



**Government of West Bengal**  
**Irrigation & Waterways Directorate**  
**Office of the Superintending Engineer**  
**Mahananda Barrage Circle**  
**Teesta Administrative Building**  
**Tinbatti more, Siliguri, Pin No: 734005**

Phone No. (0353) 2468535 Fax No. (0353) 2566292 e-Mail ID: [se-mahabrcir@wbiwd.gov.in](mailto:se-mahabrcir@wbiwd.gov.in)

**NOTICE INVITING EXPRESSION OF INTERESTS (EOI)**

(For Budgetary purpose)

**EOI No. 01 of SE/MBC of 2022-23**

Expression of interest for obtaining competitive budgetary quotes at competitive market prices is being invited from reliable reputed resourceful Manufacturer/ Distributor/ Stockiest/ Supplier in their office letter pad in connection with the determination of estimate cost of "Providing and laying including preparation of surface bed multi-component prefabricated waterproofing Bituminous Geo-membrane (BGM) on canal earthen bed / concrete bed, having 4 mm average thickness and minimum width not less than 5 m. Membrane should be modified/ reinforced with glass fleece and non-woven geo-textile sheets impregnated in SBS elastomeric modified bituminous layer and tailored between anti root and sandy layer. Minimum surface weight of the membrane should not be less than 4.3 kg/m<sup>2</sup>. Two Membranes of BGM shall be joined together with 200 mm overlap using the propane torch to melt out the bitumen to form the sealing. The vital physical and chemical parameters of the membrane shall be as under average tensile strength in longitudinal and transverse direction as 27/24 KN/m respectively. Average tear strength in longitudinal and transverse direction as 825/700 N respectively. Water permeability of the membrane should not be less than 6\*10<sup>-14</sup> m/sec when tested in accordance with ASTM E96."

**The rate should be inclusive of all taxes & charges, transportation upto working site, loading/unloading, labour charges, excavation for trench, anchorage and testing which shall confirm to ASTM/L.S. Standards and excluding dismantling of concrete, silt clearance, dewatering GST etc complete.**

For the work "Mahananda Main Canal lining work using Bituminous Geo Membrane (BGM)" by the Superintending Engineer, Mahananda Barrage Circle, Irrigation & waterways Directorate on behalf of the Governor of West Bengal.

**MAHANANDA MAIN CANAL SALIENT FEATURES :-**

i.	Length of lining work	700	m
ii.	Shart Ch.	15.00	Km
iii.	End Ch.	15.70	Km
iv.	Full Supply Depth	4.876	m
v.	freeboard	0.75	m
vi.	Base width	26.822	m
vii.	Design Discharge	332	Cumec
viii.	Side Slope	1.5 : 1	H:V

**Issue of EOI documents:**

The EOI documents can be obtained from the departmental website [www.wbiwd.gov.in](http://www.wbiwd.gov.in) as well as from the office of the Superintending Engineer, Mahananda Barrage Circle during office hours on working days till **25.03.2023**.

The rate should be quoted both in word & figure and attaching the detailed Rate Analysis.

The intending quotationer may present at the time of opening of quotation.

Signature of the quotationer with stamp.

**SPECIFICATION OF MATERIALS**

Description	UOM	RATE ( in Rs./ UOM)
“Providing and laying including preparation of surface bed multi-component prefabricated waterproofing Bituminous Geo-membrane (BGM) on canal earthen bed / concrete bed, having 4 mm average thickness and minimum width not less than 5 m. Membrane should be modified/ reinforced with glass fleece and non-woven geo-textile sheets impregnated in SBS elastomeric modified bituminous layer and tailored between anti root and sandy layer. Minimum surface weight of the membrane should not be less than 4.3 kg/m <sup>2</sup> . Two Membranes of BGM shall be joined together with 200 mm overlap using the propane torch to melt out the bitumen to form the sealing. The vital physical and chemical parameters of the membrane shall be as under average tensile strength in longitudinal and transverse direction as 27/24 KN/m. Average tear strength in longitudinal and transverse direction as 825/700 N. Water permeability of the membrane should not be less than 6*10 <sup>-14</sup> m/sec when tested in accordance with ASTM E96.”	Sq. m. of BGM (Rate must be quoted Sq. m.)	

**SCHEDULE OF DATES FOR EOI**

Date of Publishing EOI	02/03/2023	Sealed quotation will be received in the stipulated office of the Superintending Engineer, Mahananda Barrage Circle, Teesta Administrative Building, Tinbatti, Siliguri & will be opened in the same venue. For clarification contact: Junior Engineer Mahananda Barrage Circle at 7278455251.
Last Date of submission of Filled up EOI in sealed cover	25/03/2023 up to 15.00 Hrs	
Date of opening of EOI	27/03/2023 up to 16.00 Hrs	

*S.K. SAHA* 24.2.2023  
(S.K.SAHA)

Superintending Engineer  
Mahananda Barrage Circle

Dated: 24.02.2023

Memo. No. 145/1Q-6

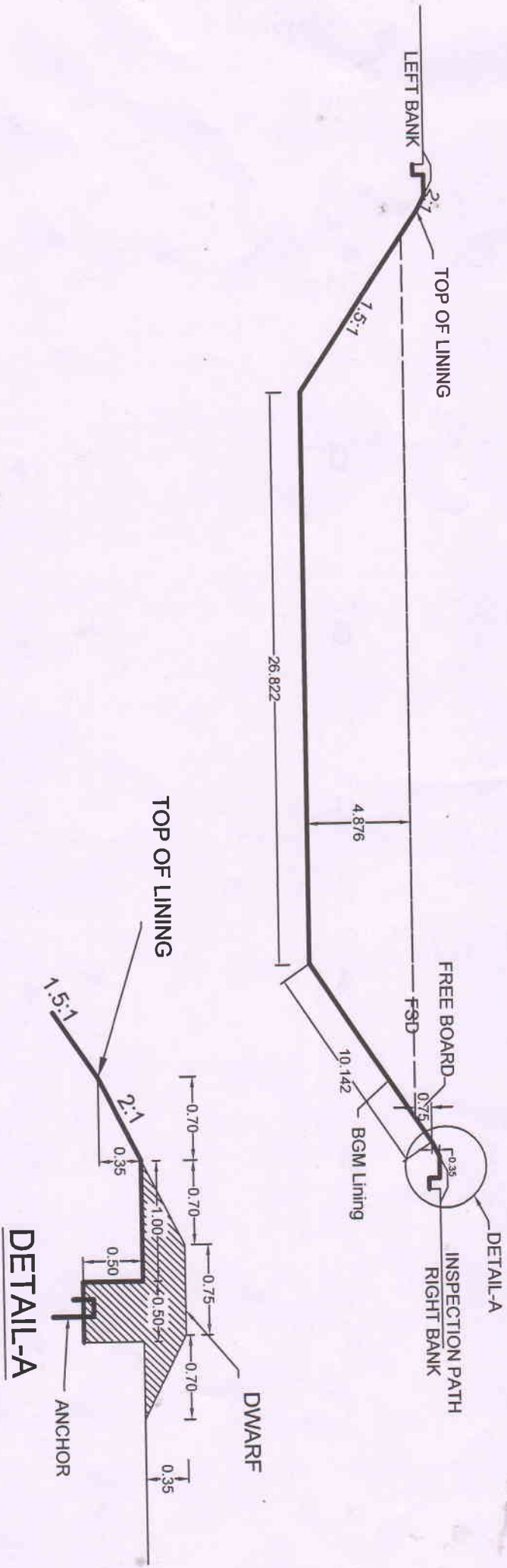
Copy forwarded for information and wide circulation through the office Notice Board to the:


1. The Chief Engineer, Teesta Barrage Project, 2<sup>nd</sup> Mile, Siliguri.
2. The Executive Engineer, Mahananda Canal Division, Tinbattimore Siliguri.

*S.K. SAHA* 24.2.2023  
(S.K.SAHA)

Superintending Engineer  
Mahananda Barrage Circle

# TYPICAL SECTION OF MMC FOR BGM LINING



All dimensions are in m  EARTH FILL

*Shilpa*  
22/2/23

Sub-Divisional Officer  
Mahananda Canal Sub-Division No-IV  
Teesa Administrative Building  
Tinsukia, Siliguri

*AK*  
22/2/23

Executive Engineer  
Mahananda Canal Division  
& W.Die. Govt. of W.B

*Shilpa*  
24.2.2023

Superintending Engineer  
Mahananda Barrage Circle  
Teesa Administrative Building  
Tinsukia, Siliguri-75