

GENERAL NOTES :

- FOR ANY ERROR, OMISSION OR CONFUSION PLEASE REFER TO THIS OFFICE AS QUICK AS POSSIBLE FOR NECESSARY ACTION.
- THE WORK SHALL BE EXECUTED WITH PRIOR FINANCIAL & ADMINISTRATIVE APPROVAL, TECHNICAL SANCTION FROM THE COMPETENT AUTHORITY AND WITHIN DPP /BUDGET PROVISION.
- ALL DIMENSIONS ARE IN MILLIMETRE (mm) AND ALL ELEVATIONS ARE IN METRE (PWD) UNLESS OTHERWISE MENTIONED IN THE DRAWING.
- THE MATERIAL & WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF BWDB MANUAL.
- NECESSARY LAND (IF REQUIRED) SHALL BE ARRANGED BY FIELD OFFICE BEFORE EXECUTION OF WORK.
- THE GEO-TEXTILE FILTER HAVE THICKNESS ≥ 3.00 mm.
- GEO-TEXTILE FILTER SHALL BE EXTENDED UPTO 1000 mm BELOW THE WORKING LOW W.L./TOE OF PITCHING WORK AS SHOWN IN THE DRAWING.
- GEO-TEXTILE MATERIALS SHALL BE PRESERVED AGAINST UV RAY AND FROM ANY OTHER DAMAGES.
- GEO-TEXTILE MATERIALS AFTER PLACING SHALL NEVER BE EXPOSED TO SUNLIGHT. GEO-TEXTILE FILTER SHALL BE COVERED IMMEDIATELY AFTER PLACEMENT.
- TO MAKE SAND LAYER BELOW GEO-TEXTILE BY USING F.M. 1.0 TO 1.50 OF SAND.
- FULL LENGTH OF PROPOSED PROTECTIVE WORK SHALL BE DONE AT A TIME IN ONE DRY SEASON FOR EFFECTIVENESS.
- IF THERE ARE ANY POND OR DITCH EXISTS WITHIN 150 m DISTANCE FROM THE RIVER BANK, IT MUST BE PROPERLY FILLED UPTO G.L (BANK LEVEL) WITH LOCAL EARTH AND SHALL BE COMPACTED AS PER SCHEDULE BEFORE STARTING THE PROTECTIVE WORK (PITCHING WORK).
- SLOPE OF PITCHING WORK SHALL BE MAINTAINED AS PER DESIGN SECTION. ALL BANK IRREGULARITIES ABOVE WORKING WATER LEVEL SHALL BE REMOVED. NECESSARY CUTTING & FILLING SHALL BE DONE IN THIS RESPECT AS PER FIELD REQUIREMENT.
- A SMOOTH TRANSITION TO BE PROVIDED BETWEEN HIGHER & LOWER LEVEL AND FLATTER & STEEPER SLOPE OF THE PROTECTIVE WORK. TOP LEVEL & SLOPE OF PITCHING WORK SHALL BE MATCHED WITH EXISTING BANK LEVEL & SLOPE OF PITCHING WORK.
- AT THE STARTING AND AT THE END OF THE PROTECTIVE WORK TRANSITION TO THE EXISTING UNPROTECTED BANK OR THE PREVIOUSLY COMPLETED WORK MUST BE GRADUAL AND

NOTES FOR SAND CEMENT (6:1) NEW GEO- BAGS

For the preparation of sand cement geo-bags (175 kg), the following step by step Procedure shall be followed:

- Sand and cement shall be mixed properly by mixture machine.
- Water of required workable quantity shall be added to the dry mix.

TANGENTIAL
(iii) Wet mortar shall be put into the geo-bags.

- a) TO PREPARE AND USE THE SAND CEMENT BAGS, THE FOLLOWING PRECAUTIONS ARE TO BE TAKEN:
1. IMMEDIATELY PLACED IN THEIR FINAL POSITION AS SHOWN IN THE DRAWING (IF REQUIRED) before initial setting of mortar.
b) BEFORE EXECUTION OF SUCH ADDITIONAL WORK, FIELD OFFICE SHALL OBTAIN NECESSARY ADMINISTRATIVE APPROVAL AND TECHNICAL SANCTION FROM THE COMPETENT AUTHORITY.
c) COUNTING AND QUALITY CONTROL FOR SUCH WORK SHALL CONFORM STANDARD PRACTICE OF BWDB SPECIAL NOTES:

d) THIS GEO-TEXTILE FILTER SHALL BE EXTENDED UPTO 1000 mm BELOW THE WORKING LOW W.L./TOE OF PITCHING WORK AS SHOWN IN THE DRAWING.
e) THE MATERIAL & WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF BWDB MANUAL.
f) NECESSARY LAND (IF REQUIRED) SHALL BE ARRANGED BY FIELD OFFICE BEFORE EXECUTION OF WORK.
g) THE GEO-TEXTILE FILTER HAVE THICKNESS ≥ 3.00 mm.
h) GEO-TEXTILE FILTER SHALL BE EXTENDED UPTO 1000 mm BELOW THE WORKING LOW W.L./TOE OF PITCHING WORK AS SHOWN IN THE DRAWING.
i) GEO-TEXTILE MATERIALS SHALL BE PRESERVED AGAINST UV RAY AND FROM ANY OTHER DAMAGES.
j) GEO-TEXTILE MATERIALS AFTER PLACING SHALL NEVER BE EXPOSED TO SUNLIGHT. GEO-TEXTILE FILTER SHALL BE COVERED IMMEDIATELY AFTER PLACEMENT.
k) TO MAKE SAND LAYER BELOW GEO-TEXTILE BY USING F.M. 1.0 TO 1.50 OF SAND.
l) FULL LENGTH OF PROPOSED PROTECTIVE WORK SHALL BE DONE AT A TIME IN ONE DRY SEASON FOR EFFECTIVENESS.
m) IF THERE ARE ANY POND OR DITCH EXISTS WITHIN 150 m DISTANCE FROM THE RIVER BANK, IT MUST BE PROPERLY FILLED UPTO G.L (BANK LEVEL) WITH LOCAL EARTH AND SHALL BE COMPACTED AS PER SCHEDULE BEFORE STARTING THE PROTECTIVE WORK (PITCHING WORK).

- ALL DUMPING MATERIALS (BLOCK & GEO-BAG) MUST BE DUMPED AT DUMPING ZONE ACCORDING TO APPROVED DRAWING.
- THIS DRAWING SUPERSEDES THE PREVIOUS APPROVED WORKING DRAWING (DWG NO.: DC-5-5712- 01/33 to 33/33, DATE: 27-02-2024) FOR THE SAME WORK.
- BEFORE EXECUTION OF WORK, CROSS SECTIONS WILL BE TAKEN AND COMPARE WITH DESIGN SECTION, IF ANY DISSIMILARITY HAS BEEN OBSERVED THEN IT SHALL BE INFORMED TO THE CONCERNED DESIGN OFFICE FOR FURTHER NECESSARY ACTION.
- CLOSE CROSS-SECTION OF RIVER SHALL BE TAKEN BEFORE, DURING AND AFTER EXECUTION OF PROTECTIVE WORK AND CONFIRM UNIFORM DUMPING AS PER DESIGN.
- HEEP OF CUTTING EARTH (FOR SLOPE PREPERATION) AT TOE OF PITCHING BLOCK OR IN DUMPING ZONE MUST NOT BE ALLOWED.
- IN PRESENT SITUATION AN ANGULAR FLOW HIT TOWARDS THE RIGHT BANK OF PADMA RIVER, SHIFTING THE THALWEG CLOSED TO THE RIGHT BANK AND ILLEGAL & UNPLANNED SAND LIFTING FROM RIVER BED, RIVER BANK EROSION HAS BEEN OCCURRED DURING LAST MONSOON & POST MONSOON PERIOD. THIS HAS BEEN TAKEN CONSIDERATION DURING PREPARATION OF THIS DRAWING.
- VOLUME OF DUMPING MATERIALS CALCULATED IN THIS DRAWING CONSIDERING 100 YEARS RETURN PERIOD & ANGULAR FLOW AND PRESENT MORPHOLOGICAL CONDITION.
- THE LENGTH OF PROPOSED PROTECTIVE WORK HAS BEEN FIXED AS PER STUDY (SEPTEMBER, 2022). IN PRESENT SITUATION U/S BANK IS MORE VULNERABLE AND ERODING IN THIS SITUATION THE PROTECTION WORK WILL BE NEEDED U/S OF PROPOSED PROTECTIVE WORK TO MAKE IT MORE SUSTAINABLE OTHERWISE THE PROPOSED WORK WILL BE VULNERABLE.
- ALL SAFETY PRECAUTIONS MUST BE TAKEN DURING EXECUTION OF WORK.
- DREDGING ADJACENT OR IN FRONT OF PROTECTIVE WORK SHALL NOT BE ALLOWED.

BANGLADESH WATER DEVELOPMENT BOARD			
DESIGN & DRAWING SUPERINTENDING ENGINEER			
"Protection of Talbaria area of Mirpur Upazila & Kamorkandi area of Shelaiddah Union of Kumarkhali Upazila in Kusthia District from the erosion of Padma River"			
Design of Protective Work along the R/B of Padma River from KM 6.720 to KM 15.720=9.000 KM at Talbaria, Baruipara and Bahalbaria union, Upazila: Mirpur, District: Kusthtia Kusthtia WD Division, BWDB, Kusthtia.			
NOTES			
DESIGNED BY:	RECOMMENDED BY:		
(SHAMMI AKHTER), SDE	(JAKARIA PERVEZ), SE		
CHECKED BY :	APPROVED BY :		
(MST. TASMEM JAHAN), EE	(MD. MAHFUZUR RAHMAN), CE, DESIGN		
DATE: 00-00-2025	DWG NO.: DC-5-0000-08/34		