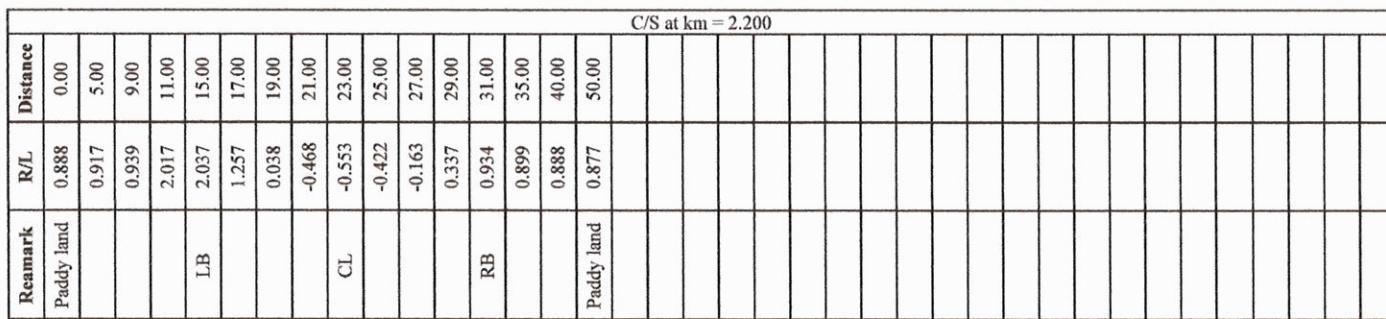
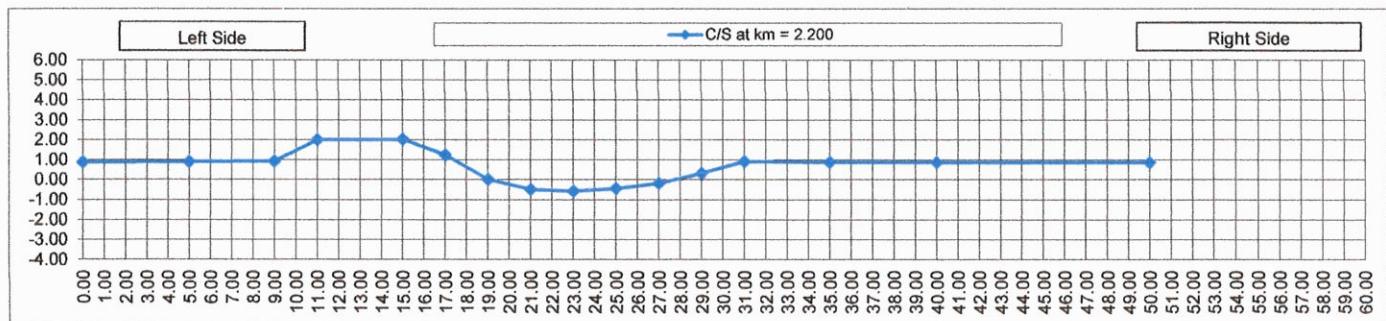
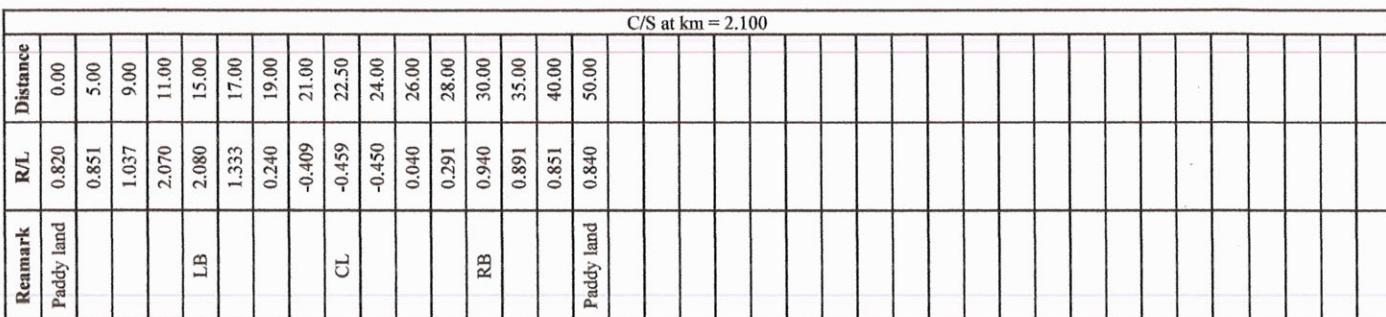
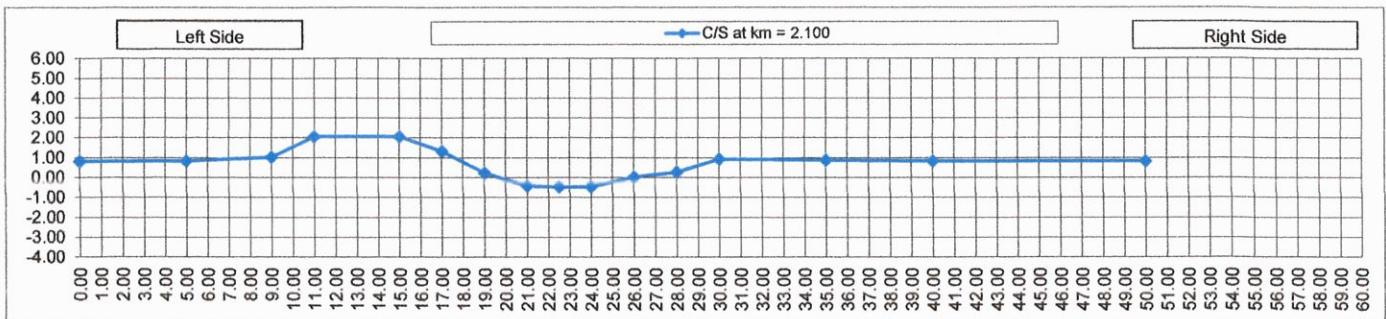


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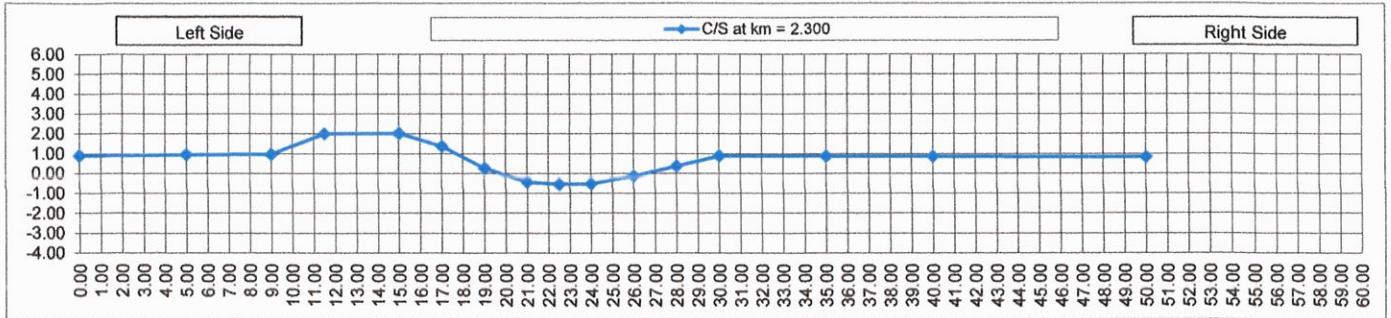




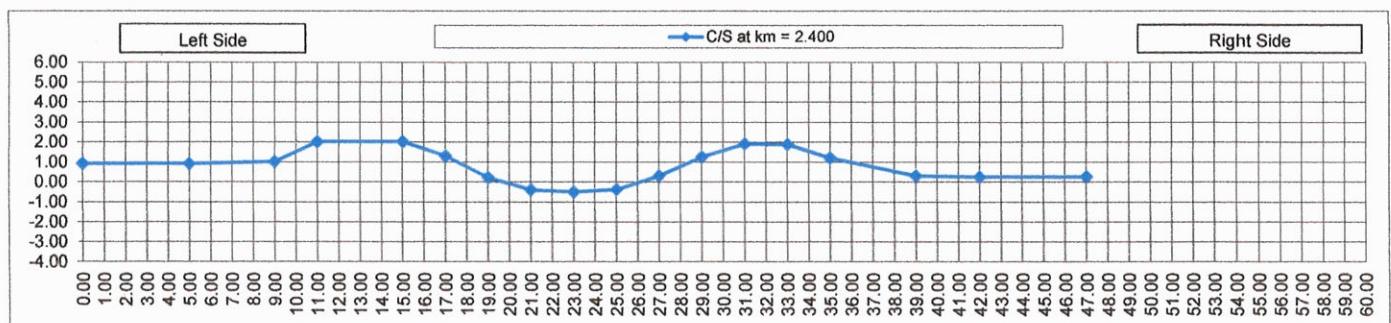
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✓ 6

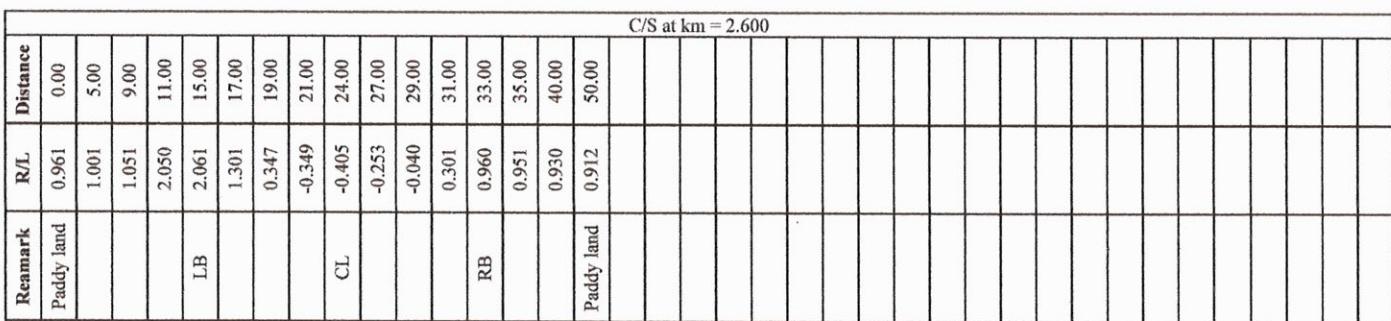
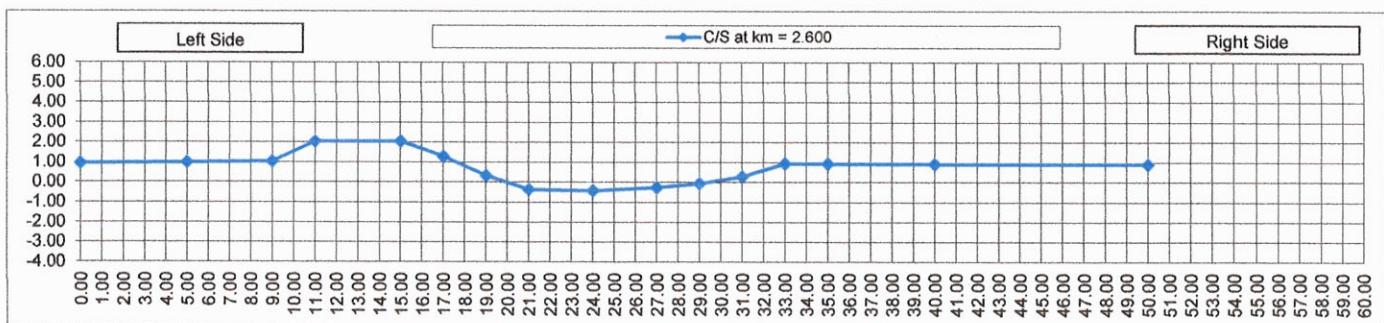
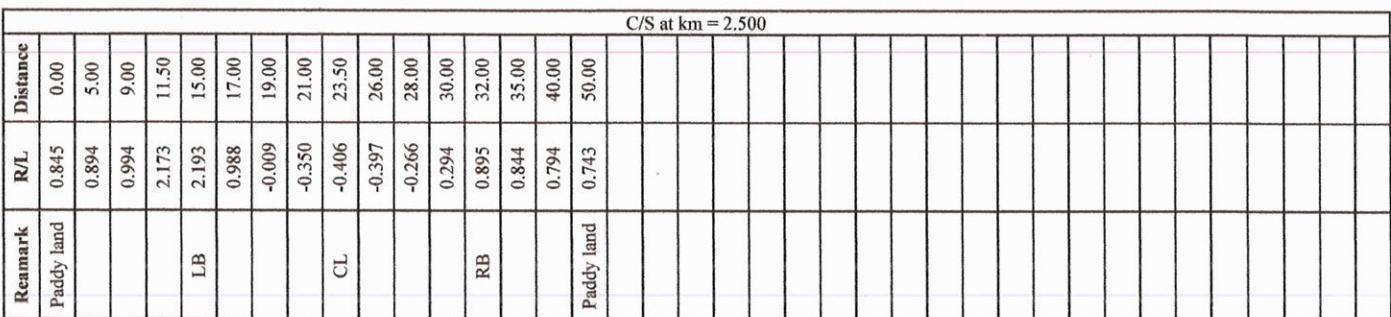
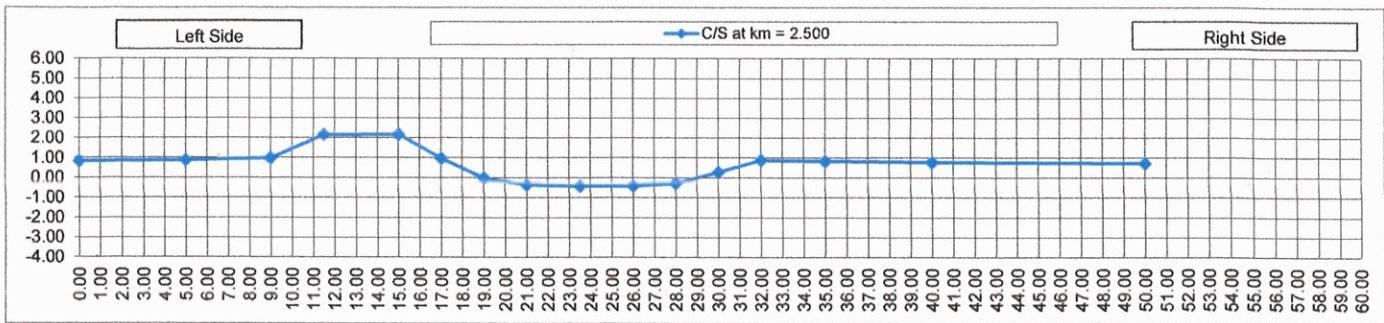


Remark	R/L	Distance
Paddy land	0.914	0.00
	0.963	5.00
	0.984	9.00
	2.023	11.50
LB	2.034	15.00
	6.00	17.00
	8.00	19.00
	0.278	21.00
	-0.420	21.00
CL	-0.522	22.50
	12.00	23.00
	13.00	24.00
	-0.507	24.00
	14.00	25.00
	-0.116	26.00
	15.00	27.00
	-0.116	28.00
	16.00	29.00
	-0.383	29.00
	17.00	30.00
	18.00	31.00
	-0.894	31.00
	19.00	32.00
	0.884	33.00
	20.00	34.00
	-0.884	35.00
	21.00	36.00
	-0.875	37.00
	22.00	38.00
	-0.875	39.00
	23.00	40.00
	-0.875	41.00
	24.00	42.00
	-0.875	43.00
	25.00	44.00
	-0.875	45.00
	26.00	46.00
	-0.875	47.00
	27.00	48.00
	-0.875	49.00
	28.00	50.00
	-0.875	51.00
	29.00	52.00
	-0.875	53.00
	30.00	54.00
	-0.875	55.00
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	32.00	58.00
	-0.875	59.00
	33.00	60.00

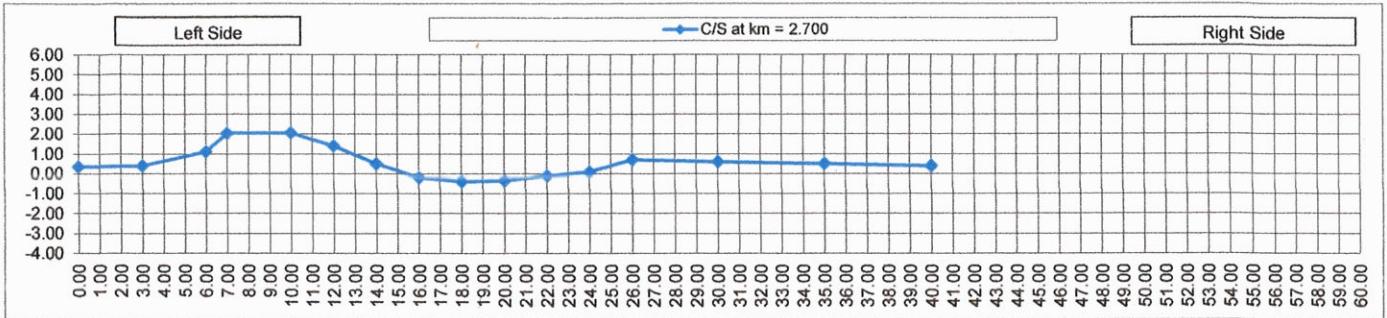


Remark	R/L	Distance
Paddy land	0.844	0.00
	0.844	31.00
	0.884	33.00
	0.884	35.00
	0.884	37.00
	0.875	39.00
	0.875	41.00
	0.875	43.00
	0.875	45.00
	0.875	47.00
	0.875	49.00
	0.875	51.00
	0.875	53.00
	0.875	55.00
	0.875	57.00
	0.875	59.00
	0.875	60.00

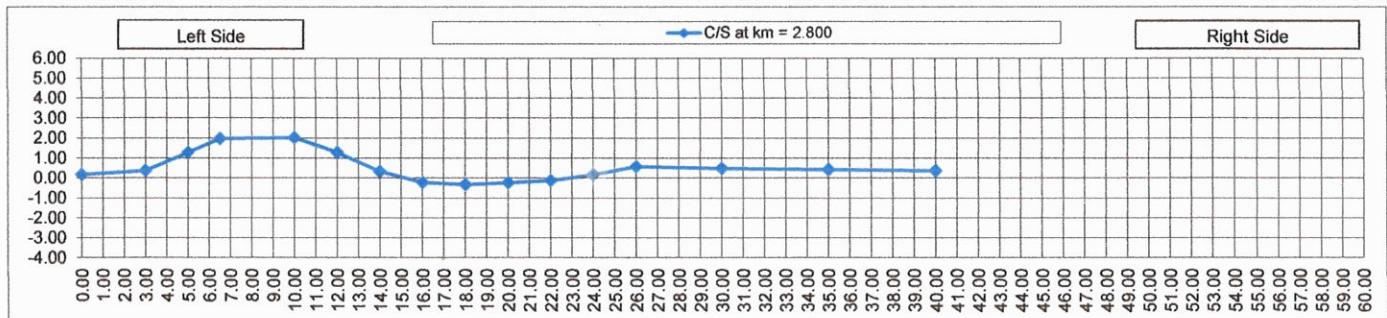
(a) (f)



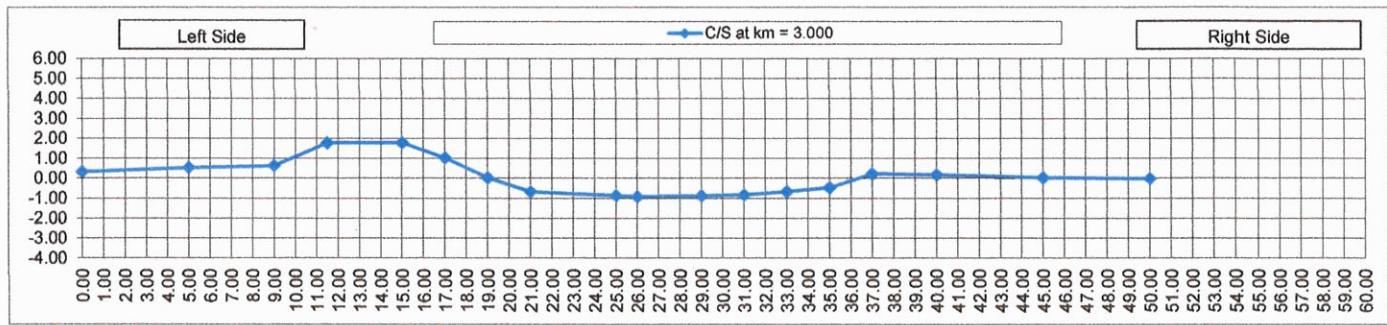
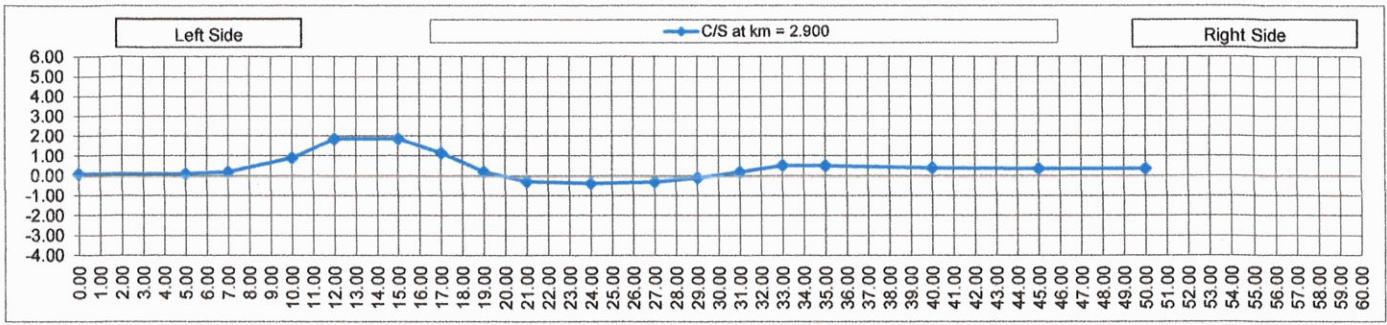
*[Handwritten signatures]*

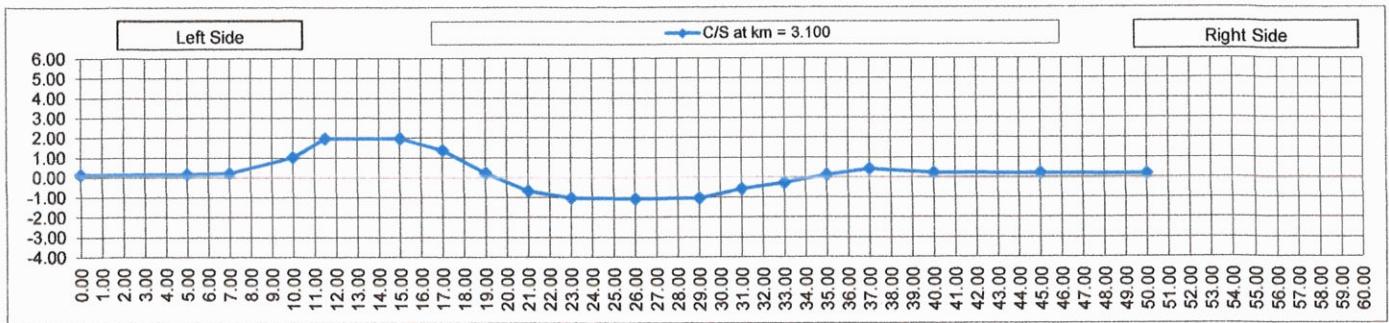


Remark	R/L	Distance
Gher	0.368	0.00
	0.417	3.00
	1.118	6.00
	2.058	7.00
LB	2.069	10.00
	1.417	12.00
	0.518	14.00
	-0.182	16.00
CL	-0.382	18.00
	-0.342	20.00
	-0.083	22.00
	0.118	24.00
RB	0.718	26.00
	0.618	30.00
	0.518	35.00
Low land	0.417	40.00

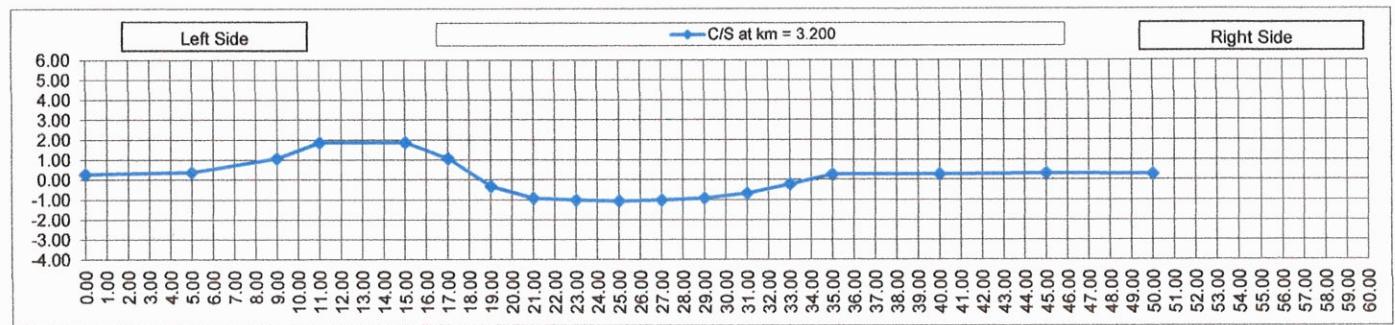


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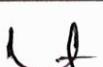


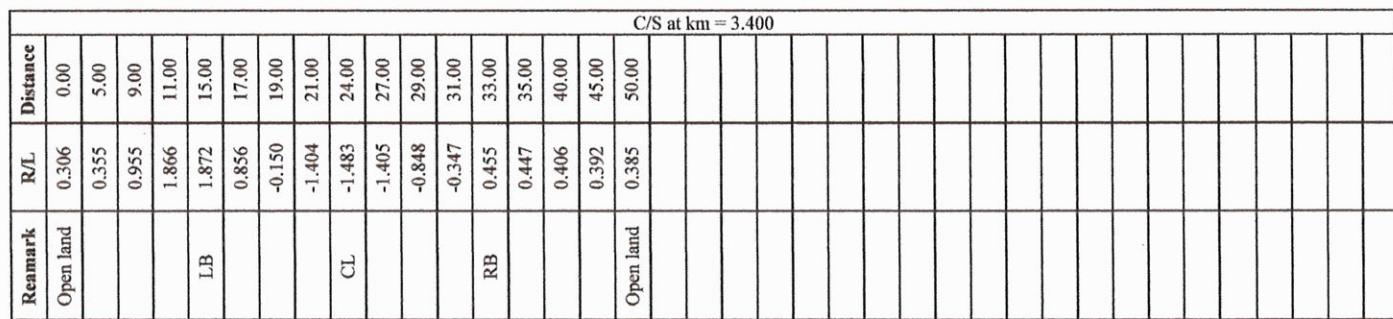
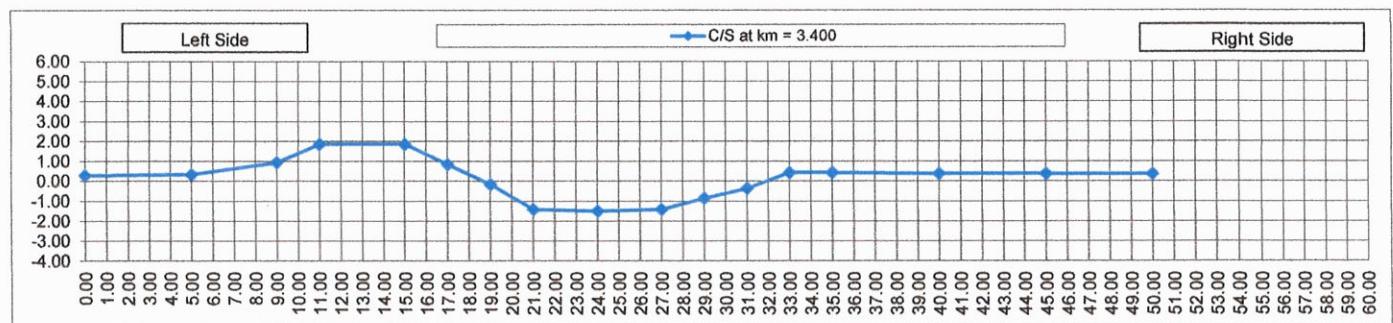
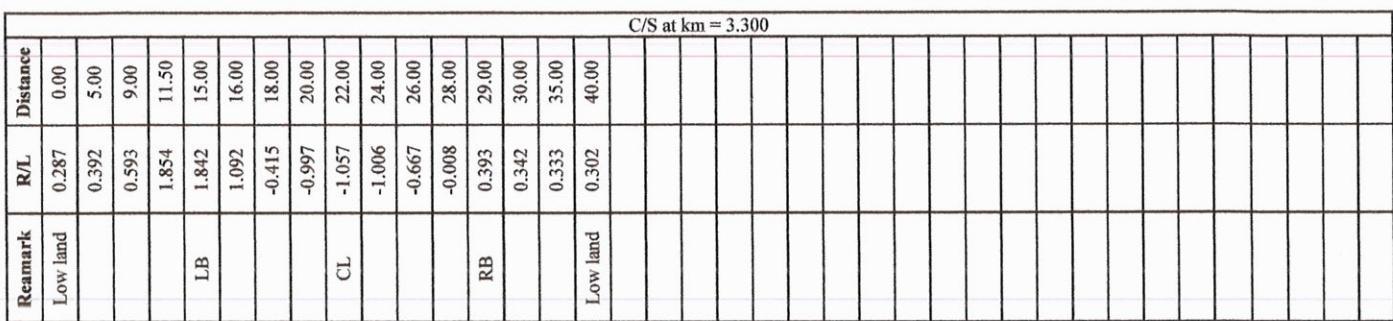
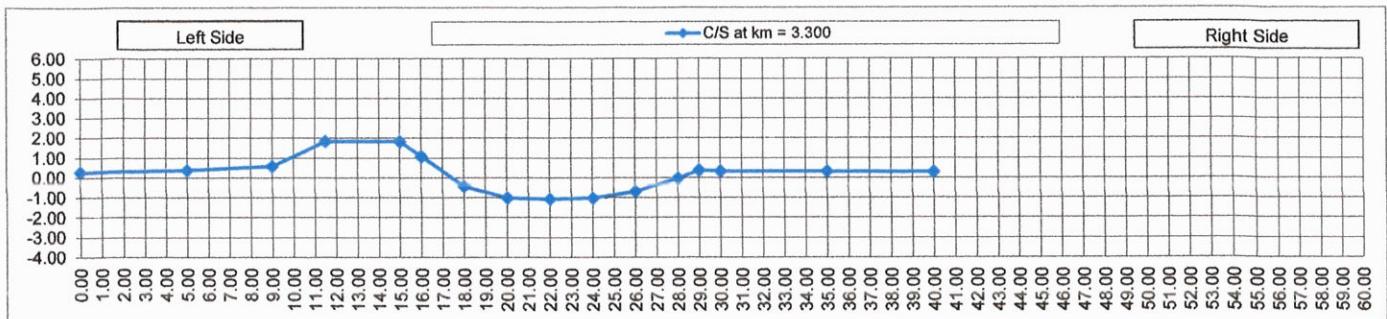


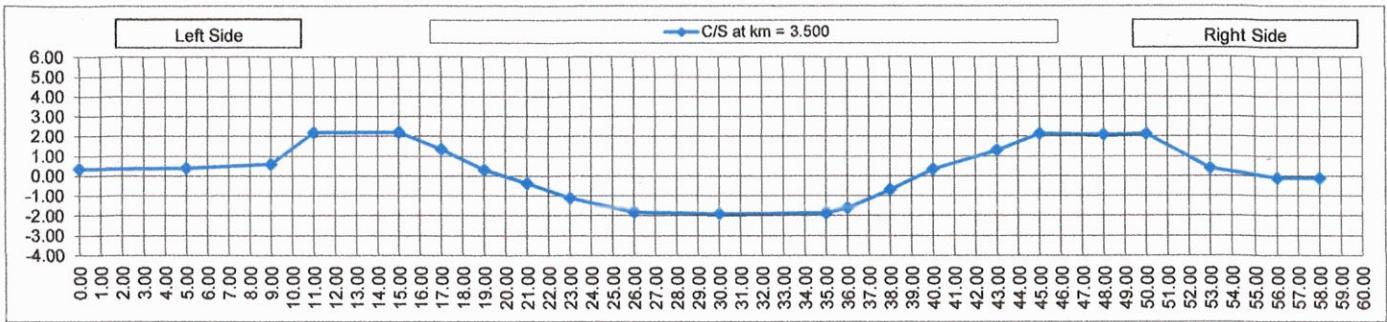
Remark	R/L	Distance
Gher	0.154	0.00
	0.185	5.00
	0.234	7.00
	1.035	10.00
	5.00	11.50
LB	1.975	11.50
LB	1.986	15.00
	8.00	17.00
	9.00	19.00
	10.00	21.00
	11.00	12.00
	12.00	13.00
	13.00	14.00
	14.00	15.00
	15.00	16.00
	16.00	17.00
	17.00	18.00
	18.00	19.00
	19.00	20.00
	20.00	21.00
	21.00	22.00
	22.00	23.00
	23.00	24.00
	24.00	25.00
	25.00	26.00
	26.00	27.00
	27.00	28.00
	28.00	29.00
	29.00	30.00
	30.00	31.00
	31.00	32.00
	32.00	33.00
	33.00	34.00
	34.00	35.00
	35.00	36.00
	36.00	37.00
	37.00	38.00
	38.00	39.00
	39.00	40.00
	40.00	41.00
	41.00	42.00
	42.00	43.00
	43.00	44.00
	44.00	45.00
	45.00	46.00
	46.00	47.00
	47.00	48.00
	48.00	49.00
	49.00	50.00
	50.00	51.00
	51.00	52.00
	52.00	53.00
	53.00	54.00
	54.00	55.00
	55.00	56.00
	56.00	57.00
	57.00	58.00
	58.00	59.00
	59.00	60.00



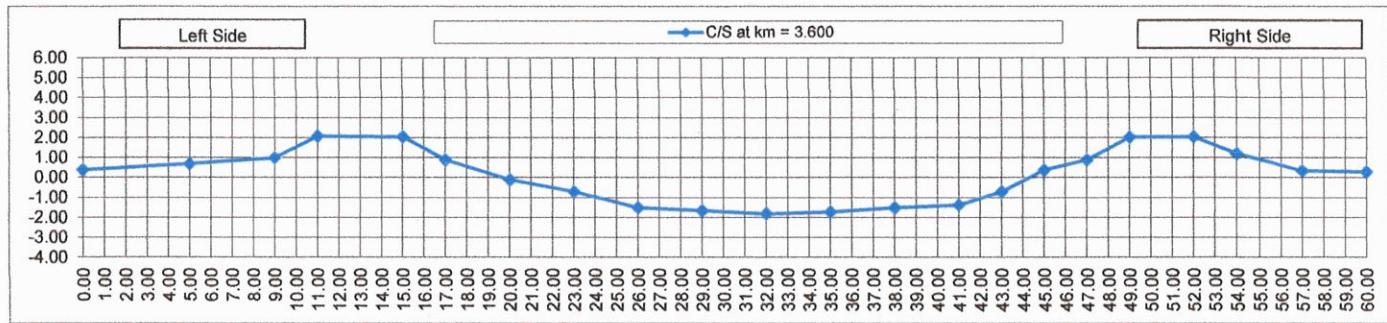
Remark	R/L	Distance
Low land	0.299	0.00
	0.393	5.00
	1.092	9.00
	1.884	11.00
LB	1.893	15.00
LB	1.089	17.00
	-0.308	19.00
	-0.908	21.00
	-0.998	23.00
CL	-1.046	25.00
	-0.997	27.00
	-0.908	29.00
	-0.667	31.00
	-0.208	33.00
RB	0.287	35.00
	0.294	40.00
	0.332	45.00
Low land	0.299	50.00
Low land	0.299	0.00
	1.00	5.00
	2.00	9.00
	3.00	11.00
	4.00	15.00
	5.00	17.00
	6.00	21.00
	7.00	23.00
	8.00	24.00
	9.00	25.00
	10.00	26.00
	11.00	27.00
	12.00	28.00
	13.00	29.00
	14.00	30.00
	15.00	31.00
	16.00	32.00
	17.00	33.00
	18.00	34.00
	19.00	35.00
	20.00	36.00
	21.00	37.00
	22.00	38.00
	23.00	39.00
	24.00	40.00
	25.00	41.00
	26.00	42.00
	27.00	43.00
	28.00	44.00
	29.00	45.00
	30.00	46.00
	31.00	47.00
	32.00	48.00
	33.00	49.00
	34.00	50.00
	35.00	51.00
	36.00	52.00
	37.00	53.00
	38.00	54.00
	39.00	55.00
	40.00	56.00
	41.00	57.00
	42.00	58.00
	43.00	59.00
	44.00	60.00



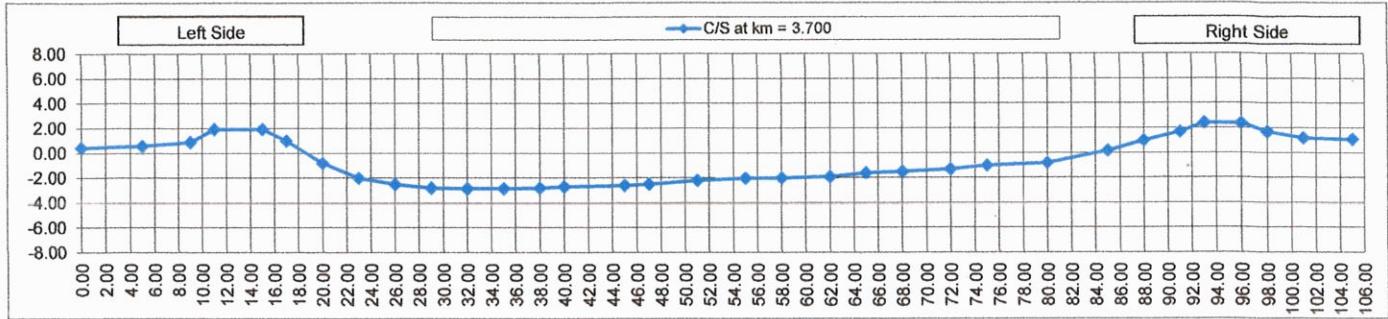


Remark	R/L	Distance
Open land	0.359	0.00
	0.408	5.00
	0.608	9.00
	2.200	11.00
LB	2.208	15.00
	1.359	17.00
	0.329	19.00
	-0.351	21.00
	-1.092	23.00
	-1.797	26.00
CL	-1.891	30.00
	-1.841	35.00
	-1.595	36.00
	-0.671	38.00
	0.359	40.00
	1.310	43.00
RB	2.149	45.00
	2.108	48.00
	2.136	50.00
	0.408	53.00
	-0.091	56.00
Gher	-0.100	58.00
	34.00	59.00
	35.00	60.00

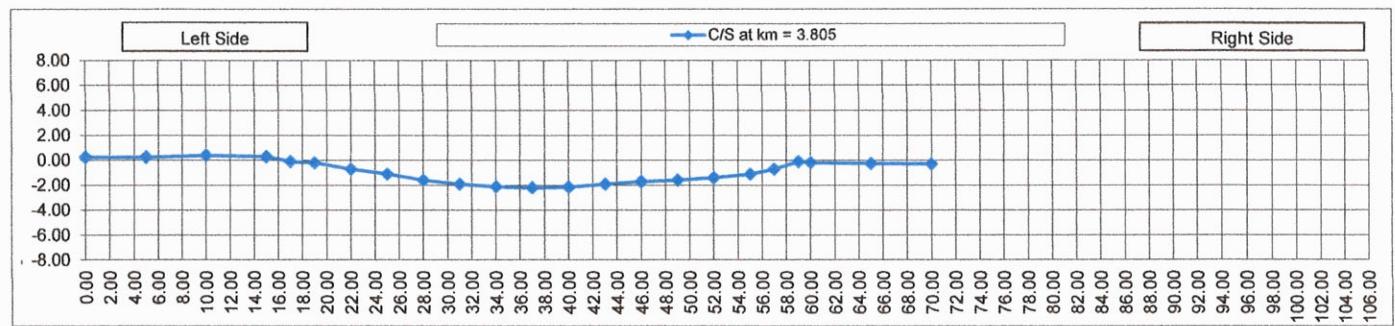


Remark	R/L	Distance
Gher	0.397	0.00
	0.702	5.00
	1.003	9.00
	2.082	11.00
LB	2.054	15.00
	0.903	17.00
	-0.098	20.00
	-0.698	23.00
	-1.501	26.00
	-1.647	29.00
CL	-1.798	32.00
	-1.703	35.00
	-1.497	38.00
	-1.357	41.00
	-0.698	43.00
RB	2.032	49.00
	0.397	54.00
	0.902	47.00
	2.044	52.00
	1.203	54.00
	0.353	57.00
Gher	0.302	60.00



Remark	R/L	Distance
Open land	0.448	0.00
	0.607	5.00
	0.908	9.00
	1.948	11.00
LB	1.959	15.00
	1.008	17.00
	-0.793	20.00
	-1.991	23.00
	-2.493	26.00
	-2.791	29.00
	-2.841	32.00
	-2.833	35.00
	-2.793	38.00
CL	-2.692	40.00
	-2.592	45.00
	-2.491	47.00
	-2.192	51.00
	-2.021	55.00
	-1.992	58.00
	-1.891	62.00
	-1.592	65.00
	-1.493	68.00
	-0.791	80.00
	0.202	85.00
	1.007	88.00
	1.708	91.00
RB	2.448	93.00
Road	2.408	96.00
	1.708	98.00
	1.207	101.00
Open land	1.107	105.00
		94.00
		96.00
		98.00
		100.00
		102.00
		104.00
		106.00



Remark	R/L	Distance
Low land	0.258	0.00
	0.268	5.00
	0.418	10.00
LB	0.317	15.00
	-0.085	17.00
	-0.183	19.00
	-0.683	22.00
	-1.081	25.00
	-1.582	28.00
	-1.883	31.00
	-2.086	34.00
CL	-2.182	37.00
	-2.132	40.00
	-1.882	43.00
	-1.683	46.00
	-1.581	49.00
	-1.383	52.00
	-1.088	55.00
	-0.683	57.00
RB	-0.086	59.00
	-0.182	60.00
	-0.231	65.00
River bank	-0.282	70.00
		62.00
		64.00
		66.00
		68.00
		70.00
		72.00
		74.00
		76.00
		78.00
		80.00
		82.00
		84.00
		86.00
		88.00
		90.00
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		98.00
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		102.00
		104.00
		106.00

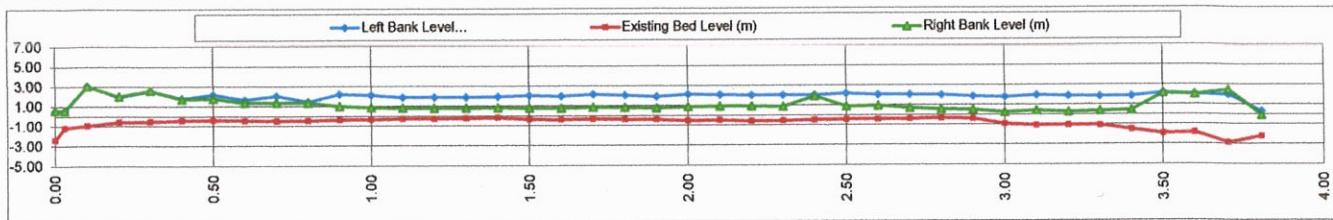
(S M Refat Jamil )  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

(Subrata Kumar)  
Sub Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Tungipara , Gopalganj.

(Utpal Ray)  
Sub-Assistant Engineer  
Kotalipara WD Section  
BWDB,Tungipara, Gopalganj .

Long Section for Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W "Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District)" under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.

Long Section



Right Bank Level (m)	Existing Bed Level (m)	Left Bank Level (m)	Distance (km)
0.637	-2.362	0.565	0.000
0.605	-1.137	0.555	0.030
3.062	-0.912	3.090	0.100
2.031	-0.552	1.971	0.200
2.602	-0.518	2.567	0.300
1.727	-0.393	1.797	0.400
1.786	-0.376	2.195	0.500
1.378	-0.412	1.677	0.600
1.376	-0.452	2.068	0.700
1.369	-0.422	1.468	0.800
1.019	-0.350	2.228	0.900
0.872	-0.324	2.130	1.000
0.834	-0.253	1.887	1.100
0.797	-0.248	1.899	1.200
0.820	-0.198	1.887	1.300
0.844	-0.154	1.945	1.400
0.790	-0.331	2.059	1.500
0.776	-0.361	1.975	1.6
0.871	-0.304	2.169	1.700
0.836	-0.358	2.076	1.800
0.777	-0.373	1.915	1.900
0.891	-0.509	2.150	2.000
0.940	-0.459	2.080	2.100
0.934	-0.553	2.037	2.200
0.894	-0.522	2.034	2.300
1.925	-0.477	2.033	2.400
0.895	-0.406	2.193	2.500
0.533	-0.367	1.875	2.900
0.960	-0.405	2.061	2.600
0.718	-0.382	2.069	2.700
0.590	-0.309	2.032	2.800
0.287	-1.046	1.893	3.200
0.393	-1.057	1.842	3.300
0.455	-1.483	1.872	3.400
0.434	-1.055	1.986	3.100
2.149	-1.891	2.208	3.500
2.032	-1.798	2.054	3.600
2.448	-2.841	1.959	3.700
-0.086	-2.182	0.317	3.805

S M Rehat Jamil  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

(Subrata Kumar)  
Sub Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Tungipara, Gopalganj.

(Utpal Ray)  
Sub-Assistant Engineer  
Kotalipara WD Section  
BWDB, Tungipara, Gopalganj.

Cross Section of Out fall (Borni Baor) Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04 in C/W "Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District" under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.

Cross section of Borni Baor along the Fokirbari to Kachichara Khal-2

Pre-work

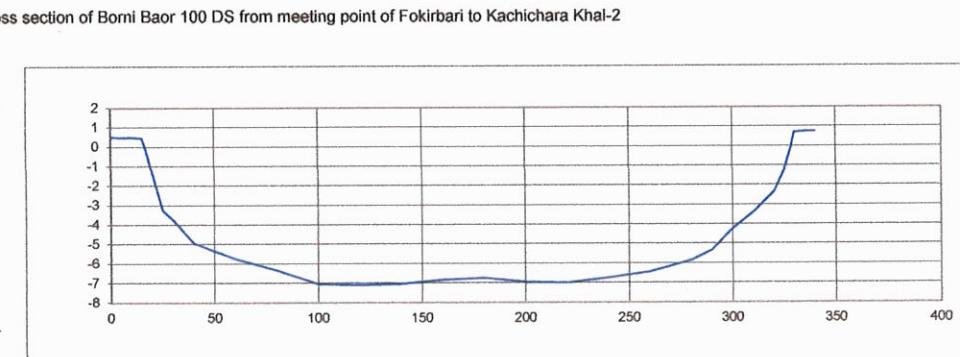
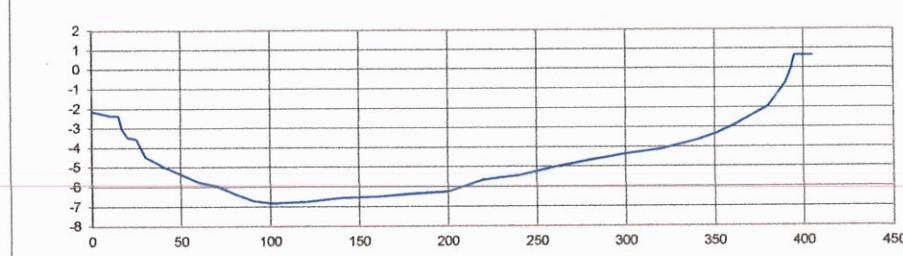
0.00	-2.135
5.00	-2.222
10.00	-2.337
15.00	-2.362
17.00	-3.037
20.00	-3.442
25.00	-3.538
30.00	-4.442
40.00	-4.936
50.00	-5.337
60.00	-5.742
70.00	-5.937
80.00	-6.337
90.00	-6.692
100.00	-6.815
120.00	-6.738
140.00	-6.542
160.00	-6.486
180.00	-6.342
200.00	-6.236
220.00	-5.642
240.00	-5.417
260.00	-4.992
280.00	-4.650
300.00	-4.338
320.00	-4.096
340.00	-3.647
350.00	-3.344
360.00	-2.942
370.00	-2.435
380.00	-1.936
385.00	-1.344
390.00	-0.737
393.00	-0.042
395.00	0.656
400.00	0.673
405.00	0.658

Cross section of Borni Baor 100 DS from meeting point of Fokirbari to Kachichara Khal-2

LB

0.00	0.525
5.00	0.483
10.00	0.505
15.00	0.463
17.00	-0.142
20.00	-1.387
25.00	-3.245
30.00	-3.740
35.00	-4.337
40.00	-4.925
50.00	-5.342
60.00	-5.737
80.00	-6.342
100.00	-7.047
120.00	-7.100
140.00	-7.036
160.00	-6.842
180.00	-6.737
200.00	-6.942
220.00	-6.985
240.00	-6.735
260.00	-6.437
280.00	-5.842
290.00	-5.340
300.00	-4.237
310.00	-3.386
320.00	-2.340
325.00	-1.186
328.00	-0.137
330.00	0.714
335.00	0.748
340.00	0.760

CL



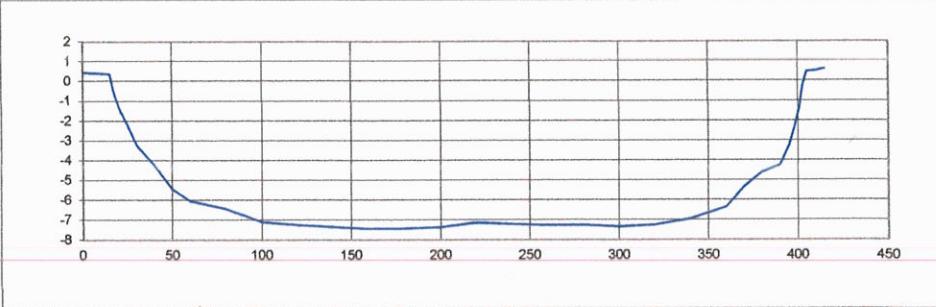
Cross section of Borni Baor 100 US from meeting point of Fokirbari to Kachichara Khal-2

Pre-work

0.00	0.464
5.00	0.423
10.00	0.414
15.00	0.365
17.00	-0.437
20.00	-1.332
25.00	-2.237
30.00	-3.236
40.00	-4.242
50.00	-5.437
60.00	-6.040
80.00	-6.437
100.00	-7.096
120.00	-7.244
140.00	-7.342
160.00	-7.435
180.00	-7.417
200.00	-7.355
220.00	-7.137
240.00	-7.210
260.00	-7.258
280.00	-7.238
300.00	-7.337
320.00	-7.240
340.00	-6.935
360.00	-6.337
370.00	-5.340
380.00	-4.600
390.00	-4.244
395.00	-3.250
398.00	-2.342
401.00	-1.242
403.00	-0.142
405.00	0.473
410.00	0.515
415.00	0.610

Char

LB



CL

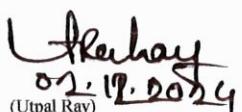
RB

(S M Rehmat Jamil )  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.



Subrata Kumar  
02-12-24

(Subrata Kumar)  
Sub Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Tungipara , Gopalganj.



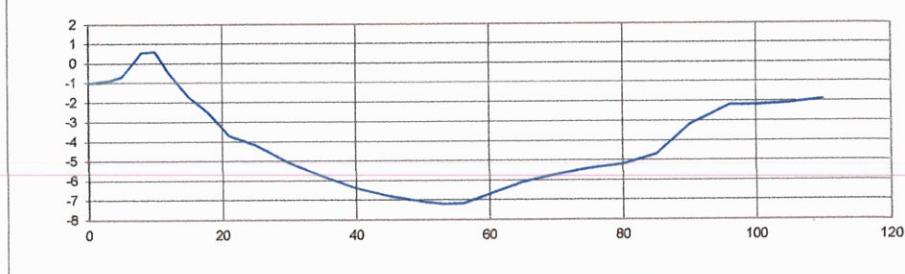
Utpal Ray  
02.12.2024

(Utpal Ray)  
Sub-Assistant Engineer  
Kotalipara WD Section  
BWDB,Tungipara, Gopalganj .

Cross Section of Offtake Khal (Borinati Khal) Re-excavation of Fokirbari to Kachichara Khal-2 From KM. 0.000 to KM. 3.805 = 3.805 km at Polder No. 04  
 in C/W "Implementation of Integrated water Resources Management Project for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District" under Gopalganj WD Division, BWDB, Gopalganj, during the year 2024-25.

Cross section of Borinati Khal along the Fokirbari to Kachichara Khal-2

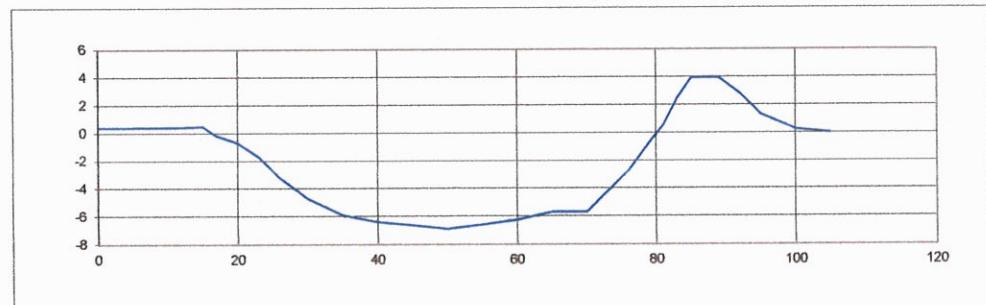
Pre-work	
0.00	-0.991
3.00	-0.882
5.00	-0.683
7.00	0.118
8.00	0.559
10.00	0.617
12.00	-0.443
15.00	-1.690
18.00	-2.534
21.00	-3.683
25.00	-4.184
30.00	-5.086
35.00	-5.781
40.00	-6.382
45.00	-6.781
50.00	-7.073
53.00	-7.200
56.00	-7.172
60.00	-6.683
65.00	-6.082
70.00	-5.688
75.00	-5.391
80.00	-5.188
85.00	-4.683
90.00	-3.183
93.00	-2.688
96.00	-2.182
100.00	-2.173
105.00	-2.082
110.00	-1.888



Cross section of Borinati Khal 100 DS from meeting point of Fokirbari to Kachichara Khal-2

Low land	
0.00	0.398
5.00	0.409
10.00	0.418
15.00	0.497
17.00	-0.181
20.00	-0.690
23.00	-1.688
26.00	-3.182
30.00	-4.691
35.00	-5.881
40.00	-6.383
45.00	-6.632
50.00	-6.888
55.00	-6.576
60.00	-6.242
65.00	-5.683
70.00	-5.688
73.00	-4.181
76.00	-2.708
79.00	-0.681
81.00	0.558
83.00	2.517
85.00	3.939
89.00	3.942
92.00	2.818
95.00	1.317
100.00	0.258
105.00	0.014

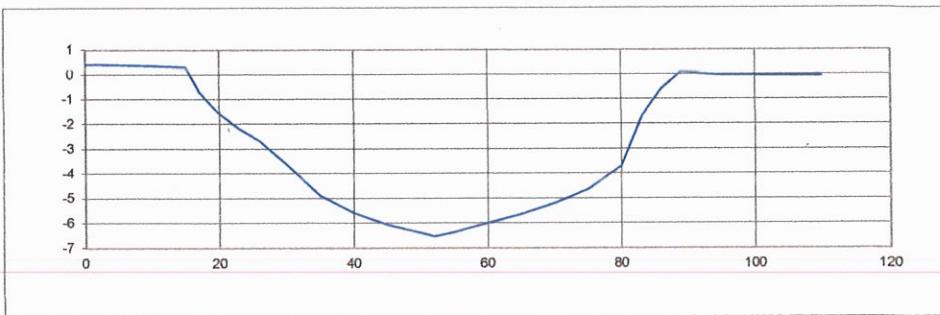
RB



Cross section of Borinati Khal 100 US from meeting point of Fokirbari to Kachichara Khal-2

Pre-work

0.00	0.424	Low land
5.00	0.398	
10.00	0.369	
15.00	0.316	
17.00	-0.688	IR
20.00	-1.582	
23.00	-2.183	
26.00	-2.688	
30.00	-3.632	
35.00	-4.886	
40.00	-5.584	
45.00	-6.062	
50.00	-6.382	
52.00	-6.531	CL
55.00	-6.358	
60.00	-5.991	
65.00	-5.632	
70.00	-5.188	
75.00	-4.632	RB
80.00	-3.685	
83.00	-1.708	
86.00	-0.585	
89.00	0.112	
92.00	0.018	
95.00	-0.032	
100.00	-0.043	
110.00	-0.052	Low land



(S M Refat Nahil)  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

Refat Nahil  
02-12-2024

(Subrata Kumar)  
Sub Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
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Subrata Kumar  
02-12-24

(Utpal Ray)  
Sub-Assistant Engineer  
Kotalipara WD Section  
BWDB, Tungipara, Gopalganj.

Utpal Ray  
02-12-2024

**Water Level Data of SW 102, Bhatiapara, Gorai-Madhumati-Haringhata-Baleswar  
Gopalganj O&M Division, BWDB, Gopalganj**

District Name	UPZL NAME	RIVER_NAME	Station ID	Station Name	Year	Yr_Max (m PWD)	Yr_Min (m PWD)	Yr_Ave (m PWD)	Max (m PWD)	Min (m PWD)
Gopalganj	Kashiani	Gorai-Madhumati-Haringhata-Baleswar	SW102	Bhatiapara	1959	5.53	2.02	3.61		
					1960	6.05	0.72	2.92		
					1961	6.20	1.30	3.03		
					1968	6.79	1.70	4.04		
					1969	6.91	1.36	3.42		
					1970	6.78	1.44	3.52		
					1971	6.99	1.46	3.70		
					1972	5.58	1.36	2.88		
					1973	6.51	1.19	3.50		
					1974	6.73	1.58	3.46		
					1975	6.23	1.40	2.94		
					1976	6.32	1.16	3.12		
					1977	6.28	1.34	3.35		
					1978	6.47	1.31	3.50		
					1979	5.90	1.46	3.03		
					1980	6.72	1.28	3.30		
					1981	6.40	1.28	3.12		
					1982	6.44	0.20	2.94		
					1983	5.77	0.90	2.81		
					1984	5.77	0.47	2.61		
					1985	5.25	0.66	2.49		
					1986	5.47	0.19	2.19		
					1987	5.69	0.30	2.21		
					1988	5.90	0.17	2.12		
					1989	4.79	0.07	1.97		
					1990	5.38	0.24	2.30		
					1991	5.70	0.50	2.22		
					1992	4.57	0.37	1.81		
					1993	4.86	0.30	2.06		
					1994	4.85	0.22	1.80		
					1995	4.60	0.25	2.11		
					1996	5.00	0.17	2.24		
					1997	2.33	0.90	1.42		
					1998	5.86	0.18	2.43		
					1999	3.96	0.20	2.62		
					2000	5.10	0.41	2.43		
					2001	4.73	0.68	2.43		
					2002	4.65	0.40	2.16		
					2003	4.75	0.40	2.14		
					2004	4.62	0.25	2.24		
					2005	5.70	1.40	3.00		
					2006	4.16	0.95	2.35		
					2007	5.01	0.46	2.21		
2008	4.86	0.37	2.20							
2009	4.30	0.29	1.80							
2010	4.68	0.29	2.03							
2011	5.01	0.40	2.16							
2012	4.74	0.55	2.25							
2013	4.88	0.55	2.31							
2014	4.93	0.41	1.95							
2015	4.92	0.46	2.12							
2016	4.93	0.30	2.07							
2017	5.01	0.66	2.09							
2018	4.94	0.57	1.93							
2019	5.00	0.55	2.05							
2020	4.85	0.56	2.33							

\* Max in the year 1971

\*Min in the year 1989

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**Water Level Data of SW 198, Haridaspur, Madaripur Beel Route Channel  
Gopalganj O&M Division, BWDB, Gopalganj**

District Name	UPZL_NAME	RIVER_NAME	Station ID	Station Name	Year	Yr._Max (m PWD)	Yr._Min (m PWD)	Yr._Ave (m PWD)	Max (m PWD)	Min (m PWD)
Gopalganj	Gopalganj Sadar	Madaripur Beel Route	SW198	Haridaspur	1959	3.96	0.64	2.29		
					1960	1.40	0.40	0.86		
					1962	4.28	0.70	2.20		
					1963	4.11	0.47	2.09		
					1964	4.63	0.30	2.04		
					1965	1.33	0.30	0.85		
					1968	4.21	0.21	2.38		
					1969	4.16	0.35	2.10		
					1970	4.11	0.18	1.87		
					1971	4.54	0.17	2.17		
					1972	2.97	0.15	1.44		
					1973	3.93	0.21	1.87		
					1974	4.45	0.15	1.86		
					1975	3.13	0.12	1.27		
					1976	3.47	0.00	1.63		
					1977	3.63	0.23	1.78		
					1978	3.70	0.56	2.18		
					1979	3.23	0.15	1.53		
					1980	1.31	0.06	0.70		
					1981	3.58	0.30	1.94		
					1982	3.41	0.13	1.54		
					1983	3.87	0.00	1.88		
					1984	4.25	-0.08	1.95		
					1985	3.34	0.34	1.81		
					1986	3.57	0.05	1.63		
					1987	4.50	0.06	1.76		
					1988	4.85	0.00	1.85		
					1989	2.80	0.16	1.56		
					1990	3.34	0.17	1.65	5.05	-0.08
					1991	1.69	0.16	0.87		
					1992	2.90	0.41	1.74		
					1993	3.40	0.10	1.82		
					1994	3.17	0.18	1.61		
					1995	4.12	0.52	2.23		
					1996	3.87	0.37	2.29		
					1997	2.25	0.01	1.02		
					1998	5.05	0.04	2.04		
					1999	3.64	0.40	1.89		
					2000	3.36	0.23	1.74		
					2001	2.95	0.29	1.73		
					2002	3.55	0.10	1.66		
					2003	2.90	0.18	1.28		
					2004	2.08	0.54	1.36		
					2006	2.99	0.32	1.94		
					2007	4.00	0.02	1.83		
					2008	3.68	0.63	1.87		
					2009	3.13	0.55	1.66		
					2010	3.37	0.52	1.85		
					2011	3.52	0.45	1.69		
					2012	2.89	0.22	1.69		
					2013	3.05	0.01	1.64		
					2014	2.92	0.35	1.54		
					2015	3.05	0.42	1.74		
					2016	1.08	0.89	0.96		
					2017	3.97	1.53	2.89		
					2018	2.95	0.28	1.54		
					2019	3.05	0.03	1.41		
					2020	3.78	0.15	1.80		

\* Max in the year 1998

\*Min in the year 1984

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(Utpal Ray)  
Sub-Assistant Engineer  
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**Monthly Total Rain fall Data for CL 409 (1987-2020), Haridaspur, Gopalganj**  
**Gopalganj O&M Division, BWDB, Gopalganj**

Year	January	February	March	April	May	June	July	August	September	October	November	December	Monthly Max	Monthly Min	Yearly Total	Pre.Mon Total	Monsoon Total	Post. Monsoon T.	Dry Total
1987	0.00	2.50	20.30	19.70	114.80	522.70	545.30	464.80	227.60	126.20	12.90	0.00	545.30	0.00	2056.80	154.80	1760.40	139.10	2.50
1988	0.00	51.00	50.00	132.50	272.60	484.90	283.00	191.90	72.40	240.10	141.00	0.00	484.90	0.00	1919.40	455.10	1032.20	381.10	51.00
1989	0.00	12.20	0.00	25.90	260.70	290.60	267.00	163.00	220.90	232.20	1.50	0.00	290.60	0.00	1474.00	286.60	941.50	233.70	12.20
1990	0.00	92.70	200.80	47.20	209.80	213.20	651.80	340.40	317.20	12.70	85.50	0.90	651.80	0.00	2172.20	457.80	1522.60	98.20	93.60
1991	45.00	37.00	91.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.00	0.00	173.00	91.00	0.00	0.00	82.00
1992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	0.00	0.00	0.00	186.50	287.80	340.70	263.50	433.30	339.30	109.70	32.70	0.00	433.30	0.00	1993.50	474.30	1376.80	142.40	0.00
1994	2.00	18.50	62.70	105.30	228.50	303.70	178.30	236.00	161.50	205.20	17.50	0.00	303.70	0.00	1519.20	396.50	879.50	222.70	20.50
1995	5.50	61.50	0.00	43.00	158.00	323.50	330.00	280.50	112.50	65.00	159.50	0.00	330.00	0.00	1539.00	201.00	1046.50	224.50	67.00
1996	8.50	11.50	33.00	140.50	92.00	411.00	193.00	258.50	103.00	226.50	31.00	0.00	411.00	0.00	1508.50	265.50	965.50	257.50	20.00
1997	6.00	20.00	63.00	156.50	118.00	316.50	309.50	326.50	431.00	26.50	8.00	24.50	431.00	6.00	1806.00	337.50	1383.50	34.50	50.50
1998	32.50	24.00	200.00	184.00	218.50	189.00	252.50	359.50	186.00	191.00	112.50	0.00	359.50	0.00	1949.50	602.50	987.00	303.50	56.50
1999	0.00	0.00	0.00	44.00	202.00	159.50	607.50	609.50	350.00	287.50	13.80	0.00	609.50	0.00	2273.80	246.00	1726.50	301.30	0.00
2000	0.00	0.00	127.50	207.50	213.00	254.00	385.00	288.90	275.50	0.00	0.00	0.00	385.00	0.00	1851.40	435.00	1140.90	275.50	0.00
2001	0.00	32.00	25.00	22.00	314.00	499.10	324.20	140.00	36.30	225.00	28.00	0.00	499.10	0.00	1645.60	361.00	999.60	253.00	32.00
2002	8.00	0.00	45.00	102.00	450.00	609.40	314.00	493.00	253.00	7.00	186.00	0.00	609.40	0.00	2467.40	597.00	1669.40	193.00	8.00
2003	0.00	8.00	78.00	95.40	28.00	258.00	0.00	258.00	177.00	110.00	257.00	21.00	258.00	0.00	1290.40	201.40	693.00	367.00	29.00
2004	0.00	2.00	85.00	135.20	349.90	146.20	261.30	817.00	195.00	0.00	0.00	817.00	0.00	1991.60	222.20	1574.40	195.00	0.00	
2005	0.00	15.00	92.00	23.00	176.30	116.20	517.20	120.00	70.00	447.00	0.00	0.00	517.20	0.00	1576.70	291.30	823.40	447.00	15.00
2006	0.00	0.00	20.00	0.00	150.00	323.00	280.00	774.00	0.00	0.00	0.00	0.00	774.00	0.00	1547.00	20.00	1527.00	0.00	0.00
2007	0.00	100.00	0.00	0.00	85.00	310.00	517.00	29.00	351.00	303.00	147.00	0.00	517.00	0.00	2103.00	85.00	1468.00	450.00	100.00
2008	57.00	12.00	22.00	15.00	228.00	243.00	553.00	238.00	304.00	354.00	0.00	0.00	553.00	0.00	2026.00	265.00	1338.00	354.00	69.00
2009	0.00	0.00	10.00	20.00	112.00	118.00	293.00	379.00	206.00	244.00	0.00	0.00	379.00	0.00	1382.00	142.00	996.00	244.00	0.00
2010	0.00	0.00	0.00	5.00	144.00	330.00	218.00	69.00	78.00	172.00	0.00	3.00	330.00	0.00	1019.00	149.00	695.00	172.00	3.00
2011	0.00	0.00	16.00	39.00	98.00	555.00	220.00	456.70	58.00	0.00	0.00	0.00	555.00	0.00	1442.70	153.00	1289.70	0.00	0.00
2012	0.00	0.00	67.00	138.00	217.00	312.00	284.00	267.00	76.00	92.00	0.00	0.00	312.00	0.00	1453.00	205.00	1080.00	168.00	0.00
2013	0.00	7.00	14.00	40.00	266.00	78.00	295.00	491.00	171.00	430.00	0.00	0.00	491.00	0.00	1792.00	142.00	996.00	430.00	7.00
2014	0.00	18.00	40.00	0.00	133.00	621.00	414.00	210.00	252.00	10.00	0.00	9.00	621.00	0.00	1707.00	173.00	1497.00	10.00	27.00
2015	0.00	37.00	166.00	0.00	201.00	465.00	353.00	242.00	0.00	0.00	0.00	0.00	465.00	0.00	1464.00	203.00	1261.00	0.00	0.00
2016	0.00	7.00	0.00	351.00	458.00	634.00	268.00	59.00	43.00	0.00	0.00	0.00	634.00	0.00	1820.00	351.00	1419.00	43.00	7.00
2017	0.00	11.00	64.00	168.00	247.00	769.00	425.00	192.00	265.00	0.00	0.00	0.00	769.00	0.00	2141.00	243.00	1633.00	265.00	0.00
2018	0.00	0.00	218.00	331.00	322.00	102.00	118.00	8.00	0.00	0.00	0.00	0.00	333.00	0.00	1432.00	549.00	875.00	8.00	0.00
2019	0.00	257.00	0.00	171.00	168.00	213.00	541.00	317.00	231.00	266.00	137.00	0.00	541.00	0.00	2301.00	339.00	1302.00	403.00	257.00
2020	20.00	0.00	120.00	306.00	307.00	377.00	204.00	377.00	0.00	0.00	0.00	0.00	377.00	0.00	1334.00	426.00	888.00	0.00	20.00

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*S M Rajesh Jammil*

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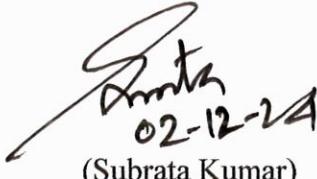
*Subrata Kumar Ray*

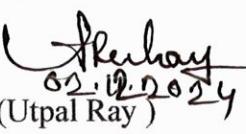
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 A.C.  
 Tungipara WD Sub-Division  
 BWDB, Tungipara, Gopalganj.

**Rainfall Data of CL409, Haridaspur  
Gopalganj O&M Division, BWDB, Gopalganj**

District	UZ Name	Station Name	Station_ID	Year	Yearly Max. Rainfall (mm)
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2001	92
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2002	230
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2003	148
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2004	320
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2005	225
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2006	287
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2007	120
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2008	146
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2009	105
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2010	90
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2011	105
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2012	107
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2013	100
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2014	90
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2015	96
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2016	198
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2017	110
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2018	98
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2019	110
Gopalganj	Gopalganj Sadar	Haridaspur	CL409	2020	71

  
(S. M. Refat Jamil )  
Executive Engineer  
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02-12-24  
(Subrata Kumar)  
Sub Divisional Engineer (A.C)  
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02-12-24  
(Utpal Ray )  
Sub-Assistant Engineer  
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BWDB,Tungipara, Gopalganj .

② PD, CRISP-WRD re: memo: PD/Pmo/246 dt: 05.12.29



## BANGLADESH WATER DEVELOPMENT BOARD

### Design Data

For

**Re-excavation of Chowdhuri Bazar-Sonatia Khal from Km. 0.000 to Km. 2.202 = 2.202 Km in Salta-Bagda Sub Project in c/w “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.**

**Name of Sub-Division : Tungipara WD Sub-Division, BWDB, Gopalganj.**

**Name of Division : Gopalganj WD Division, BWDB, Gopalganj.**

**Name of Circle : Faridpur WD Circle, BWDB, Faridpur.**

**Name of Zone : Western Zone, BWDB, Faridpur.**

## কারিগরী প্রতিবেদন

১. কাজের নাম :- Re-excavation of Chowdhuri Bazar-Sonatia Khal from Km. 0.000 to Km. 2.202 = 2.202 Km in Salta-Bagda Sub Project in c/w “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.
২. প্রকল্পের নাম :- “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District”
৩. কাজের অবস্থান :- গোপালগঞ্জ জেলাধীন কোটালীপাড়া উপজেলা।
৪. কাজের প্রয়োজনীয়তা :- সাতলা-বাগদা বন্যা নিয়ন্ত্রণ, নিষ্কাশন ও সেচ প্রকল্পটি বাংলাদেশ পানি উন্নয়ন বোর্ড এর একটি সমাপ্ত প্রকল্প। প্রকল্পের পোক্তার নং-০১ এর প্রস এরিয়া ১৪৮১৮ হেক্টর এবং নীট এরিয়া ১১০৯৩ হেক্টর। সাতলা-বাগদা পোক্তার নং-০১ আশির দশকে প্রকল্পটি সমাপ্ত হয়। উক্ত প্রকল্পের পোক্তারের অভ্যন্তরে হাইড্রোলিক স্ট্রাকচার ও অনেক গুলো খাল বিদ্যমান রয়েছে। উক্ত খালের পানি দ্বারা শুক মৌসুমে সেচ কার্যক্রম এবং বর্ষা মৌসুমে পানি নিষ্কাশন হয়ে থাকে। ফলে অধিক ফসল উৎপাদন করার লক্ষ্যে ও পোক্তারের অভ্যন্তরে বসবাসরত যাওয়ায় সেচ কার্যক্রম বাধ্যতামূলক হওয়া সহ বর্ষা মৌসুমে জলাবদ্ধতা সৃষ্টি হচ্ছে। স্থানীয় জনগন ও জনপ্রতিনিধীদের চাহিদার প্রেক্ষিতে উপরে বর্ণিত সমস্যার সমাধান কল্পে “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” প্রকল্পের আওতায় বর্ণিত খালগুলি পুনঃখনন কাজ বাস্তবায়নের জন্য নকশা প্রনয়নের নিমিত্তে প্রয়োজনীয় তথ্য উপাত্ত অঙ্গসাথে সন্তুষ্টিপূর্ণভাবে প্রস্তুত করা হলো।
৫. প্রয়োজনীয় তথ্যাদি :- বর্ণিত স্থানের প্রয়োজনীয় খালের Cross Section, Long Section, Index Map, Out-fall Height & Lowest Water Level, Data Check List, Rain Fall Data List & Polder Map ইত্যাদি যথাযথভাবে প্রক্রিয়াকরণ পূর্বক ডিজাইন প্রণয়নের লক্ষ্যে এতদসঙ্গে প্রেরণ করা হলো।
৬. কাজ বাস্তবায়নের খাত :- বর্ণিত খাল গুলির পুনঃখনন কাজ “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” শীর্ষক প্রকল্পে অন্তর্ভুক্ত রয়েছে। এ প্রকল্পের মাধ্যমে ব্যয় নির্বাহ করা হবে।

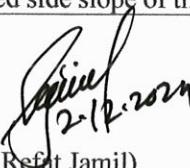
(এস. এম. রেফাত জামিল)  
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গোপালগঞ্জ পানি উন্নয়ন বিভাগ  
বাপাউবো, গোপালগঞ্জ।

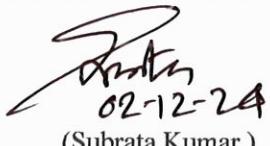
(সুব্রত কুমার)  
উপ-বিভাগীয় প্রকৌশলী  
টুঙিপাড়া পানি উন্নয়ন উপ-বিভাগ  
বাপাউবো, গোপালগঞ্জ।

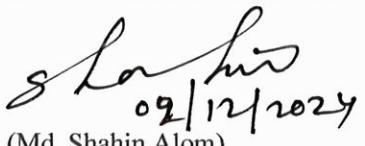
(মো: শাহিন আলম)  
উপ-সহকারী প্রকৌশলী  
টুঙিপাড়া পানি উন্নয়ন শাখা  
বাপাউবো, গোপালগঞ্জ।

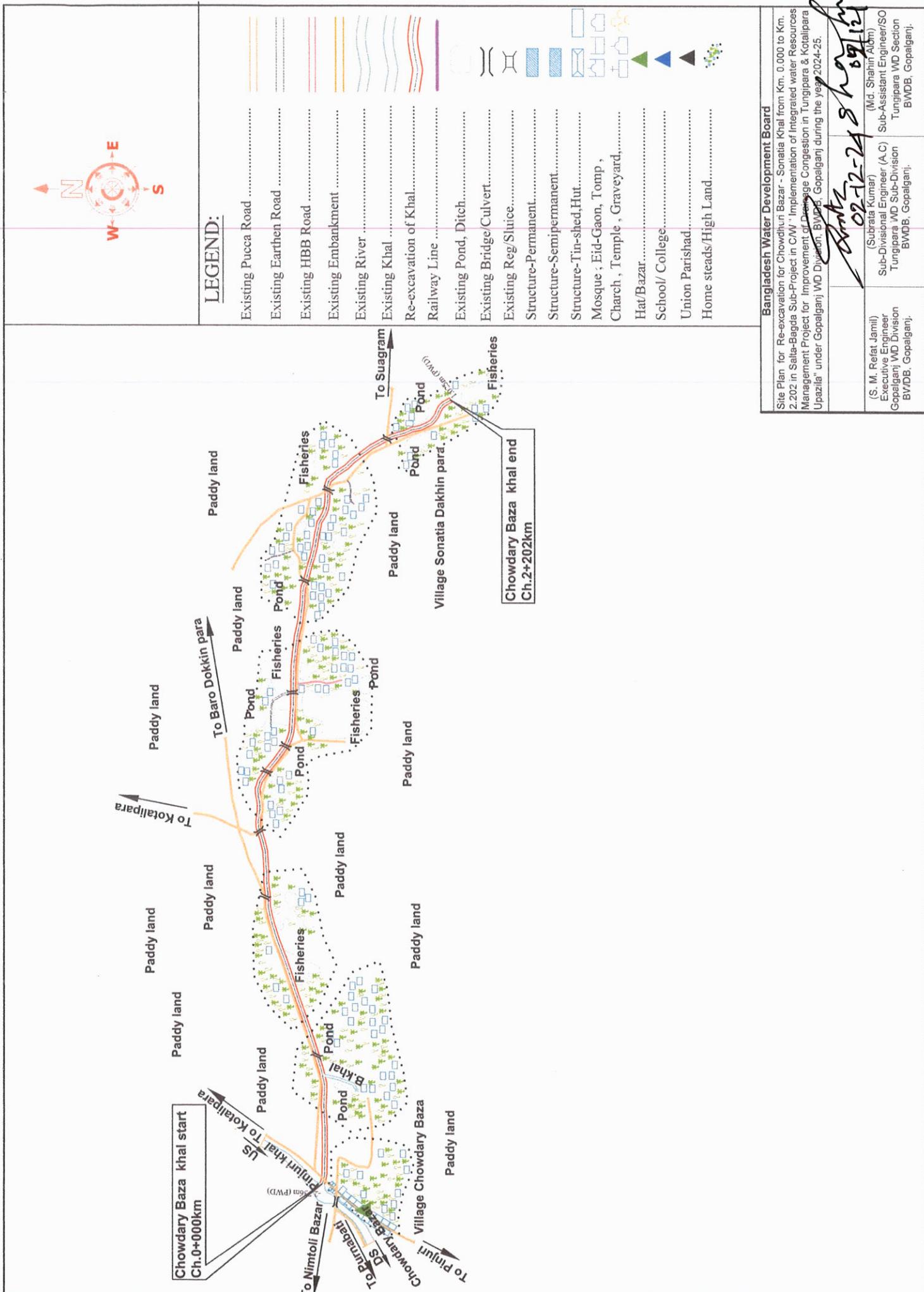
## Data Check List

1.	Name of the Project	:	Re-excavation of Chowdhuri Bazar-Sonatia Khal from Km. 0.000 to Km. 2.202 = 2.202 Km in Salta-Bagda Sub Project in c/w "Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District" under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.
2.	Name of the proposed khal	:	Chowdhuri Bazar-Sonatia Khal
3.	Length of the proposed khal	:	2.202 Km.
4.	Location of the proposed khal.	:	Upazila-Kotalipara, District- Gopalganj.
5.	Name of the off-Take	:	Pinjuri Khal
6.	Name of the out fall	:	Pinjuri Khal
7.	Cross section of khal	:	Enclosed.
8.	Long section of khal	:	Enclosed.
9.	Site plan of the proposed khal (Showing drainage network)	:	Enclosed.
10.	Index map	:	Enclosed.
11.	L W L of the out fall. Bed level of the out fall	:	(+) 0.550 m PWD (-) 2.736 m PWD (at present).
12.	X-Section of the out fall	:	Enclosed.
13.	Bank line demarcation	:	Bank line of the proposed khal shown in the x-section of the proposed khal which will not be extended because besides the bank line area is public land.
14.	Catchments area of the proposed khal	:	420.00 hectare. (Approximately).
15.	a) Water level data for last 20 years of nearby gauge station b) No of gauge station c) Name of the river d) Name of gauge station	:	Enclosed.  SW -198. Madaripur Beel Route (MBR) Channel Haridaspur.
16.	a) Rainfall data for last 20 years. b) Station ID c) Station name d) District	:	Enclosed. CL- 409 Haridaspur. Gopalganj.
17.	Structural information :- a) Sluice gate (if any)  b) Bridge/Culvert (if any)	:	a)Bridge (12.00 m x 4.80 m Location: Ch. Km 0.000 Top Level = (+) 4.173 mPWD Bottom Level = (-) 0.580m PWD
18.	Depth of water have to be maintain during dry season in the Khal	:	1.50 m (Minimum)
19.	Proposed bed width of the khal	:	4.00 m avg.
20.	Proposed bed level of the khal	:	(-) 1.50 m
21.	Proposed side slope of the khal	:	1:1.5

  
 (S. M. Refat Jamil)  
 Executive Engineer  
 Gopalganj WD Division  
 BWDB, Gopalganj.

  
 (Subrata Kumar)  
 Sub-Divisional Engineer (A.C.)  
 Tungipara WD Sub-Division  
 BWDB, Gopalganj.

  
 (Md. Shahin Alom)  
 Sub-Assistant Engineer/SO  
 Tungipara WD Section  
 BWDB, Tungipara, Gopalganj.



**Bangladesh Water Development Board**

Site Plan for Re-excavation for Chowdhuri Bazar - Sonatia Khal from Km. 0.000 to Km. 2.202 in Salta-Bagda Sub-Project in CNV 'Implementation of Integrated Water Resources Management Project for Improvement of drainage congestion in Tungipara & Kotalipara Upazila' under Gopalganj WD Division, BWDB, Gopalganj during the Year 2024-25.

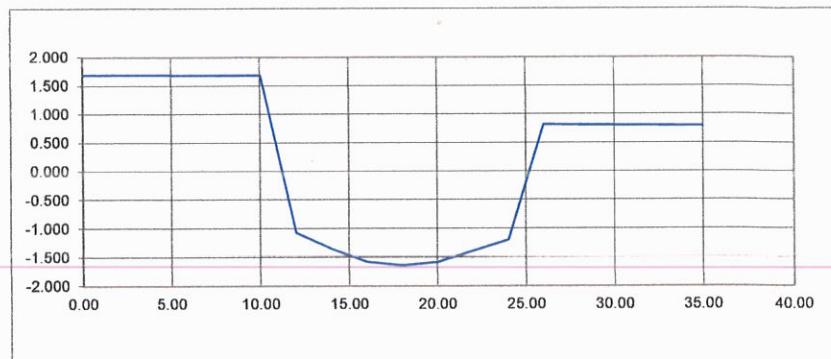
*Borth 24 Shorb 12 2024*

(S. M. Refat Jamil) Executive Engineer Gopalganj WD Division BWDB, Gopalganj.	(Subrata Kumar) Sub-Divisional Engineer (A.C) Tungipara WD Sub-Division BWDB, Gopalganj.	(Md. Shahin Alom) Sub-Assistant Engineer/ISO
		Tungipara WD Section BWDB, Gopalganj.

**Cross Section re-excavation of Chowdhury Bazar-Sonatia khal from Km. 0.000 to Km. 2.202**

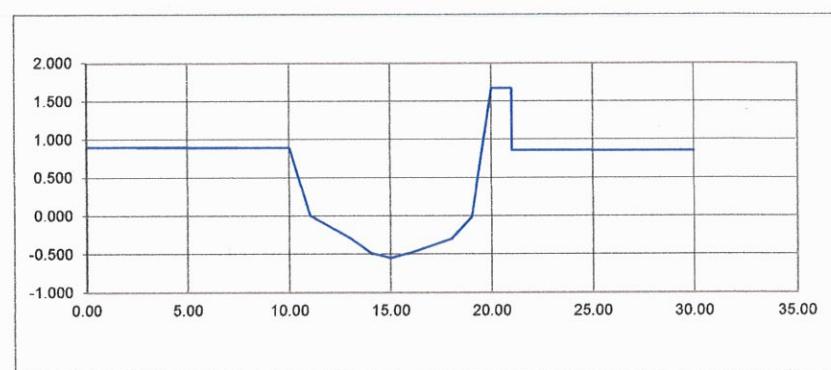
X - Section at km. 0.000  
Pre-work

0.00	1.694	Khal bank
5.00	1.689	
10.00	1.684	LB
12.00	-1.066	
14.00	-1.347	
16.00	-1.571	
18.00	-1.636	CL
20.00	-1.580	
22.00	-1.380	
24.00	-1.191	
26.00	0.824	RB
28.00	0.814	
30.00	0.809	
35.00	0.799	Khal bank



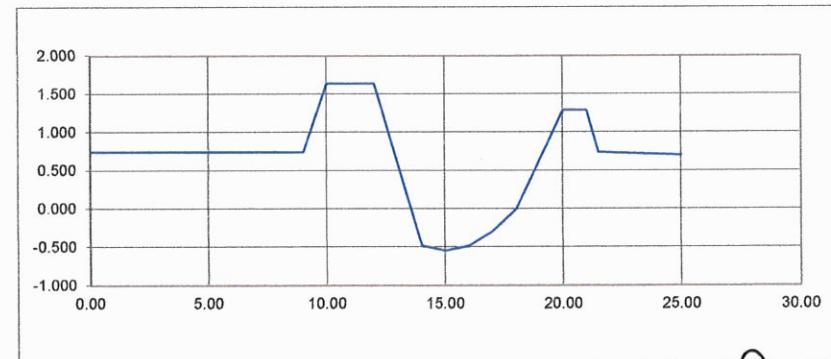
X - Section at km. 0.100  
Pre-work

0.00	0.906	Paddy land
5.00	0.901	
10.00	0.896	LB
11.00	0.011	
13.00	-0.289	
14.00	-0.476	
15.00	-0.543	CL
16.00	-0.474	
18.00	-0.294	
19.00	-0.009	
20.00	1.675	RB
21.00	1.674	
21.00	0.866	
25.00	0.861	
30.00	0.858	Paddy land



X - Section at km. 0.200  
Pre-work

0.00	0.748	Paddy land
8.00	0.743	
9.00	0.742	
10.00	1.637	LB
12.00	1.642	
14.00	-0.475	
15.00	-0.543	CL
16.00	-0.478	
17.00	-0.292	
18.00	-0.007	
20.00	1.293	RB
21.00	1.288	
21.50	0.742	
25.00	0.703	Open land

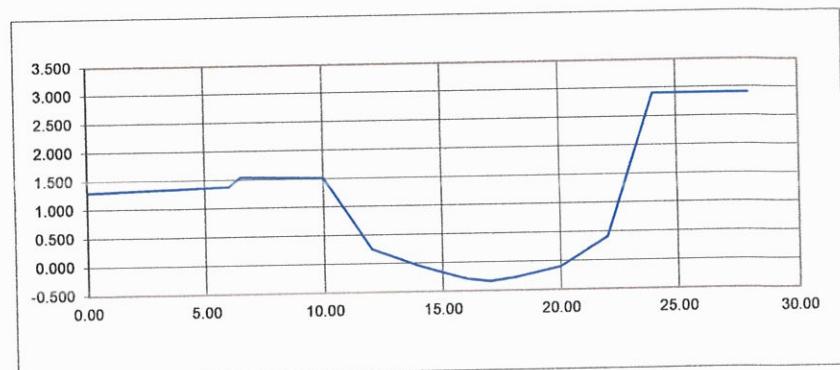


*R* *S*

X - Section at km. 0.300

Pre-work

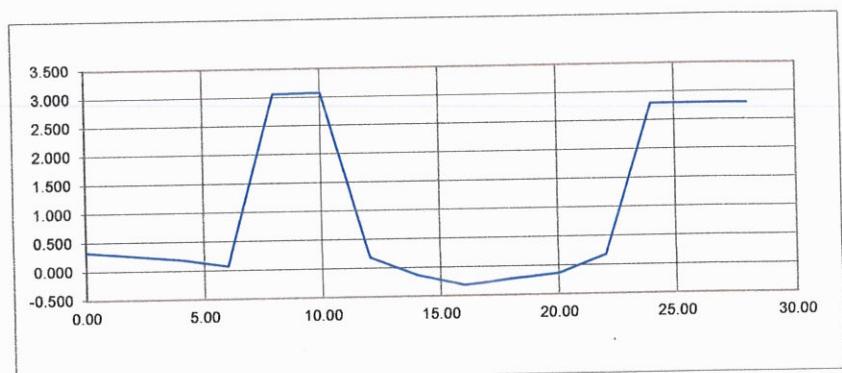
0.00	1.306	Open land
6.00	1.386	
6.50	1.551	
10.00	1.516	LB
12.00	0.255	
14.00	-0.045	
16.00	-0.284	
17.00	-0.334	CL
18.00	-0.278	
20.00	-0.094	
22.00	0.416	
24.00	2.915	RB
28.00	2.911	Bc road



X - Section at km. 0.400

Pre-work

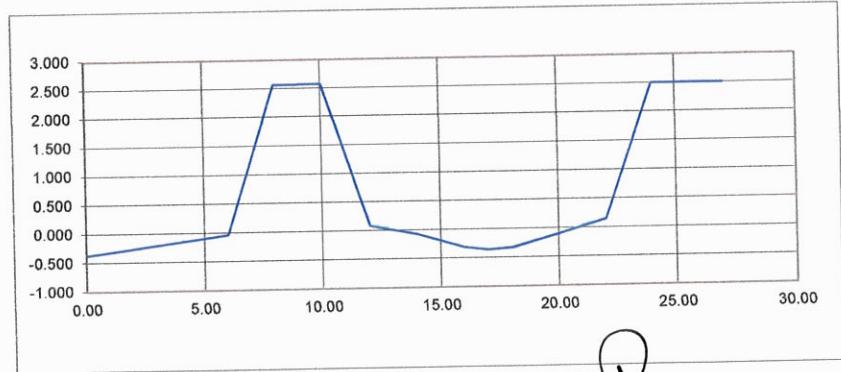
0.00	0.336	Pond
4.00	0.196	
6.00	0.079	
8.00	3.064	
10.00	3.079	LB
12.00	0.189	
14.00	-0.131	
16.00	-0.313	
17.00	-0.271	CL
18.00	-0.215	
20.00	-0.131	
22.00	0.185	
24.00	2.803	RB
28.00	2.799	Bc road



X - Section at km. 0.500

Pre-work

0.00	-0.367	Pond
6.00	-0.036	
8.00	2.569	
10.00	2.579	LB
12.00	0.084	
14.00	-0.067	
16.00	-0.306	
17.00	-0.354	CL
18.00	-0.322	
20.00	-0.100	
22.00	0.149	
24.00	2.504	RB
27.00	2.502	Bc road

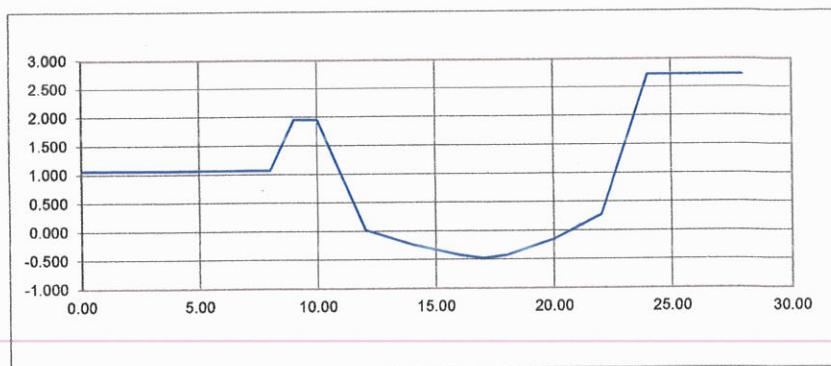


*R* *S*

X - Section at km. 0.600

Pre-work

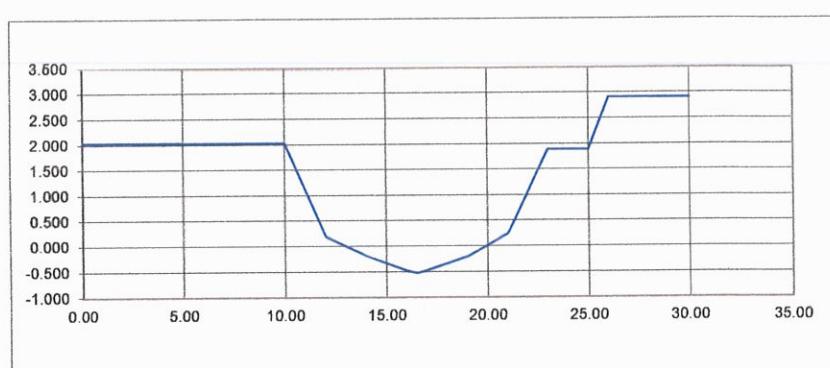
0.00	1.067	Paddy land
5.00	1.072	
8.00	1.077	
9.00	1.956	
10.00	1.957	LB
12.00	0.027	
14.00	-0.233	
16.00	-0.416	
17.00	-0.473	CL
18.00	-0.419	
20.00	-0.143	
22.00	0.281	
24.00	2.732	RB
28.00	2.727	Bc road



X - Section at km. 0.700

Pre-work

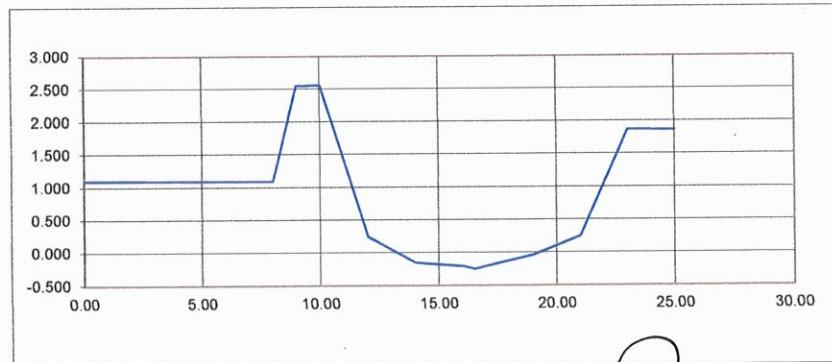
0.00	2.044	Pond bank
5.00	2.037	
10.00	2.032	LB
12.00	0.194	
14.00	-0.182	
16.00	-0.473	
16.50	-0.518	CL
17.00	-0.463	
19.00	-0.198	
21.00	0.247	
23.00	1.902	RB
25.00	1.897	
26.00	2.922	
30.00	2.912	Bc road

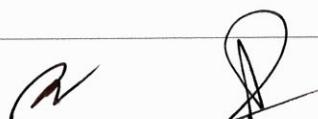


X - Section at km. 0.800

Pre-work

0.00	1.105	Paddy land
8.00	1.097	
9.00	2.553	
10.00	2.563	LB
12.00	0.248	
14.00	-0.147	
16.00	-0.202	
16.50	-0.247	CL
17.00	-0.198	
19.00	-0.031	
21.00	0.253	
23.00	1.873	RB
25.00	1.868	House area

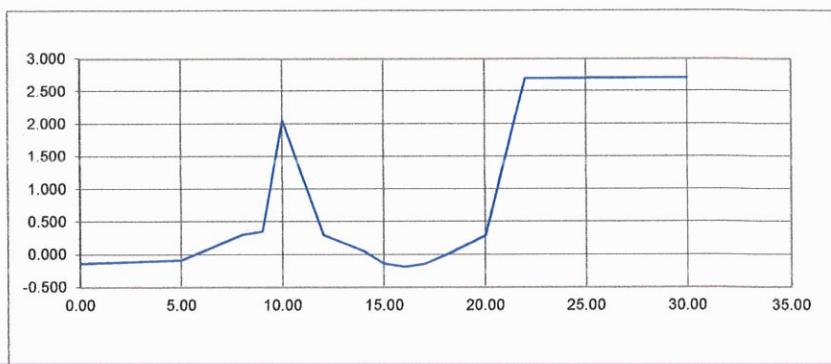




X - Section at km. 0.900

Pre-work

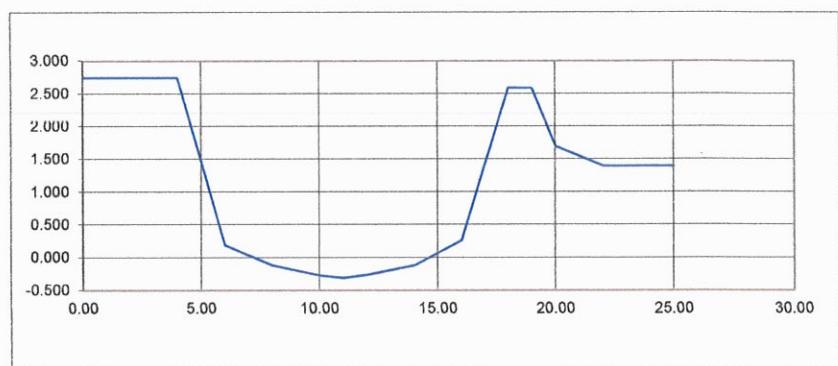
0.00	-0.133	House
5.00	-0.083	LB
8.00	0.307	
9.00	0.356	
10.00	2.057	
12.00	0.302	CL
14.00	0.056	
15.00	-0.134	
16.00	-0.183	
17.00	-0.139	RB
18.00	-0.007	
20.00	0.290	
22.00	2.702	
25.00	2.707	Ditch
30.00	2.712	



X - Section at km. 1.000

Pre-work

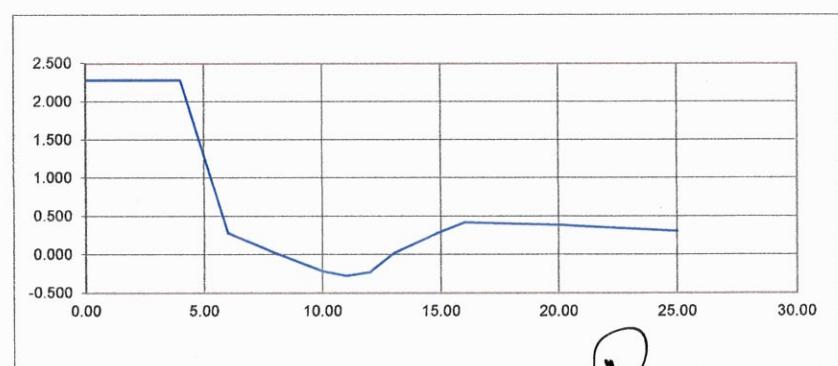
0.00	2.746	Bc road
4.00	2.745	LB
6.00	0.191	
8.00	-0.114	
10.00	-0.269	
11.00	-0.309	CL
12.00	-0.260	
14.00	-0.115	
16.00	0.266	
18.00	2.591	RB
19.00	2.586	
20.00	1.701	
22.00	1.401	
25.00	1.396	Paddy land



X - Section at km. 1.100

Pre-work

0.00	2.284	Bc road
4.00	2.287	LB
6.00	0.285	
8.00	0.026	
10.00	-0.212	
11.00	-0.270	CL
12.00	-0.220	
13.00	0.026	
15.00	0.305	
16.00	0.425	RB
20.00	0.390	
25.00	0.310	Low land



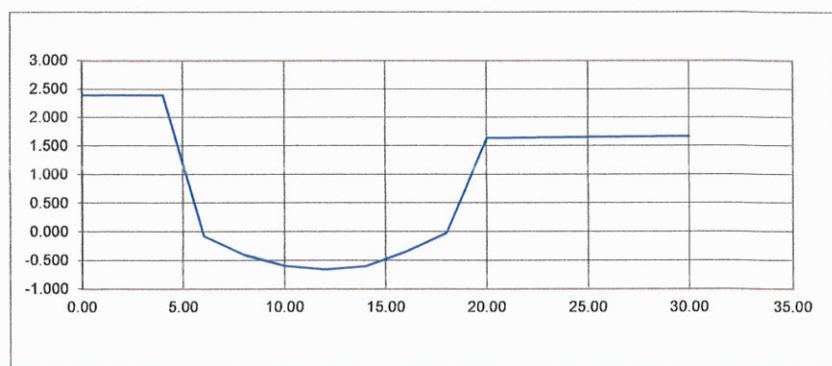
R

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X - Section at km. 1.200

Pre-work

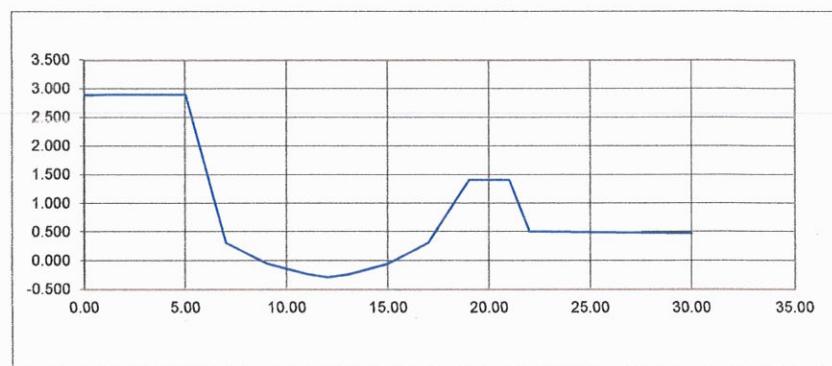
0.00	2.401	Bc road
4.00	2.396	LB
6.00	-0.071	
8.00	-0.400	
10.00	-0.591	
12.00	-0.652	CL
14.00	-0.597	
16.00	-0.341	
18.00	-0.016	
20.00	1.644	RB
25.00	1.664	
30.00	1.679	Bc road



X - Section at km. 1.300

Pre-work

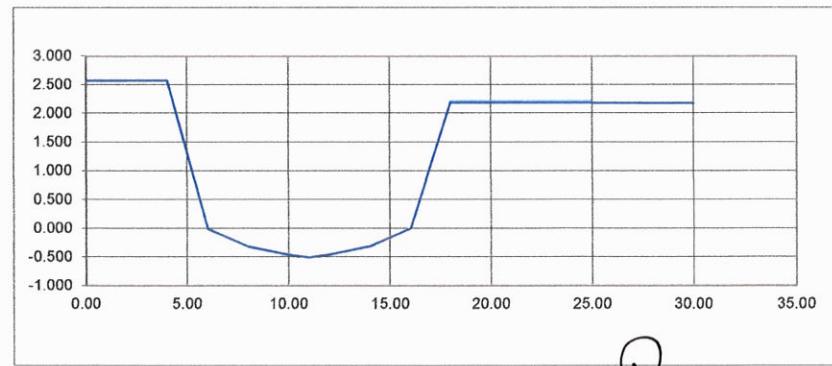
0.00	2.896	House
1.00	2.901	Bc road
5.00	2.906	LB
7.00	0.316	
9.00	-0.039	
11.00	-0.229	
12.00	-0.284	CL
13.00	-0.235	
15.00	-0.045	
17.00	0.322	
19.00	1.416	RB
21.00	1.411	
22.00	0.516	
25.00	0.501	
30.00	0.481	Low land



X - Section at km. 1.400

Pre-work

0.00	2.577	
4.00	2.582	LB
6.00	-0.008	
8.00	-0.313	
10.00	-0.458	
11.00	-0.503	
12.00	-0.454	
14.00	-0.308	CL
16.00	0.003	
18.00	2.197	RB
25.00	2.192	
30.00	2.182	Pond bank

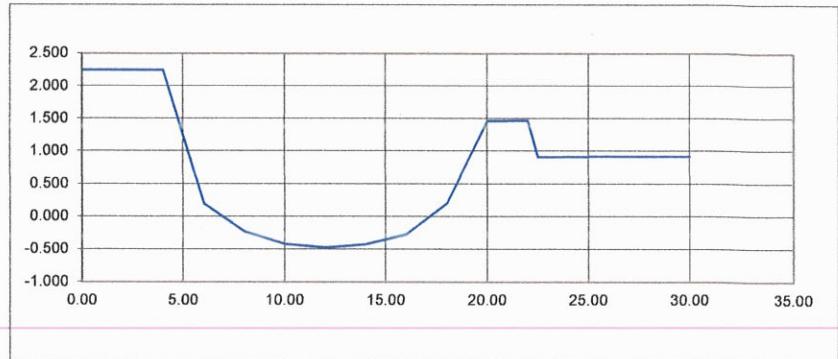


R  
S

X - Section at km. 1.500

Pre-work

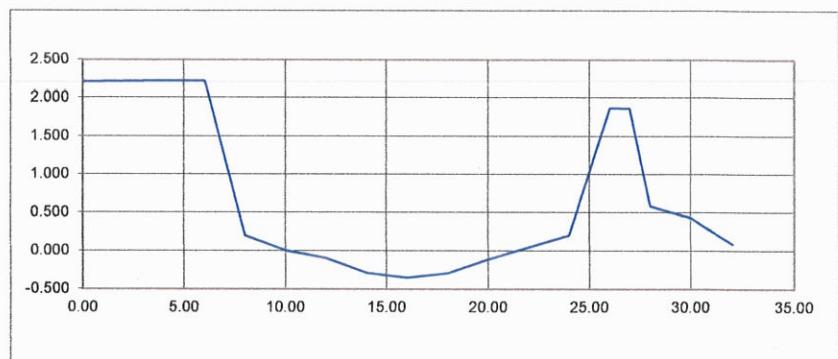
0.00	2.248	Bc roadf
4.00	2.252	LB
6.00	0.202	
8.00	-0.225	
10.00	-0.414	
12.00	-0.469	CL
14.00	-0.419	
16.00	-0.269	
18.00	0.209	
20.00	1.466	RB
22.00	1.476	
22.50	0.916	
25.00	0.921	
30.00	0.926	Paddy land



X - Section at km. 1.600

Pre-work

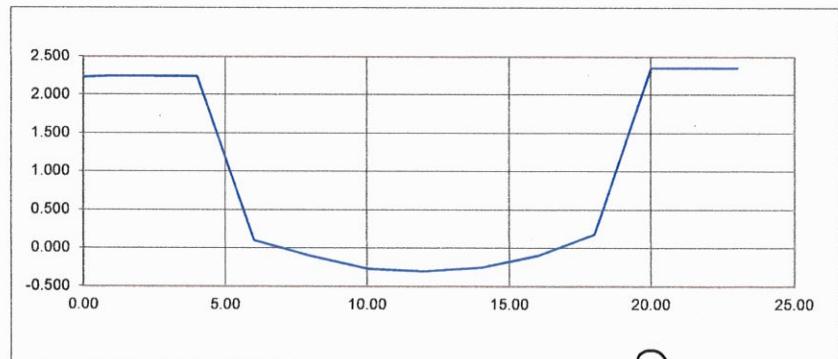
0.00	2.216	B.Wall
3.00	2.226	HBB road
6.00	2.227	LB
8.00	0.201	
10.00	0.007	
12.00	-0.093	
14.00	-0.284	
16.00	-0.349	CL
18.00	-0.290	
20.00	-0.104	
22.00	0.051	
24.00	0.207	
26.00	1.871	RB
27.00	1.866	
28.00	0.591	
30.00	0.436	
32.00	0.091	Pond



X - Section at km. 1.700

Pre-work

0.00	2.235	House
1.00	2.250	HBB road
4.00	2.244	LB
6.00	0.105	
8.00	-0.100	
10.00	-0.265	
12.00	-0.300	CL
14.00	-0.251	
16.00	-0.095	
18.00	0.180	
20.00	2.355	RB
23.00	2.359	House

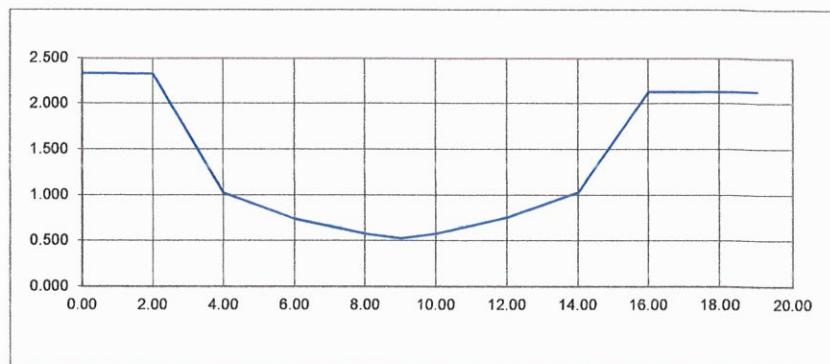


R  
S

X - Section at km. 1.800

Pre-work

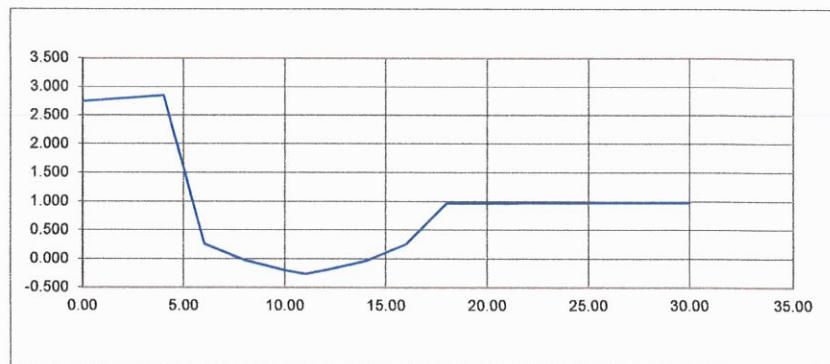
0.00	2.338	House
2.00	2.333	LB
4.00	1.027	
6.00	0.743	
8.00	0.583	
9.00	0.533	CL
10.00	0.582	
12.00	0.760	
14.00	1.033	
16.00	2.132	RB
19.00	2.138	House



X - Section at km. 1.900

Pre-work

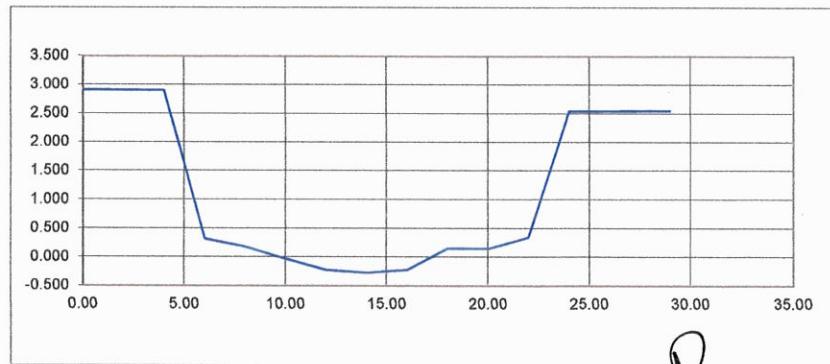
0.00	2.750	Bc road
4.00	2.854	LB
6.00	0.270	
8.00	-0.016	
10.00	-0.195	
11.00	-0.260	CL
12.00	-0.190	
14.00	-0.030	
16.00	0.265	
18.00	0.975	RB
25.00	0.980	
30.00	0.985	Paddy land



X - Section at km. 2.000

Pre-work

0.00	2.917	HBB road
4.00	2.906	LB
6.00	0.320	
8.00	0.180	
10.00	-0.026	
12.00	-0.220	
14.00	-0.270	CL
16.00	-0.216	
18.00	0.159	
20.00	0.150	
22.00	0.345	
24.00	2.545	RB
29.00	2.555	House

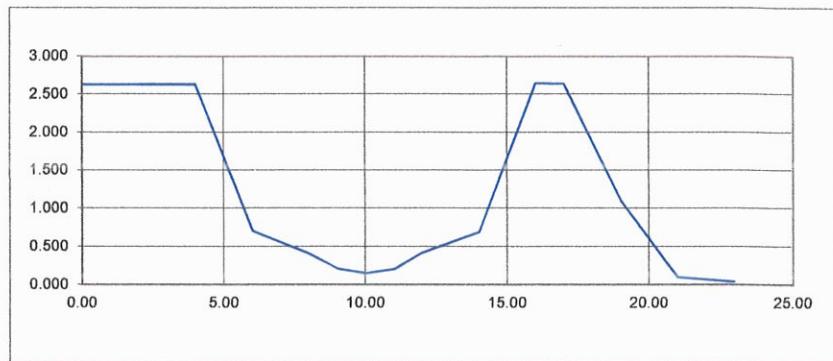


R

S

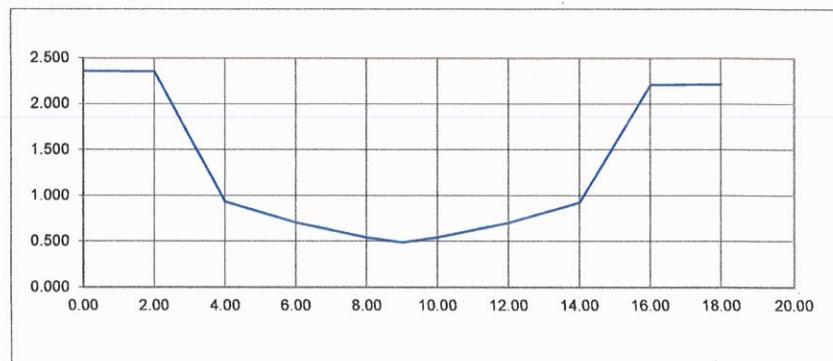
X - Section at km. 2.100

Pre-work		
0.00	2.633	Bc road
4.00	2.637	LB
6.00	0.709	
8.00	0.409	
9.00	0.215	
10.00	0.153	CL
11.00	0.209	
12.00	0.423	
14.00	0.693	
16.00	2.648	RB
17.00	2.643	
19.00	1.103	
21.00	0.103	
23.00	0.042	Pond



X - Section at km. 2.202

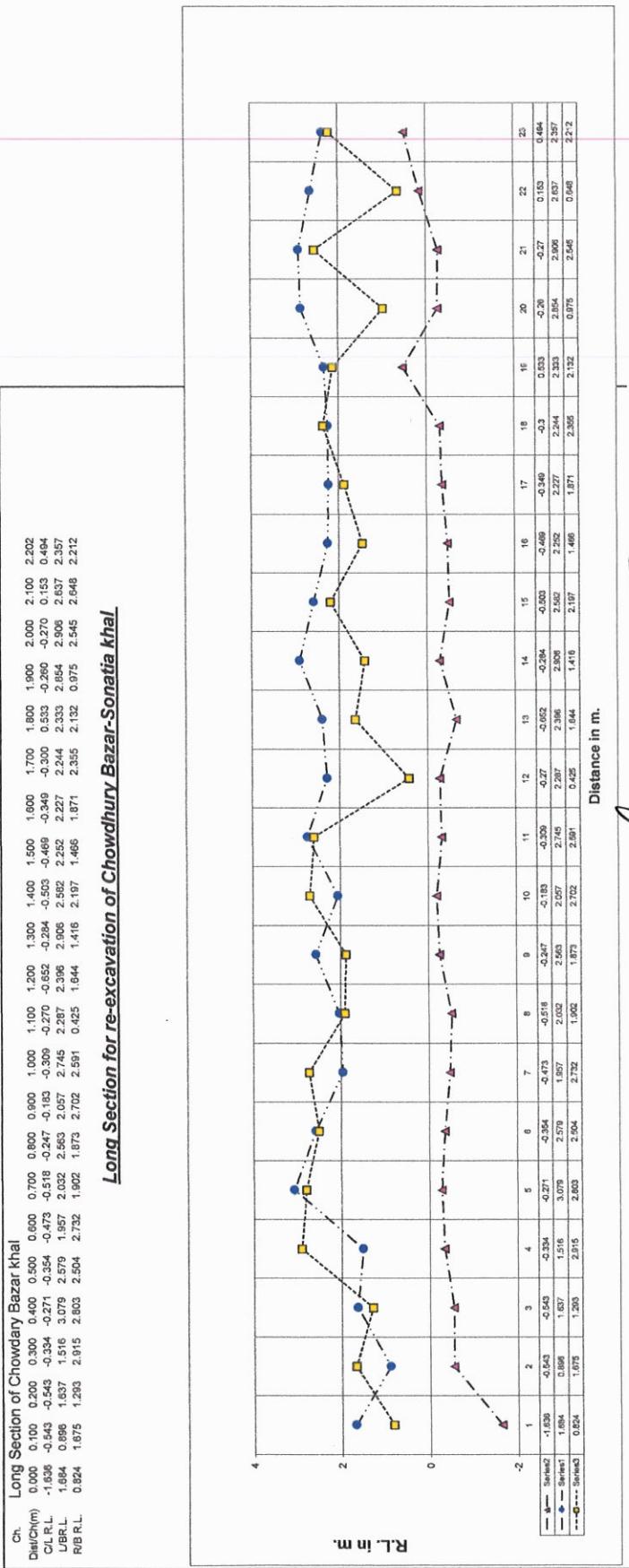
Pre-work		
0.00	2.362	House
2.00	2.357	LB
4.00	0.937	
6.00	0.712	
8.00	0.547	
9.00	0.494	CL
10.00	0.550	
12.00	0.707	
14.00	0.928	
16.00	2.212	RB
18.00	2.217	House



  
(S. M. Rejat Jamil)  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

  
(Subrata Kumar)  
Sub-Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Gopalganj.

  
(Md. Shahin Alom)  
Sub-Assistant Engineer/SO  
Tungipara WD Section  
BWDB, Gopalganj.



*3/09/12/2024*  
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 Sub-Assistant Engineer/SO  
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 BWDB, Gopalganj.

*Subrata Kumar*  
 02-12-24  
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 Sub-Divisional Engineer (A.C.)  
 Tungipara WD Sub-Division  
 BWDB, Gopalganj.

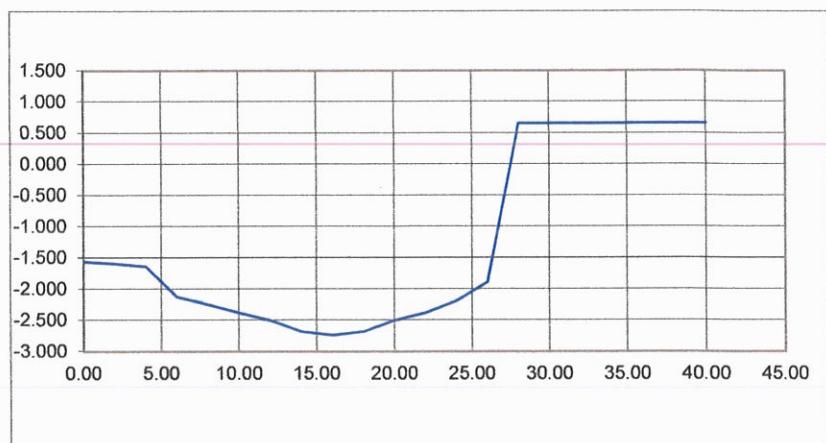
*S. M. Rejib Jamil*  
 02-12-24  
 (S. M. Rejib Jamil)  
 Executive Engineer  
 Gopalganj WD Division  
 BWDB, Gopalganj.

**Cross Section of Out fall khal (Pinjuri khal) for re-excavation of Chowdhury Bazar-Sonatia khal**  
**from Km. 0.000 to Km. 2.202**

Cross section of Pinjuri khal along the Chowdary Bazar khal

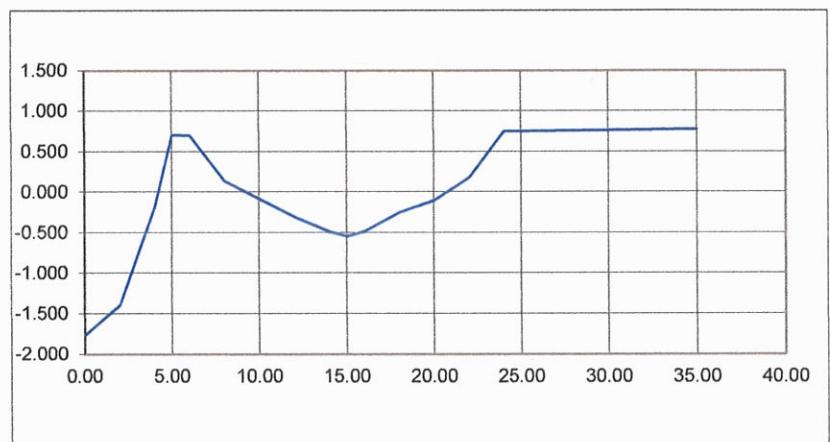
Pre-work

0.00	-1.558	Khal
2.00	-1.591	
4.00	-1.636	LB
6.00	-2.121	
8.00	-2.247	
10.00	-2.380	
12.00	-2.501	
14.00	-2.678	
16.00	-2.736	CL
18.00	-2.677	
20.00	-2.496	
22.00	-2.378	
24.00	-2.186	
26.00	-1.886	
28.00	0.653	RB
35.00	0.659	
40.00	0.665	Open land



Cross section of Pinjuri khal 50 US from meeting point of Chowdary Bazar khal

0.00	-1.761	Ditch
2.00	-1.386	
4.00	-0.186	
5.00	0.709	
6.00	0.704	LB
8.00	0.142	
10.00	-0.080	
12.00	-0.301	
14.00	-0.481	
15.00	-0.541	CL
16.00	-0.480	
18.00	-0.247	
20.00	-0.096	
22.00	0.179	
24.00	0.753	RB
30.00	0.764	
35.00	0.779	Open land

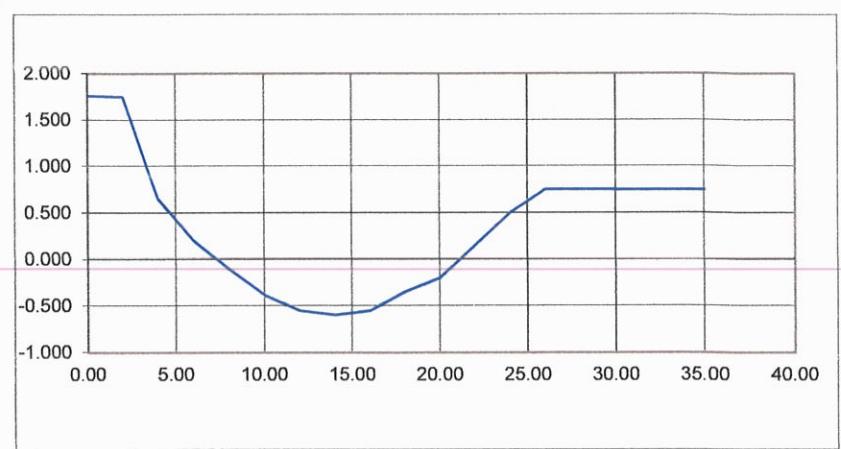


*R* *S*

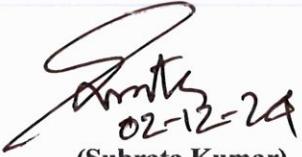
Cross section of Pinjuri khal 50 DS from meeting point of Chowdary Bazar khal

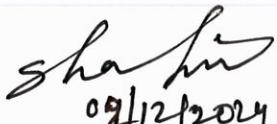
Pre-work

0.00	1.763	Paddy land
2.00	1.753	
4.00	0.653	LB
6.00	0.204	
8.00	-0.101	
10.00	-0.380	
12.00	-0.547	CL
14.00	-0.596	
16.00	-0.551	
18.00	-0.347	
20.00	-0.196	RB
22.00	0.153	Bc road
24.00	0.504	
26.00	0.753	
30.00	0.752	
35.00	0.750	



  
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(Md. Shahin Alom)  
Sub-Assistant Engineer/SO  
Tungipara WD Section  
BWDB, Gopalganj.

Index map for re-excavation of Chowdhuri Bazar-Sonatia Khal from Km. 0.000 to Km. 2.202 Km.



**Monthly Total Rain fall Data for CL 409 (1987-2020), Haridaspur, Gopalganj**  
**Gopalganj O&M Division, BWDB, Gopalganj**

Year	January	February	March	April	May	June	July	August	September	October	November	December	Monthly Max	Monthly Min	Yearly Total	Pre.Monsoon Total	Monsoon Total	Post. Monsoon T.	Dry Total
1987	0.00	2.50	20.30	19.70	114.80	522.70	545.30	464.80	227.60	126.20	12.90	0.00	545.30	0.00	2056.80	154.80	1760.40	139.10	2.50
1988	0.00	51.00	50.00	132.50	272.60	484.90	283.00	191.90	72.40	240.10	141.00	0.00	484.90	0.00	1919.40	455.10	1032.20	381.10	51.00
1989	0.00	12.20	0.00	25.90	260.70	290.60	267.00	163.00	220.90	232.20	1.50	0.00	290.60	0.00	1474.00	286.60	941.50	233.70	12.20
1990	0.00	92.70	200.80	47.20	209.80	213.20	651.80	340.40	317.20	12.70	85.50	0.90	651.80	0.00	2172.20	457.80	1522.60	98.20	93.60
1991	45.00	37.00	91.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.00	0.00	173.00	91.00	0.00	0.00	82.00
1992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	0.00	0.00	0.00	186.50	287.80	340.70	263.50	433.30	339.30	109.70	32.70	0.00	433.30	0.00	1993.50	474.30	1376.80	142.40	0.00
1994	2.00	18.50	62.70	105.30	228.50	303.70	178.30	236.00	161.50	205.20	17.50	0.00	303.70	0.00	1519.20	396.50	879.50	222.70	20.50
1995	5.50	61.50	0.00	43.00	158.00	323.50	330.00	280.50	112.50	65.00	159.50	0.00	330.00	0.00	1539.00	201.00	1046.50	224.50	67.00
1996	8.50	11.50	33.00	140.50	92.00	411.00	193.00	258.50	103.00	226.50	31.00	0.00	411.00	0.00	1508.50	265.50	965.50	257.50	20.00
1997	6.00	20.00	63.00	156.50	118.00	316.50	309.50	326.50	26.50	8.00	24.50	0.00	431.00	6.00	1806.00	337.50	1383.50	34.50	50.50
1998	32.50	24.00	200.00	184.00	218.50	189.00	252.50	359.50	186.00	191.00	112.50	0.00	359.50	0.00	1949.50	602.50	987.00	303.50	56.50
1999	0.00	0.00	0.00	44.00	202.00	159.50	607.50	609.50	350.00	287.50	13.80	0.00	609.50	0.00	2273.80	246.00	1726.50	301.30	0.00
2000	0.00	0.00	0.00	127.50	307.50	213.00	254.00	385.00	288.90	275.50	0.00	0.00	385.00	0.00	1851.40	435.00	1140.90	275.50	0.00
2001	0.00	32.00	25.00	22.00	314.00	499.10	324.20	140.00	36.30	225.00	28.00	0.00	499.10	0.00	1645.60	361.00	999.60	253.00	32.00
2002	8.00	0.00	45.00	102.00	450.00	609.40	314.00	493.00	253.00	7.00	186.00	0.00	609.40	0.00	2467.40	597.00	1669.40	193.00	8.00
2003	0.00	8.00	78.00	95.40	28.00	258.00	0.00	258.00	177.00	110.00	257.00	21.00	258.00	0.00	1290.40	201.40	693.00	367.00	29.00
2004	0.00	0.00	2.00	85.00	135.20	349.90	146.20	261.30	817.00	195.00	0.00	0.00	817.00	0.00	1991.60	222.20	1574.40	195.00	0.00
2005	0.00	15.00	92.00	23.00	176.30	116.20	517.20	120.00	70.00	447.00	0.00	0.00	517.20	0.00	1576.70	291.30	823.40	447.00	15.00
2006	0.00	0.00	20.00	0.00	150.00	323.00	280.00	280.00	774.00	0.00	0.00	0.00	774.00	0.00	1547.00	20.00	1527.00	0.00	0.00
2007	0.00	100.00	0.00	85.00	310.00	517.00	290.00	351.00	303.00	147.00	0.00	517.00	0.00	2103.00	85.00	1468.00	450.00	100.00	
2008	57.00	12.00	22.00	15.00	228.00	243.00	553.00	238.00	304.00	354.00	0.00	0.00	553.00	0.00	2026.00	265.00	1338.00	354.00	69.00
2009	0.00	0.00	10.00	20.00	112.00	118.00	293.00	379.00	206.00	244.00	0.00	0.00	379.00	0.00	1382.00	142.00	996.00	244.00	0.00
2010	0.00	0.00	5.00	144.00	330.00	218.00	69.00	78.00	172.00	0.00	3.00	0.00	330.00	0.00	1019.00	149.00	695.00	172.00	3.00
2011	0.00	16.00	39.00	98.00	555.00	220.00	456.70	58.00	0.00	0.00	555.00	0.00	1442.70	153.00	1289.70	0.00	0.00	0.00	0.00
2012	0.00	0.00	67.00	138.00	217.00	312.00	284.00	267.00	76.00	92.00	0.00	312.00	0.00	1453.00	205.00	1080.00	168.00	0.00	
2013	0.00	7.00	14.00	40.00	266.00	78.00	295.00	491.00	171.00	430.00	0.00	491.00	0.00	1792.00	320.00	1035.00	430.00	7.00	
2014	0.00	18.00	40.00	0.00	133.00	621.00	414.00	210.00	252.00	10.00	0.00	621.00	0.00	1707.00	173.00	1497.00	10.00	27.00	
2015	0.00	37.00	166.00	0.00	201.00	465.00	353.00	242.00	0.00	0.00	465.00	0.00	1464.00	203.00	1261.00	0.00	0.00	0.00	0.00
2016	0.00	7.00	0.00	351.00	458.00	634.00	268.00	59.00	43.00	0.00	634.00	0.00	1820.00	351.00	1419.00	43.00	7.00	0.00	0.00
2017	0.00	11.00	64.00	168.00	247.00	769.00	425.00	192.00	265.00	0.00	769.00	0.00	2141.00	243.00	1633.00	265.00	0.00	0.00	0.00
2018	0.00	0.00	218.00	331.00	322.00	102.00	118.00	8.00	0.00	0.00	333.00	0.00	1432.00	549.00	875.00	8.00	0.00	0.00	0.00
2019	0.00	257.00	0.00	171.00	168.00	213.00	541.00	317.00	231.00	266.00	137.00	0.00	541.00	0.00	2301.00	339.00	1302.00	403.00	257.00
2020	20.00	0.00	120.00	306.00	307.00	377.00	204.00	377.00	0.00	0.00	1334.00	0.00	426.00	888.00	0.00	888.00	0.00	20.00	0.00

(Md. Shahin Alom)

Sub-Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
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BWDB, Gopalganj.

(Subrata Kumar)

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BWDB, Gopalganj.

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Sub-Assistant Engineer/SO  
Tungipara WD Section  
BWDB, Gopalganj.

**Water Level Data of SW 198, Haridaspur, Madaripur Beel Route Channel  
Gopalganj O&M Division, BWDB, Gopalganj.**

District Name	Upazila_Name	River Name	Station ID	Station Name	Year	Yr_Max (m PWD)	Yr_Min (m PWD)	Yr_Ave (m PWD)	Max (m PWD)	Min (m PWD)
					1959	3.96	0.64	2.29		
					1960	1.40	0.40	0.86		
					1962	4.28	0.70	2.20		
					1963	4.11	0.47	2.09		
					1964	4.63	0.30	2.04		
					1965	1.33	0.30	0.85		
					1968	4.21	0.21	2.38		
					1969	4.16	0.35	2.10		
					1970	4.11	0.18	1.87		
					1971	4.54	0.17	2.17		
					1972	2.97	0.15	1.44		
					1973	3.93	0.21	1.87		
					1974	4.45	0.15	1.86		
					1975	3.13	0.12	1.27		
					1976	3.47	0.00	1.63		
					1977	3.63	0.23	1.78		
					1978	3.70	0.56	2.18		
					1979	3.23	0.15	1.53		
					1980	1.31	0.06	0.70		
					1981	3.58	0.30	1.94		
					1982	3.41	0.13	1.54		
					1983	3.87	0.00	1.88		
					1984	4.25	-0.08	1.95		
					1985	3.34	0.34	1.81		
					1986	3.57	0.05	1.63		
					1987	4.50	0.06	1.76		
					1988	4.85	0.00	1.85		
					1989	2.80	0.16	1.56		
					1990	3.34	0.17	1.65	5.05	-0.08
					1991	1.69	0.16	0.87		
					1992	2.90	0.41	1.74		
					1993	3.40	0.10	1.82		
					1994	3.17	0.18	1.61		
					1995	4.12	0.52	2.23		
					1996	3.87	0.37	2.29		
					1997	2.25	0.01	1.02		
					1998	5.05	0.04	2.04		
					1999	3.64	0.40	1.89		
					2000	3.36	0.23	1.74		
					2001	2.95	0.29	1.73		
					2002	3.55	0.10	1.66		
					2003	2.90	0.18	1.28		
					2004	2.08	0.54	1.36		
					2006	2.99	0.32	1.94		
					2007	4.00	0.02	1.83		
					2008	3.68	0.63	1.87		
					2009	3.13	0.55	1.66		
					2010	3.37	0.52	1.85		
					2011	3.52	0.45	1.69		
					2012	2.89	0.22	1.69		
					2013	3.05	0.01	1.64		
					2014	2.92	0.35	1.54		
					2015	3.05	0.42	1.74		
					2016	1.08	0.89	0.96		
					2017	3.97	1.53	2.89		
					2018	2.95	0.28	1.54		
					2019	3.05	0.03	1.41		
					2020	3.78	0.15	1.80		

\* Max in the year 1998

\*Min in the year 1984

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Sub-Assistant Engineer  
Tungipara WD Section  
BWDB, Tungipara, Gopalganj.

③ PD, CRISP - WD ৩<sup>rd</sup> memo: PD/PMO/246 dt: 05.12.24



## BANGLADESH WATER DEVELOPMENT BOARD

### Design Data

### For

**Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km. in Satla- Bagda Sub-Project in c/w “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District” under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.**

**Name of Sub-Division : Tungipara WD Sub-Division, BWDB, Gopalganj.**

**Name of Division : Gopalganj WD Division, BWDB, Gopalganj.**

**Name of Circle : Faridpur WD Circle, BWDB, Faridpur.**

**Name of Zone : Western Zone, BWDB, Faridpur.**

## কারিগরী প্রতিবেদন

১. কাজের নাম :- Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km. in Satla- Bagda Sub-Project in c/w “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalgonj District” under Gopalgonj WD Division, BWDB, Gopalgonj during the year 2024-25.
২. প্রকল্পের নাম :- “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalgonj District”
৩. কাজের অবস্থান :- গোপালগঞ্জ জেলাধীন কোটালীপাড়া উপজেলা।
৪. কাজের প্রয়োজনীয়তা :- সাতলা-বাগদা বন্যা নিয়ন্ত্রণ, নিষ্কাশন ও সেচ প্রকল্পটি বাংলাদেশ পানি উন্নয়ন বোর্ড এর একটি সমাপ্ত প্রকল্প। প্রকল্পের পোক্তার নং-০১ এর প্রস এরিয়া ১৪৮১৮ হেক্টর এবং নীট এরিয়া ১১০৯৩ হেক্টর। সাতলা-বাগদা পোক্তার নং-০১ আশির দশকে প্রকল্পটি সমাপ্ত হয়। উক্ত প্রকল্পের পোক্তারের অভ্যন্তরে হাইড্রোলিক স্ট্রাকচার ও অনেক গুলো খাল বিদ্যমান রয়েছে। উক্ত খালের পানি দ্বারা শুক মৌসুমে সেচ কার্যক্রম এবং বর্ষা মৌসুমে পানি নিষ্কাশন হয়ে থাকে। ফলে অধিক ফসল উৎপাদন করার লক্ষ্যে ও পোক্তারের অভ্যন্তরে বসবাসরত জনসাধারণের আর্থ-সামাজিক অবস্থার উন্নয়নের জন্য খালগুলি পুনঃখনন এবং হাইড্রোলিক স্ট্রাকচারগুলি মেরামত করা জরুরী হয়ে পড়েছে। উল্লেখিত খালটি দীর্ঘদিন পুনঃখনন না করার ফলে পলি পড়ে ভরাট হয়ে যাওয়ায় সেচ কার্যক্রম বাধ্যঘন্ট হওয়া সহ বর্ষ মৌসুমে জলাবদ্ধতা সৃষ্টি হচ্ছে। স্থানীয় জনগন ও জনপ্রতিনিধীদের চাহিদার প্রেক্ষিতে উপরে বর্ণিত সমস্যার সমাধান কল্পে “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalgonj District” প্রকল্পের আওতায় বর্ণিত খালগুলি পুনঃখনন কাজ বাস্তবায়নের জন্য নকশা প্রনয়নের নিমিত্তে প্রয়োজনীয় তথ্য উপাত্ত অন্তর্সাথ সন্নিবেশন করা হবে।
৫. প্রয়োজনীয় তথ্যাদি :- বর্ণিত স্থানের প্রয়োজনীয় খালের Cross Section, Long Section, Index Map, Out-fall Height & Lowest Water Level, Data Check List, Rain Fall Data List & Polder Map ইত্যাদি যথাযথভাবে প্রক্রিয়াকরণ পূর্বক ডিজাইন প্রণয়নের লক্ষ্যে এতদসঙ্গে প্রেরণ করা হলো।
৬. কাজ বাস্তবায়নের খাত :- বর্ণিত খাল গুলির পুনঃখনন কাজ “Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalgonj District” শীর্ষক প্রকল্পে অন্তর্ভুক্ত রয়েছে। এ প্রকল্পের মাধ্যমে ব্যয় নির্বাহ করা হবে।

(এস. এম. রেফাত জামিল)

নির্বাহী প্রকৌশলী

গোপালগঞ্জ পানি উন্নয়ন বিভাগ

বাপাউবো, গোপালগঞ্জ।

S.M. Reftat  
02-12-24

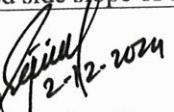
(সুব্রত কুমার)  
উপ-বিভাগীয় প্রকৌশলী  
টুঙ্গিপাড়া পানি উন্নয়ন উপ-বিভাগ  
বাপাউবো, গোপালগঞ্জ।

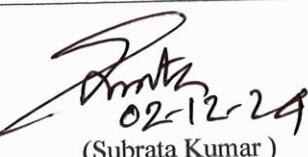
Shahin  
02/12/2024

(মো: শাহিন আলম)  
উপ-সহকারী প্রকৌশলী  
টুঙ্গিপাড়া পানি উন্নয়ন শাখা  
বাপাউবো, গোপালগঞ্জ।

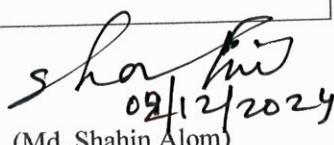
## Data Check List

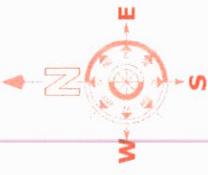
1.	Name of the Project	: Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km. in Satla- Bagda Sub-Project in c/w "Implementation of Integrated Water Resources Management for Improvement of Drainage Congestion in Tungipara & Kotalipara Upazila Under Gopalganj District" under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25.
2.	Name of the proposed khal	: Gogra Hati Khal
3.	Length of the proposed khal	: 4.024 Km.
4.	Location of the proposed khal.	: Upazila-Kotalipara, District- Gopalganj.
5.	Name of the off-Take	: Pinjuri Khal
6.	Name of the out fall	: Ghagor River
7.	Cross section of khal	: Enclosed.
8.	Long section of khal	: Enclosed.
9.	Site plan of the proposed khal (Showing drainage network)	: Enclosed.
10.	Index map	: Enclosed.
11.	L W L of the out fall. Bed level of the out fall	: (+) 0.500 m PWD : (-) 7.279 m PWD (at present).
12.	L W L of the Off-Take Bed level of the off-take	: (+) 0.50 m PWD : (-) 1.270 m PWD (at present).
13.	X-Section of the out fall	: Enclosed.
14.	Bank line demarcation	: Bank line of the proposed khal shown in the x-section of the proposed khal which will not be extended because besides the bank line area is public land.
15.	Catchments area of the proposed khal	: 450.00 hectare. (Approximately).
16.	a) Water level data for last 20 years of nearby gauge station b) No of gauge station c) Name of the river d) Name of gauge station	: Enclosed. : SW -198. : Madaripur Beel Route (MBR) Channel : Haridaspur.
17.	a) Rainfall data for last 20 years. b) Station ID c) Station name d) District	: Enclosed. : CL - 409 : Haridaspur. : Gopalganj.
18.	Structural information :- a) Sluice gate (if any)  b) Bridge/Culvert (if any)	: Not Applicable : a) Sluice gate (0.90m x 1.20m) Location: Ch. Km 0.155  : b)Bridge (12.00 m x 3.20 m) Location: Ch. Km 3.961 Top Level = (+) 3.50 m PWD Bottom Level = (-) 0.775m PWD
19.	Depth of water have to be maintain during dry season in the Khal	: 1.50 m (Minimum)
20.	Proposed bed width of the khal	: 3.00 m avg.
21.	Proposed bed level of the khal	: (-) 1.50 m
22.	Proposed side slope of the khal	: 1:1.5

  
 (S. M. Refat Jamil)  
 Executive Engineer  
 Gopalganj WD Division  
 BWDB, Gopalganj.

  
 (Subrata Kumar )  
 Sub-Divisional Engineer (A.C)  
 Tungipara WD Sub-Division

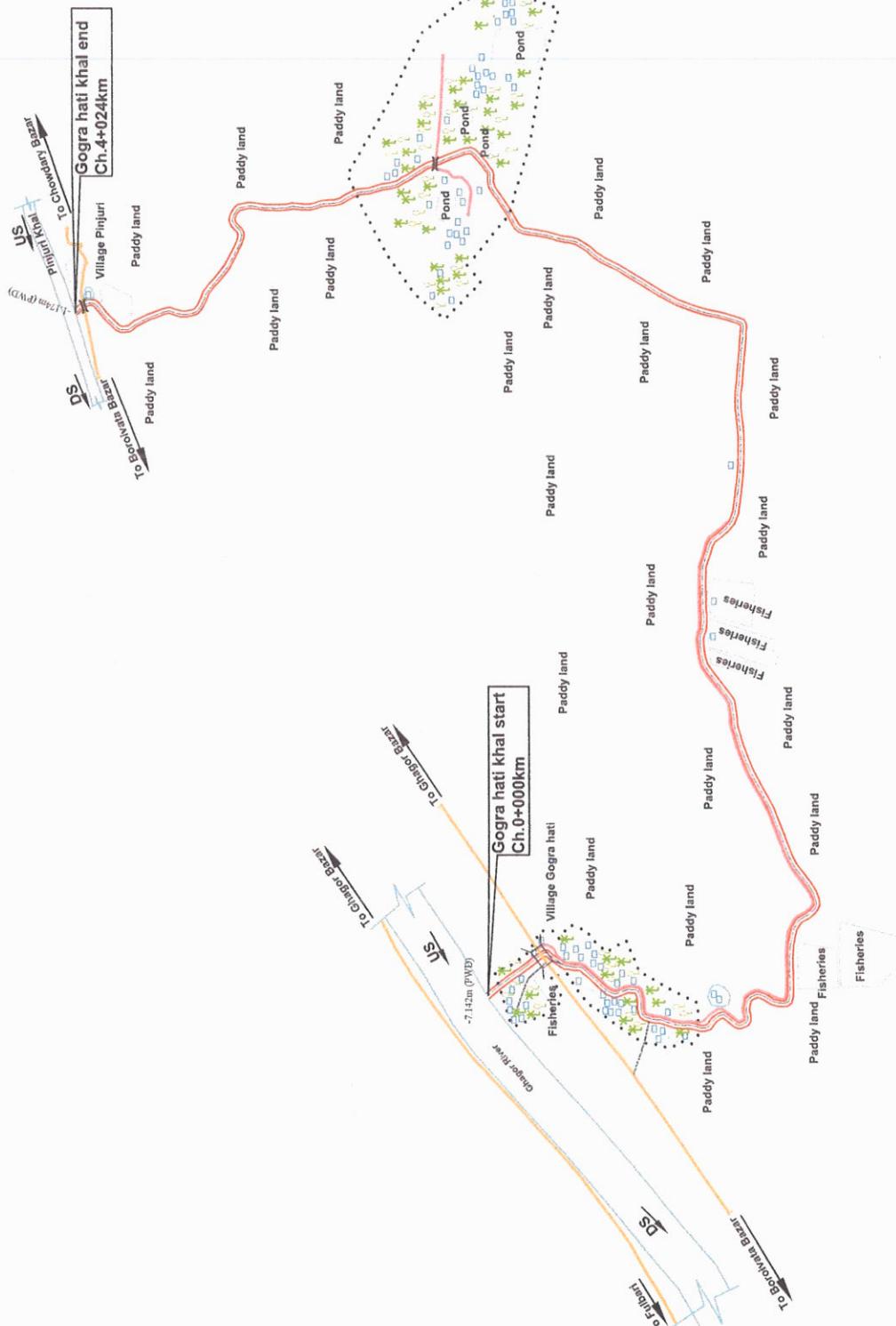
BWDB, Gopalganj.

  
 (Md. Shahin Alom)  
 Sub-Assistant Engineer/SO  
 Tungipara WD Section  
 BWDB, Tungipara, Gopalganj.



### LEGEND:

Existing Pucca Road .....
Existing Earthen Road .....
Existing HBB Road .....
Existing Embankment .....
Existing River .....
Existing Khal .....
Re-excavation of Khal .....
Railway Line .....
Existing Pond, Ditch .....
Existing Bridge/Culvert .....
Existing Reg/Sluice .....
Structure-Permanent .....
Structure-Semipermanent .....
Structure-Tin-shed/Hut .....
Mosque , Eid-Gaon, Tomp , Church , Temple , Graveyard .....
Hat/Bazar .....
School/ College .....
Union Parishad .....
Home steads/High Land .....



### Bangladesh Water Development Board

Site Plan for re-excavation of Gogra hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km. in Satla-Bagda Sub-Project in C/W "Implementation of Integrated Water Resources Management Project for Improvement Drainage Congestion in Tungipara & Kotalpara Upazilla under Gopalganj District" Under Gopalganj WD Division, BWDB, Gopalganj during the year 2024-25

(S. M. Refat Jamil) Executive Engineer Gopalganj WD Division BWDB, Gopalganj	(Subrata Kumar) Sub-Divisional Engineer (A.C) Tungipara WD Sub-Division BWDB, Gopalganj	(Md. Shahin Alom) Assistant Engineer/ISO Tungipara WD Section BWDB, Gopalganj
02-12-24	09-12-24	09-12-24

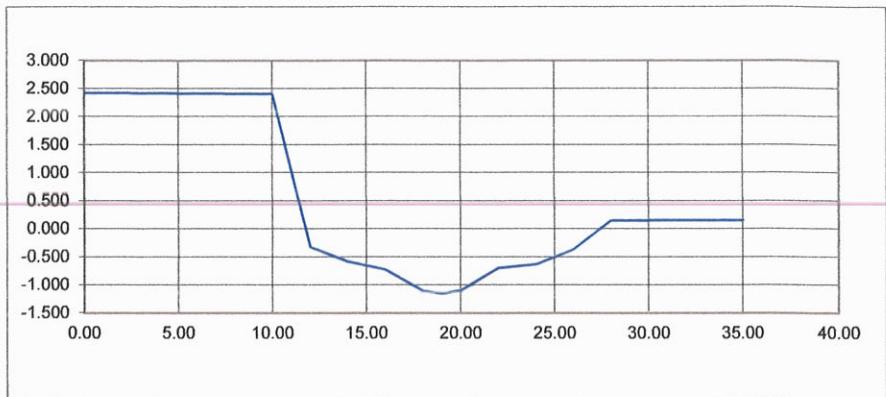
09-12-24 09-12-24 09-12-24

**Cross Section for Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km.**

X - Section at km. 0.000

Pre-work

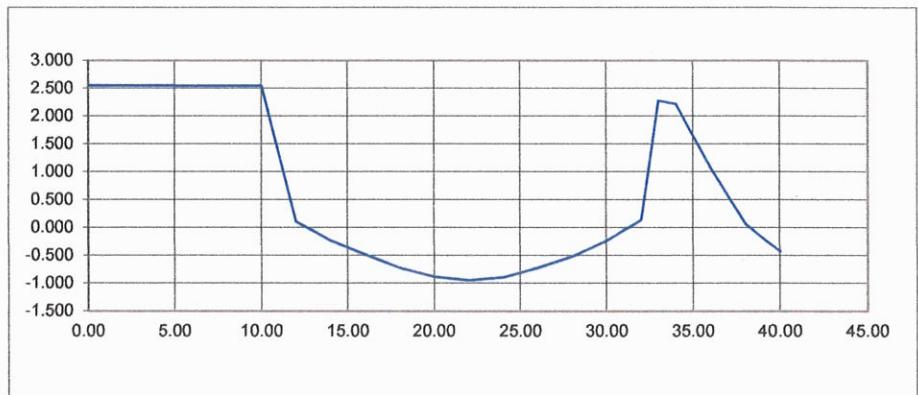
0.00	2.430	Mosqu area
5.00	2.422	
10.00	2.412	LB
12.00	-0.318	
14.00	-0.579	
16.00	-0.719	
18.00	-1.098	
19.00	-1.148	CL
20.00	-1.090	
22.00	-0.693	
24.00	-0.628	
26.00	-0.358	
28.00	0.152	RB
30.00	0.157	
35.00	0.162	Open land



X - Section at km. 0.100

Pre-work

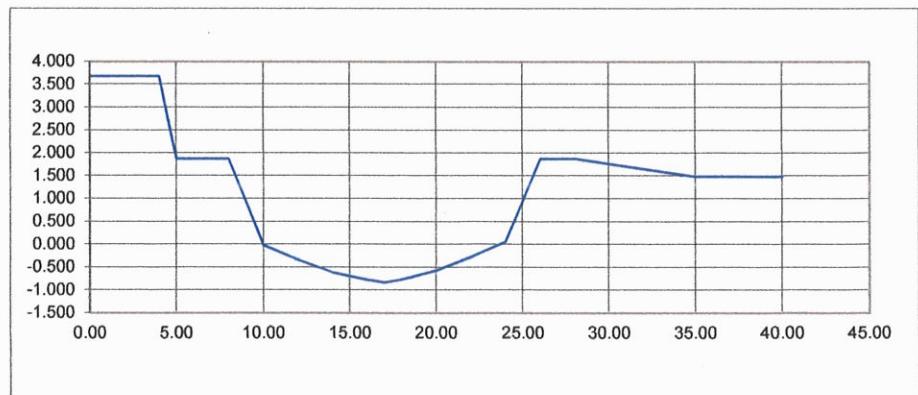
0.00	2.556	House area
5.00	2.551	
10.00	2.546	LB
12.00	0.115	
14.00	-0.224	
16.00	-0.480	CL
18.00	-0.719	
20.00	-0.879	
22.00	-0.939	
24.00	-0.887	
26.00	-0.713	
28.00	-0.514	
30.00	-0.234	
32.00	0.146	
33.00	2.281	RB
34.00	2.226	
36.00	1.081	
38.00	0.076	
40.00	-0.420	Fishirs



X - Section at km. 0.200

Pre-work

0.00	3.686	Bc road
4.00	3.681	
5.00	1.886	
8.00	1.876	LB
10.00	-0.014	
12.00	-0.334	
14.00	-0.609	
16.00	-0.764	
17.00	-0.825	CL
18.00	-0.760	
20.00	-0.560	
22.00	-0.271	
24.00	0.066	
26.00	1.881	RB
28.00	1.886	
35.00	1.491	
40.00	1.496	Garden



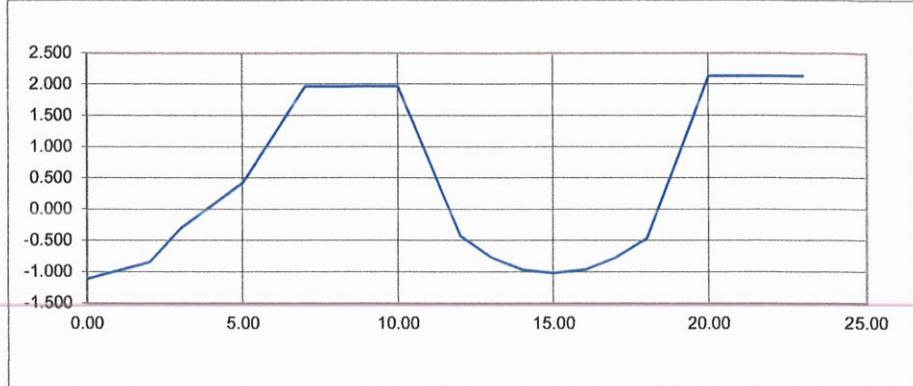
✓

✓

X - Section at km. 0.300

Pre-work

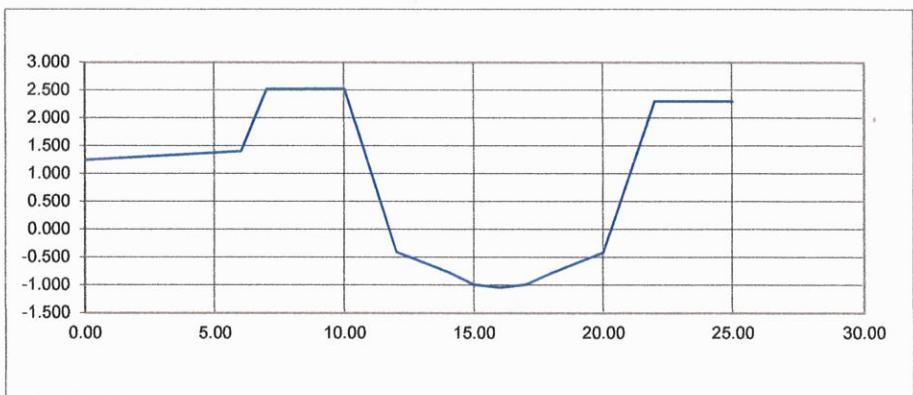
0.00	-1.109	Ditch
2.00	-0.839	
3.00	-0.304	
5.00	0.431	
7.00	1.968	
10.00	1.976	LB
12.00	-0.419	
13.00	-0.765	
14.00	-0.963	
15.00	-1.016	CL
16.00	-0.960	
17.00	-0.766	
18.00	-0.462	
20.00	2.136	RB
22.00	2.141	HBB road
23.00	2.145	House



X - Section at km. 0.400

Pre-work

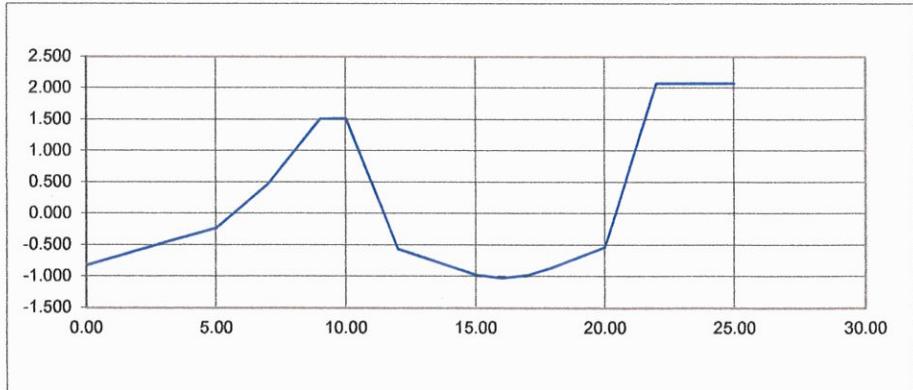
0.00	1.250	Low land
6.00	1.411	
7.00	2.526	
10.00	2.536	LB
12.00	-0.394	
14.00	-0.761	
15.00	-0.987	
16.00	-1.039	CL
17.00	-0.983	
18.00	-0.774	
20.00	-0.404	
22.00	2.311	RB
25.00	2.306	HBB road



X - Section at km. 0.500

Pre-work

0.00	-0.818	Pond
3.00	-0.456	
5.00	-0.228	
7.00	0.482	
9.00	1.512	
10.00	1.521	LB
12.00	-0.556	
14.00	-0.833	
15.00	-0.970	
16.00	-1.020	CL
17.00	-0.976	
18.00	-0.845	
20.00	-0.528	
22.00	2.082	RB
25.00	2.077	HBB road

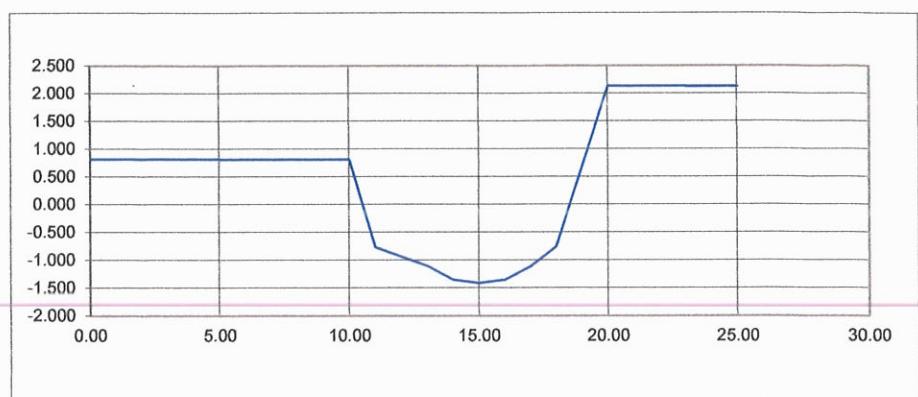


M D

X - Section at km. 0.600

Pre-work

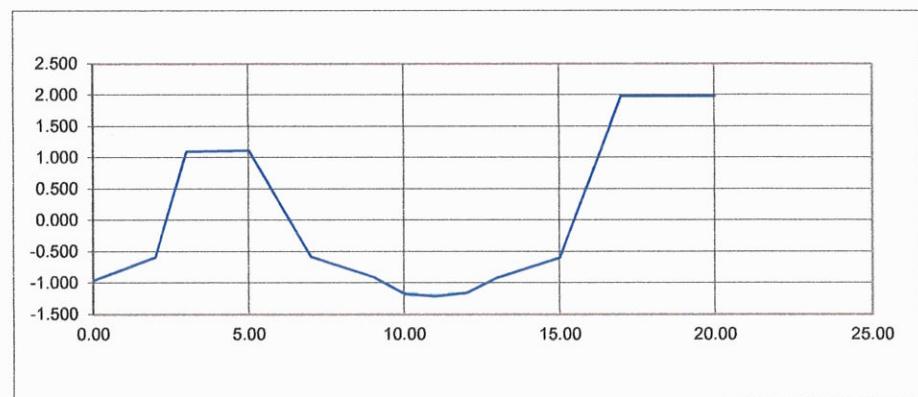
0.00	0.822	Paddy land
5.00	0.817	
10.00	0.812	LB
11.00	-0.763	
13.00	-1.098	
14.00	-1.350	
15.00	-1.408	CL
16.00	-1.349	
17.00	-1.104	
18.00	-0.749	
20.00	2.141	RB
23.00	2.137	HBB road
25.00	2.132	House



X - Section at km. 0.700

Pre-work

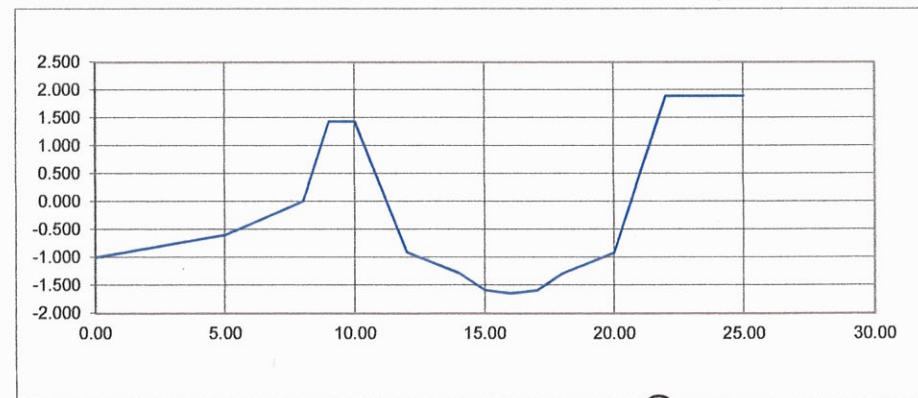
0.00	-0.958	Ditch
2.00	-0.583	
3.00	1.102	
5.00	1.117	LB
7.00	-0.577	
9.00	-0.898	
10.00	-1.168	
11.00	-1.207	
12.00	-1.155	CL
13.00	-0.910	
15.00	-0.593	
17.00	1.987	RB
20.00	1.982	HBB road



X - Section at km. 0.800

Pre-work

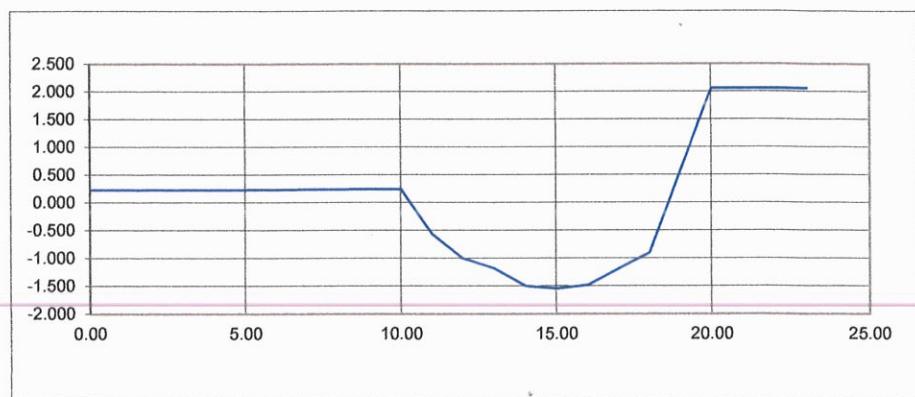
0.00	-0.996	Fishirs
5.00	-0.591	
8.00	0.014	
9.00	1.439	
10.00	1.444	LB
12.00	-0.901	
14.00	-1.271	
15.00	-1.580	
16.00	-1.636	CL
17.00	-1.586	
18.00	-1.280	
20.00	-0.911	
22.00	1.894	RB
25.00	1.899	HBB road



X - Section at km. 0.900

Pre-work

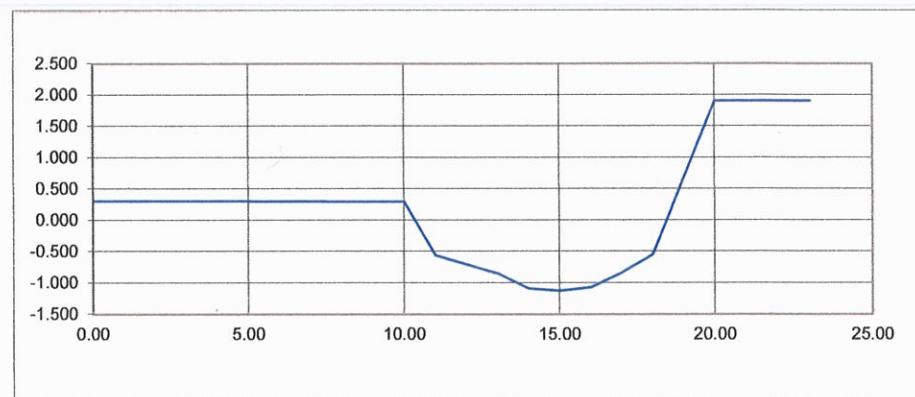
0.00	0.232	Paddy land
5.00	0.236	
10.00	0.249	LB
11.00	-0.559	
12.00	-0.998	
13.00	-1.173	
14.00	-1.492	
15.00	-1.544	CL
16.00	-1.483	
17.00	-1.183	
18.00	-0.892	
20.00	2.068	RB
23.00	2.066	HBB road



X - Section at km. 1.000

Pre-work

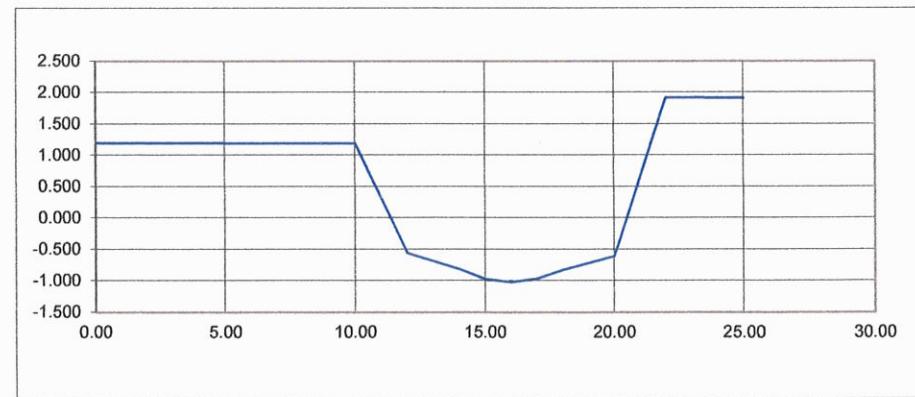
0.00	0.312	Paddy land
5.00	0.307	
10.00	0.302	LB
11.00	-0.553	
13.00	-0.843	
14.00	-1.086	
15.00	-1.121	
16.00	-1.069	CL
17.00	-0.835	
18.00	-0.543	
20.00	1.907	RB
23.00	1.904	HBB road



X - Section at km. 1.100

Pre-work

0.00	1.202	Fishirs bank
5.00	1.198	
10.00	1.192	LB
12.00	-0.553	
14.00	-0.808	
15.00	-0.969	
16.00	-1.018	CL
17.00	-0.963	
18.00	-0.823	
20.00	-0.602	
22.00	1.926	RB
25.00	1.916	HBB road

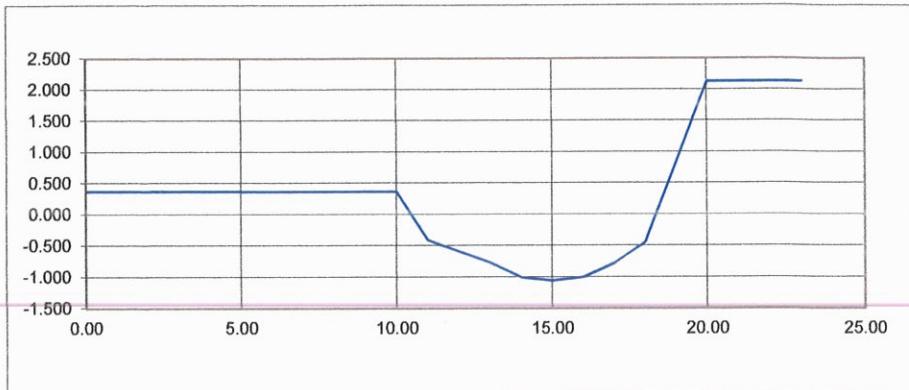


R S

X - Section at km. 1.200

Pre-work

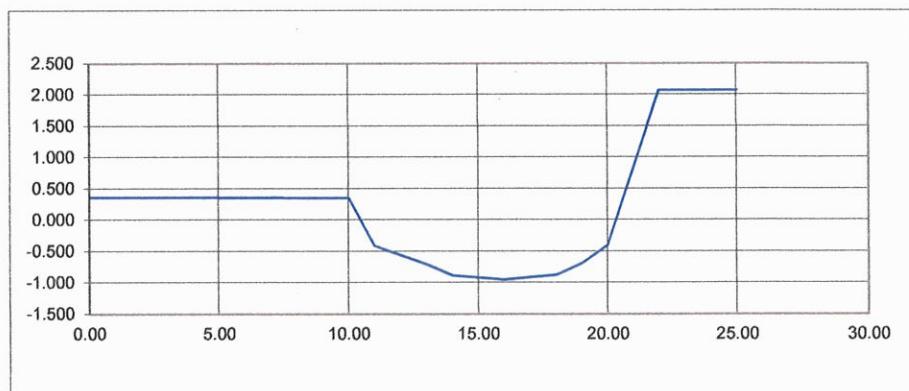
0.00	0.377	Paddy land
5.00	0.373	
10.00	0.367	LB
11.00	-0.408	
13.00	-0.768	
14.00	-1.003	
15.00	-1.053	CL
16.00	-0.998	
17.00	-0.778	
18.00	-0.438	
20.00	2.132	RB
23.00	2.137	HBB road



X - Section at km. 1.300

Pre-work

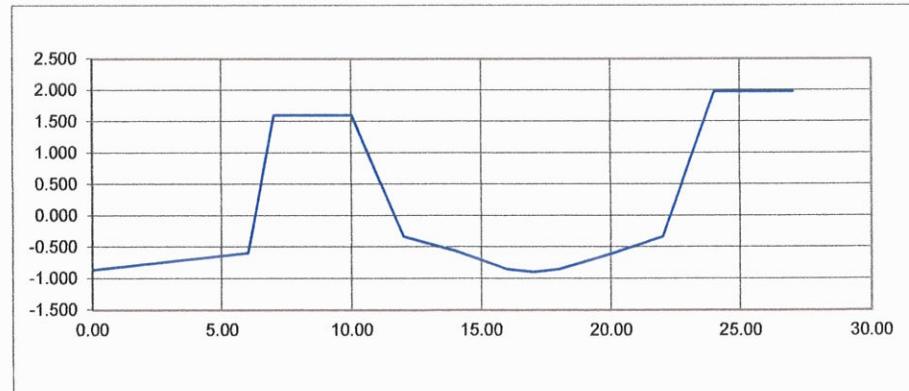
0.00	0.367	Paddy land
5.00	0.362	
10.00	0.357	LB
11.00	-0.408	
13.00	-0.701	
14.00	-0.878	
16.00	-0.947	CL
18.00	-0.873	
19.00	-0.688	
20.00	-0.398	
22.00	2.072	RB
25.00	2.077	HBB road



X - Section at km. 1.400

Pre-work

0.00	-0.857	Fishirs
6.00	-0.592	
7.00	1.603	
10.00	1.608	LB
12.00	-0.328	
14.00	-0.553	
16.00	-0.847	
17.00	-0.892	CL
18.00	-0.843	
20.00	-0.602	
22.00	-0.330	
24.00	1.983	RB
27.00	1.980	HBB road



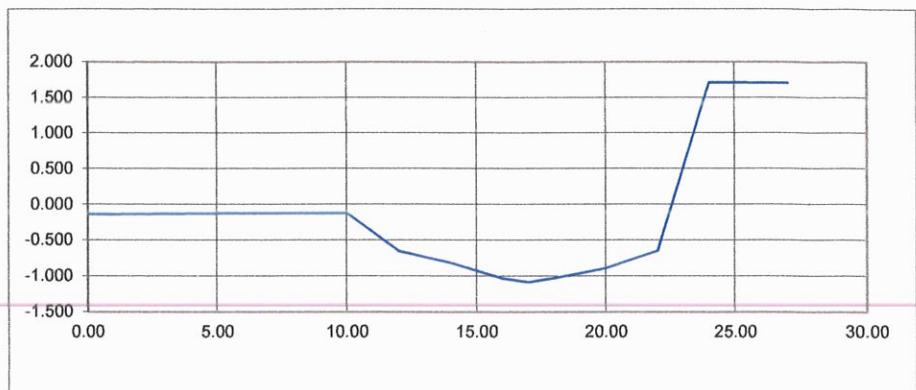
R

S

X - Section at km. 1.500

Pre-work

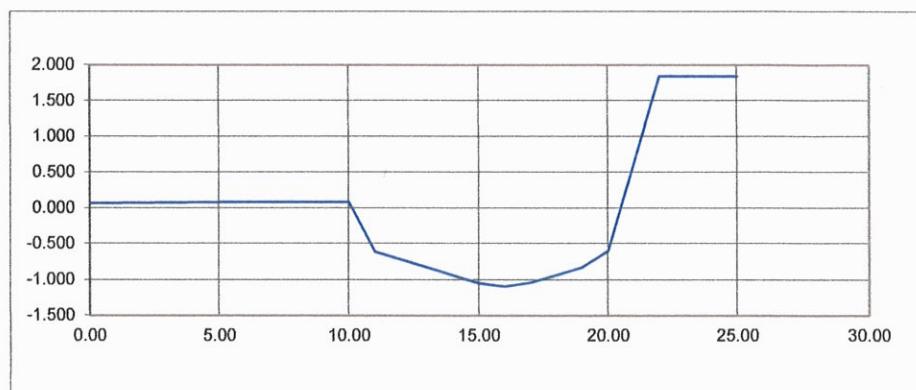
0.00	-0.134	Low land
5.00	-0.119	
10.00	-0.114	LB
12.00	-0.649	
14.00	-0.810	
16.00	-1.027	
17.00	-1.079	CL
18.00	-1.024	
20.00	-0.884	
22.00	-0.643	
24.00	1.716	RB
27.00	1.711	HBB road



X - Section at km. 1.600

Pre-work

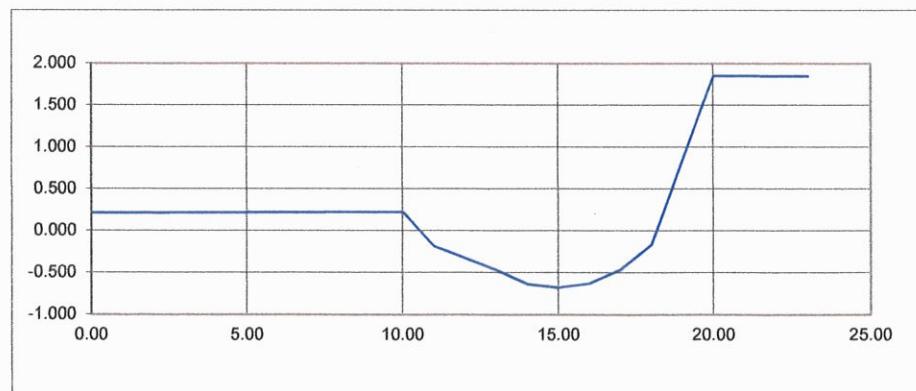
0.00	0.089	Low land
5.00	0.084	
10.00	0.089	LB
11.00	-0.606	
13.00	-0.822	
15.00	-1.046	
16.00	-1.090	CL
17.00	-1.036	
19.00	-0.823	
20.00	-0.591	
22.00	1.849	RB
25.00	1.844	HBB road



X - Section at km. 1.700

Pre-work

0.00	0.216	Paddy land
5.00	0.221	
10.00	0.229	LB
11.00	-0.179	
13.00	-0.464	
14.00	-0.634	
15.00	-0.674	CL
16.00	-0.625	
17.00	-0.458	
18.00	-0.164	
20.00	1.856	RB
23.00	1.851	HBB road

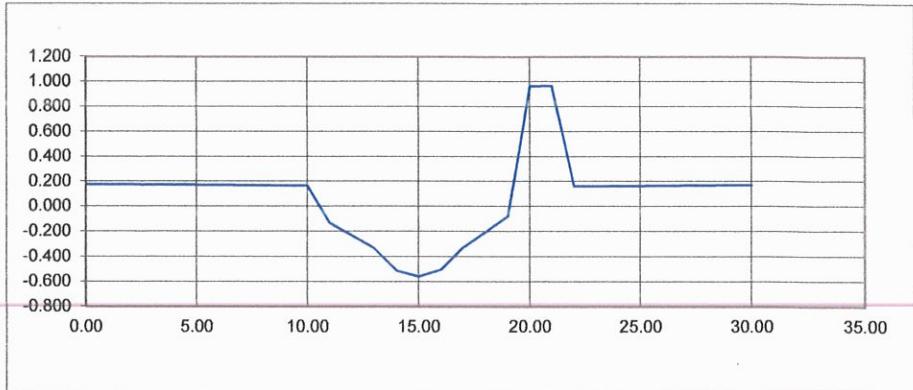


CR  
SK

X - Section at km. 1.800

Pre-work

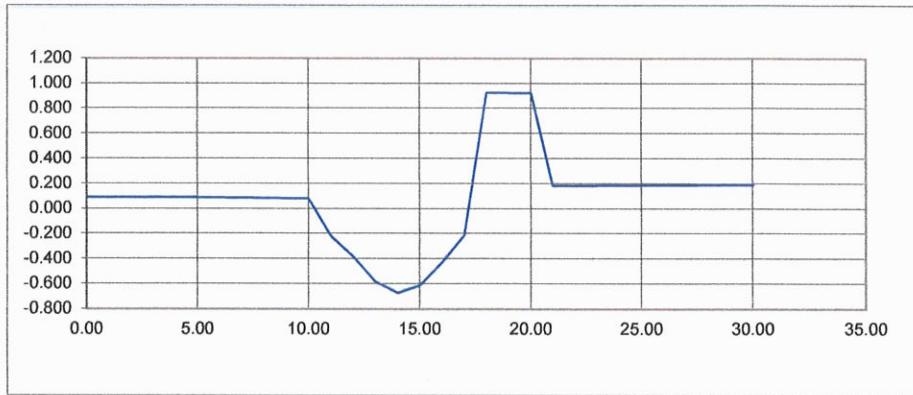
0.00	0.179	Paddy land
5.00	0.174	
10.00	0.169	LB
11.00	-0.131	
13.00	-0.331	
14.00	-0.510	
15.00	-0.556	
16.00	-0.501	CL
17.00	-0.326	
19.00	-0.077	
20.00	0.965	RB
21.00	0.969	
22.00	0.164	
30.00	0.174	Paddy land



X - Section at km. 1.900

Pre-work

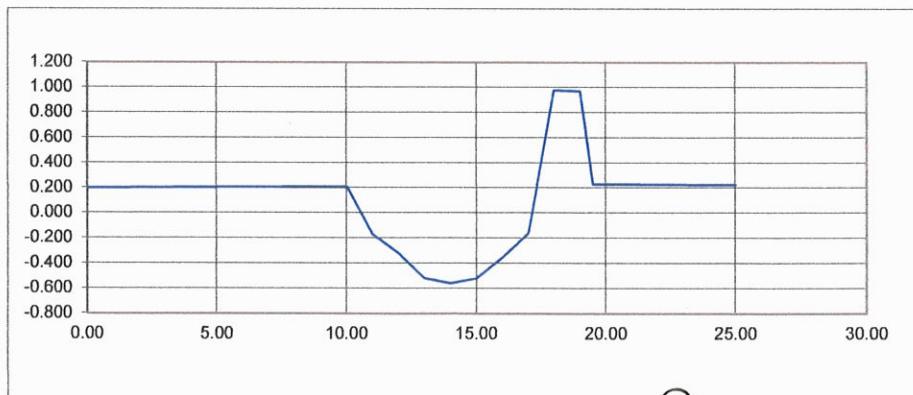
0.00	0.094	Paddy land
5.00	0.090	
10.00	0.084	LB
11.00	-0.216	
12.00	-0.377	
13.00	-0.578	
14.00	-0.671	
15.00	-0.610	CL
16.00	-0.426	
17.00	-0.210	
18.00	0.929	RB
20.00	0.924	
21.00	0.184	
25.00	0.189	
30.00	0.194	Paddy land



X - Section at km. 2.000

Pre-work

0.00	0.202	Paddy land
5.00	0.207	
10.00	0.212	LB
11.00	-0.168	
12.00	-0.319	
13.00	-0.516	
14.00	-0.558	
15.00	-0.519	CL
16.00	-0.352	
17.00	-0.158	
18.00	0.981	RB
19.00	0.972	
19.50	0.232	
25.00	0.227	Paddy land

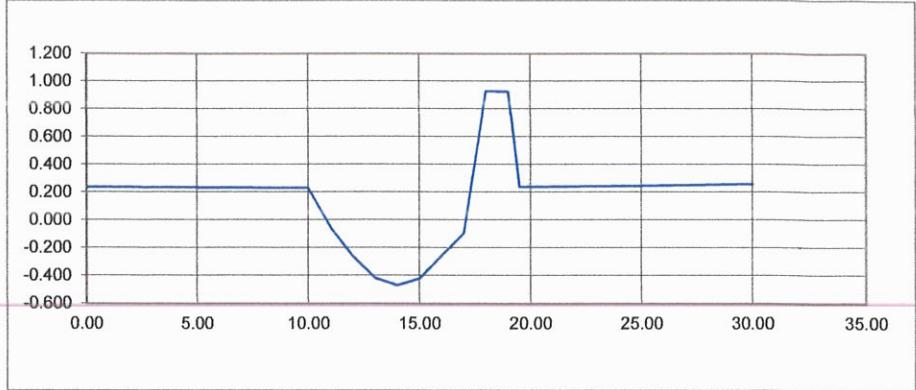


N  
X

X - Section at km. 2.100

Pre-work

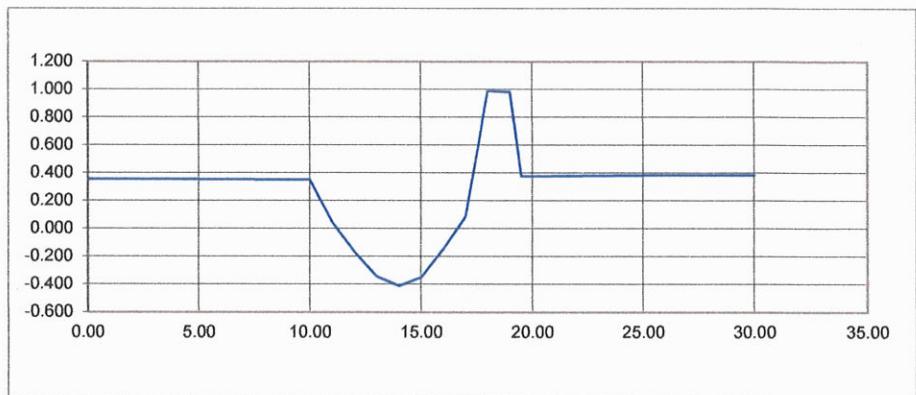
0.00	0.242	Paddy land
5.00	0.237	
10.00	0.232	LB
11.00	-0.053	
12.00	-0.258	
13.00	-0.416	
14.00	-0.468	CL
15.00	-0.419	
16.00	-0.253	
17.00	-0.093	
18.00	0.932	RB
19.00	0.927	
19.50	0.242	
25.00	0.248	
30.00	0.262	Paddy land



X - Section at km. 2.200

Pre-work

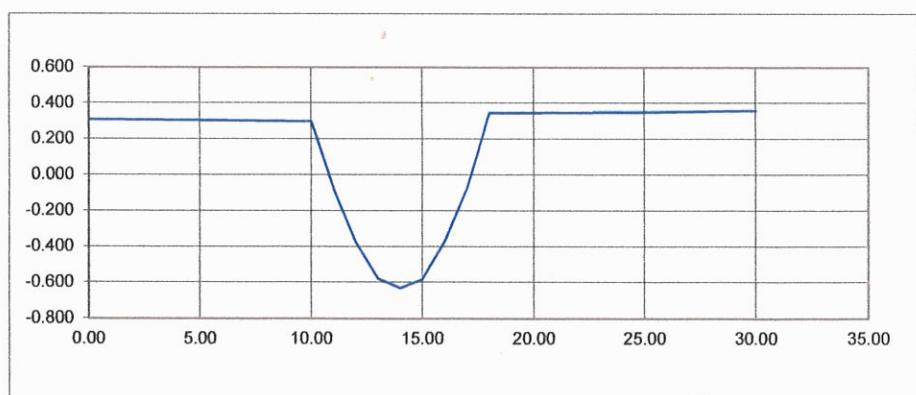
0.00	0.356	Paddy land
5.00	0.357	
10.00	0.352	LB
11.00	0.047	
12.00	-0.163	
13.00	-0.342	
14.00	-0.409	CL
15.00	-0.348	
16.00	-0.142	
17.00	0.091	
18.00	0.991	RB
19.00	0.982	
19.50	0.377	
25.00	0.385	
30.00	0.387	Paddy land



X - Section at km. 2.300

Pre-work

0.00	0.310	Paddy land
5.00	0.306	
10.00	0.300	LB
11.00	-0.074	
12.00	-0.374	
13.00	-0.577	
14.00	-0.629	CL
15.00	-0.580	
16.00	-0.366	
17.00	-0.069	
18.00	0.346	RB
25.00	0.351	
30.00	0.361	Paddy land



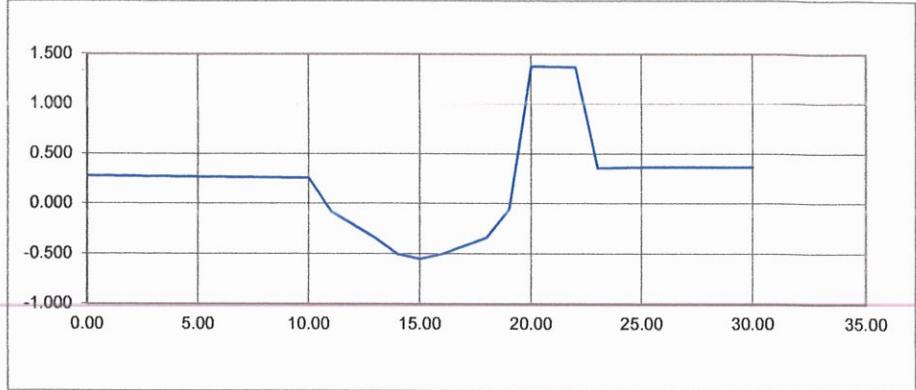
R

S

X - Section at km. 2.400

Pre-work

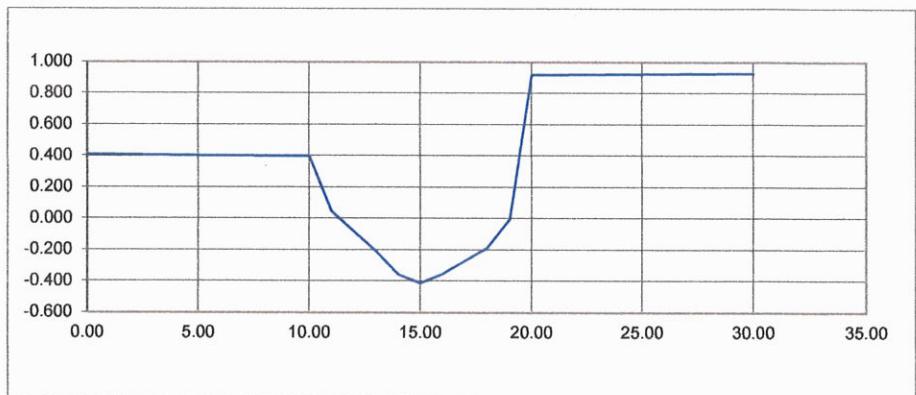
0.00	0.281	Paddy land
5.00	0.271	
10.00	0.261	LB
11.00	-0.074	
13.00	-0.339	
14.00	-0.500	
15.00	-0.549	CL
16.00	-0.499	
18.00	-0.333	
19.00	-0.054	
20.00	1.381	RB
22.00	1.371	
23.00	0.361	
25.00	0.367	
30.00	0.371	Open land



X - Section at km. 2.500

Pre-work

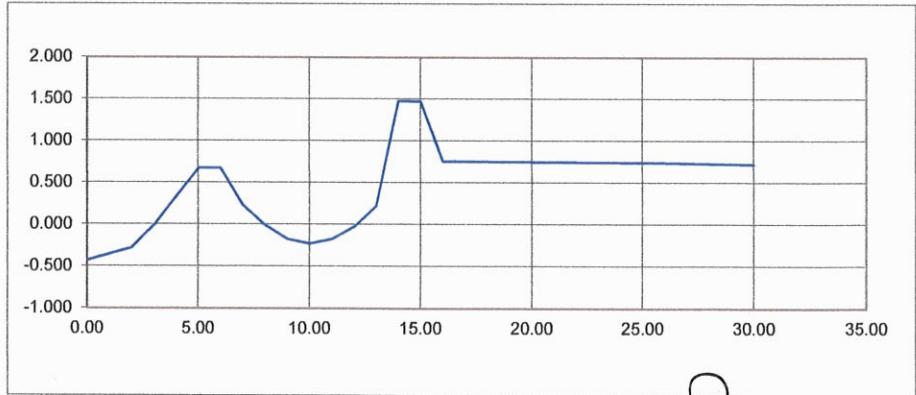
0.00	0.410	Paddy land
5.00	0.405	
10.00	0.400	LB
11.00	0.049	
13.00	-0.205	
14.00	-0.355	
15.00	-0.410	CL
16.00	-0.351	
18.00	-0.185	
19.00	-0.005	
20.00	0.920	RB
25.00	0.925	
30.00	0.930	Open land



X - Section at km. 2.600

Pre-work

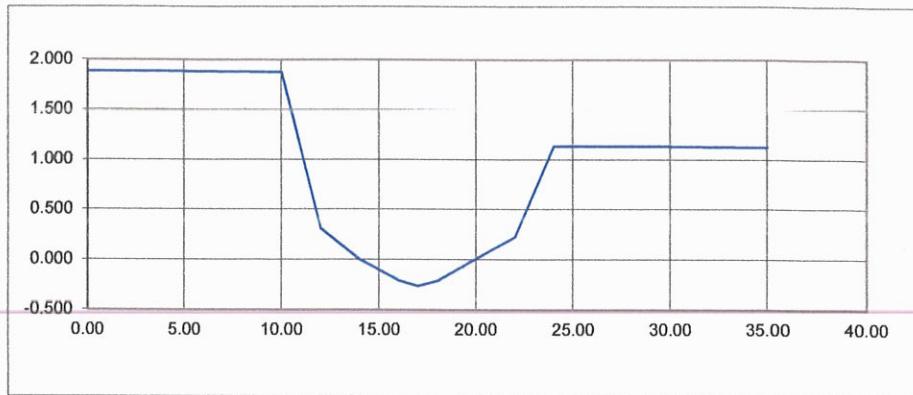
0.00	-0.425	Ditch
2.00	-0.274	
3.00	-0.009	
5.00	0.676	
6.00	0.681	LB
7.00	0.230	
8.00	-0.009	
9.00	-0.171	
10.00	-0.224	CL
11.00	-0.170	
12.00	-0.024	
13.00	0.226	
14.00	1.481	RB
15.00	1.476	
16.00	0.761	
26.00	0.746	
30.00	0.725	Low land



X - Section at km. 2.700

Pre-work

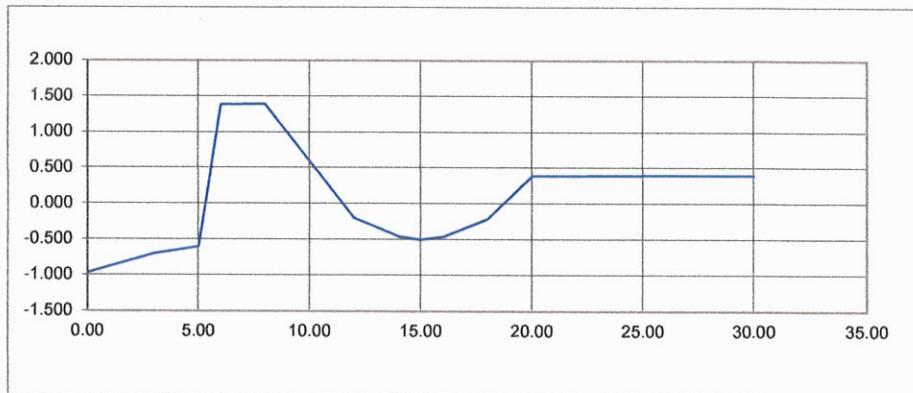
0.00	1.888	House area
5.00	1.884	
10.00	1.878	LB
12.00	0.314	
14.00	0.004	
16.00	-0.206	
17.00	-0.261	CL
18.00	-0.212	
20.00	0.012	
22.00	0.229	
24.00	1.139	RLB
30.00	1.134	
35.00	1.129	Low land



X - Section at km. 2.800

Pre-work

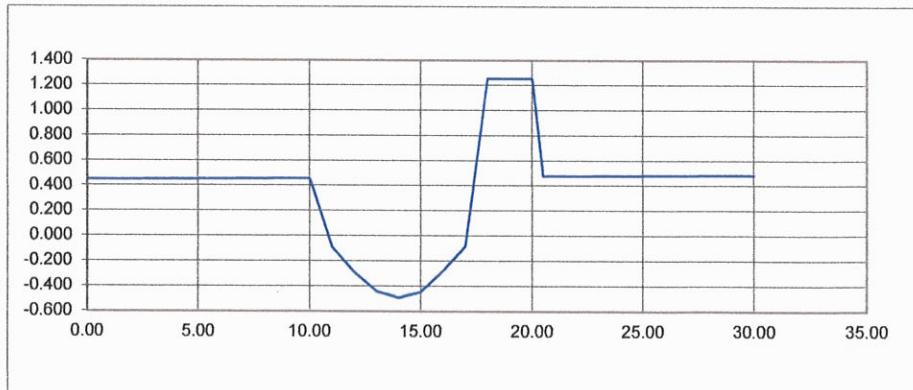
0.00	-0.963	Fisheris
3.00	-0.697	
5.00	-0.597	
6.00	1.388	
8.00	1.394	LB
12.00	-0.197	
14.00	-0.452	
15.00	-0.497	CL
16.00	-0.458	
18.00	-0.210	
20.00	0.393	RB
25.00	0.398	
30.00	0.403	Paddy land



X - Section at km. 2.900

Pre-work

0.00	0.449	Paddy land
5.00	0.454	
10.00	0.459	LB
11.00	-0.086	
12.00	-0.286	
13.00	-0.439	
14.00	-0.491	CL
15.00	-0.442	
16.00	-0.275	
17.00	-0.081	
18.00	1.258	RB
20.00	1.254	
20.50	0.479	
25.00	0.484	
30.00	0.489	Paddy land

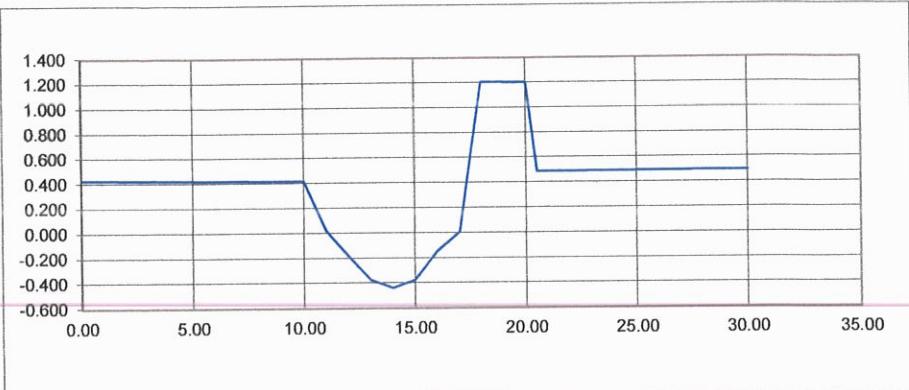


*R* *S*

X - Section at km. 3.000

Pre-work

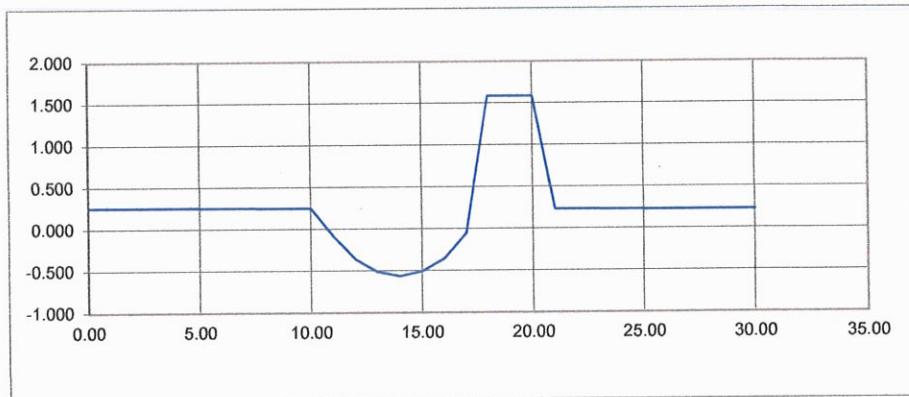
0.00	0.429	Paddy land
5.00	0.424	
10.00	0.419	LB
11.00	0.025	
12.00	-0.181	
13.00	-0.373	
14.00	-0.436	CL
15.00	-0.372	
16.00	-0.142	
17.00	0.009	
18.00	1.209	RB
20.00	1.204	
20.50	0.489	
25.00	0.494	
30.00	0.499	Paddy land



X - Section at km. 3.100

Pre-work

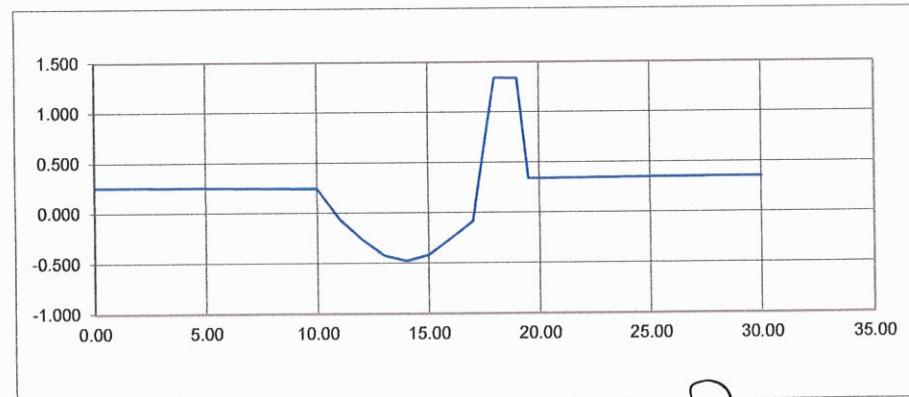
0.00	0.260	Paddy land
5.00	0.261	
10.00	0.256	LB
11.00	-0.079	
12.00	-0.354	
13.00	-0.509	
14.00	-0.560	CL
15.00	-0.505	
16.00	-0.349	
17.00	-0.044	
18.00	1.591	RB
20.00	1.586	
21.00	0.236	
25.00	0.231	
30.00	0.226	Open land



X - Section at km. 3.200

Pre-work

0.00	0.261	Paddy land
5.00	0.256	
10.00	0.246	LB
11.00	-0.059	
12.00	-0.259	
13.00	-0.419	
14.00	-0.474	CL
15.00	-0.415	
16.00	-0.249	
17.00	-0.079	
18.00	1.346	RB
19.00	1.341	
19.50	0.341	
25.00	0.351	
30.00	0.356	Paddy land

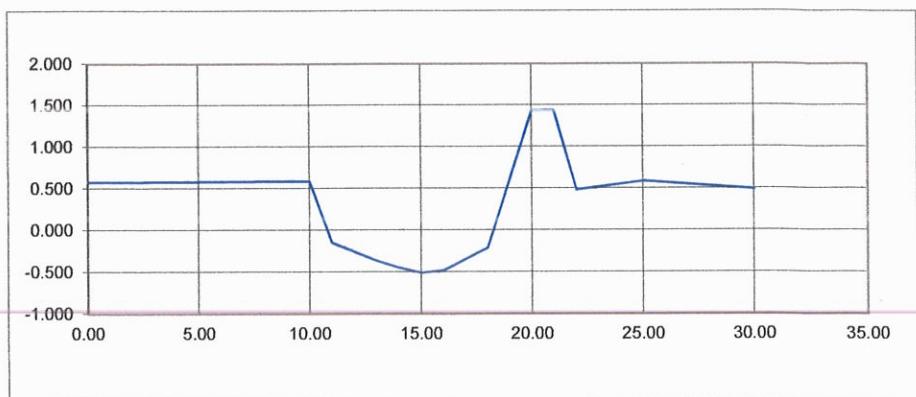


R  
S

X - Section at km. 3.300

Pre-work

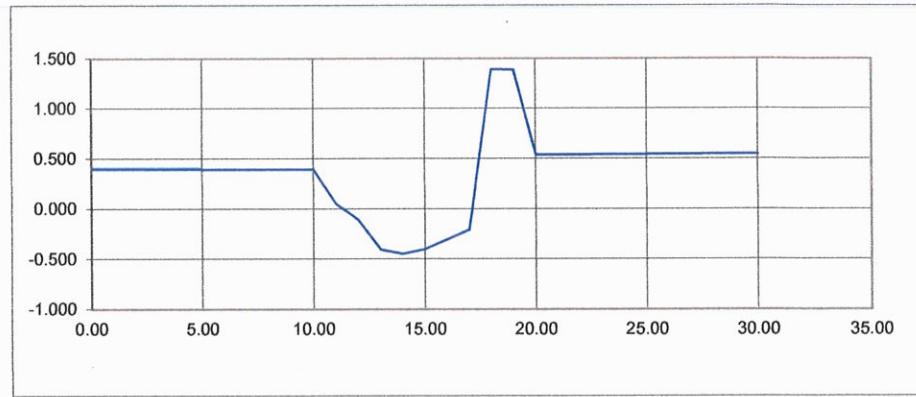
0.00	0.582	Paddy land
5.00	0.587	
10.00	0.592	LB
11.00	-0.143	
13.00	-0.358	
14.00	-0.444	
15.00	-0.504	CL
16.00	-0.478	
18.00	-0.204	
20.00	1.442	RB
21.00	1.447	
22.00	0.487	
25.00	0.592	
30.00	0.497	Paddy land



X - Section at km. 3.400

Pre-work

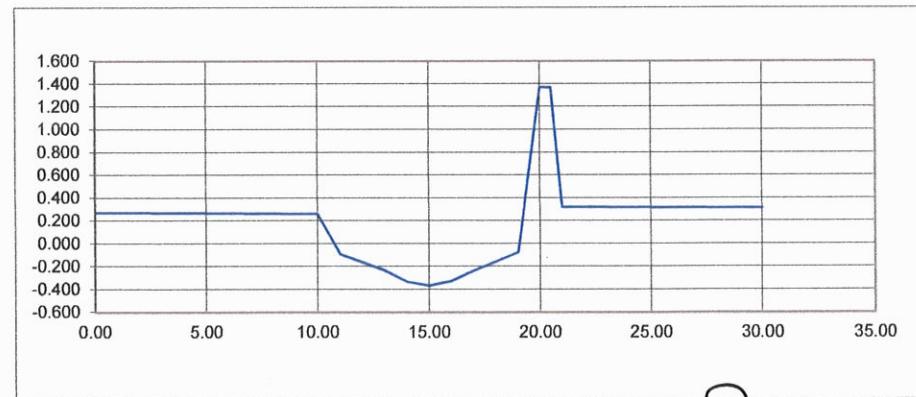
0.00	0.402	Paddy land
5.00	0.397	
10.00	0.396	
11.00	0.057	LB
12.00	-0.104	
13.00	-0.401	CL
14.00	-0.443	
15.00	-0.398	
16.00	-0.301	
17.00	-0.204	
18.00	1.396	RB
19.00	1.392	
20.00	0.542	
25.00	0.547	
30.00	0.552	Paddy land



X - Section at km. 3.500

Pre-work

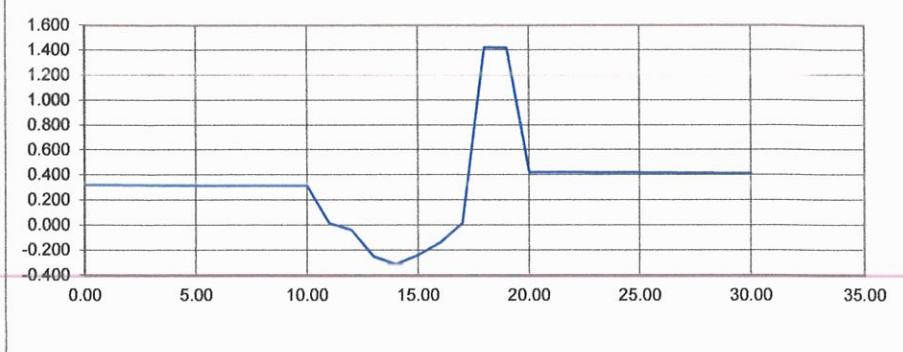
0.00	0.275	Paddy land
5.00	0.270	
10.00	0.264	
11.00	-0.090	LB
13.00	-0.231	
14.00	-0.330	
15.00	-0.365	CL
16.00	-0.325	
17.00	-0.235	
19.00	-0.075	
20.00	1.374	RB
20.50	1.370	
21.00	0.325	
25.00	0.320	
30.00	0.315	Paddy land



X - Section at km. 3.600

Pre-work

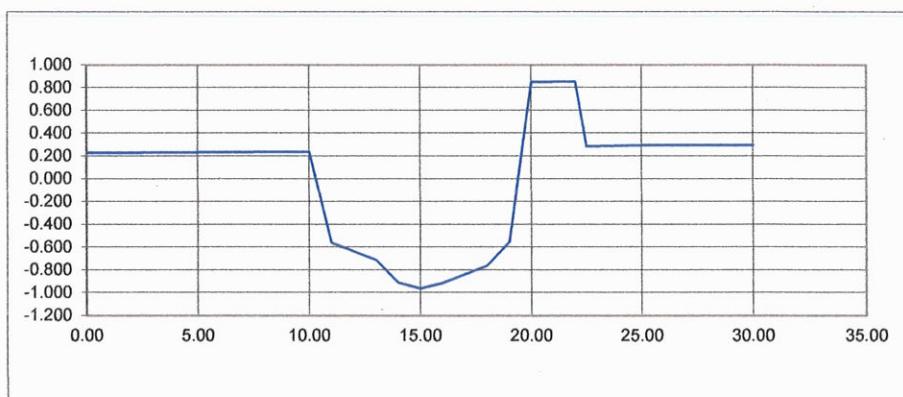
0.00	0.325	Paddy land
5.00	0.320	
10.00	0.315	
11.00	0.016	LB
12.00	-0.036	
13.00	-0.250	
14.00	-0.310	CL
15.00	-0.236	
16.00	-0.136	
17.00	0.020	
18.00	1.425	RB
19.00	1.420	
20.00	0.425	
25.00	0.420	
30.00	0.415	Paddy land



X - Section at km. 3.700

Pre-work

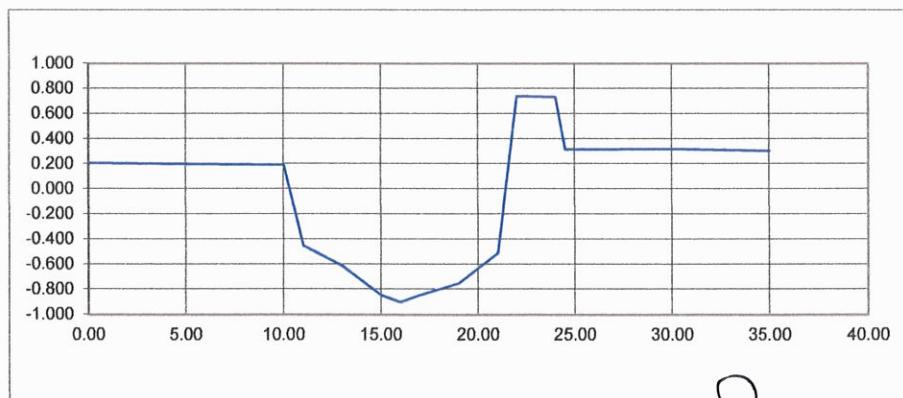
0.00	0.231	Paddy land
5.00	0.236	
10.00	0.241	
11.00	-0.559	LB
13.00	-0.710	
14.00	-0.909	
15.00	-0.959	CL
16.00	-0.910	
18.00	-0.759	
19.00	-0.549	
20.00	0.851	RB
22.00	0.857	
22.50	0.290	
25.00	0.296	
30.00	0.301	Paddy land



X - Section at km. 3.800

Pre-work

0.00	0.211	Paddy land
5.00	0.201	
10.00	0.196	
11.00	-0.449	LB
13.00	-0.610	
15.00	-0.844	
16.00	-0.899	CL
17.00	-0.843	
19.00	-0.749	
21.00	-0.510	
22.00	0.741	RB
24.00	0.736	
24.50	0.316	
30.00	0.321	
35.00	0.306	Paddy land

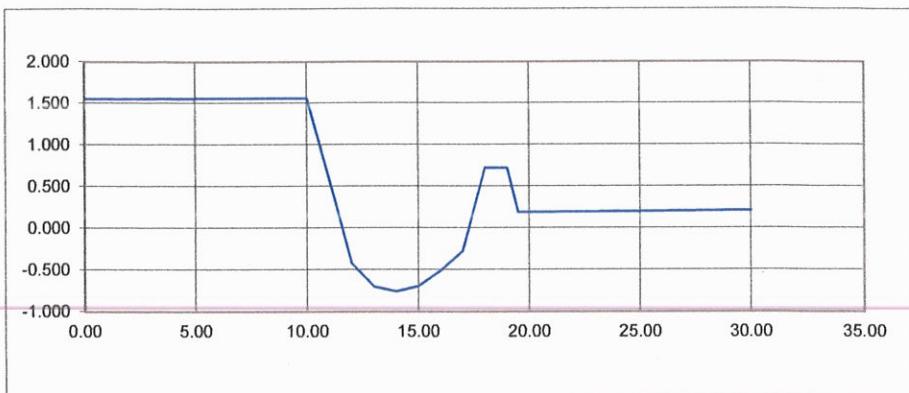




X - Section at km. 3.900

Pre-work

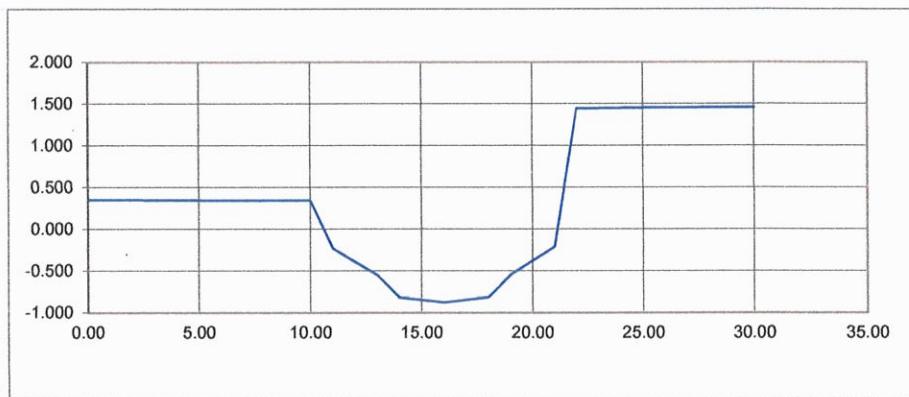
0.00	1.554	House area
5.00	1.559	
10.00	1.564	LB
12.00	-0.416	
13.00	-0.700	
14.00	-0.756	CL
15.00	-0.691	
16.00	-0.506	
17.00	-0.271	
18.00	0.724	RB
19.00	0.728	
19.50	0.194	
25.00	0.204	
30.00	0.214	Paddy land



X - Section at km. 4.024

Pre-work

0.00	0.356	Paddy land
5.00	0.351	
10.00	0.346	
11.00	-0.229	LB
13.00	-0.544	
14.00	-0.815	CL
16.00	-0.875	
18.00	-0.815	RB
19.00	-0.538	BC road
21.00	-0.205	
22.00	1.446	
25.00	1.456	
30.00	1.461	



  
S. M. Refat Jamil  
Executive Engineer  
Gopalganj WD Division  
BWDB, Gopalganj.

  
Subrata Kumar  
Sub-Divisional Engineer (A.C)  
Tungipara WD Sub-Division  
BWDB, Gopalganj.

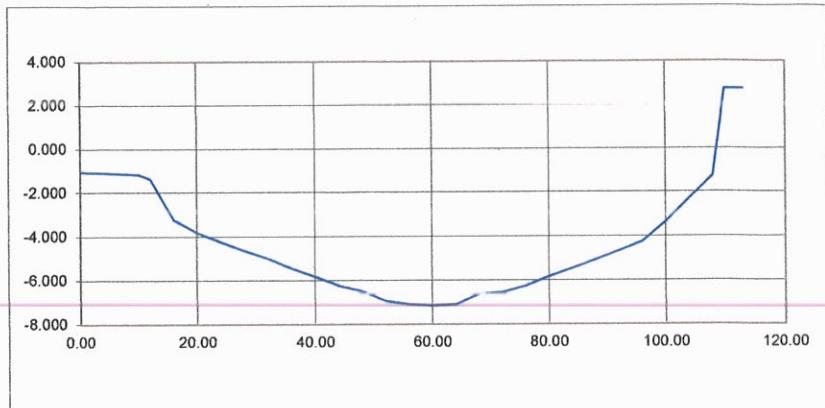
  
Md. Shahin Alom  
Sub-Assistant Engineer/SO  
Tungipara WD Section  
BWDB, Gopalganj.



Cross Section of Out fall River (Ghagor River) for Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km.

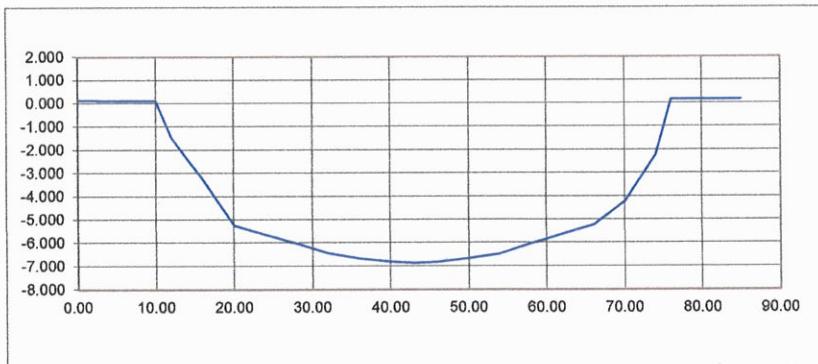
Cross section of Gagor River along the Gogra hati khal

Pre-work		
0.00	-1.019	Khal
5.00	-1.079	
10.00	-1.148	LB
12.00	-1.353	
16.00	-3.218	
20.00	-3.813	
24.00	-4.223	
28.00	-4.633	
32.00	-4.979	
36.00	-5.436	
40.00	-5.013	
44.00	-6.228	
48.00	-6.486	
52.00	-6.933	
56.00	-7.078	
60.00	-7.142	CL
64.00	-7.090	
68.00	-6.623	
72.00	-6.533	
76.00	-6.253	
80.00	-5.823	
84.00	-5.456	
88.00	-5.063	
92.00	-4.656	
96.00	-4.228	
100.00	-3.333	
104.00	-2.253	
108.00	-1.248	
110.00	2.747	RB
113.00	2.742	Bc road



Cross section of Gagor River 50 US from meeting point of Gogra hati khal

Pre-work		
0.00	0.152	Open Land
5.00	0.127	
10.00	0.121	LB
12.00	-1.483	
16.00	-3.253	
20.00	-5.228	
24.00	-5.633	
28.00	-6.018	
32.00	-6.428	
36.00	-6.656	
40.00	-6.796	
43.00	-6.858	CL
46.00	-6.803	
50.00	-6.643	
54.00	-6.456	
58.00	-6.012	
62.00	-5.612	
66.00	-5.218	
70.00	-4.218	
74.00	-2.223	
76.00	0.167	RB
80.00	0.172	
85.00	0.183	Open Land



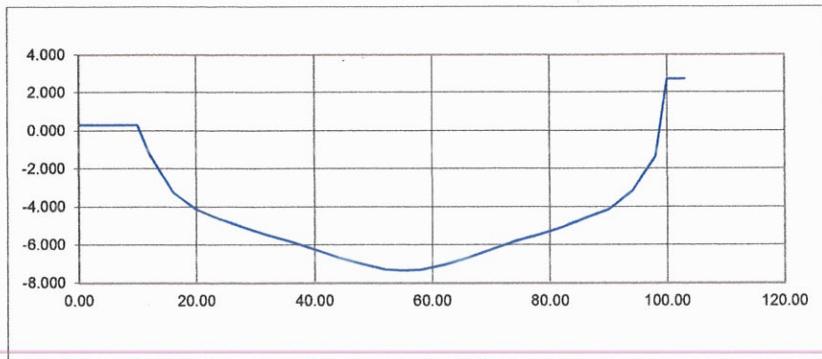
A

S

**Cross section of Gagor River 50 DS from meeting point of Gogra hati khal**

Pre-work

0.00	0.327	Opend land
5.00	0.322	
10.00	0.317	
12.00	-1.218	LB
16.00	-3.218	
20.00	-4.128	
24.00	-4.633	
28.00	-5.056	
32.00	-5.473	
36.00	-5.818	
40.00	-6.223	
44.00	-6.656	
48.00	-6.979	
52.00	-7.279	
55.00	-7.338	CL
58.00	-7.293	
62.00	-7.018	
66.00	-6.653	
70.00	-6.228	
74.00	-5.790	
78.00	-5.453	
82.00	-5.055	
86.00	-4.579	
90.00	-4.123	
94.00	-3.153	
98.00	-1.328	
100.00	2.732	RB
103.00	2.742	Bc road



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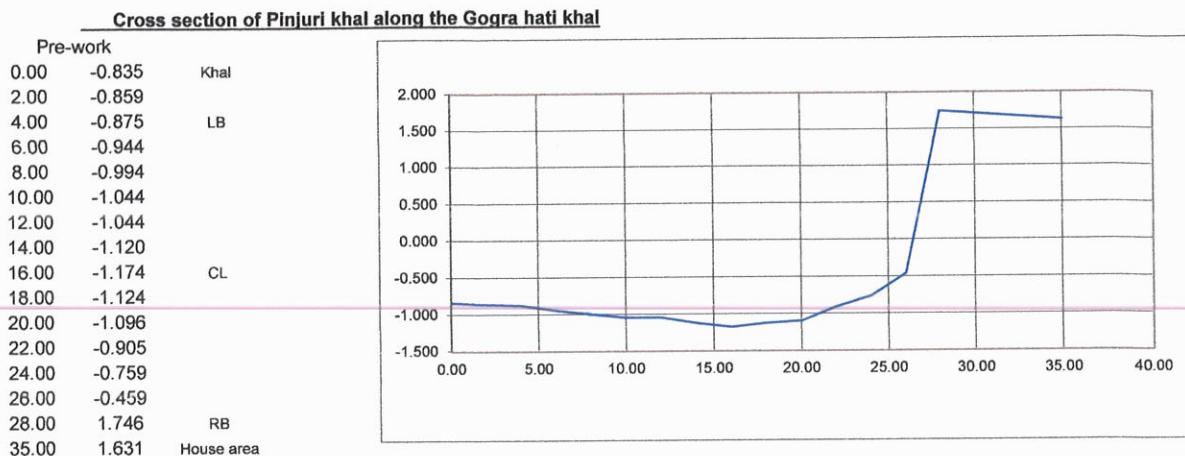
(Md. Shahin Alom)  
Sub-Assistant Engineer/SO  
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09/12/2024

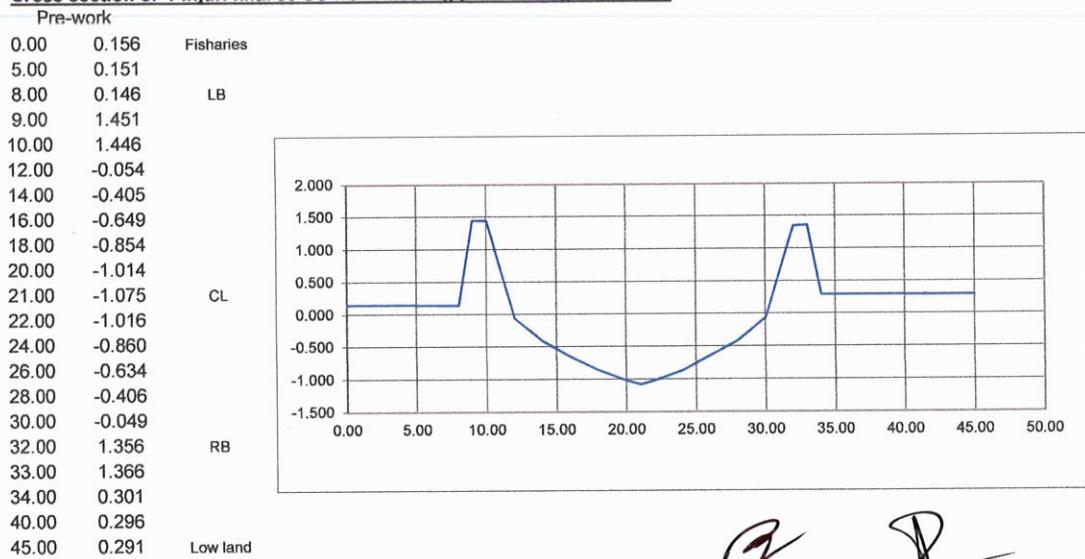
02-12-24

09/12/2024

Cross Section of Offtake khal (Pinjuri khal) for Re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km.



Cross section of Pinjuri khal 50 US from meeting point of Gogra hati khal

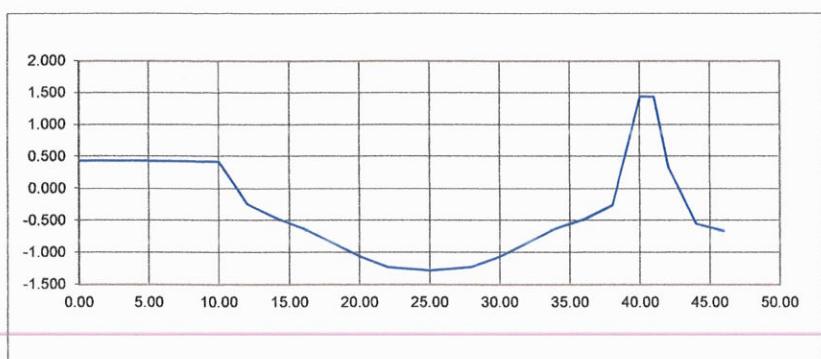


R S

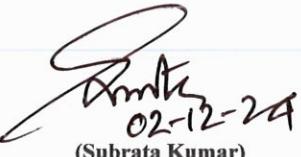
**Cross section of Gagor River 50 DS from meeting point of Gogra hati khal**

Pre-work

0.00	0.442	Paddy land
5.00	0.438	
10.00	0.423	LB
12.00	-0.238	
14.00	-0.454	
16.00	-0.624	
18.00	-0.838	
20.00	-1.054	
22.00	-1.224	
25.00	-1.274	CL
28.00	-1.216	
30.00	-1.054	
32.00	-0.839	
34.00	-0.616	
36.00	-0.471	
38.00	-0.254	
40.00	1.446	RB
41.00	1.441	
42.00	0.356	
44.00	-0.544	
46.00	-0.659	Pond



  
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Index map for re-excavation of Gogra Hati Khal from Km. 0.000 to Km. 4.024 = 4.024 Km.



Google Earth

Image: 2023-06-06

Start  
02-12-24  
End  
02-12-24  
Gogra Hati Khal Km. 0.000 to Km. 4.024 = 4.024 Km  
মোস সামাজিক প্রকল্প  
উপ-সচিবকারী শাকেবগঠী  
রবিনাথ পাণি উন্নন উপ-বিচার  
গোপালগঞ্জ পালি উন্নন উপ-বিচার  
বাগাড়তো, গোপালগঞ্জ।

**Monthly Total Rain fall Data for CL 409 (1987-2020), Haridaspur, Gopalganj**

Year	Januar y	February	March	April	May	June	July	August	September	October	November	December	Monthly	Monthly	Post.	Dry	
													Max	Min	Total	Monsoon T.	Total
1987	0.00	2.50	20.30	19.70	114.80	522.70	545.30	464.80	227.60	126.20	12.90	0.00	545.30	0.00	2056.80	154.80	1760.40
1988	0.00	51.00	50.00	132.50	272.60	484.90	283.00	191.90	72.40	240.10	141.00	0.00	484.90	0.00	1919.40	455.10	1032.20
1989	0.00	12.20	0.00	25.90	260.70	290.60	267.00	163.00	220.90	232.20	1.50	0.00	290.60	0.00	1474.00	286.60	941.50
1990	0.00	92.70	200.80	47.20	209.80	213.20	651.80	340.40	317.20	12.70	85.50	0.90	651.80	0.00	2172.20	457.80	1522.60
1991	45.00	37.00	91.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.00	0.00	173.00	91.00	0.00
1992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	0.00	0.00	186.50	287.80	340.70	263.50	433.30	339.30	109.70	32.70	0.00	433.30	0.00	1993.50	474.30	1376.80	142.40
1994	2.00	18.50	62.70	105.30	228.50	303.70	178.30	236.00	161.50	205.20	17.50	0.00	303.70	0.00	1519.20	396.50	879.50
1995	5.50	61.50	0.00	43.00	158.00	323.50	330.00	280.50	112.50	65.00	159.50	0.00	330.00	0.00	1539.00	201.00	1046.50
1996	8.50	11.50	33.00	140.50	92.00	411.00	193.00	258.50	103.00	226.50	31.00	0.00	411.00	0.00	1508.50	265.50	965.50
1997	6.00	20.00	63.00	156.50	118.00	316.50	309.50	326.50	431.00	26.50	8.00	24.50	431.00	6.00	1806.00	337.50	1383.50
1998	32.50	24.00	200.00	184.00	218.50	189.00	252.50	359.50	186.00	191.00	112.50	0.00	359.50	0.00	1949.50	602.50	987.00
1999	0.00	0.00	0.00	44.00	202.00	159.50	607.50	609.50	350.00	287.50	13.80	0.00	609.50	0.00	2273.80	246.00	1726.50
2000	0.00	0.00	127.50	307.50	213.00	254.00	385.00	288.90	275.50	0.00	0.00	385.00	0.00	1851.40	435.00	1140.90	275.50
2001	0.00	32.00	25.00	22.00	314.00	324.20	140.00	36.30	225.50	28.00	0.00	499.10	0.00	1645.60	361.00	999.60	253.00
2002	8.00	0.00	45.00	102.00	450.00	609.40	314.00	493.00	253.00	70.00	186.00	0.00	609.40	0.00	2467.40	597.00	1669.40
2003	0.00	8.00	78.00	95.40	28.00	258.00	0.00	258.00	177.00	110.00	257.00	21.00	258.00	0.00	1290.40	201.40	693.00
2004	0.00	0.00	2.00	85.00	135.20	349.90	146.20	261.30	817.00	195.00	0.00	0.00	817.00	0.00	1991.60	222.20	1574.40
2005	0.00	15.00	92.00	23.00	176.30	116.20	517.20	120.00	70.00	447.00	0.00	0.00	517.20	0.00	1576.70	291.30	823.40
2006	0.00	0.00	0.00	20.00	0.00	150.00	323.00	280.00	774.00	0.00	0.00	0.00	774.00	0.00	1547.00	20.00	1527.00
2007	0.00	100.00	0.00	0.00	85.00	310.00	517.00	290.00	351.00	303.00	147.00	0.00	517.00	0.00	2103.00	85.00	1468.00
2008	57.00	12.00	22.00	15.00	228.00	243.00	553.00	238.00	304.00	354.00	0.00	0.00	553.00	0.00	2026.00	265.00	1338.00
2009	0.00	0.00	10.00	20.00	112.00	118.00	293.00	379.00	206.00	244.00	0.00	0.00	379.00	0.00	1382.00	142.00	996.00
2010	0.00	0.00	5.00	144.00	330.00	218.00	69.00	78.00	172.00	0.00	3.00	330.00	0.00	1019.00	149.00	695.00	
2011	0.00	0.00	16.00	39.00	98.00	555.00	220.00	456.70	58.00	0.00	0.00	555.00	0.00	1442.70	153.00	1289.70	
2012	0.00	0.00	0.00	67.00	138.00	217.00	312.00	284.00	267.00	76.00	92.00	0.00	312.00	0.00	1453.00	205.00	1080.00
2013	0.00	7.00	14.00	40.00	266.00	78.00	295.00	491.00	171.00	430.00	0.00	0.00	491.00	0.00	1792.00	320.00	1035.00
2014	0.00	18.00	40.00	0.00	133.00	621.00	414.00	210.00	252.00	10.00	0.00	621.00	0.00	1707.00	173.00	1497.00	
2015	0.00	37.00	166.00	0.00	201.00	465.00	353.00	242.00	0.00	0.00	0.00	465.00	0.00	1464.00	203.00	1261.00	
2016	0.00	7.00	0.00	351.00	458.00	634.00	268.00	59.00	43.00	0.00	0.00	634.00	0.00	1820.00	351.00	1419.00	
2017	0.00	0.00	11.00	64.00	168.00	247.00	769.00	425.00	192.00	265.00	0.00	0.00	769.00	0.00	2141.00	243.00	1633.00
2018	0.00	0.00	218.00	331.00	323.00	102.00	118.00	8.00	0.00	0.00	0.00	0.00	333.00	0.00	1432.00	549.00	875.00
2019	0.00	257.00	0.00	171.00	168.00	213.00	541.00	317.00	231.00	266.00	137.00	0.00	541.00	0.00	2301.00	339.00	1302.00
2020	20.00	0.00	120.00	306.00	307.00	204.00	377.00	0.00	0.00	0.00	0.00	0.00	377.00	0.00	1334.00	426.00	888.00

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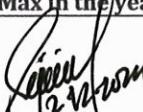
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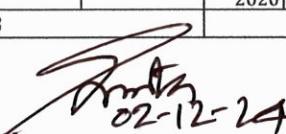
**Water Level Data of SW 198, Haridaspur, Madaripur Beel Route Channel  
Gopalganj O&M Division, BWDB, Gopalganj.**

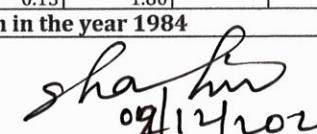
District Name	Upazila Name	River Name	Station ID	Station Name	Year	Yr_Max (m PWD)	Yr_Min (m PWD)	Yr_Ave (m PWD)	Max (m PWD)	Min (m PWD)
					1959	3.96	0.64	2.29		
					1960	1.40	0.40	0.86		
					1962	4.28	0.70	2.20		
					1963	4.11	0.47	2.09		
					1964	4.63	0.30	2.04		
					1965	1.33	0.30	0.85		
					1968	4.21	0.21	2.38		
					1969	4.16	0.35	2.10		
					1970	4.11	0.18	1.87		
					1971	4.54	0.17	2.17		
					1972	2.97	0.15	1.44		
					1973	3.93	0.21	1.87		
					1974	4.45	0.15	1.86		
					1975	3.13	0.12	1.27		
					1976	3.47	0.00	1.63		
					1977	3.63	0.23	1.78		
					1978	3.70	0.56	2.18		
					1979	3.23	0.15	1.53		
					1980	1.31	0.06	0.70		
					1981	3.58	0.30	1.94		
					1982	3.41	0.13	1.54		
					1983	3.87	0.00	1.88		
					1984	4.25	-0.08	1.95		
					1985	3.34	0.34	1.81		
					1986	3.57	0.05	1.63		
					1987	4.50	0.06	1.76		
					1988	4.85	0.00	1.85		
					1989	2.80	0.16	1.56		
					1990	3.34	0.17	1.65		
					1991	1.69	0.16	0.87		
					1992	2.90	0.41	1.74		
					1993	3.40	0.10	1.82		
					1994	3.17	0.18	1.61		
					1995	4.12	0.52	2.23		
					1996	3.87	0.37	2.29		
					1997	2.25	0.01	1.02		
					1998	5.05	0.04	2.04		
					1999	3.64	0.40	1.89		
					2000	3.36	0.23	1.74		
					2001	2.95	0.29	1.73		
					2002	3.55	0.10	1.66		
					2003	2.90	0.18	1.28		
					2004	2.08	0.54	1.36		
					2006	2.99	0.32	1.94		
					2007	4.00	0.02	1.83		
					2008	3.68	0.63	1.87		
					2009	3.13	0.55	1.66		
					2010	3.37	0.52	1.85		
					2011	3.52	0.45	1.69		
					2012	2.89	0.22	1.69		
					2013	3.05	0.01	1.64		
					2014	2.92	0.35	1.54		
					2015	3.05	0.42	1.74		
					2016	1.08	0.89	0.96		
					2017	3.97	1.53	2.89		
					2018	2.95	0.28	1.54		
					2019	3.05	0.03	1.41		
					2020	3.78	0.15	1.80		

\* Max in the year 1998

\*Min in the year 1984

  
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