

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA,

DEPARTMENT OF CENTRE FOR SYSTEM DESIGN

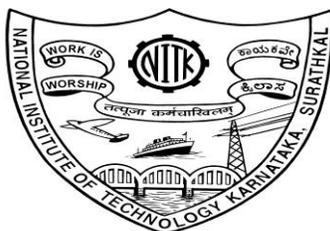
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NOTICE INVITING QUOTATION

Notification. No:NITK/CSD/2023/COF/FARM/PU-04

dated: 30-06-2023

Name of Goods	Storm Water Drain Modeling in Aquaculture Farm
Estimated Amount:	Rs. 1,90,000/-
Time for Supply of item after release of Purchase order	1 Week
Document Download / Sale Start Date	03-07-2023
Clarification Start Date	03-07-2023
Clarification End Date	17-07-2023
Bid Submission Start Date	03-07-2023
Last Date for submission of bids	17-07-2023 before 3.00 PM
Bid Opening Date	18-07-2023
Address for Submission of bids	Dr. Pruthviraj U Assistant Professor, Dept. of Water Resources & Ocean Engineering NITK Surathkal – 575025, (M) 9972797225 (O) 0824-2473915, pruthviu@nitk.edu.in



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NOTICE INVITING QUOTATION (NIQ)

The National Institute of Technology Karnataka, Surathkal (in short – NITK, Surathkal) is an Institute Of National Importance Under Ministry of Education Govt of India, imparting Technical Education and engaged in Research Activities. It is proposed to procure the items for the departmental academic/research activities.

Sealed Quotations as per the Price Schedule given in this NIQ are invited for the following items subject to the terms and conditions, from the reputed manufacturers or its authorised dealers so as to reach on or before scheduled date and time. The quotations in the firm's Business letter head should be address to the "Director, NITK, Surathkal". The envelope shall be superscribed with the Quotation Notification Number and the Name of the Goods for which quotation is submitted.

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**Sd/-
HOD**

Note: Institute shall not be responsible for any postal delay about non-receipt /non-delivery of the bids or due to wrong addressee.

SECTION-1
Terms and Conditions

The rates should be quoted for preferably FOR destination from supply within India.

The bidder shall indicate the excise duty exemption for the goods if applicable.

The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any. The rate should be quoted in INR only

Rate quoted should be inclusive of Testing, commissioning and Installation of equipment and Training.

Payment: No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by supplier.

Guarantee/Warranty period should be specified for the complete period should be specified in section 3 of this tender document.

Period requirement for the supply and installation of item should be specified in section 3 of this tender document.

In case of dispute, the matter will be subject to Mangalore Jurisdiction only.

SECTION-2
SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

[To be filled up by the Department / Centre of NITK, Surathkal]

Item(s) Name to be Procured : Storm Water Drain Modeling in Aquaculture Farm

Brief Specifications of the Item(s) : Attached
(Attach Additional Sheet if necessary)

Quantity :NA

Any other details / requirement :

Warranty Period required :

Delivery Schedule expected
after placement of Purchase order
(in Weeks) :1 Week

SECTION 3
PRICE SCHEDULE

[To be used by the bidder for submission of the quotation]

-
1. Item Name :
 2. Specifications
(Conforming to Schedule of requirements
Enclose additional sheets if necessary) :
 3. Currency and Unit Price :
 4. Quantity :
 5. Item Cost (Sl No. 3 * Sl. No. 4) :
 6. Taxes and Other Charges :
(i) Specify the type of taxes and duties
in percentages and also in figures.
(ii) Specify Other Charges in figures.
 7. **Warranty Period** :
(Conforming to the Schedule of requirements)
 8. Delivery Schedule :
(Conforming to the Schedule of requirements)
 9. Name and address of the Firm for
placing purchase order :
 10. Name and address of Indian authorized
agent (in case of imports only) :

Signature of the Bidder: _____

Name and Designation: _____

Business Address : _____

Place:

Seal of the Bidder's Firm

Specifications : Storm Water Drain Modeling in Aquaculture Farm

Designing a stormwater drain system involves several considerations to effectively manage and control the flow of rainwater and prevent flooding in the aquaculture farm at the College of Fisheries, Mangaluru. Here are the key steps that must be involved in design

Identify the area that contributes runoff to the drainage system. This includes rooftops, roads, parking lots, and other impervious surfaces.

Determine the maximum amount of water expected to flow into the drain system during a storm event. This calculation typically involves using rainfall intensity data and catchment characteristics.

Establish the design criteria based on local regulations, standards, and the desired level of service. This includes determining the acceptable level of flooding, the design storm return period (e.g., 10-year, 25-year, or 100-year storm), and any other specific requirements.

Determine the most suitable layout for the stormwater drain network, considering factors such as the topography of the area, existing infrastructure, and the natural flow path of the water. The network may consist of a combination of pipes, open channels, and other drainage structures.

Design should consider the surroundings of the site and ensure there is no spillage of water from corporation stormwater drain into the site.

Consider the presence of other underground utilities, such as water pipes, underground drainage lines, or electrical cables, to avoid conflicts and ensure the stormwater drain system is appropriately integrated with existing infrastructure.

The deliverables include

Photogrammetry survey and Digital Elevation Model of the area, along with a DGPS survey of the site location.

Drainage System Layout: This includes a plan view showing the location and layout of the stormwater drain network, invert levels, and flow direction.

Profile Drawings: Cross-sectional profiles showing the elevation and slope of the stormwater pipes, including any changes in pipe size or direction.

Hydraulic Analysis: Analysis of the hydraulic performance of the stormwater drain system, considering factors such as flow rates, velocities, and pipe capacity to ensure adequate conveyance of stormwater.

For any technical clarifications, contact:

Dr. Pruthviraj Umesh, Assistant Professor, Department of Water Resources & Ocean Engineering, National Institute of Technology Karnataka, Surathkal, Srinivasnagar - 575 025, Mangalore, India, Mobile No: 9972797225, pruthviu@nitk.edu.in.

