



جامعۃ عالیہ

**Aliah University**

(A UGC & AICTE approved autonomous Institution under the Dept of MA&ME, GoWB)  
IIA/27, New Town, Rajarhat, Kolkata – 700 160, West Bengal

Web: [www.aliah.ac.in](http://www.aliah.ac.in)

**NOTICE INVITING TENDER**


Ref No: AU/CEN/WBDST Project/EQP/01/19-20

Date:15/01/2020

**Sub: Sealed Tenders are invited from the bonafide and resourceful Contractors/Service Providers/Agents/Wholesalers/Suppliers for Supply of Elevated Flume and related accessories for DST, Govt. of West Bengal project entitled Analysis of failure mechanism and development of effective bank protection methodology for the river bank in West Bengal at the Department of Civil Engineering, Aliah University New Town Campus.**

Aliah University, Kolkata a Premier Educational Institute under the Dept. of MA&ME, Govt. WB, invites **Sealed Tenders from the bonafide and resourceful Contractors/Service Providers/Agents/Wholesalers/Suppliers for Supply of Elevated Flume and related accessories for DST, Govt. of West Bengal project entitled Analysis of failure mechanism and development of effective bank protection methodology for the river bank in West Bengal at the Department of Civil Engineering, Aliah University New Town Campus.** The tentative quantity of the required items along with technical configuration of each items are mentioned at Annexure separately. Aliah University is looking for interested bidders who have experience in supplying of above type of materials. NIT document will be downloaded from Website of Aliah University, <http://www.aliah.ac.in>. Tender must be submitted on or before **23/01/2020 at 5 P.M** at the Office of the Registrar, Aliah University, IIA/27, New Town, Kolkata- 700160, West Bengal, India by Speed-post/registered Post/by hand. Incomplete applications or applications received after the last date of submission will not be considered. **The sealed envelope must be with super scribing the Name, e-mail, Contact No. of Tenderer, NIT Reference Number and Purpose of NIT.** Interested bidders are requested to provide **their Quotes following the format in Annexure- II** in their official letter heads along with signed **Compliance Statement and Price Bid (Annexure– III)**. They must read and accept Terms and **Conditions and scope of work** of this NIT as per **Annexure- I**. For detail specifications of various items please refer **Annexure-IV**. For any information in this regard please visit Dept. of Civil Engineering, Aliah University, New Town Campus. Information may also seek over phone to Mr. Ali Murtaja Mondal (Mobile No. - 6295904867) of the respective Department.

Sl.	Schedule	Date & Time
1	Date of uploading of NIT (Publishing Date) at Aliah University Website	16/01/2020 at 5 P.M
2	Bid submission start date	17/01/2020 at 10.30 A.M
3	Bid Submission closing	24/01/2020 at 5 P.M
4	Techno Commercial Bid opening date O/o The Registrar, IIA/27, New Town, Rajarhat, Kolkata – 700 160. <b><u>(The Bid Opening date and time is tentative and could be open on availability of Concerned Committee Members)</u></b>	27/01/2020 at 2 P.M

	
<p align="center"><b>Signature of Committee Members</b></p>	<p align="center"><b>Registrar</b></p>

**ANNEXURE I: GENERAL TERMS & CONDITIONS**

1. **Supply of Elevated Flume and related accessories for DST, Govt. of West Bengal project entitled Analysis of failure mechanism and development of effective bank protection methodology for the river bank in West Bengal at the Department of Civil Engineering, Aliah University, New Town Campus., IIA/27, New Town, Kolkata – 700 160, West Bengal within 21 working days of issuing work order.**
2. The Tenderer should bear all the transportation & insurance **risk** till the on door delivery point. Selected bidder shall take all possible care for Govt. Property & of any damages due to negligence of his workers; the bidder/Agency shall be responsible for all such damages & repair the same at his own cost.
3. **The rates** so quoted must be inclusive of GST, Central Excise, customs Duty if any, packing freight to destination, Insurances, installation (if any), warranty and levies and necessary delivery at designated places at Aliah University and all charges. No extra charges will be entertained. Prices can be quoted in Indian Currency only (₹). No extra payment will be made for carrying of materials involving head load/ trolley etc.
4. **Warranty as per OEM. Warranty document (if any) must be delivered with the Article.**
5. All necessaries cables and adapters for functioning of the equipment to be supplied
6. Supply of Items will be made in conformity with the specification & time as mentioned in the work order as decided by the authority. **No deviation in specification** will be accepted. After delivery of the materials to the respective points by selected bidder (s), authority reserves the right to collect the samples of supply the materials at random basis and send those materials for testing to ensure the quality of products etc. If it is found that materials are not according to the specification, the authority has every right to cancel the total lot or otherwise forfeit the security money, blacklisting the respective Manufacturer / Supplier and terminate the contract.
7. If any part of the service in respect of the work assigned and undertaken by you not rendered/delivered in time, Aliah University shall be entitled to levy and recover liquidated damages/ penalty at 1% per week or part thereof the delay/ default, subject to 5% maximum, on the payment due to the agency/contractor for the particular stage. Any delay beyond scheduled dates may attract higher penalty to be decided by the Aliah University
8. **Partial quotations are not allowed for this tender i.e. bidder may quote all item. For overall item lowest bidder (L1) will be selected.**
9. All disputes are subject to exclusive jurisdiction of competent Court and Forum in Kolkata, India only.
10. Any dispute arising out of this contract shall be referred to the Registrar, Aliah University, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Vice-Chancellor of the University. The decision of such Arbitrator shall be final and binding on both the parties.

11. **Payment Condition:-**The prices shall be inclusive of all taxes & levies including GST and other statutory duties as applicable. Rate of taxes should be indicated separately in the Price Bid. Contract Price specified in Price Bid should be based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission. Statutory deduction, wherever applicable, shall be made from invoice as per government rules. Necessary certificate will be issued for such deductions. Bidder submitting a bid shall produce valid statutory documents / certificates with respect to GST, Income Tax, ROC, Prof. Tax, Trade License, etc. All such documents / certificates shall remain valid on the last date of tender submission. GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filling on the part of the bidder. 100% payment will be released after receiving of items in good order and condition and installation (if any) duly certified by the concern authority and immediately on receipt of payment from the Govt. Department (within 60 days from the submission of bills). Successful vendor should arrange to submit a performance security deposit in form of Performance Bank Guarantee to the tune of 10% amount of the total purchase value at the time of submitting the bill. This performance security deposit should be issued from any Nationalized Bank and validity of the same will be till 1 year/warranty period +60 days whichever is higher from the date of delivery of the material. The payment will be made by Account Payee cheque only. Advance payment not allowed.
12. The Tenders are liable to be rejected if the fore going conditions are not complied with. The bid should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.
13. The products asked for should be of very high standard and preferably reputed brand and/or with **B.I.S/I.S.I** code.
14. All bidders must submit all Technical Documents as per Annexure II otherwise their bid may be cancelled.

**Annexure II : Technical Bid Application Format**  
**(Please attach all relevant documents)**

To, The Registrar  
 Aliah University  
 IIA/27, New Town,  
 Kolkata-700 160

**Sub: Application for Supply of Elevated Flume and related accessories for DST, Govt. of West Bengal project entitled Analysis of failure mechanism and development of effective bank protection methodology for the river bank in West Bengal at the Department of Civil Engineering, Aliah University New Town Campus.**

Ref: - \_\_\_\_\_N.I.T. No .....dated  
 .....

Sir,

**1. ABOUT THE ORGANIZATION**

<b>1.1</b>	<b>Name of the Organization</b>	
<b>1.2</b>	<b>Name of Authorized Person</b>	
<b>1.3</b>	<b>Registered Office Address with telephone no. &amp; email address</b>	
<b>1.4</b>	<b>Authorized Service Station Name, address, contact person name, phone number, e-mail</b>	

**2. TECHNICAL DOCUMENTS**

<b>2.1</b>	Company Registration No./Trade License No./Partnership Deed No. (Please attach documentary evidence)	
<b>2.2</b>	PAN Registration No (Please attach documentary evidence)	
<b>2.3</b>	GST Registration No (Please attach documentary evidence)	

**ANNEXURE III: COMPLIANCE STATEMENT AND PRICE BID**

<b>Sl</b>	<b><u>Item Description</u> For any enquiry/ clarification/measurement bidders are requested to visit/Contact the site Department of Civil Engineering, Aliah University New Town Campus, IIA/27, New Town, Kolkata – 700 160</b>	<b>QTY and UNIT in Nos</b>	<b>Compliance to Tender specification whether YES/ NO</b>	<b>BASIC RATE (Unit Price X Unit)</b>	<b>GST in Amount and in %</b>	<b>TOTAL AMOUNT With Taxes Altogether</b>
1.	Supply and fabrication of MS Elevated Open Channel Flume (5.25 m x 1.65 m x 0.6 m) with front side glass of 12 mm thk., seepage tank of 15 cm width parallel to the flow direction on both sides of the flume, removable weir arrangement for measuring flow through flume over a MS reservoir of size 5.0m x 2.1m x0.75m along with providing a 0.5 m wide working platform over reservoir on both sides with necessary supporting frame work, tilting arrangement and sliding accessories for holding two sluice gates and a trolley for carrying profile gauge arrangement and other measuring instruments which have x-y axis movement with a pointer gauge for measurement of deformation of slope	1 Set				

	profile and in-situ shear strength of the slope material at different locations as per specification and drawing.					
2.	Supply, installation, testing and commissioning of centrifugal pumps of capacity 35 to 40 lps, 10 m head with suitable motors of approved make and brand (Kriloskar/ KSB/Grandfos) along with necessary suction, delivery and bypass valves and piping arrangement to connect reservoir and flume of approved make.	2 Sets				
3.	Supply, installation, testing and commissioning of 150 mm dia gate valves of approved make at the outlet of flume for regulation of flow.	2 Set				
4.	Supply, installation, testing and commissioning Current meter of approved make; working range from 0.025 meter / sec to 0.6 meter/ sec over the flume.	1 No				
5.	10 channel Pore water pressure of monitoring system with Sensors and Data-logger of reputed brand. Working Range = 0.01 kPa to 4 kPa	10 nos. pressure sensor, 1 no. data-logger				
6.	Supply, installation and connection of a 2000 liter PVC water tank of reputed make and connected by 100 mm dia. Heavy duty PVC pipe with the flume reservoir with a separation valve.	1 No				
<b>Total Amount in Rupees :</b>						
<b>Total Amount in Word :</b>						

**ANNEXURE IV: DETAIL SPECIFICATION OF FLUME AND DETAIL DRAWING OF SETUP**

**Specification of flume:**

1. The elevated flume has total length of 5.208 m including two sumps at both ends, width of 1.658 m and depth of 0.6 m. The flume will be made up of 4 mm thick MS plate. At both ends of the length of flume two sump tanks are provided to reduce the turbulence at the inlet and outlet. The dimensions of the sump: 0.2 m width each and depth of depression is 0.15 m from the base of the flume. At 0.15 m from the end of both side of the width of flume two MS wire netting of fine perforation with supporting arrangement made of 20x5 mm MS flat shall be inserted in a groove so as to make it removable as and when required. The seepage compartments shall have separate inlet and outlet connections. The front of the flume will be made of minimum 12 mm thick transparent good quality glass with steel framing and graduation at both ends. For placing of pore pressure sensors at different location of model bank some portal shall be made at the side wall of the flume.

2. A tilting arrangement shall be made by providing hinges at upstream end of the flume and slots shall be made in other ISMC support for moving up and down. The size of slots shall be such that it can allow movement of 16mm dia. bolts. For fixing different position of the bolt as required for degree of slope of the base, the flume shall be moved vertically by some mechanical jacking arrangement placed at the downstream end of the flume by providing additional support arrangement. Supplying, fitting and fixing of jack and tilting arrangement are within the scope of work.

3. The reservoir below flume shall be of length = 5.208 m, width = 2.108 m and depth = 0.75 m. The reservoir shall be made up of 4 mm thick MS plate and angles/square bar as shown in the drawing.

4. A trolley arrangement shall be provided by the supplier for carrying measuring instruments over the flume. The trolley arrangement shall be capable of moving in both X and Y direction i.e. along the length as well as width of the flume.

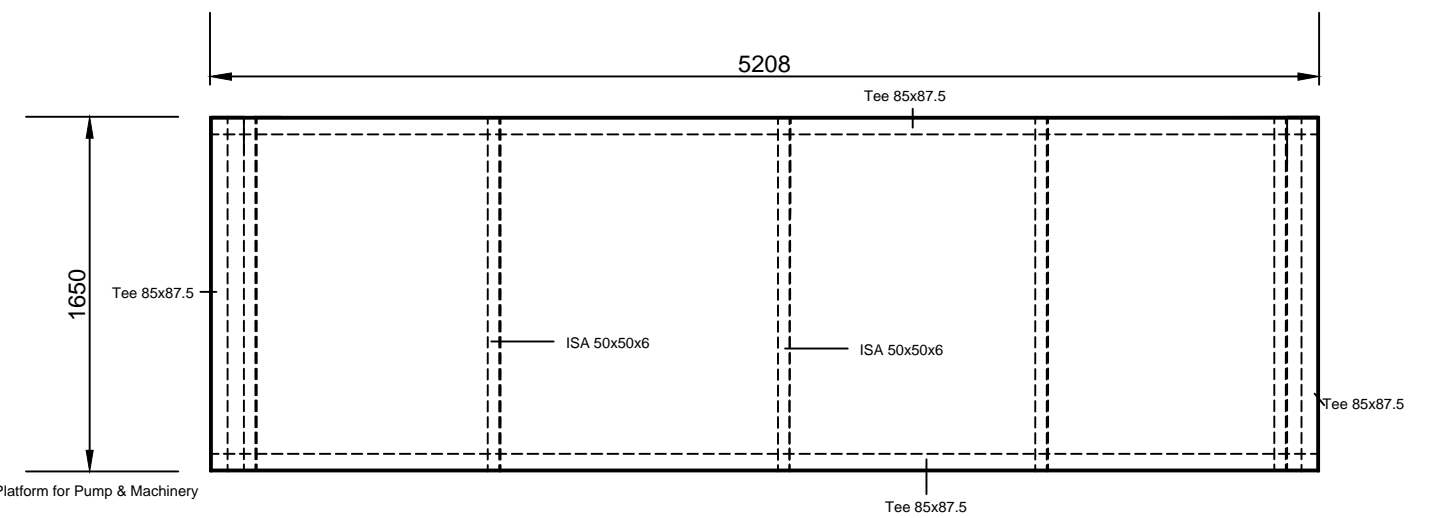
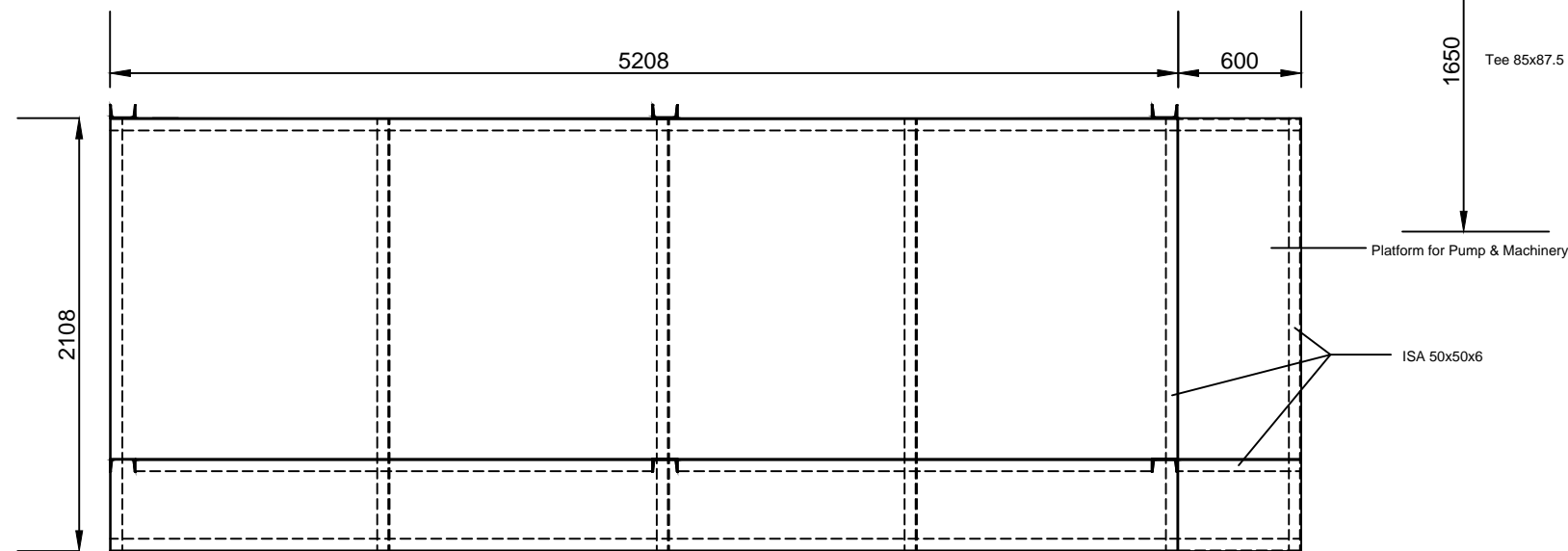
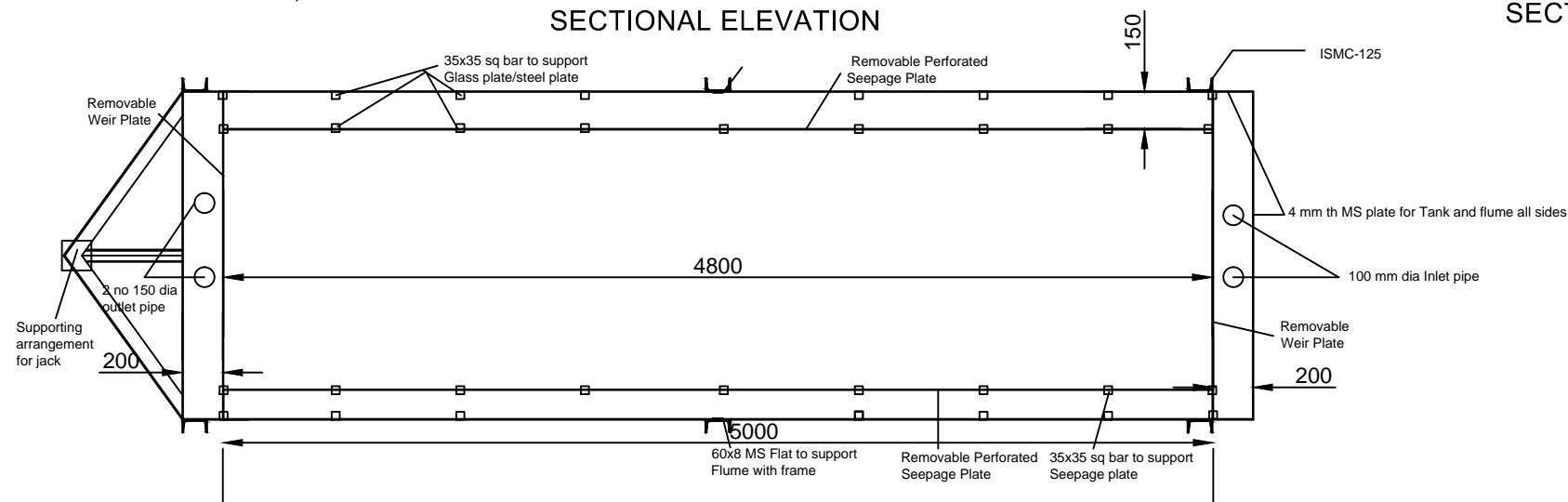
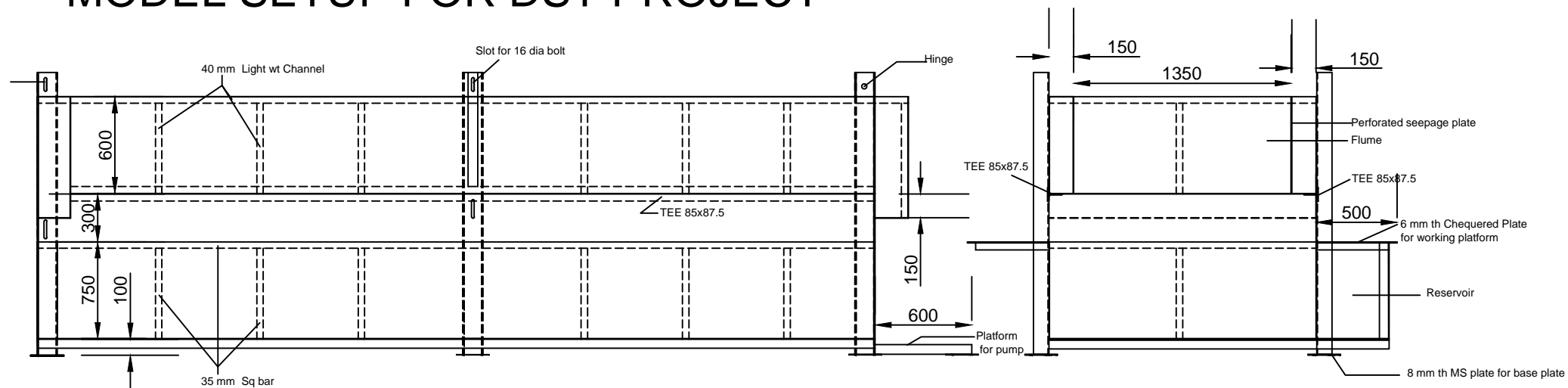
5. For measurement of deformation of the bank profile at different positions of the model bank a gauging arrangement with gauging sticks @ 1.5 cm center to center shall be fixed from a bar and can be moved up and down smoothly and controllably by some mechanical arrangement. This gauging arrangement will be placed on the trolley over the flume. The supply and installation of the gauging arrangement is in the scope of work.

6. Working platform of 0.5 m width on both side of the reservoir at level of 0.75 m from the base of the reservoir. In one side, the platform shall be supported over the reservoir and in other side it will be cantilever supported by brackets at suitable interval.

7. Three removal wire plates of height 0.25m for support of the model bank at the two ends for three different slopes of  $26.56^{\circ}$ ,  $29.05^{\circ}$ ,  $33.69^{\circ}$  shall made with MS plate.

8. Supply, installation, testing and commissioning of centrifugal pumps of capacity 35 to 40 lps, 10 m head with suitable motors of approved make and brand (Kriloskar/ KSB/Grandfos). The suction pipe of requisite diameter shall be of heavy duty MS pipe and connected with reservoir with gunmetal (GM) gate valve of same dia of suction pipe diameter. Delivery pipe shall be of heavy duty MS pipe of requisite diameter shall be connected with the inlet chamber of flume with gunmetal valve of same dia of gate valve. A small part of delivery pipe which connects with flume shall be of heavy duty flexible pipe. There shall be a bypass arrangement with GM valve from pump delivery pipe to reservoir to bypass excess flow if any. Supply, fitting, fixing and commissioning of pump, pipelines and valves etc are within the scope of work.
9. There shall be 75 mm diameter outlet arrangement with valve from seepage tank. Inlet arrangement to the both seepage tanks shall be made of 35mm diameter pipe with valves. Both pipes shall be connected with a common delivery pipe of a pump. The supply fitting & fixing of pipeline is within the scope of the work. Supply of pump to seepage tank is beyond the scope of work but installation is within the scope of work.
10. All the metal parts (inside & outside) of the setup shall be painted with epoxy paint.

# MODEL SETUP FOR DST PROJECT



PLAN AT 0.10 M LEV



**Declaration**

I, Sri/Smt. .... The Managing Director/Proprietor (etc.) of the Firm,..... (Name of the firm) At (address)..... do hereby solemnly affirm and declare as follows:

1. That I have not ever been convicted of any offence making myself liable to be disqualified to provide any goods/services/work to any Educational Institutions/Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
2. That no case is pending against me or against my firm in any criminal court of law or blacklisted/debarred/banned to provide similar items to the Educational Institutions / Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States ( If any case is pending, state the details ).
3. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.
4. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.
5. I/We agree to supply the above goods/equipment/products in accordance with the technical specifications for a total contract price of Rs..... (Amount in figures) (Rupees ..... amount in words) within the period specified in the invitation for Quotation. We confirm that the normal commercial warranty/guarantee of mentioned in this Quotation shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the invitation letter. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery. Certify that all above information are correct to the best of my/our information, knowledge and belief.

**Signature of the Bidder**

**Date**

\_\_\_\_\_  
**Name**\_\_\_\_\_

**Designation**\_\_\_\_\_

**Seal**

**Ref. No: AU/CEN/WBDST Project/EQP/01/19-20**

**Dated: ...../...../2020**

Copy to:

1. **Principal Investigator, of the DST project entitled Analysis of failure mechanism and development of effective bank protection methodology for the river bank in West**

**Bengal at the Department of Civil Engineering, Aliah University New Town Campus  
At The Department of Civil Engineering Aliah University & HoD, Department of  
Civil Engineering,**

- 2. Notice Board at New Town Campus, IIA/27, New Town, Rajarhat, Kolkata – 700 160**
  - 3. Website: <https://wbtenders.gov.in>**
  - 4. Guard File**
- Brief Advt. in two Daily Newspapers (Bengali and English).**

<p>Sumud Muhaimin Kala A.A.</p> <p>Jan Aw</p>	<p>As</p>
<p>Signature of Committee Members</p>	<p>Registrar</p>