

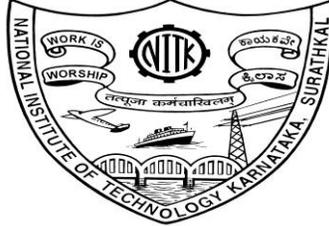
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

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

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NOTICE INVITING QUOTATION

Notification. No: NITK/CSD/2023/360 Degree VR/PU-4

dated:11-12-2023

Name of Goods	360 Degree questionnaires sampling Survey
Estimated Amount:	Rs.1,80,000.00 (Including Tax)
Time for Supply of item after release of Purchase order	15 Days
Document Download / Sale Start Date	11-12-2023, 5.30 p.m.
Clarification Start Date	11-12-2023, 5.30 p.m.
Clarification End Date	25-12-2023, 3.00 p.m.
Bid Submission Start Date	11-12-2023, 5.30 p.m.
Last Date for submission of bids	25-12-2023 before 3.00 p.m.
Bid Opening Date	26-12-2023, 3.00 p.m.
Address for Submission of bids	<p>Dr. Pruthviraj U Professor-In-Charge(Transdisciplinary R&D) Associate Professor, Dept. of Water Resources & Ocean Engineering NITK Surathkal – 575025, (M) 9972797225 (O) 0824-2473915 pruthviu@nitk.edu.in</p>



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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	: 360 Degree questionnaires sampling Survey
Brief Specifications of the Item(s) (Attach Additional Sheet if necessary)	: Attached
Quantity	: N.A
Any other details / requirement	: -----
Warranty Period required	: N.A
Delivery Schedule expected after placement of Purchase order (in Weeks)	: 2 Weeks

**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

Specifications

I. Project Overview:

New Mangalore Port Authority's expansion project.

Goal: Create an immersive virtual reality video for global investors and government funding agencies.

II. Preliminary Requirements:

A. Selection of Entity:

1. Clear background check and eligibility for security clearance.
2. Capability to handle sensitive information.
3. Willingness to sign multiple Non-Disclosure Agreements (NDAs).

B. Security Clearance:

- Responsibility for the entity to obtain access and security clearance to port premises.

III. Pre-Production:

A. Departments and Executives:

1. Interviews with senior executives from over 10 port departments.
2. Insight gathering on operations, expansion plans, and challenges.

B. Employee Perspectives:

1. Employee interviews to understand views on port growth.
2. Assess job satisfaction and perceptions of the port's future.
3. Identify success stories and testimonials.

C. Location Survey:

1. Survey port premises for shooting locations.
2. Obtain security clearance for each location.
3. 360-degree point of view reports for security clearance.

IV. Technical Requirements:

A. Security Measures:

1. Implement robust data encryption for sensitive information.
2. Adhere to port authorities' security protocols.

V. Legal Considerations:

A. Non-Disclosure Agreements (NDAs):

1. Willingness to sign multiple NDAs with New Mangalore Port Authority.
2. Acknowledge that documentation is the responsibility of the bid winner.

B. Security Clearance Agreement:

- Commitment to obtaining and maintaining security clearance throughout the project.

VI. Deliverables:

A. Location Documentation:

1. Verify at least 30 locations.
2. Provide comprehensive 360-degree reports.

B. Questionnaire and Presentation:

1. Finalize questionnaire in collaboration with NITK.
2. Deliver a presentation with answers from an investor's perspective.

VII. Team Composition:

1. Include at least one team member with established knowledge of Management Studies.
2. No team member to have prior criminal record to establish easy security clearance.

VIII. Timeline:

Establish a realistic project timeline accounting for all stages.

This document serves as a foundation for the project, detailing technical specifications, legal requirements, and key deliverables. All parties involved should adhere to these guidelines for a successful collaboration

Sl. No.	Location	Approximated Lat, Long	Question
1	New Berth	12°55'27.41"N 74°49'0.01"E	<ol style="list-style-type: none"> 1. What do you want the opening shot to be? 2. Where is New Berth Located ?
2	Entrance	12°56'0.31"N 74°49'17.27"E	<ol style="list-style-type: none"> 1. What is New Mangalore Port's tagline for the video? 2. Whose Statue is located near the entrance of the Port ? 3. How Many trade destinations does this port connect to?
3	Greenery	Whole oil jetty stretch towards sea 12°55'03.4"N 74°48'34.4"E	<ol style="list-style-type: none"> 1. How many acres of land does the New Mangalore Port Own? 2. In which year was the New Mangalore Port Inaugurated ? 3. Out of the 2290 acres of land how many acres of land are used for various facilities? 4. How much is the custom bonded Area ? 5. What is the area of the waterfront in New Mangalore Port ?
4	Berth	Cover all 16 berths	<ol style="list-style-type: none"> 1. What are the number of operational Berths in New Mangalore Port ? 2. What is the total cargo handled by the New Mangalore port ? 3. What is the speciality of New Mangalore Port ?

5	SPM	Will be taken to site by the authorities	<ol style="list-style-type: none"> 1. What is the number of SPM in New Mangalore Port ? 2. What is the distance of the Single Point Mooring (SPM) from the shore? 3. What is the unloading capacity of the floating pipelines connected to the SPM? 4. What is the maximum cargo capacity that the SPM can accommodate? 5. What type of vessels can be offloaded using the SPM? 6. What is the benefit of using Single Point Mooring (SPM) in terms of turnaround time? 7. How does the SPM contribute to seamless offloading of crude oil? 8. What is the significance of the 21-meter draft capacity of the SPM? 9. What is the primary purpose of the floating pipelines connected to the SPM? 10. How does the use of SPM contribute to the efficiency of crude oil transportation? 11. What are some advantages of utilizing SPM for offloading operations?
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6	Ship Berthing	12°55'55.30"N 74°48'59.83"E	1. What are the different types of cargo handled in New Mangalore port?
7	Container Yard	12°55'51.94"N 74°49'19.84"E	<ol style="list-style-type: none"> 2. What is the total cargo handled by the New Mangalore port in the past financial year? 3. What are the storage capacities at the New Mangalore port? 4. What equipment does the port have for efficient operations? 5. What equipment does the port have for efficient operations? 6. How does the port handle bulk cargo from its hinterland?
8	Coal Unloading Hopper	12°55'55.59"N 74°48'46.45"E	1. What facilities does the port have for coal unloading?

9	Coal Yard Adani	12°56'9.71"N 74°48'46.60"E	2. What is the capacity of the coal unloading facilities?
10	Silo Adani Loading	12°56'40.9"N 74°48'25.7"E	3. How is imported coal unloaded from incoming vessels? 4. What is the role of conveyor belts in the unloading process? 5. What happens after the coal is stored in the designated yard? 6. What is the purpose of the Silo facility? 7. What is the transportation mode used for coal after it leaves the port? 8. What is the entire process flow for coal handling at the port? 9. How would you describe the efficiency of the coal handling process at the port? 10. What is the significance of having both Captive and common user coal unloading facilities?
11	Cement Pipe Unloading	12°56'2.94"N 74°48'58.70"E	1. What type of system does the port use to transfer cement from incoming vessels to UltraTech and Ambuja Cement facilities? 2. Which cement facilities are mentioned as recipients of the transferred cement? 3. What are the priorities emphasized in the cement transfer process? 4. How does the port ensure the safety of the cement transfer process? 5. What is the purpose of using a sealed pipeline system in the cement transfer process?

			<ol style="list-style-type: none"> 6. Why is efficiency emphasized in the cement transfer process? 7. Which companies or entities are involved in the cement industry in this context? 8. What is the overall approach of the port regarding the cement transfer process? 9. What are some potential benefits of using a sealed pipeline system for cement transfer? 10. How does the port contribute to the operations of UltraTech and Ambuja Cement through the cement transfer process?
12	KIOCL	12°55'34.50"N 74°49'8.35"E	<ol style="list-style-type: none"> 1. What other goods does the port manage? 2. How are iron ore fines unloaded from vessels at the port? 3. What is the role of grabs in the unloading process at the port? 4. Where are the iron fines transported after being loaded onto trucks at the port? 5. How would you describe the location of the KIOCL Facility in relation to the port? 6. What is the purpose of transporting iron fines to the KIOCL Facility? 7. What type of vehicles are used for transporting the iron fines from the port to the KIOCL Facility? 8. Why is the proximity of the KIOCL Facility to the port considered convenient? 9. Can you describe the unloading process

			<p>of iron ore fines at the port in more detail?</p> <p>10. What is the significance of the iron ore fines being imported through the port?</p>
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13	Oil Jetty	<p>12°55'12.16"N 74°48'41.62"E to 12°54'57.56"N 74°48'51.29"E</p>	<ol style="list-style-type: none"> 1. What role does New Mangalore Port play in India's energy sector? 2. How much liquid cargo did New Mangalore Port handle in the previous year? 3. What is the significance of pipelines at New Mangalore Port? 4. How much LPG did New Mangalore Port handle in the previous financial year? 5. What measures are in place to ensure the safety and security of oil jetties at the port? 6. Why is reducing port congestion important for New Mangalore Port? 7. How often are fire hazard and safety drills conducted at New Mangalore Port? 8. What is the purpose of monthly oil spill response drills at the port? 9. What is the total volume of liquid cargo handled by New Mangalore Port's infrastructure? 10. How does the well-developed infrastructure of New Mangalore Port contribute to its operations in adverse weather conditions?
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14	Fire Drill	As and when performed. On site intimation.	
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15	Crane Container Loading	12°55'47.40"N 74°48'52.38"E	<ol style="list-style-type: none"> 1. What is the maximum capacity of vessels that the dedicated container terminals at NMPA can accommodate? 2. How much containerized cargo did the port handle in the previous financial year? 3. What is the significant role of the dedicated container terminals in NMPA? 4. What is the primary export commodity through New Mangalore Port? 5. Besides coffee, what other major commodity does NMPA handle in terms of import? 6. How does NMPA contribute to the processing and distribution of imported raw cashews? 7. What role does the port play in managing container capacity from its hinterland?
16	Cashew	Kalbhavi Cashews Mangalore	

17	Kudroli Temple	12°56'5.85"N 74°49'6.20"E	1. What does the port contribute to Mangalore's cultural heritage?
18	Cruise Lounge Exterior	12°56'3.10"N 74°49'6.58"E	
19	Immigration Interior	Inside above location	2. What is Mangalore renowned for in terms of cultural heritage?
20	Cruise Lounge Exterior	Outside above location	3. How does the port engage with cruise passengers in terms of cultural exploration? 4. What is the significance of temple architecture in Mangalore's cultural heritage? 5. How many cruise calls did the port handle during the pre-covid period, and what was the passenger capacity?
21	RFID	12°55'59.99"N 74°49'16.46"E	1. What technological advancements has the port implemented? 2. What is the impact of the RFID-based pass issuance system? 3. What is the significance of automation in port operations?
22	VTMS Interior	12°55'49.01"N 74°49'0.83"E	1. What does the Advanced Vessel Traffic Management System aim to achieve in port waters?

22	Container scanner exterior	12°55'47.26"N 74°49'16.87"E	<ol style="list-style-type: none"> 2. How do container scanners contribute to the efficiency of the port operations? 3. What is the turnaround time achieved by the port, and how does it compare to other ports in India? 1. What is the operating ratio of the port, and how does it reflect on its performance? 2. In what ways do container scanners contribute to reducing container clearance time?
23	Drone Surveillance	12°56'2.88"N 74°49'6.33"E	<ol style="list-style-type: none"> 1. Why is Mangalore port notable in India? 2. What is the significance of drone surveillance at Mangalore port? 3. What technology is used for night time security at Mangalore port? 4. Who spearheads the security measures at Mangalore port?

			<p>5. What is the role of thermal aerial scanning at Mangalore port?</p> <p>6. What makes Mangalore port stand out among other ports in India regarding security measures?</p>
24	Auto Weighbridge	12°56'0.54"N 74°49'13.44"E	<p>1. What is the purpose of implementing an unmanned weighbridge system at the port?</p> <p>2. How does the unmanned weighbridge system guide vehicles during the weighing process?</p> <p>3. What kind of information does the sophisticated software accurately record during the weighing process?</p> <p>4. In what format are the weighment details, including date and time, generated by the unmanned weighbridge system?</p> <p>5. How is the weighment information communicated to drivers?</p>
25	Train and NH	12°56'11.68"N 74°49'8.97"E	<p>1. Which business hubs are connected to the maritime gateway?</p> <p>2. What modes of transportation are in</p>

			<p>relation to the maritime gateway?</p> <p>3. Why is the connectivity of the maritime gateway important for the mentioned business hubs?</p>
26	Solar farm	12°56'37.62"N 74°49'25.19"E	<p>1. How does New Mangalore Port meet its energy needs?</p> <p>2. What is the capacity of the solar plant at New Mangalore Port?</p> <p>3. What is the size of the area covered by the port's solar plant?</p> <p>4. What type of energy sources does New Mangalore Port use to generate power?</p>
27	Local fishing area	12°55'43.99"N 74°49'14.49"E	<p>1. Why does the New Mangalore Port dedicate a part of its waters to local fishermen?</p> <p>2. How does the port contribute to the local community?</p>
28	Vermicomposting	12°56'35.02"N 74°48'52.77"E	<p>1. What are some of the unique success stories at the port?</p> <p>2. How does the vermicomposting unit contribute to the port's success?</p>
29	Rainwater Harvesting	12°56'29.93"N 74°49'7.96"E	
30	Sewage treatment	12°56'18.2"N 74°48'24.8"E	<p>1. What measures are taken by the port to efficiently manage sewage treatment plants?</p>

31	EV fleet	12°56'0.48"N 74°49'7.19"E	<ol style="list-style-type: none"> 1. How many electric buses does the port currently use? 2. How many electric cars does the port currently have? 3. What environmental benefits does the initiative of using electric vehicles bring?
32	Outer Harbor	12°55'25.7"N 74°48'27.8"E	<ol style="list-style-type: none"> 1. What awards did NMPA win?
33	Sunset	12°55'46.7"N 74°48'48.0"E	<ol style="list-style-type: none"> 1. How does New Mangalore Port contribute to a more connected future on India's western coast?