

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF CENTRE FOR SYSTEM DESIGN
POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)

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NOTICE INVITING QUOTATION

Notification. No: NITK/CSD/2023/Video Omni/ KVG-04

Dated:06-10-2023

Name of Goods	Omni-directional digital reality capture
Estimated Amount:	₹ 20,000 (Including GST) per Minute
Time for Supply of item after release of Purchase order	1 Week
Document Download / Sale Start Date	06-10-2023 @ 4.30PM
Clarification Start Date	06-10-2023 @ 4.30PM
Clarification End Date	16-10-2023 @ 1.30 PM
Bid Submission Start Date	06-10-2023 @ 4.30PM
Last Date for submission of bids	16-10-2023 before 1.30 PM
Bid Opening Date	16-10-2023 @ 2.00 PM
Address for Submission of bids	Dr. K V Gangadharan CSD coordinator, H.O.D NITK Surathkal – 575025 (M): 9448478752, kvganga@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

1. The rates should be quoted for preferably FOR destination from supply within India.
2. The bidder shall indicate the excise duty exemption for the goods if applicable.
3. 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
4. Rate quoted should be inclusive of Testing, commissioning and Installation of equipment and Training.
5. 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.
6. Guarantee/Warranty period should be specified for the complete period should be specified in section 3 of this tender document.
7. Period requirement for the supply and installation of item should be specified in section 3 of this tender document.
8. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.
9. **Liquidated Damages:** Timely delivery is the essence of the contract and hence if the Supplier fails to deliver Goods within the original/extended delivery period(s) specified in the contract, the Institute will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 1% per week or part of the week of the delayed period as pre-estimated damages not exceeding 5% of the contract value without any controversy/dispute of any sort whatsoever.

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	: Omni-directional digital reality capture
Brief Specifications of the Item(s) (Attach Additional Sheet if necessary)	: Attached in Annexure I
Quantity	: 10 minutes (actual time will be depends on the script)
Any other details / requirement	: Nil
Warranty Period required	: Nil
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:

Date:

Seal of the Bidder's Firm

SECTION 4
CONTRACT FORM

[To be provided by the bidder in the business letter head]

1. (Name of the Supplier's Firm) hereby abide by the delivery schedule mentioned in this document for supply of the items if the purchase order is awarded.
2. The item will be supplied conforming to the specifications stated in this document without any defect and deviations.
3. Warranty will be given for the period mentioned in this document and service will be rendered to the satisfaction of NITK, Surathkal during this period.

Signature of the Bidder: _____

Name : _____

Business Address : _____

Place :
Date :

Seal of the Bidder's Firm

Annexure I Specifications

Omni-directional terrestrial digital reality capture

Omni-directional terrestrial digital reality capture involves capturing high-resolution imagery and data from all directions, using advanced equipment and technologies.

Capture Equipment:

1. 360-degree cameras or multi-camera arrays
2. High-quality lenses and sensors to capture clear and detailed imagery

Data Acquisition:

1. Determining the optimal number of capture locations or positions to cover the entire area of interest
2. Ensuring adequate overlap between captured images for stitching and processing
3. Capturing at different heights and angles to account for variations in terrain and structures

Data Accuracy:

1. Precise positioning and orientation systems to maintain data accuracy of 1cm
2. Calibrating cameras and sensors to minimize distortion and optimize accuracy in the presence of NITK personnel

Data Storage and Management:

1. Establishing a multiple data storage and backup system to prevent data loss
2. Developing an efficient data management strategy for organizing and retrieving captured data

Quality Control:

1. Providing quality control procedures to identify and rectify errors in data capture and processing

Resolution and Image Quality:

1. Required resolution and image quality of 8k HDR
2. Adjusting camera settings, such as exposure and ISO, to optimize image quality as agreed upon by NITK personnel in field

Environmental Considerations:

1. Accounting for lighting conditions, weather, and seasonal changes that may affect data capture quality
2. Minimizing lens flare, glare, and reflections that can distort imagery

Data Format and Compatibility:

1. Ensuring compatibility with the software and tools that will be used for further analysis and visualization

Safety Measures:

1. Implementing safety protocols for field data capture, especially when working in busy urban environments or hazardous areas
2. Ensuring compliance with local regulations and permits for data capture activities

Documentation:

1. Maintaining comprehensive records of equipment used, capture settings, and processing methodologies
2. Documenting any deviations from the planned capture process and their impact on data quality

Data Privacy and Security:

1. Protect sensitive or private data during capture, storage, and transmission. Signing of Non-disclosure agreement before carrying out the work