

Haor Flood Management and Livelihood Improvement Project (BWDB Part)

Recent Progress Report

**Presented By
A.K.M Shamsul Alam,
Project Director**

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Contents of The Presentation

1. Flood Situation in the project area(Damage)
2. Design of different type of protection work.
3. Activity plan for civil works next two dry seasons
4. Status of agriculture component and plan for next FY
5. Discussion on civil works monitoring format

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- 1. Flood Situation in the project area(Damage)**
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Haor area during pre monsoon



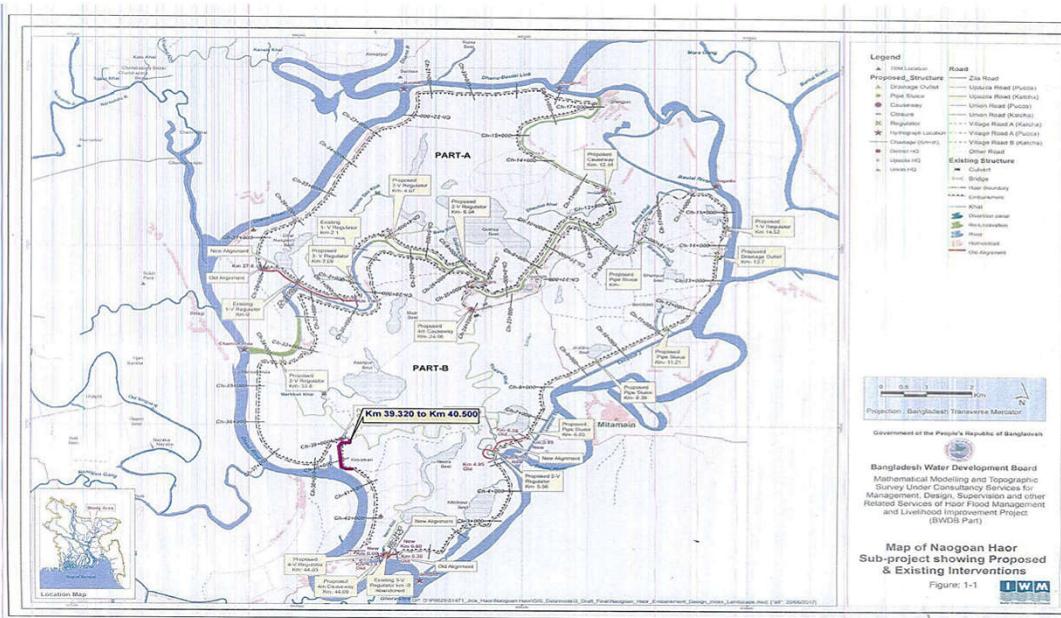
4

Boro rice field during dry season in haor area



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1.1 FINDINGS (NOAGAON HAOR PART-B 39.32 TO 40.50





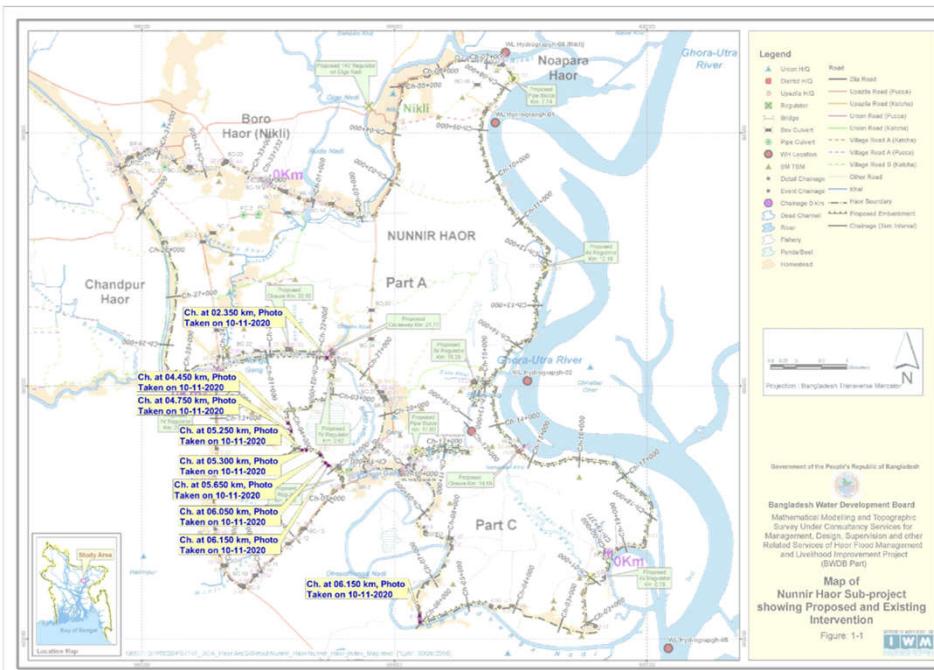
1.2 FINDINGS (DHARMAPASH RUI BEEL AT3.500 KM 29-10-2020)





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1.3 FINDINGS (NUNNIR HAOR)



Nunnir Haor Part B
Ch. at 02.350 km
Photos taken on 10-11-2020



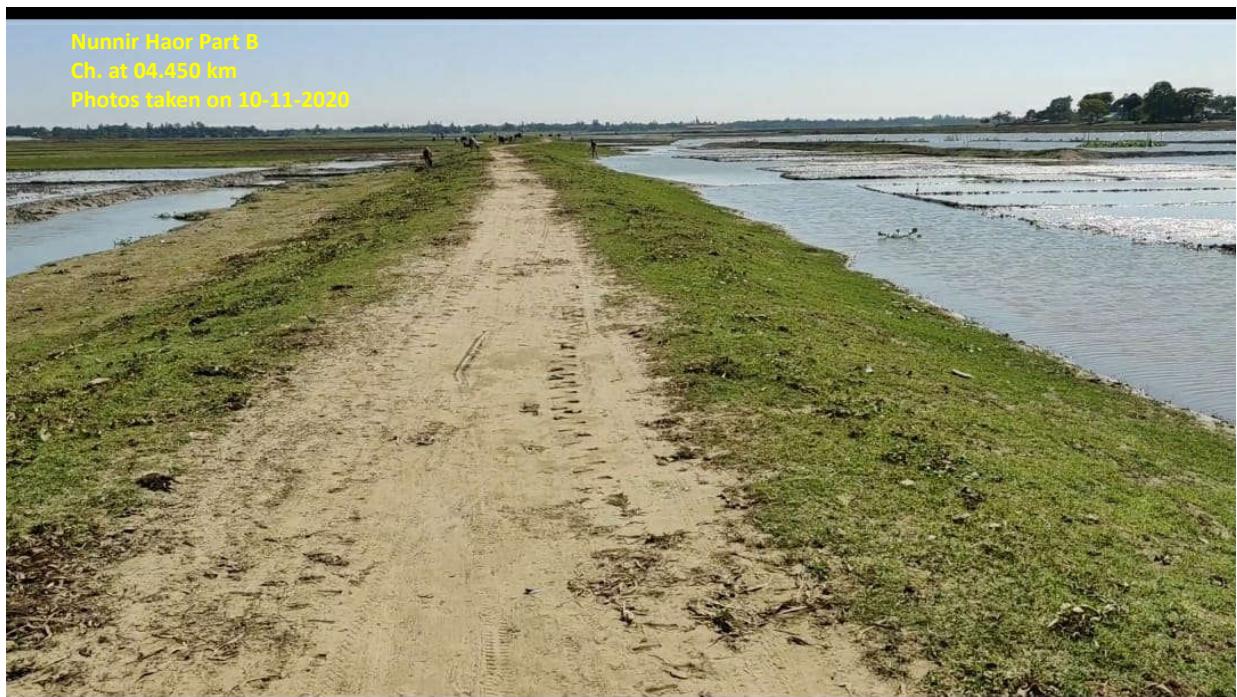
Nunnir Haor Part B
Ch. at 05.650 km
Photos taken on 10-11-2020



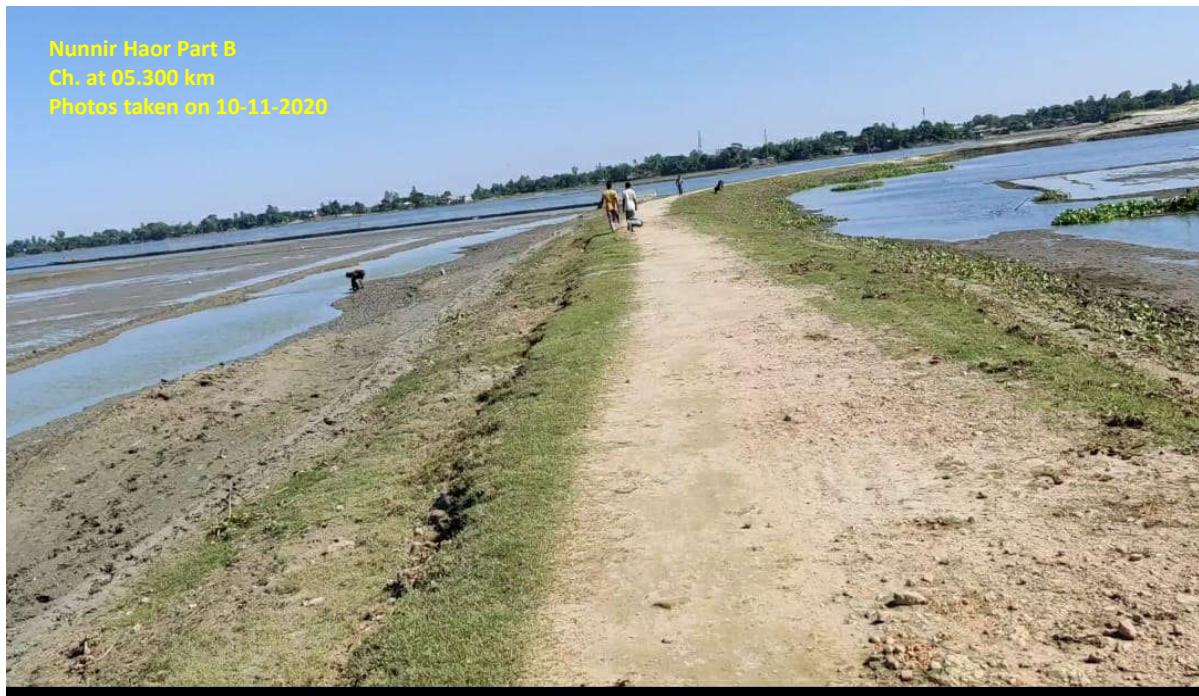
Nunnir Haor Part B
Ch. at 04.750 km
Photos taken on 10-11-2020



Nunnir Haor Part B
Ch. at 04.450 km
Photos taken on 10-11-2020



Nunnir Haor Part B
Ch. at 05.300 km
Photos taken on 10-11-2020



Nunnir Haor Part B
Ch. at 05.250 km
Photos taken on 10-11-2020



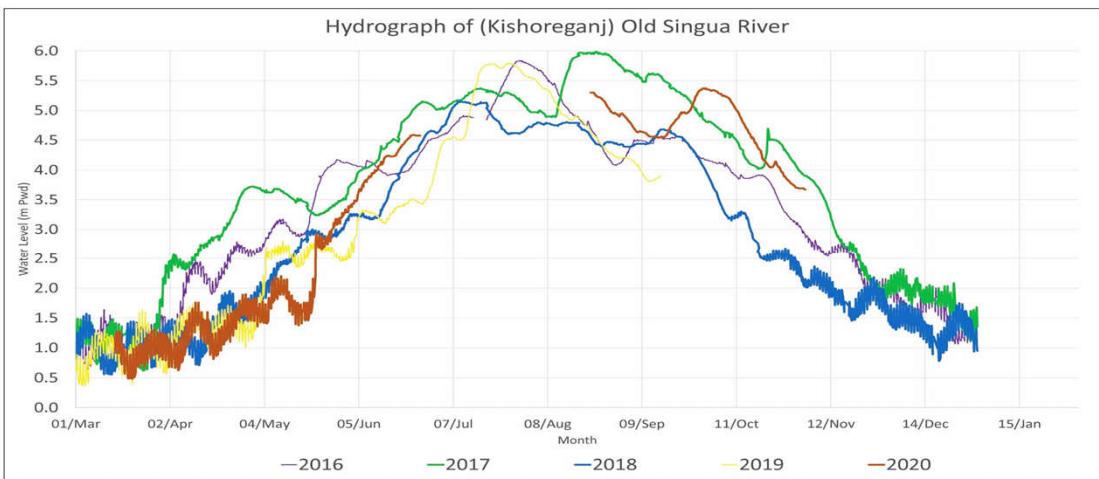
Nunnir Haor Part B
Ch. at 06.050 km
Photos taken on 10-11-2020



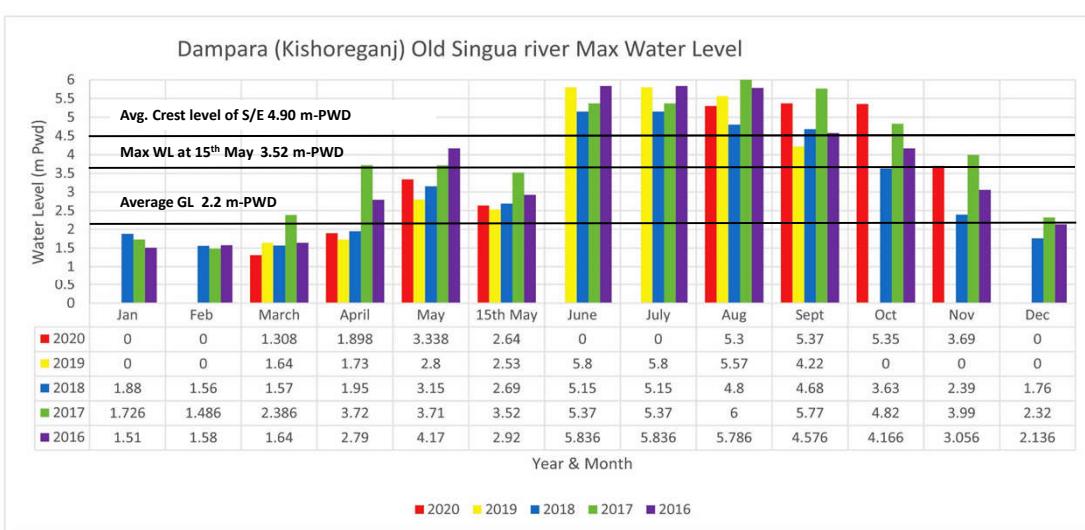
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Nunnir Haor Part B
Ch. at 06.150 km
Photos taken on 10-11-2020

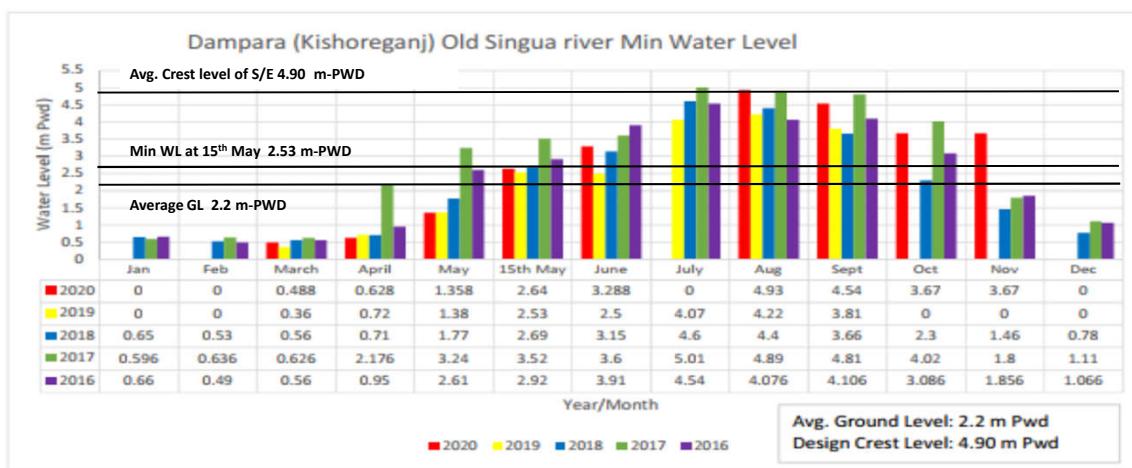




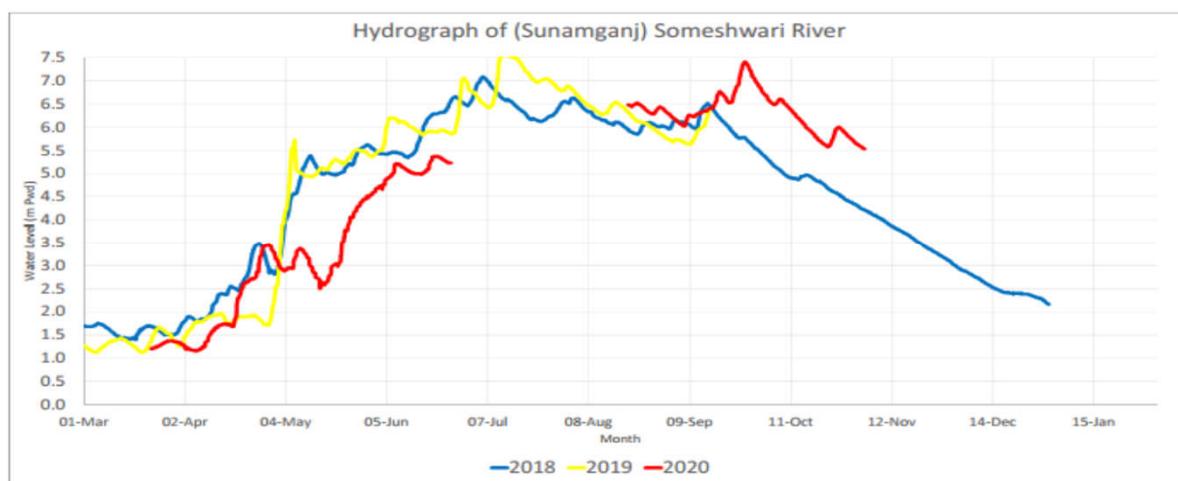
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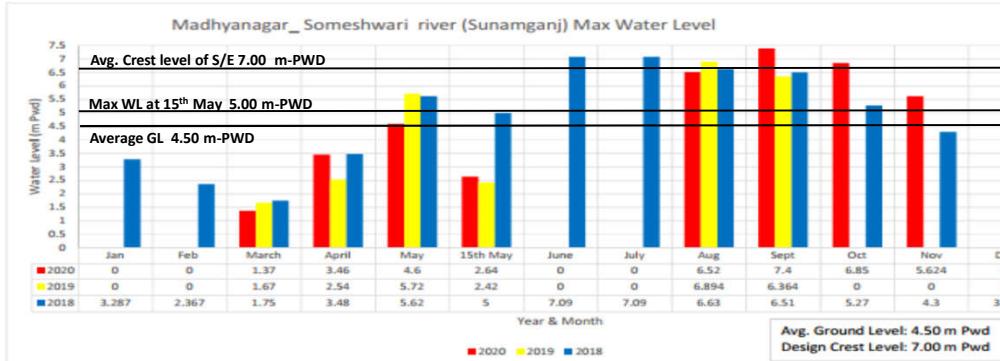
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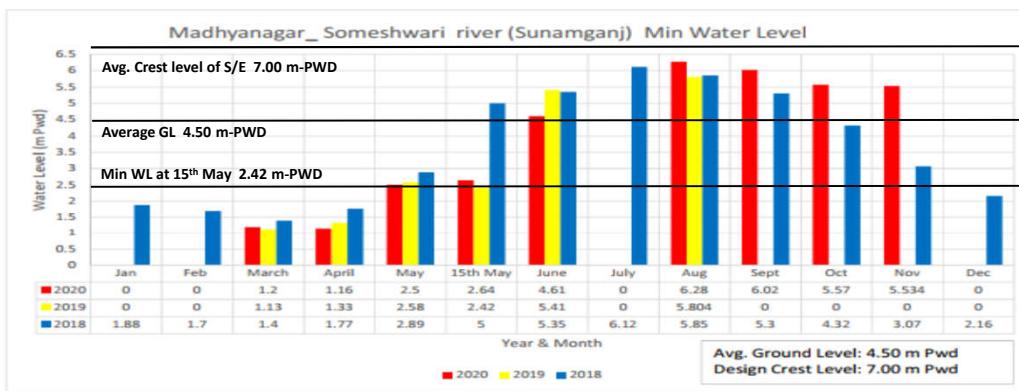
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STATUS OF PROTECTION WORK

PROCUREMENT STATUS

- Tender is already live.
- The work will be undertaken in the next dry season. (Probably Within 15/12/2020).

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Total estimated cost for 7 (Seven) nos. Packages for Protection of Damaged Portion of Embankment:										
Sl. No.	Name of Haor	Type- A (Length in km.)	Type- B5 (Length in km.)	Type- D (Length in km.)	Fuse Type (Length in km.)	Total length (km)	Total estimated cost (in Million BDT)	Date of Tender Floated	Date of Tender Receive	Remarks
1	2	3	4	5	6	7	8	9	10	11
1	Naogaon Haor Part-A Kishoregonj, BWDB/Kish/HFMLIP/PW-30).	1.681	0.700	0	0	2.381	146.983	11/8/2020	12/7/2020	
2	Naogaon Haor Part-A Kishoregonj, BWDB/Kish/HFMLIP/PW-31)	0.990	1.640	0	0.030	2.660	120.028	11/8/2020	12/7/2020	
3	Naogaon Haor Part-B Kishoregonj (BWDB/Kish/HFMLIP/PW-32)	1.082	1.542	0	0.030	2.654	156.373	11/8/2020	12/7/2020	
4	Kishoregonj Naogaon Haor Part-B, Kishoregonj (BWDB/Kish/HFMLIP/PW-33)	1.090	0	1.155	0.000	2.245	146.843	11/8/2020	12/7/2020	
5	Dakshiner Haor/ Naogaon Haor (BWDB/Kish/HFMLIP/PW-34).	1.094	1.097	0	0.045	2.236	147.702	11/8/2020	12/7/2020	
6	Dakshiner Haor/Noapara Haor/ Nunnir Haor (BWDB/Kish/HFMLIP/PW-35)	0.620	4.425	0	0	5.045	91.462	11/8/2020	12/7/2020	
7	Dharmapasha Rui beel Project. Sunamgonj (BWDB/Sunam/HFMLIP/PW-07)	0.341	3.039	0	0.060	3.440	127.007	10/21/2020	11/23/2020	
	Total	6.898	12.443	1.155	0.165	20.661	936.398			

GoB=53.58 (Million BDT)
JICA=40.06 (Million JPY)

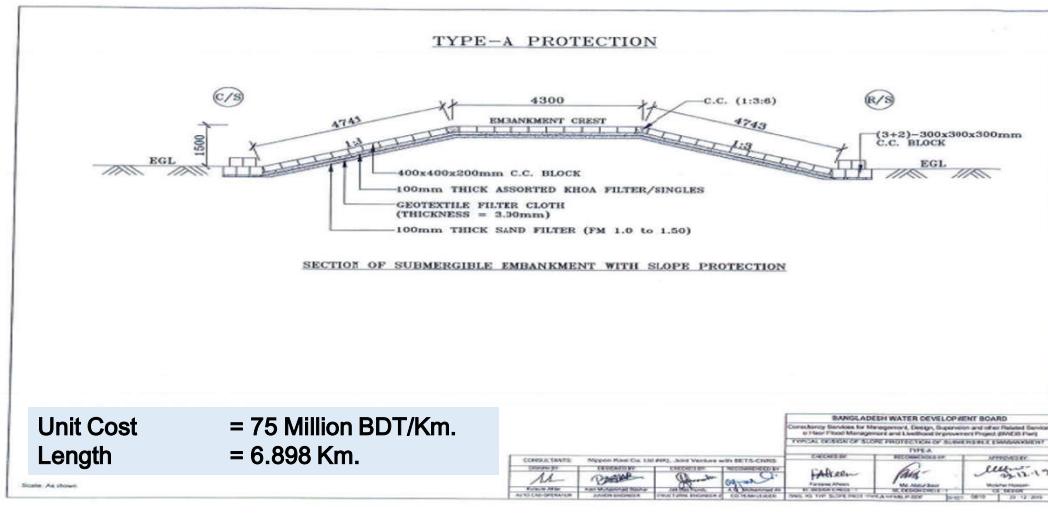
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REVISED DESIGN/DESIGN OF THE PILOT EMBANKMENT CONSTRUCTION AND PLAN FOR IMPLEMENTATION OF PILOT CONSTRUCTION.

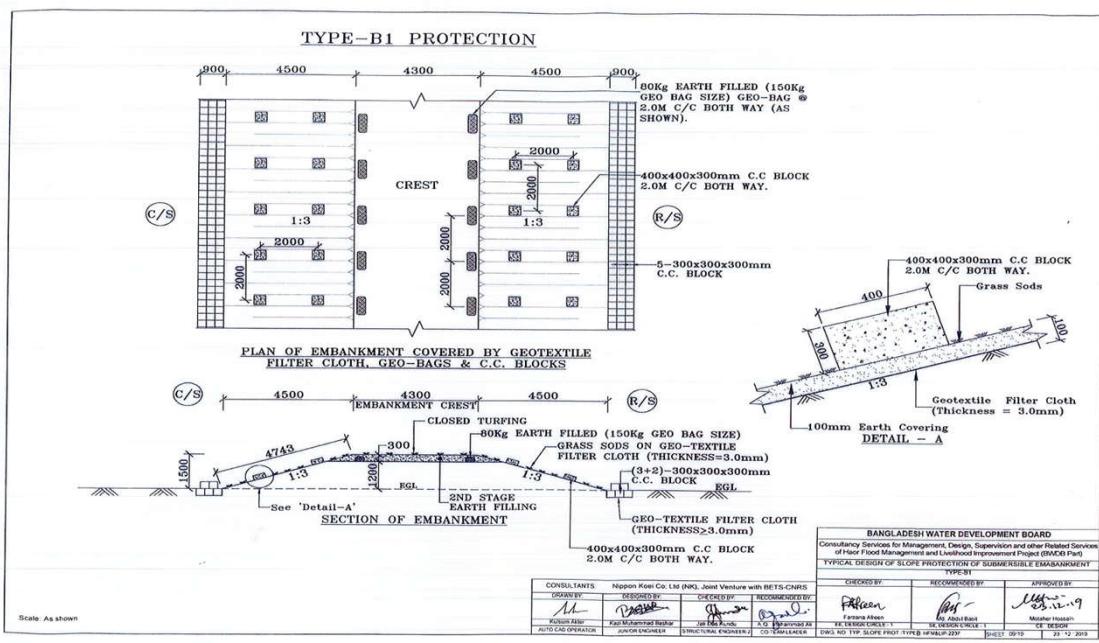
- | | |
|--|---|
| I. Type A Protection Work
II. Type B1 Protection work
III.Type B2 Protection work
IV.Type B3 Protection work
V.Type B4 Protection work
VI.Type B5 Protection work | VII.Type C1 Protection Work
VIII.Type C2 Protection work
IX. Type C3 Protection work
X. Type C4 Protection work
XI. Type C5 Protection work
XII.Type D Protection Work
XIII.Flood Fuse |
|--|---|

DESIGN OF DIFFERENT TYPE OF PROTECTION WORK

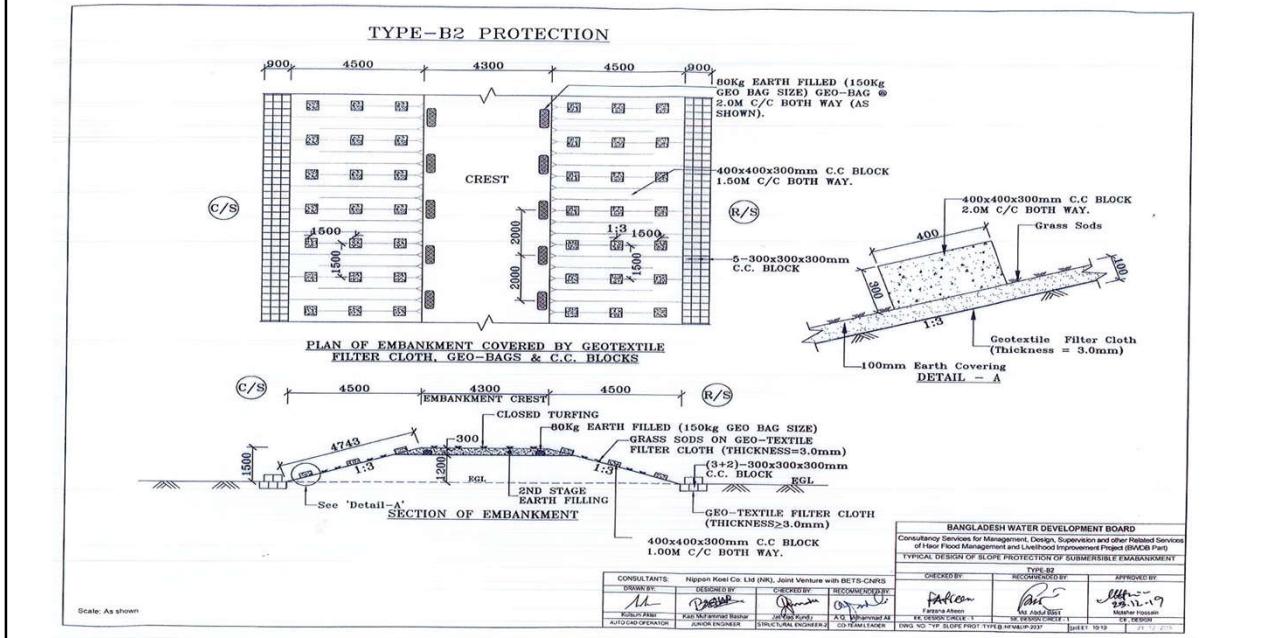
PROTECTION TYPE (TYPE A)



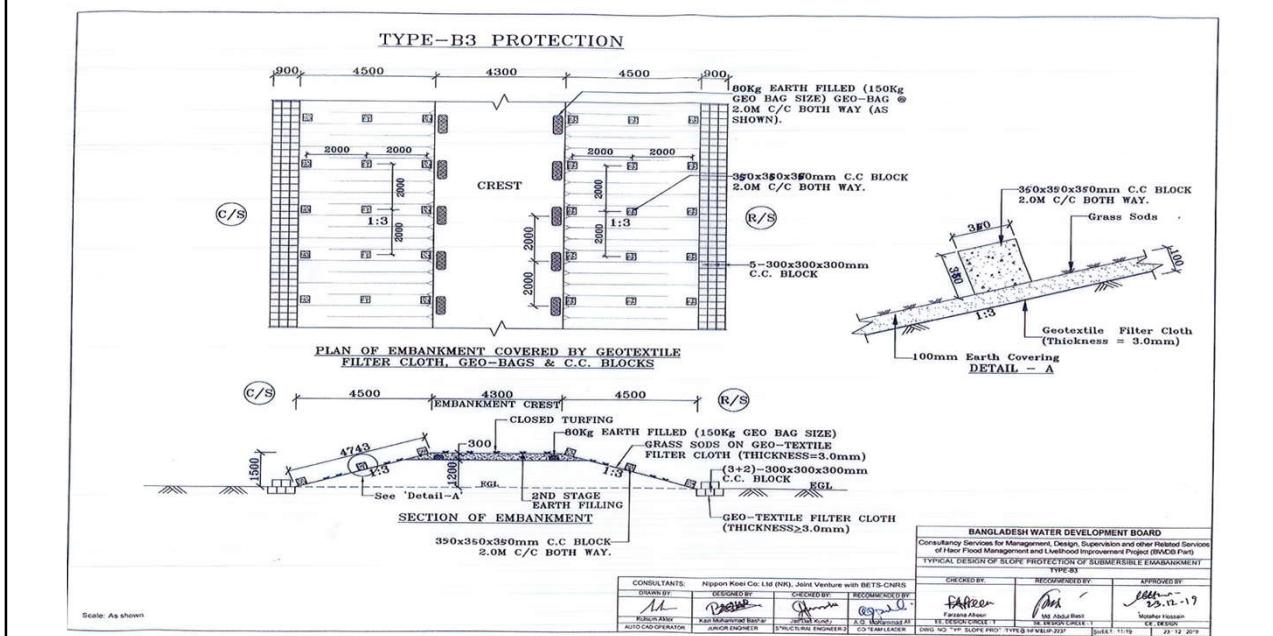
PROTECTION TYPE (TYPE B1)



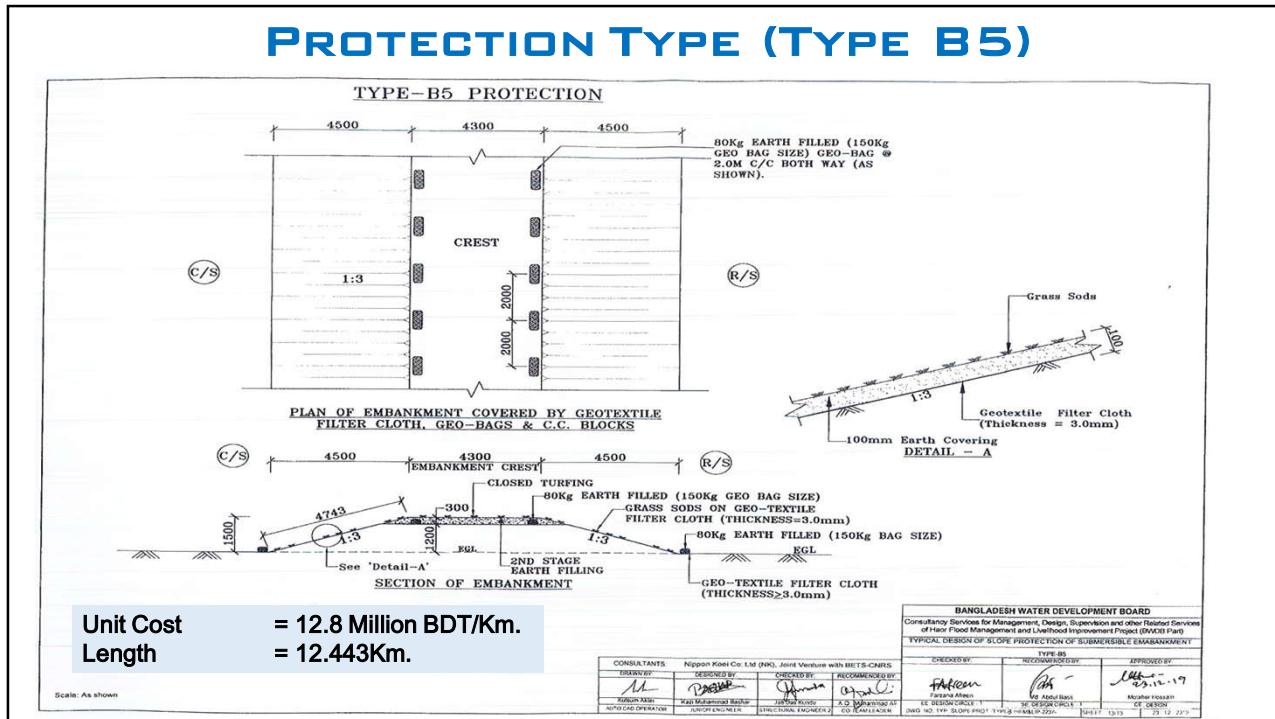
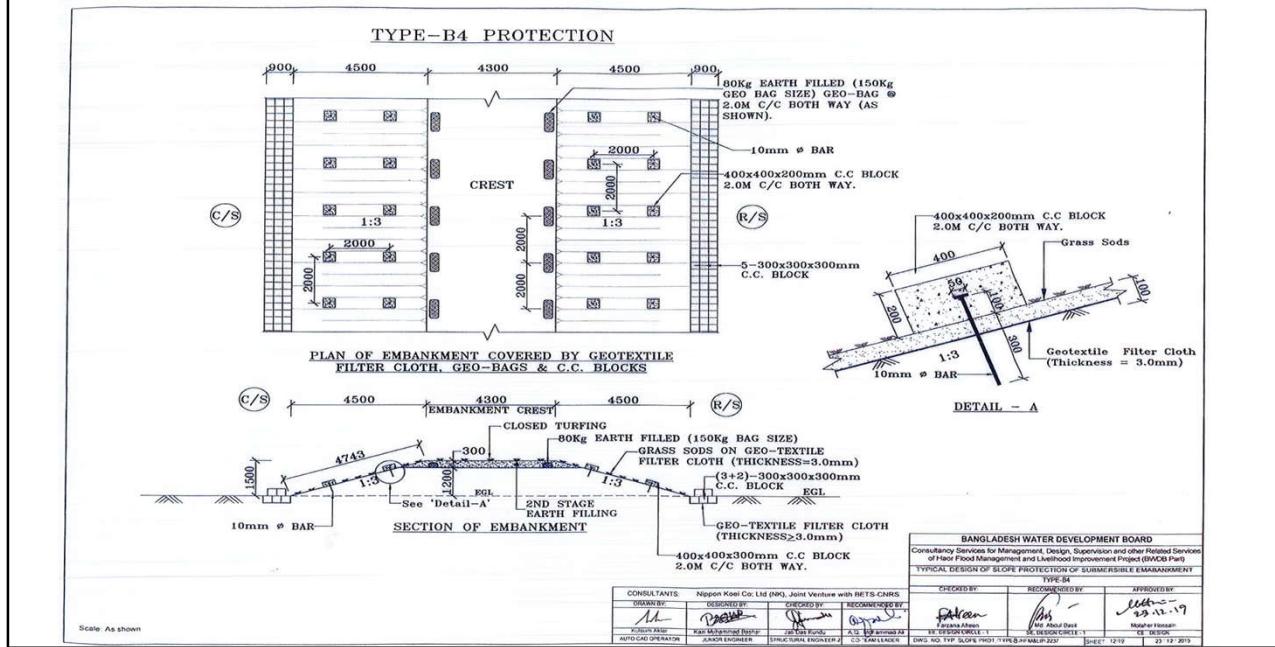
PROTECTION TYPE (TYPE B2)



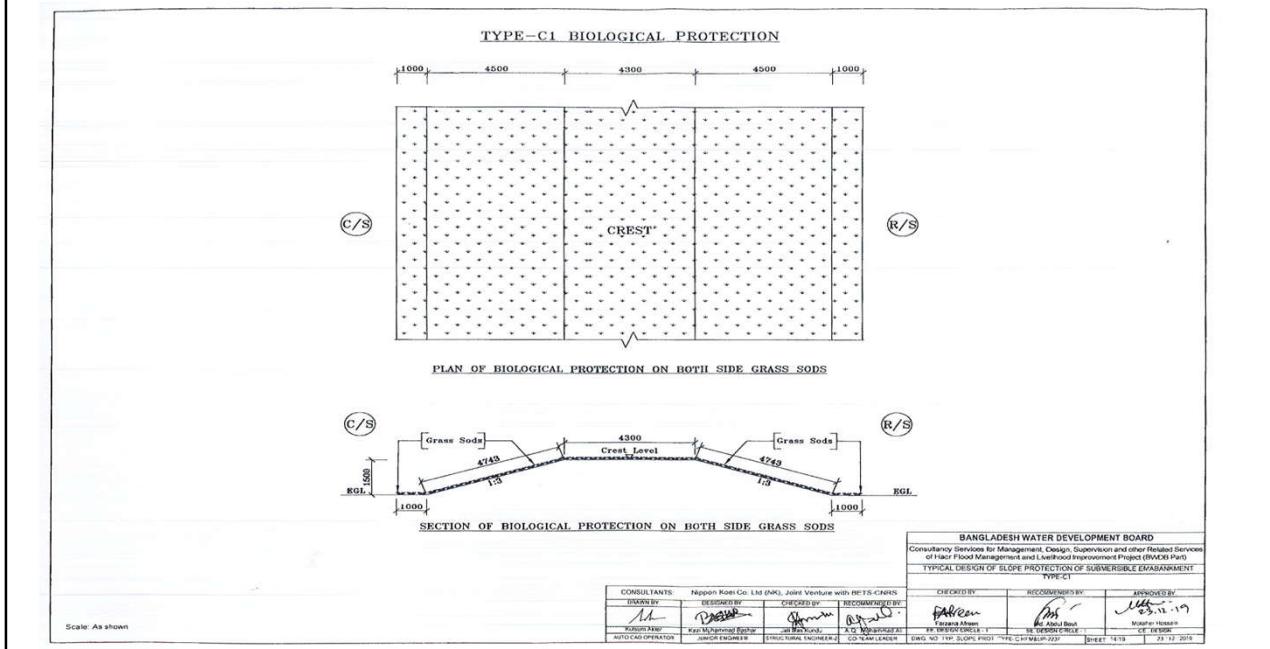
PROTECTION TYPE (TYPE B3)



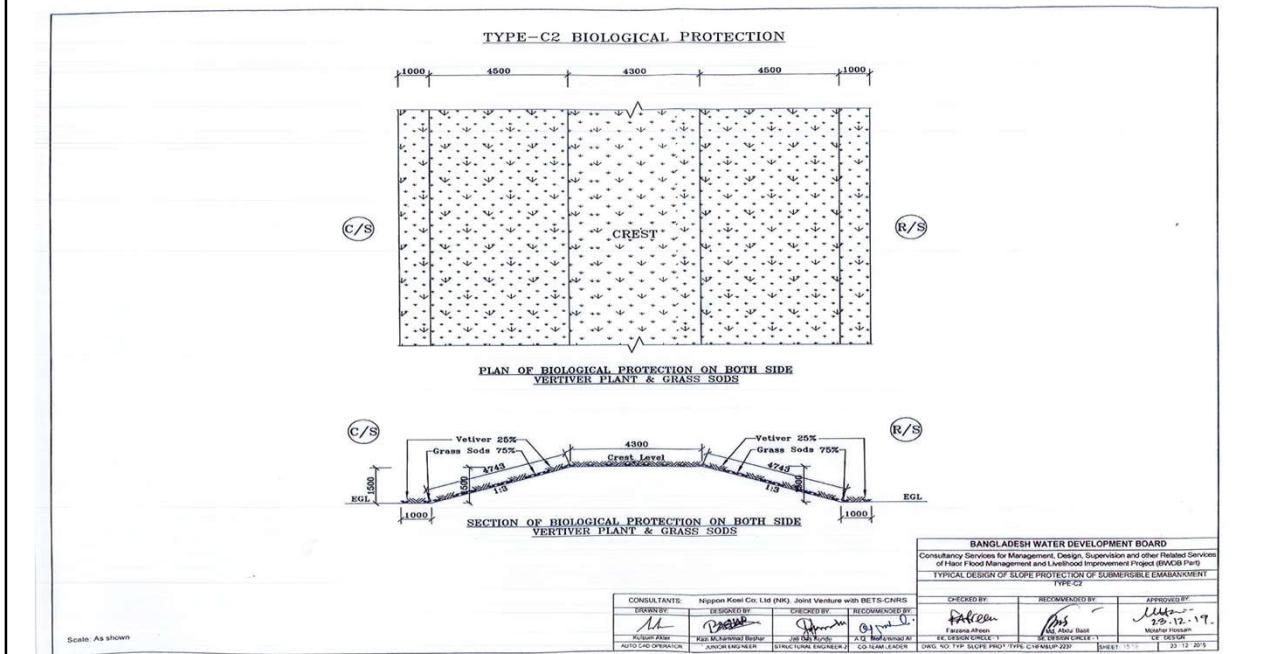
PROTECTION TYPE (TYPE B4)



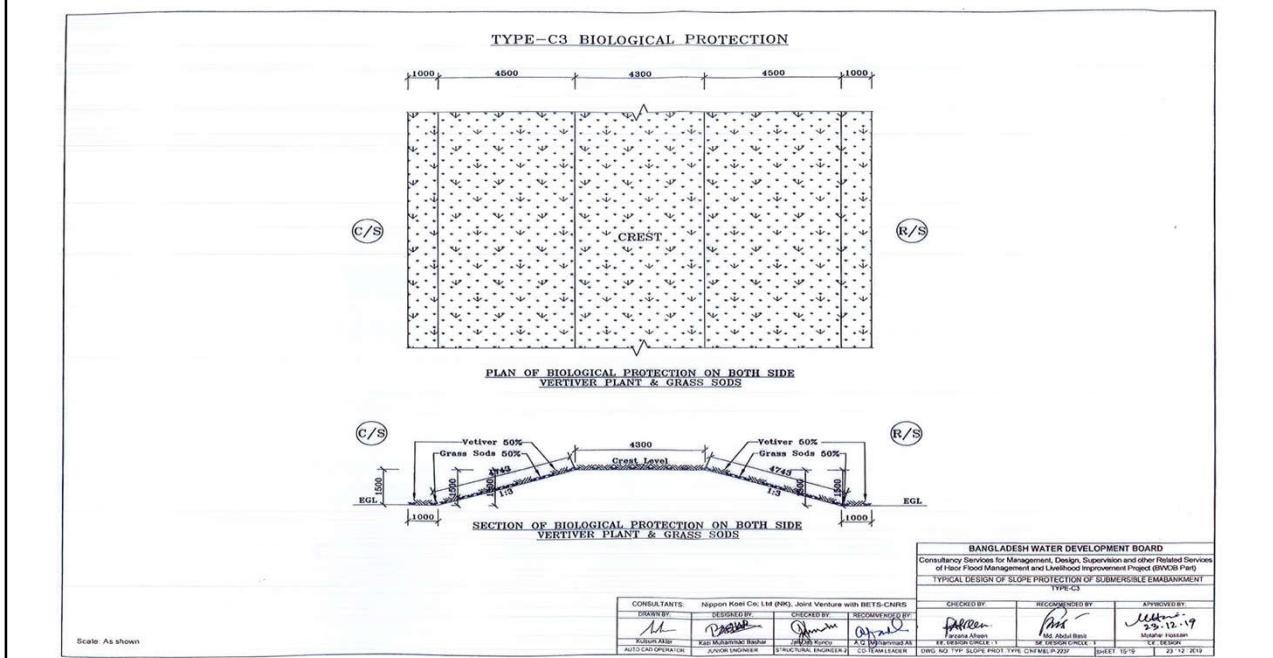
PROTECTION TYPE (TYPE C1)



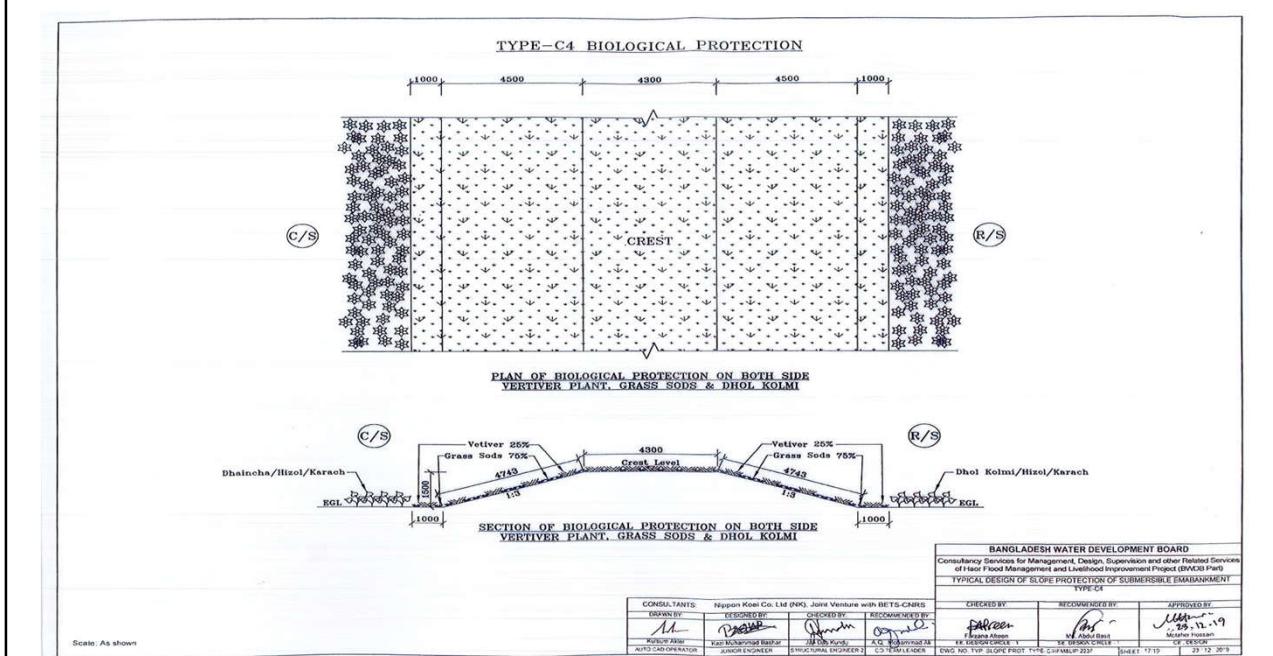
PROTECTION TYPE (TYPE C2)



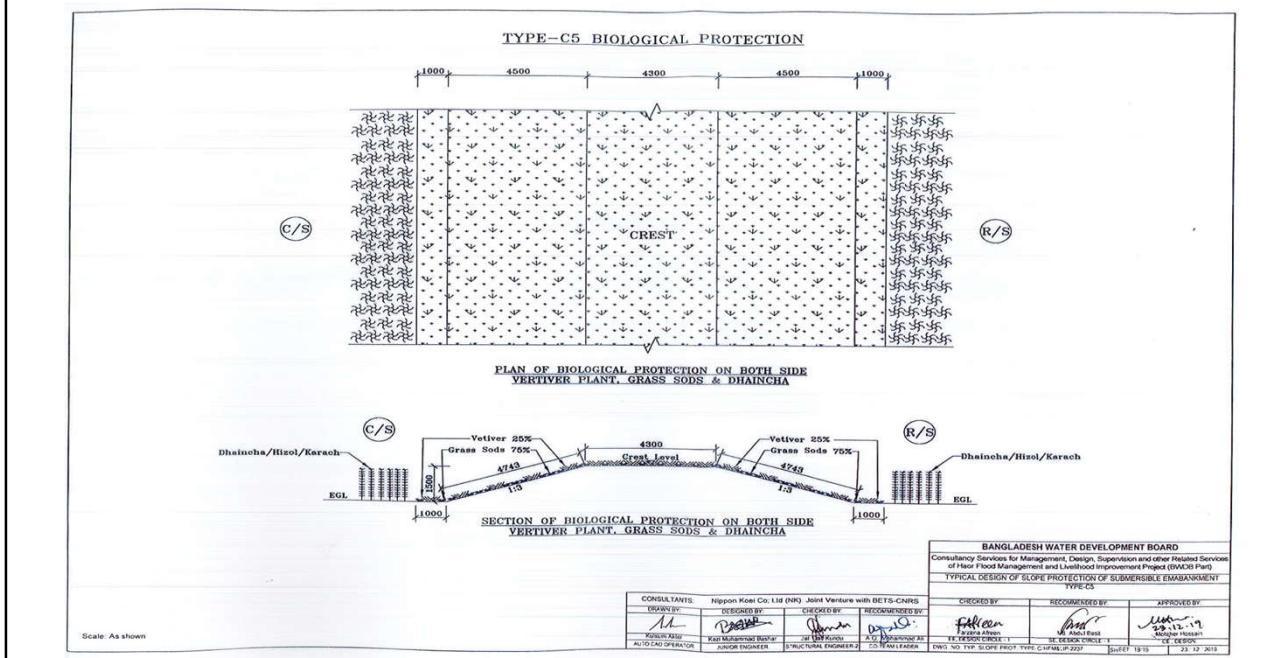
PROTECTION TYPE (TYPE C3)



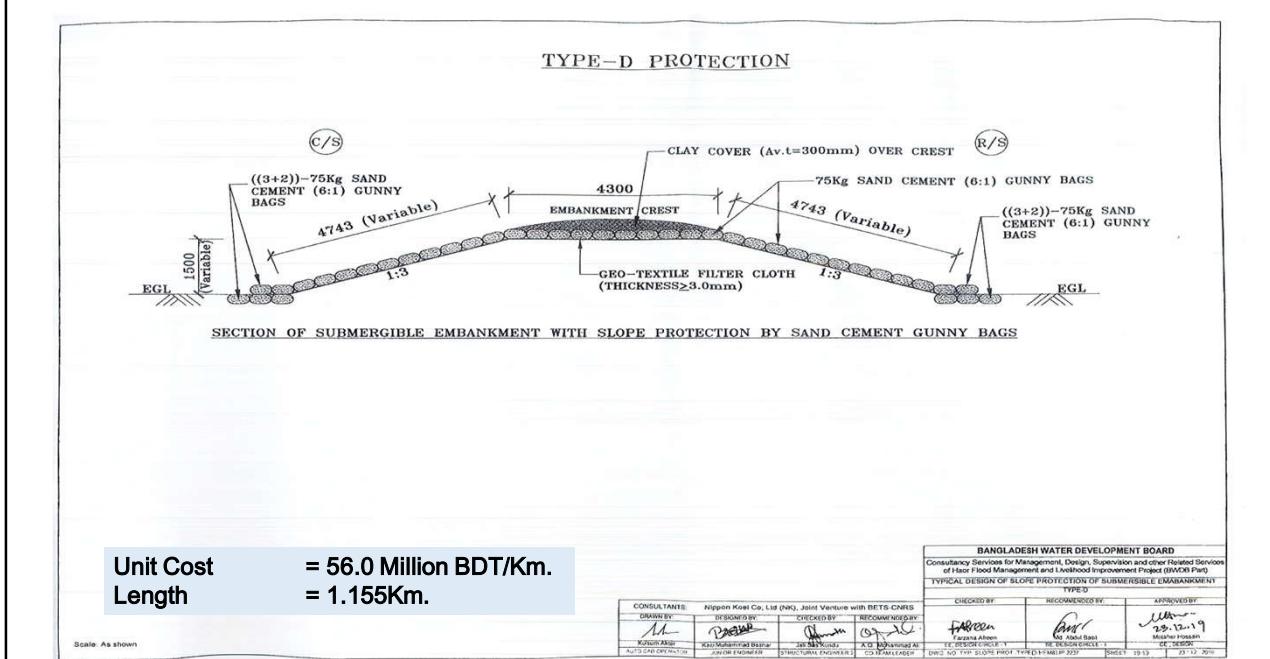
PROTECTION TYPE (TYPE C4)



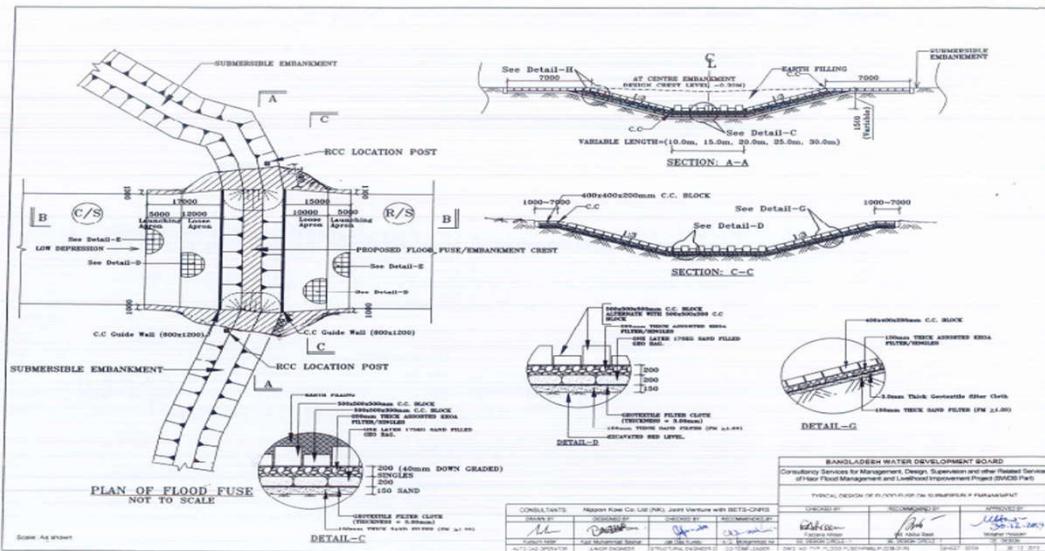
PROTECTION TYPE (TYPE C5)



PROTECTION TYPE (TYPE D)

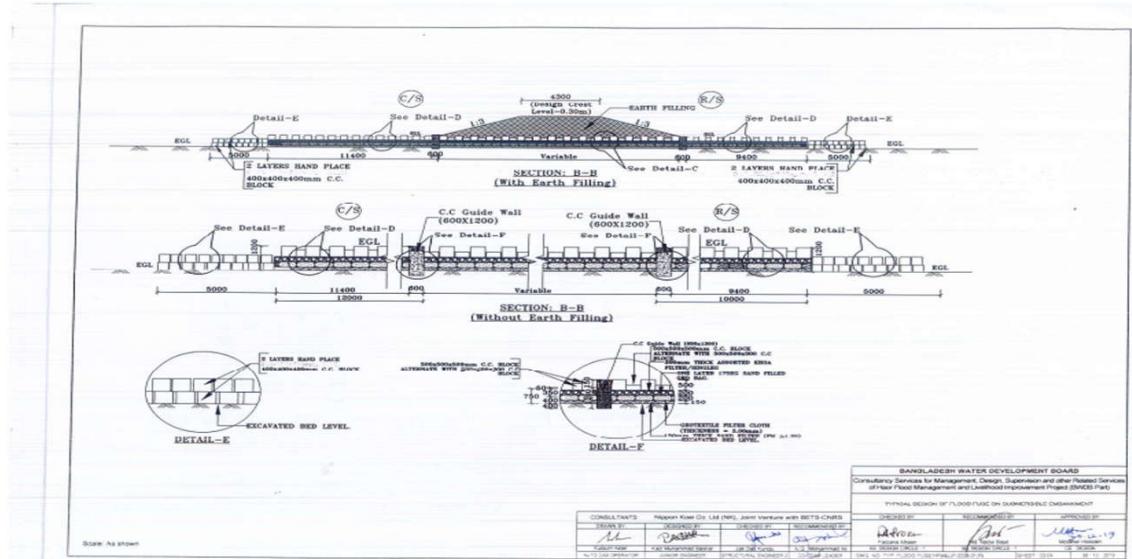


FLOOD FUSE



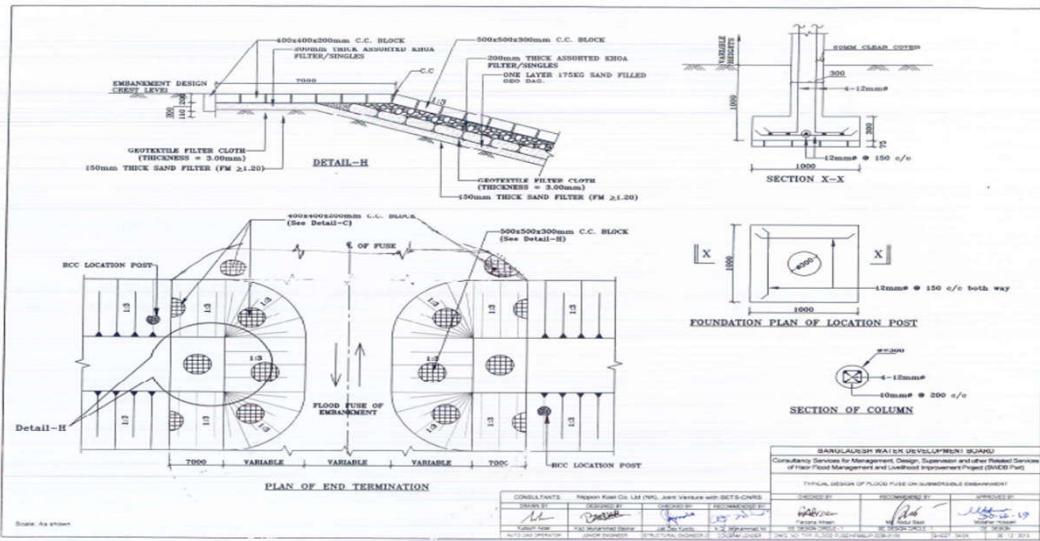
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FLOOD FUSE



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FLOOD FUSE



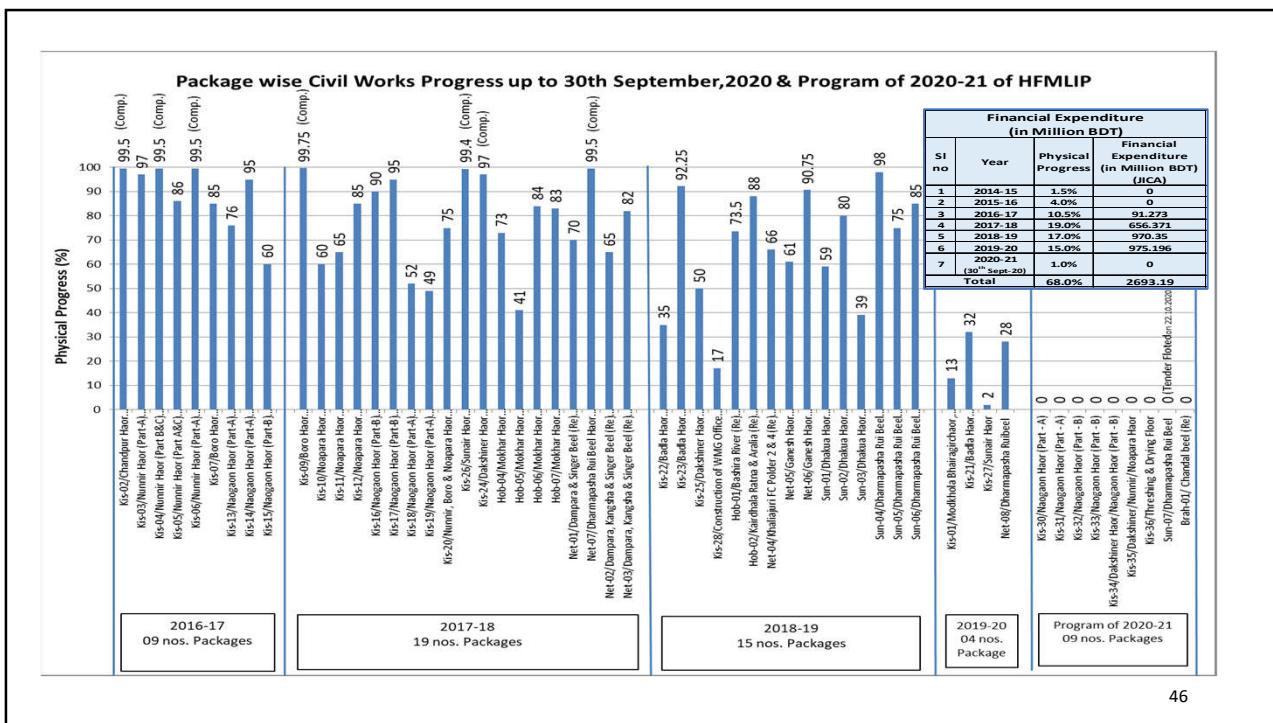
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PHYSICAL ACHIEVEMENT UP TO 30TH OCTOBER, 2020

Sl No.	Name	Quantity	No of Package	Cost in Crore Taka	On going Packages	Progress up to 30 th October, 2020		Progress (%)
						6	7	
1	2	3	4	5	6	7	8	
New Haor: (14 Nos.)								
1	Construction of Submersible Embankment	263.24 km		119.53		156 km (Full) +54 km (Part)= 210 km	72.57%	
2	Re-excavation of Khal/River	318.20 km		97.29		187 km (Full) +73.00 km (Part) = 260 km	72.53%	
3	Construction of Regulator/Causeway/Drainage Box Outlet	137nos (57+35+1+44)		203.11		50 nos. (Full) +30 nos. (Part) = 80 Nos.	49.64%	
4	Construction of Irrigation Inlet	131 nos.		12.61		43 nos. (Full) +17 Nos. (Part) = 60 Nos.	40.61%	
5	Rehabilitation of Regulator	8 nos.		1.66		1 No (Full) = 1 No.	12.50%	
Rehabilitation Haor: (15 Nos.)								
1	Construction of Submersible Embankment	87.03 km		17.85		51 km (Full) +4 Km (Part) = 55 km.	61.36%	
2	Construction of Full Embankment	84.31 km		25.50		53 km (Full) +12 km (Part) = 65 km	71.40 %	
3	Re-excavation of Khal/River	143.00 km		25.15		65 km (Full) +15.00 km (Part) = 80 km	51.75%	
4	Re-installation/Construction of regulator/Causeway	7 nos.		15.15		1 No. (Full) = 1 No.	14.29%	
5	Replacement of Gate	104 nos.		3.63		43 nos. (Full) = 43 Nos.	41.35%	
6	Construction of WMG Office	60 Nos.		13.80		4 nos. (Full) +4 Nos. (Part) = 8 Nos.	10.67%	



FINANCIAL STATUS OF JICA MONEY

SL	Description	Amount
1.	Total Fund for Livelihood & Physical work	= 515.44 Crore
2.	Total expenditure up to Sept. 2020	= 294.18 Crore
	Remaining Fund	= 221.26 Crore
Fund requirement		
1.	October to December, 2020	= 4.20 Crore
2.	January to March, 2021	= 41.70 Crore
3.	April to June, 2021	= 85.00 Crore
	Total	= 130.90 Crore
Fund requirement		
	July, 2021 to June, 2022	= 90.30 Crore

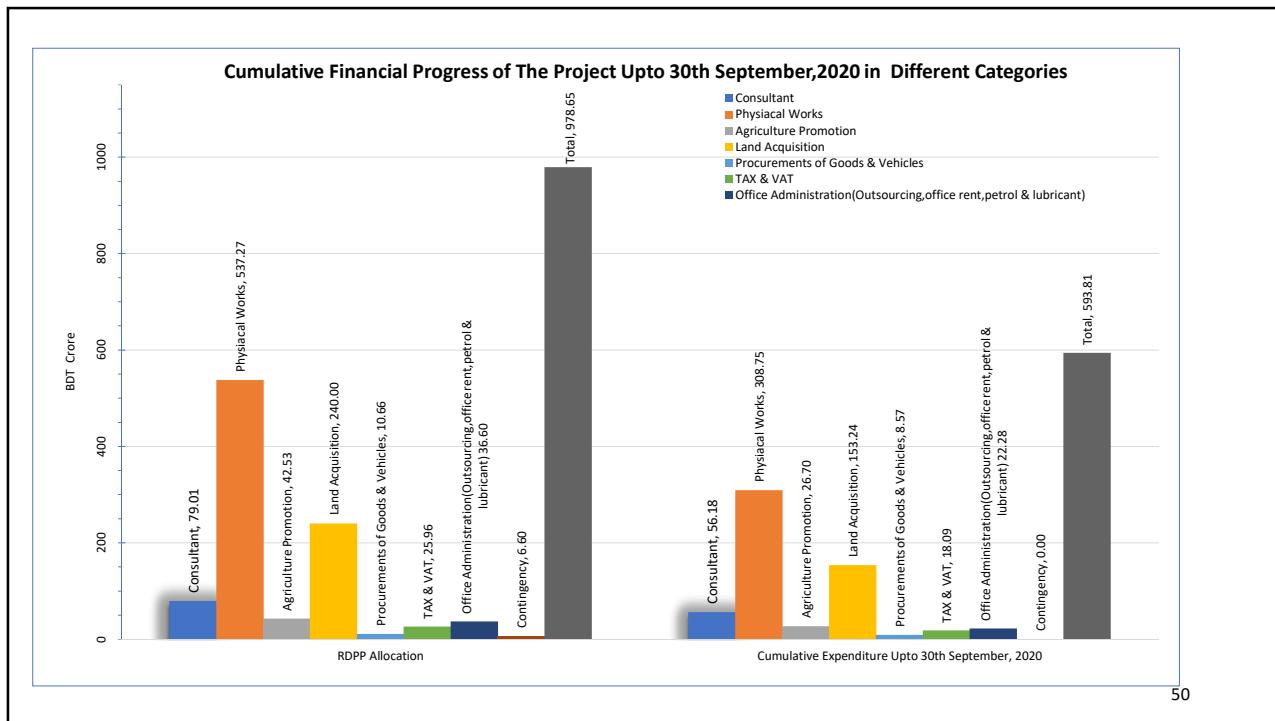
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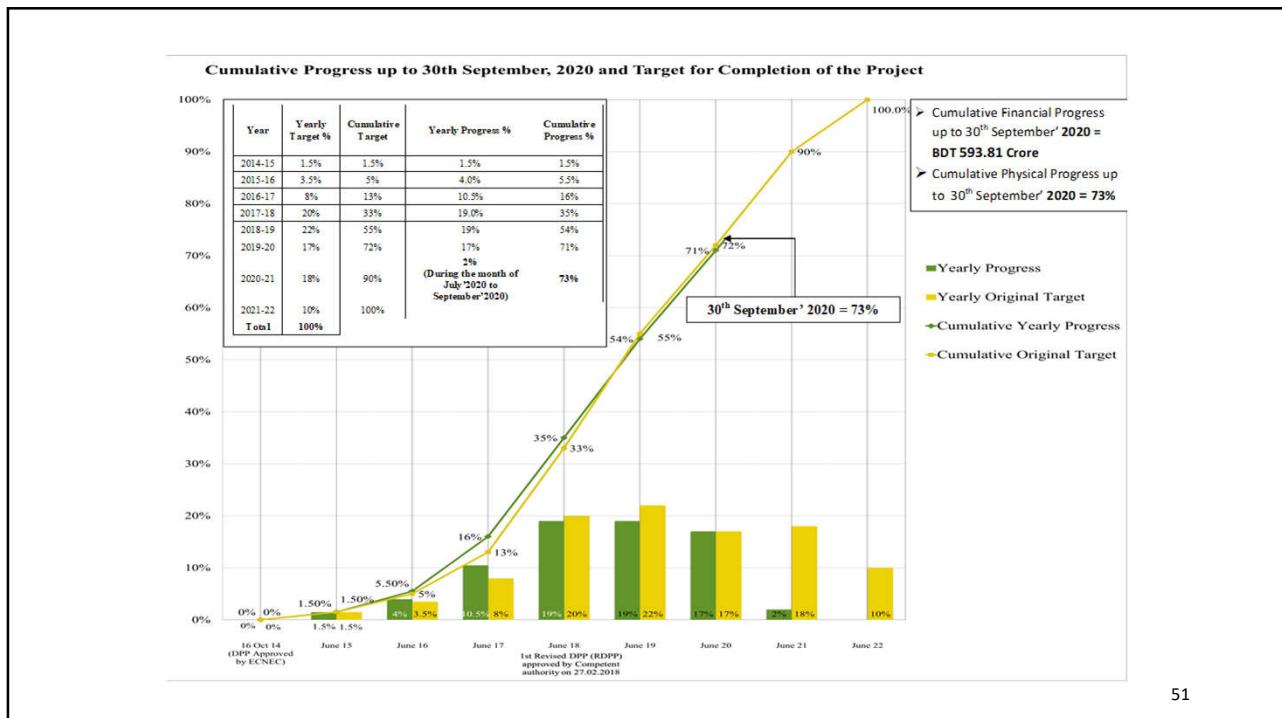
Sl. No.	Tender Status as per 2 nd RDPP	Remarks																												
1	<ul style="list-style-type: none"> ➤ 55 Nos of Packages As Per 2nd RDPP ➤ 47 Packages already Tender and work is on going.8 Nos Packages is Completed Upto October,2020. <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Financial Year</th> <th>Tender Invitation (No)</th> <th>Package Completion (No)</th> <th>Target for completion (TFC)</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>9</td> <td>3</td> <td></td> </tr> <tr> <td>2017-18</td> <td>19</td> <td>4</td> <td></td> </tr> <tr> <td>2018-19</td> <td>15</td> <td>1</td> <td></td> </tr> <tr> <td>2019-20</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>2020-21</td> <td>8</td> <td></td> <td>30 Nos.</td> </tr> <tr> <td>Total</td> <td>55</td> <td>8</td> <td></td> </tr> </tbody> </table>	Financial Year	Tender Invitation (No)	Package Completion (No)	Target for completion (TFC)	2016-17	9	3		2017-18	19	4		2018-19	15	1		2019-20	4			2020-21	8		30 Nos.	Total	55	8		
Financial Year	Tender Invitation (No)	Package Completion (No)	Target for completion (TFC)																											
2016-17	9	3																												
2017-18	19	4																												
2018-19	15	1																												
2019-20	4																													
2020-21	8		30 Nos.																											
Total	55	8																												
2	<ul style="list-style-type: none"> ➤ Remaining 9 Packages are to be tendered the F/Y (2020-21) ,already for 8 nos package tender is floated. ➤ 1 no Package for Gate Replacement at Satdona & Chahal Beel Sub-Project in Brahmanbaria District. 																													

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Cumulative Progress of Project (upto 30-09-2020) :			Financial = 59381.08 Lakh (61.09%)
			Project Progress = 73%
Reasons for difference of progress (Financial & Physical).			
RDPP Item & Task with cost	Expenditure incurred (%)	Physical (%)	
<ul style="list-style-type: none"> Consultancy: Total amount : Tk. 7901.40 <ul style="list-style-type: none"> i) Planning Review ii) Sub Soil Investigation iii) Design iv) Estimate v) Monitoring & Supervision vi) RAP Implementation vii) Environmental Study 	5618.01 (71.10%)	80%	
<ul style="list-style-type: none"> Physical Work : Total amount : Tk. 53727.00 <ul style="list-style-type: none"> i) Detailed Estimate ii) Tender Float iii) Notification of Award (NOA) iv) Work Order (W/O) v) Mobilization vi) Work done 	30875.04 (57.47%)	68%	
<ul style="list-style-type: none"> Livelihood Improvement by Agriculture Promotion: <ul style="list-style-type: none"> Total amount : Tk. 4253.43 i) Local Training ii) APSS iii) SIGS 	2669.63 (62.76%)	69%	
RDPP Item & Task with cost	Expenditure incurred (%)	Physical (%)	
<ul style="list-style-type: none"> Land Acquisition 240 ha Tk. 24000.00 (Lakh) 	15323.60 (63.85%)	65%	
<ul style="list-style-type: none"> Tax and VAT : Total amount : Tk. 2596.27 	1809.73 (69.70%)	69%	
<ul style="list-style-type: none"> Procurement of Goods & Vehicles : Total amount : Tk. 1066.22 	856.62 (80.34%)	80%	
<ul style="list-style-type: none"> Office Administration: Total amount : Tk. 3660.54 <ul style="list-style-type: none"> i) Salary of Out Sourcing staff ii) Office Rent iii) Gas & Petrol iv) Repair Maintenance v) Others 	2228.44 (60.88%)	60%	
	Total : Tk. 97204.86	59381.08 (61.09%)	73%
<ul style="list-style-type: none"> Contingency: Total amount : Tk. 660.14 	0	0	
	Grand Total amount : Tk. 97865.00	-	-

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FINANCIAL EXPENDITURE (IN MILLION BDT)

Sl no	Financial Year	Physical Progress	GOB	Project Aid (PA)				Total	Cumulative expenditure (in Million BDT)		
				RPA		Total RPA	DPA For Consultant				
				Civil Works	Livelihood						
1	2014-15	1.5%	60.662	0.0000	0.00	0.00	84.96	145.6	145.6		
2	2015-16	4.0%	82.428	0.0000	0.92	0.92	184.94	268.3	413.9		
3	2016-17	10.5%	555.849	91.2730	34.91	126.18	109.32	791.3	1205.3		
4	2017-18	19.0%	782.197	656.3710	78.98	735.35	68.93	1586.5	2791.7		
5	2018-19	17.0%	631.334	970.3530	93.99	1064.35	68.64	1764.3	4556.1		
6	2019-20	15.0%	312.082	975.1960	39.82	1015.01	45.00	1372.1	5928.2		
7	2020-21 (30 th Sept-20)	1.0%	9.948	0.0000	0.00	0.00	0.00	9.948	5938.1		
Total		68.0%	2434.5	2693.2	248.6	2941.8	561.8	5938.1			

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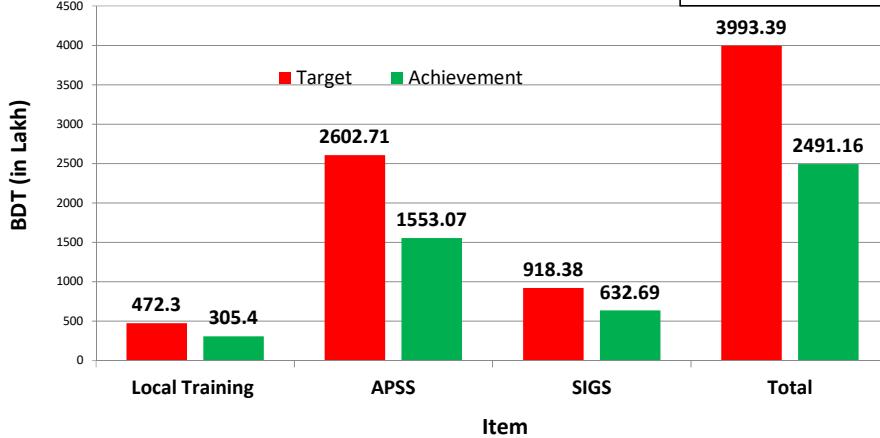
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AGRICULTURE COMPONENT TARGET & ACHIEVEMENT						
			Target as per 2 nd Revised DPP		Achievement up to Sept-2020	
SL No	Scope	Major Activities	Beneficiaries	Taka (in lakh BDT)	Beneficiaries	Taka (in lakh BDT)
A	WMO	- Committee Formation	373 WMG's	472.30	319 WMG's	305.40
	Local Training	- BWDB officials, Field staff, WMG members etc.	13,740 WMG Members		9,400 WMG Member	
B	Agriculture Promotion Support Sub-Project (APSS)	- Farmer Training Program - Demonstrations of different crops (Boro, Aman, Potato, Maize, Mustard) - ToT-IFM-FFS - Farmer Field School Establishment - BARD, BRRI, BARI and - Successful project visit, etc.	72,447 Members	2602.71	43,542 Members	1553.07
C	Small Scale Income Generation Sub-Project (SIGS)	- Homestead Vegetable and Fruit Cultivation and Support Service - Duck and Goat Rearing - Swing machine training and support service etc.	28,667 Members	918.38	19,653 Members	632.69
			Total	1,14,854 Members	3993.39	72,595 Members
						2491.16

EXPENDITURE TARGET & ACHIEVEMENT SHOWN IN GRAPHS

Target & achievement of Allocation as per
Proposed 2nd Revised DPP

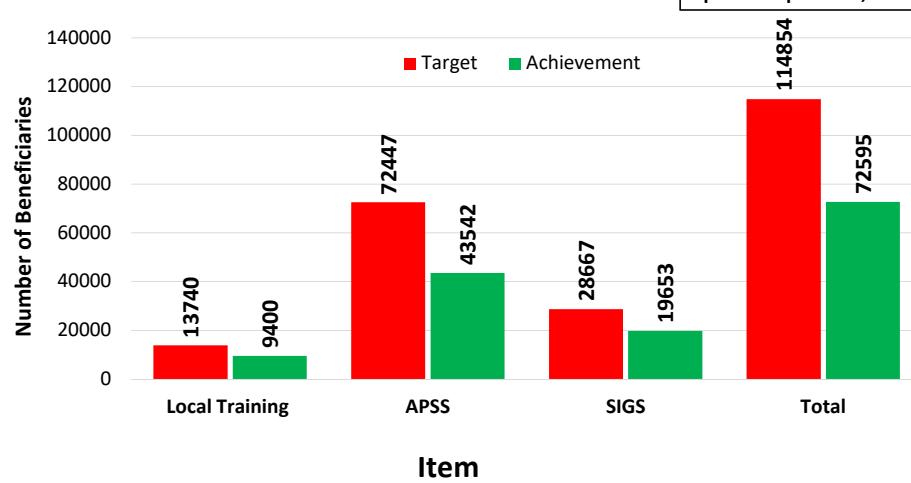
Upto 30 September, 2020



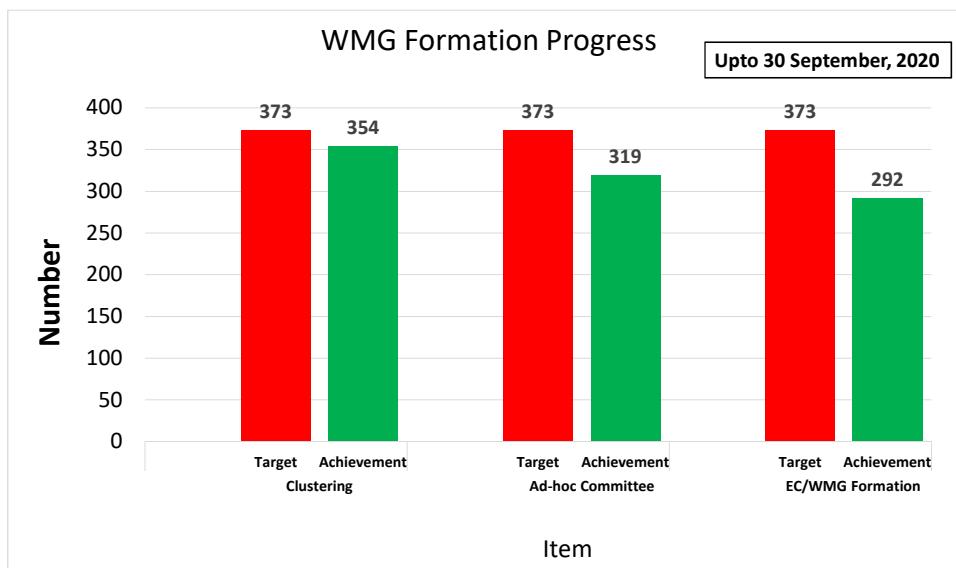
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Progress of target & achievement of beneficiaries as per Proposed 2nd
Revised DPP

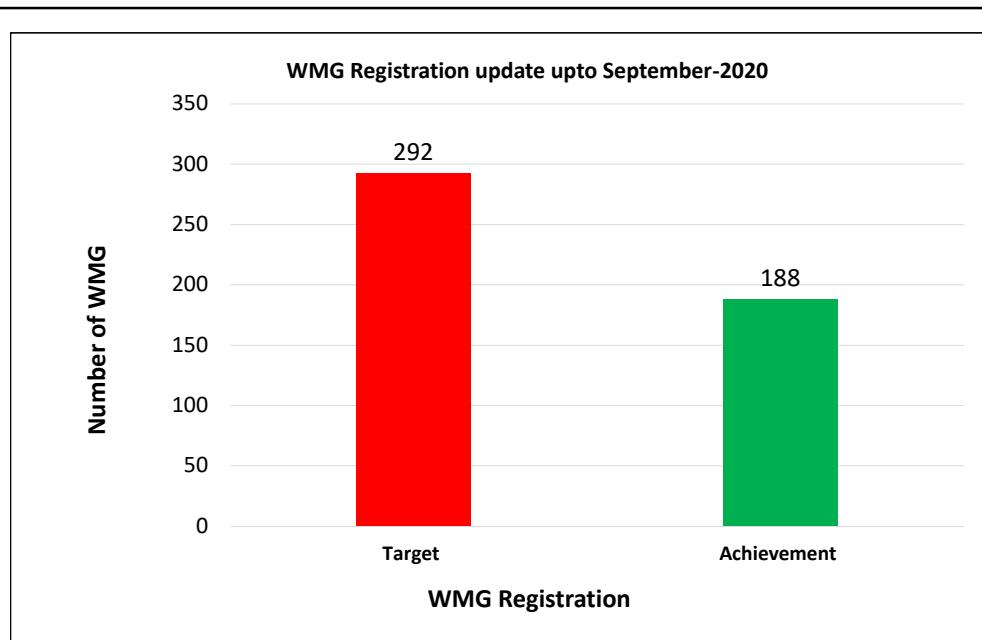
Upto 30 September, 2020



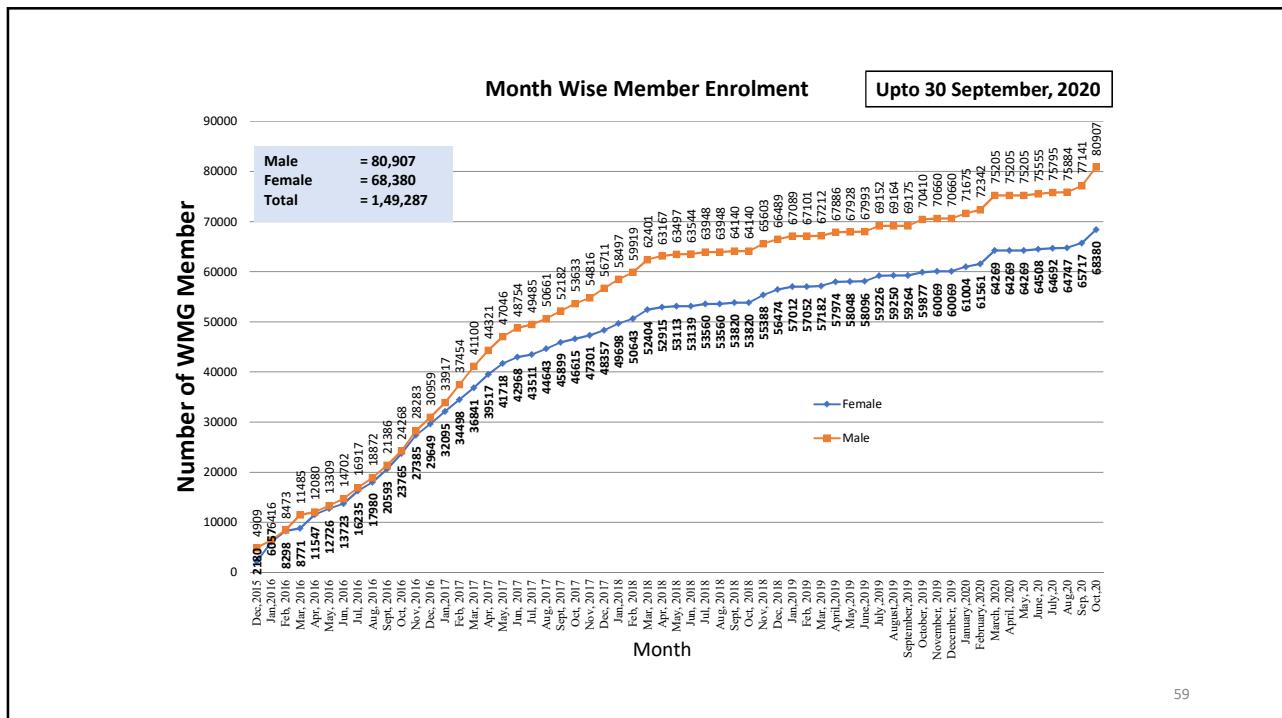
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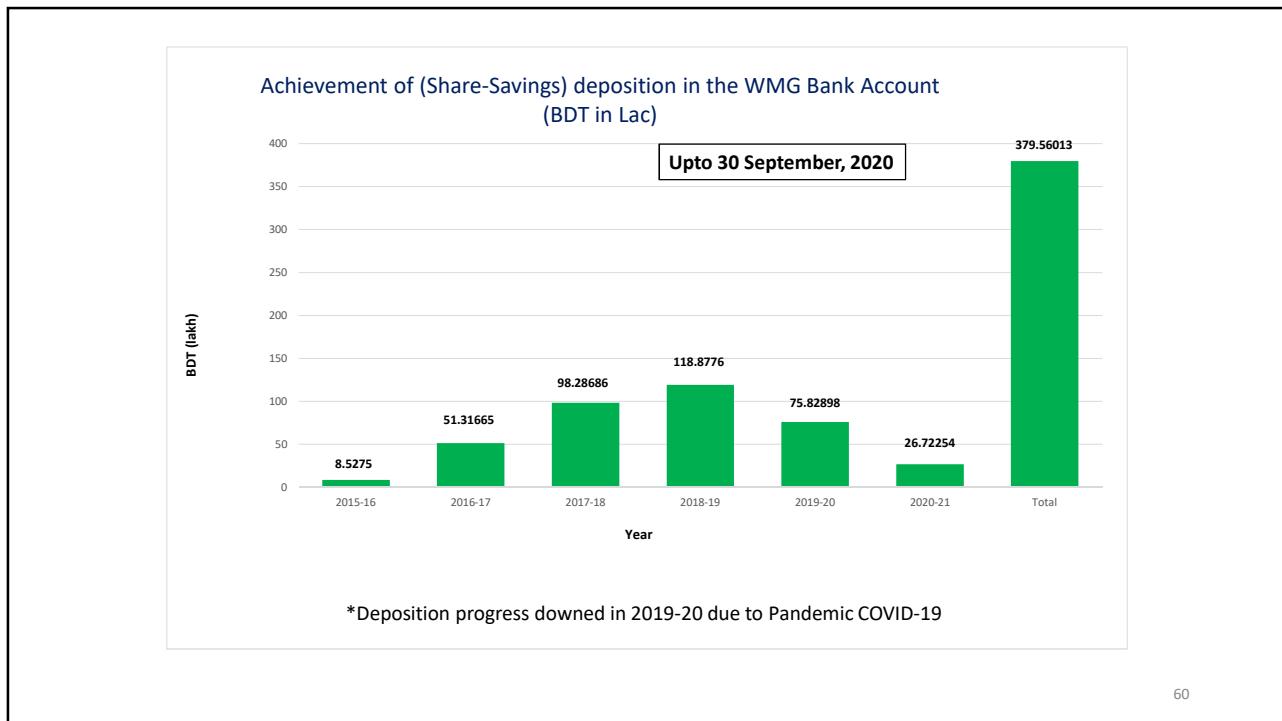
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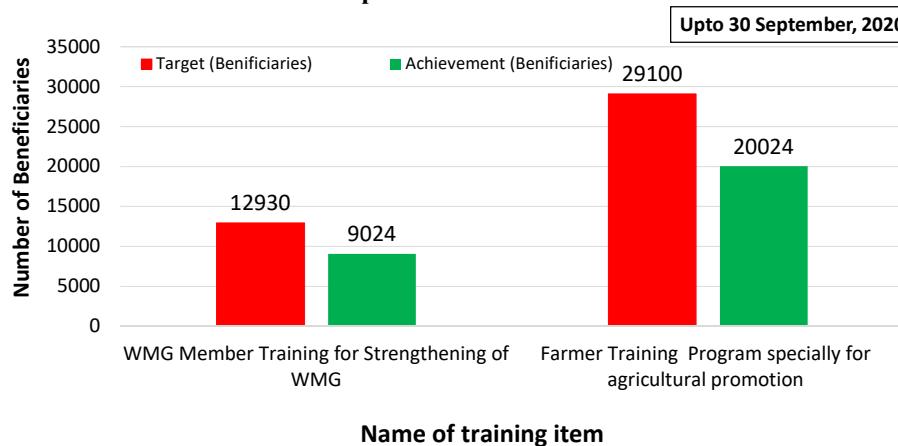


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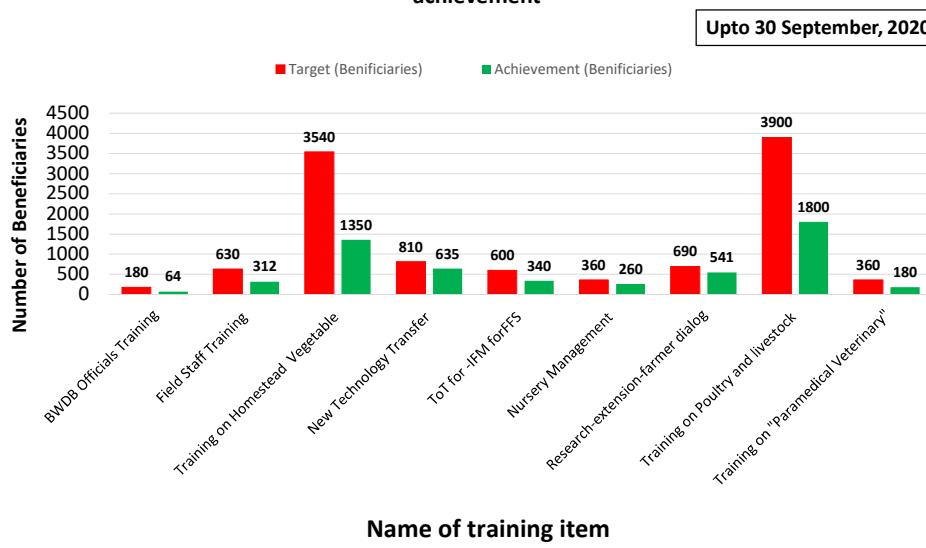
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Progress of WMG member training for strengthening of WMG & Crop Production Technology training no of beneficiaries target compare to achievement

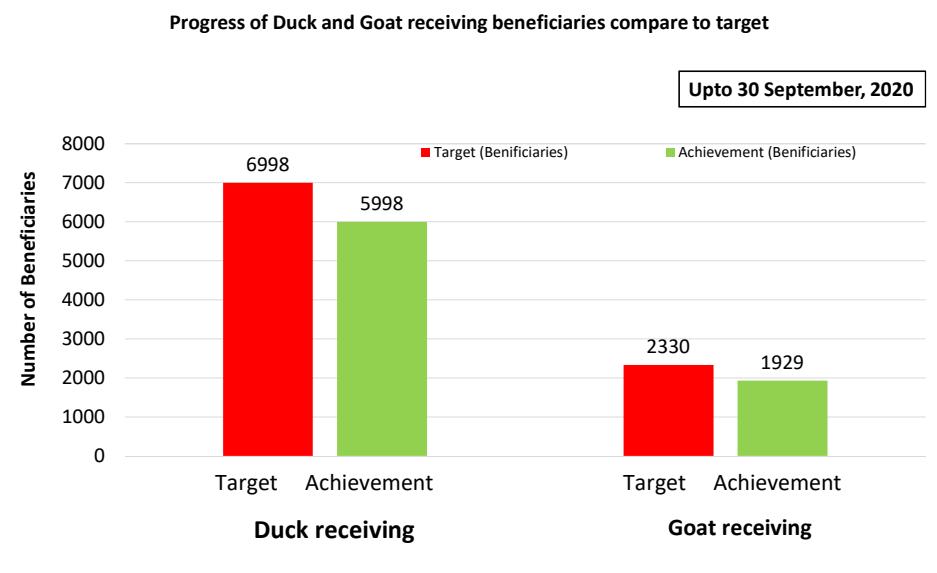


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Progress of different training items no of beneficiaries target compare to achievement

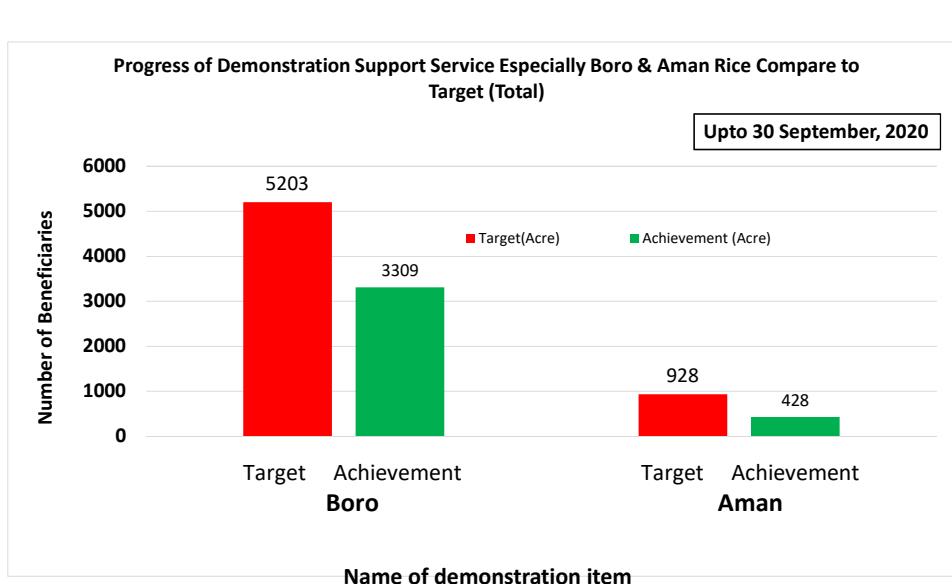


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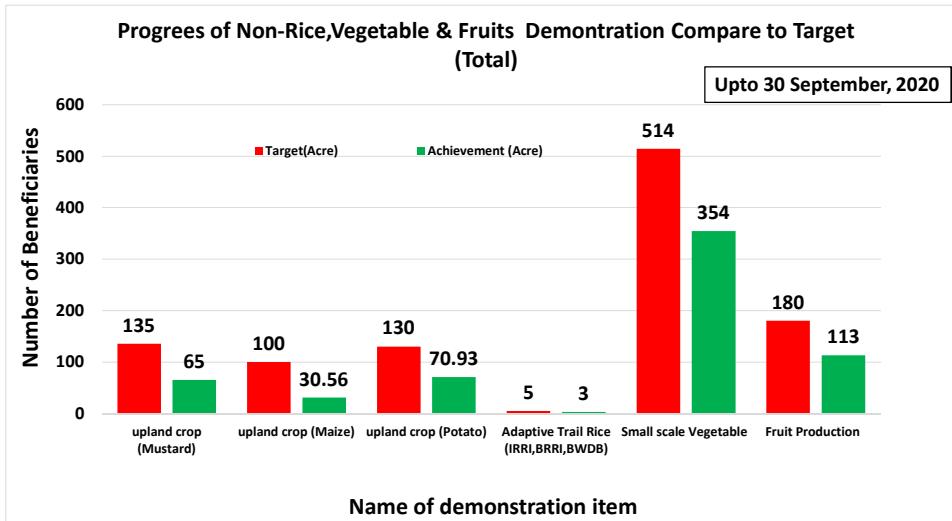


Output: i) 18,16,892 Nos Egg from 1,19,960 Nos distributed duck
ii) 952 Nos kids from 3,858 Nos distributed Goat

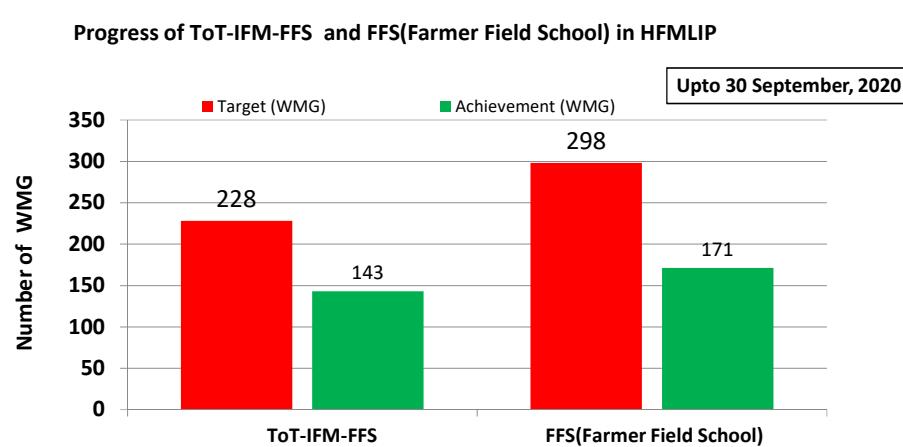
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AGRICULTURE COMPONENT PLAN FOR 2020-21

Target for 2020-21				
SL No	Scope	Major Activities	Beneficiaries	Taka (in lakh BDT)
A	Local Training	- BWDB officials, Field staff, WMG members etc.	2,784 WMG Members	83.58
B	Agriculture Promotion Support Sub-Project (APSS)	- Farmer Training Program - Demonstrations of different crops (Boro, Aman, Potato, Maize, Mustard) - ToT-IFM-FFS - Farmer Field School Establishment - BARD, BRRI, BARI and - Successful project visit, etc.	17,451 Members	627.92
C	Small Scale Income Generation Sub-Project (SIGS)	- Homestead Vegetable and Fruit Cultivation and Support Service - Duck and Goat Rearing - Swing machine training and support service etc.	4,551 Members	138.51
Total		22,002 Members		850.00

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AGRICULTURE ACTIVITIES PHOTOS







1. Flood Situation in the project area(Damage)
 2. Design of different type of protection work.
 3. Activity plan for civil works next two dry seasons
 4. Status of agriculture component and plan for next FY
- 5. Discussion on civil works monitoring format**

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Quality Control Plan for Pilot Embankment Protection Work

Type A Protective Work Start: Finish: Length: Start of reporting period: Report Finished Date:

Work Item/Material	Unit	Work Executed/ Material Consumed in Last 30 days	Name of Test	Relevant Test Standard	No of Test Required as Per Specification	No of Test Performed	No of Test Passing Threshold Value	No of Test Do Not Passing Threshold Value	Remarks
CC Block	Nos		Compressive Strength by Core Cutting	ASTM C42					
Cement	Kg		Fineness Test	ASTM C786					
			soundness Test	ASTM C151					
			Setting Time	ASTM C403					
Fine Aggregate	cum		Fineness Modulus	ASTM C127					
Coarse Aggregate	cum		Gradation Test	ASTM C36					
			Specific Gravity and Water Absorption	AASHTO T85					
			Aggregate Impact Value	BS812-112					
			Los Angles Abrasion Test	AASHTO T 96					
Geo Textile Filter	sqm		Mass per unit area						
			Thickness under a pressure of 2 kPa						
			Apparent / Effective Opening size						
			Horizontal Permeability						
			Vertical Permeability -						
			Grab Tensile Strength						
			Strip Tensile Strength						
			CBR Puncture Resistance						

Work Item/Material	Unit	Work Executed/ Material Consumed in Last 30 days	Name of Test	Relevant Test Standard	No of Test Required as Per Specification	No of Test Performed	No of Test Passing Threshold Value	No of Test Do Not Passing Threshold Value	Remarks
			Elongation at maximum force (machine direction MD)						
			Elongation at maximum force (CMD)						
			Permeability (Velocity Index for a head loss of 50 mm- V H50)						
			Ultra-Violet (UV) Resistance						
Submersible Embankment Construction	cum		Atterberg's Limit(Plastic Limit & Liquid Limit)	ASTM D4318					
			Grain Size Distribution	ASTM D422					
			Standard Proctor Test	AASHTO T180					
			Moisture Content	ASTM D4346					
			Dry Density	AASHTO T191					

Enclosure: Test Reports Stated Above.
This is to certify that all the tests has been performed as per relevant standard and work has been done with full conformity to specification.

Sub-Divisional Engineer	SAE/SO	Field Supervision Engineer	Field Inspector	Representative of Contractor	Representative of project Director
Recommended By					
Concerned Executive Engineer					
Approved By					
Project Director					

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Quality Control Plan for Pilot Embankment Protection Work

- Photos of condition after major construction activities shall be taken at a regular intervals, e.g. every 200 m, and added to the report.
- In case of Type A:
 - Before the construction of protection work
 - Before applying 100mm thick sand layer
 - After applying 100mm thick sand layer
 - After applying Geotextile Filter Cloth
 - After applying 100 m thick assorted filter
 - After applying CC blocks

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Quality Control Plan of Pilot Slope Protection Work As Per Tender Specification																																	
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31		
Formation of JMT																																	
Mearusement Report-1																																	
Mearusement Report-2																																	
Quality Control Report-1																																	
IPC No-1																																	
Mearusement Report-3																																	
Mearusement Report-4																																	
Quality Control Report-2																																	
IPC No-2																																	
Mearusement Report-5																																	
Mearusement Report-6																																	
	D32	D33	D34	D35	D36	D37	D38	D39	D40	D41	D42	D43	D44	D45	D46	D47	D48	D49	D50	D51	D52	D53	D54	D55	D56	D57	D58	D59	D60	D61	D62		
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Mearusement Report-3																																	
Mearusement Report-4																																	
Quality Control Report-2																																	
IPC No-2																																	
Mearusement Report-5																																	
Mearusement Report-6																																	
	D63	D64	D65	D66	D67	D68	D69	D70	D71	D72	D73	D74	D75	D76	D77	D78	D79	D80	D81	D82	D83												
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Mearusement Report-6																																	

Construction Procedure for Embankment Close Turfing

- i. Shaping of embankment crest and slope in design level and in desired compaction.
- ii. Selection of turfing source.
- iii. Cutting and transporting turf in 250mmx250mmx75mm size.
- iv. Planting turf in embankment slope without any gap in staggered formation within February .
- v. Continuous watering upto defects liability period.
- vi. Application of fertilizer in proportion N:P:K=16:5:12
- vii. Replanting if needed in any defect area.

CURRENT CONCERNS

- Slow Land Acquisition
- Approval of the 2nd revised DPP including Protection Work (Expected this week)

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Thank you

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