



### TYPICAL PLAN OF FILTER DRAIN

(Applicable length= Length of Balu Mohol area + 25.00m  
& Seepage Zone)

2.10m

1V : 2.5H

2.25m

EL 9.00m

1V : 3H

150 mm thick sand  
(FM: 1.00 - 1.50 )

EL 4.75m

3-Layers (2-Nos each layer) 200 Kg  
Sand filled Geobags polyester fabric

2.00m

15-18cm dia & 6.00m long local  
hard wood bullah @ 2.40m C/C

4.00m Long bamboo  
(dia>=8.0cm)  
(3 Nos in between two bullah)

15-18cm dia & 6.00m long local  
hard wood bullah @ 1.20m C/C

2.00m

Geo textile filter  
(thickness >= 3.00 mm)

250 mm thick pick jhama chips (40 mm  
to 20 mm well graded at top & 20 mm  
to 5 mm well graded at bottom)

150 mm thick sand  
(FM: 1.00 - 1.50 )

0.15m

1.50m

1V : 3H

EL 4.75m

2.00m

### DETAIL 'C'

|   |                                 |
|---|---------------------------------|
| BANGLADESH WATER DEVELOPMENT BOARD  |                                 |
| OFFICE OF THE SUPERINTENDING ENGINEER   |                                 |
| DESIGN CIRCLE-5   |                                 |
| "Protection of Talbaria area of Mirpur Upazila & Kamarkandi<br>area of Sheldaidah Union of Kumarkhali Upazila in Kusthia District<br>from the erosion of Padma River"   |                                 |
| Design of Protective Work along the R/B of Padma River from<br>KM 6.720 to KM 15.720=9.000 KM at Talbaria, Baruipara and<br>Bahalbaria union, Upazila: Mirpur, District: Kusthia<br>Kusthia WD Division, BWDB, Kusthia. |                                 |
| DESIGNED BY:  | DETAILS OF FILTER DRAIN         |
| DESIGNED BY:  | RECOMMENDED BY:                 |
| (SHAMMI AKHTER), SDE  | (GAKARIA PERVEZ), SE            |
| CHECKED BY :  | APPROVED BY :                   |
| (MST. TASMEEN JAHAN), EE  | (MD. MAHIZUR RAHMAN), CE, DESIG |
| DATE: 00-00-2025  | DWG NO.: DC-5-0000-24/34        |