

INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036

Telephone: [044] 2257 9763 E-mail: tender@imail.iitm.ac.in



Date: 06.01.2023

The Manager (Project Purchase)

Open Tender Reference No: CE/ARUN/072/2022/ DIGITALDOC

GEM ID: GEM/GARPTS/02012023/4JW2UTBMQMGT Due Date/Time: 27.01.2023@ 3:00 PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system from Class-I local suppliers and Class II local suppliers, for the work of: "Digital documentation of two ASI-protected National Monuments for Structural Analysis" Conforming to the specifications given in Annexure -A.

Tender Documents may be downloaded from Central Public Procurement Portal https://etenders.gov.in/eprocure/app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website https://etenders.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Help for contractors". [Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this eProcurement Portal"]

Bidders can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, click on "GO" button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website https://etenders.gov.in/eprocure/app as per the schedule attached.

	Pre-bid Meeting	:	<u>N/A</u>
<u>1)</u>	Details		
2)	TOOD II		TO THE TAX ASSESSED AND ASSESSED ASSESSED AND ASSESSED ASSESSED AND ASSESSED AND ASSESSED ASSE
<u>2)</u>	ICSR Vendor	:	<u>Vendor registration code</u> . Vendor registration with IC&SR (IITM) is mandatory for
	Registration		bidders to participate in tenders.
			** For Vendor Registration & Guidelines, Please follow the website: https://icandsr.iitm.ac.in/vendorportal; Helpdesk: vendorhelpdesk@icsrpis.iitm.ac.in

<u>No manual bids will be accepted.</u> All tender documents including Technical and Financial bids should be submitted in the E-procurement portal.

Last date for receipt of tender	:	27.01.2023 @ 3:00 PM
Date & time of opening of tender	:	30.01.2023 @ 3:00 PM

3. Instructions to the Bidder:

<u>A)</u>	Searching for tender documents	:	 There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective "My Tender" folder. This would enable the CPP Portal to intimate the bidders through
			SMS / email in case there is any corrigendum issued to the tender
			document.
			• The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.
<u>B)</u>	Assistance to bidders	•	 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is [0120-4200462, 0120-4001002, 0120-4001005]
<u>C)</u>	Enrollment Process	:	REGISTRATION
	to Bidders		 Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal URL:https://etenders.gov.in/eprocure/app by clicking on "Online Bidder Enrollment". Enrollment on the CPP Portal is free of charge. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name

			is a prerequisite for registration and participating in the bid submission activities through https://etenders.gov.in/eprocure/app • Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://etenders.gov.in/eprocure/app under the "Information about DSC".
<u>D)</u>	Preparation of bids	:	Bidder should take into account any corrigendum published on the tender document before submitting their bids.
			 Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
			 Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option.
			• To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
<u>E)</u>	Submission of bids	:	Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues.
			The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
			 Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected.
			• A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.
			• The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

for any sort of delay or the diffic	ΓΙΑ) will not be held responsible ulties faced during the submission to local issues.
_	become readable only after the bid openers.
give a successful bid submission displayed with the bid no. and the	submission of bids, the portal will message & a bid summary will be e date & time of submission of the
 file of compliance sheet. More information useful for su Portal may be obtained at: <a all="" and="" href="https://www.htt</th><th>re-qualification bid, Technical Bid ted separately in online CPP portal r. Right is reserved to ignore any with the above instructions. No</th></tr><tr><th></th><th>chnical specification and supply of mexure A.</th></tr><tr><th>The Bidders shall go through technical bid.</th><th>the specification and submit the</th></tr><tr><th>Annexure-B in pdf format onl</th><th>ubmitted in the proforma as per
y through online (e-tender). No
entertained.</th></tr><tr><th>Bid" in="" no.="" page="" pages="" th="" wi<=""><th>page-wise heading as "Technical th seal and signature of authorized s should be mentioned at the last</th>	page-wise heading as "Technical th seal and signature of authorized s should be mentioned at the last
and all technical details along wi give a detailed description of pr	of bidder eligibility criteria details th catalogue/ pamphlet which will oduct with technical data sheet so verified.
■ Financial bid (RoO) should be su	bmitted in the prescribed proforma
on	for any sort of delay or the diffice of bids online by the bidders due The uploaded tender documents tender opening by the authorized Upon the successful and timely give a successful bid submission displayed with the bid no. and the bid with all other relevant details. Kindly add scanned PDF of all refile of compliance sheet. More information useful for sure Portal may be obtained at: https://w All tender documents including page as pare the specified format only tender which fails to comply manual bid submission will be a series of the bidder eligibility criteria, tective item for this tender is given in Analymous technical bid. The Bidders shall go through technical bid. The Technical bid should be series Annexure-B in pdf format only manual submission of bid will be a bid?" and page no. in all pages with signatory. The total no. of pages page of the documents. The technical bid should consist and all technical details along with give a detailed description of predetate and the compliance can be seen the series.

4) **Preparation of Tender**: The bidders should submit the bids in two bid system as detailed below.

Bid I _Technical Bid

The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per Annexure-B.

Bid II _Price Bid

The price bid should be submitted in excel format (BoQ) as per the proforma (Annexure C) uploaded in the e-Tender web site. The Quoted price should be inclusive of all cost and statutory levies at site location.

5) Price:

- a) The rate quoted shall be in INR inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this contract document.
- b) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.

6) Tenderer shall submit along with this tender:

- (i) Proof of having ISO or other equivalent certification given by appropriate authorities.
- (ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number.
- (iii) GST registration proof showing registration number, area of registration etc.
- (iv) All of your future correspondences including Invoices should bear the GST No. and Area Code.

8) Period for which the offer will remain open:

The Tender shall remain open for acceptance/validity till: 120 days from the date of opening of the tender. However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.

9) **EMD:** N/A

10) Performance Security: - N/A

- For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.
- **Risk Purchase Clause :**In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.

13) Payment:

- (i) 100% payment against completion of the work.
- (ii) Advance Payment: No advance payment is generally admissible. In case a specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a scheduled commercial bank in India equivalent to the amount of advance payment.

14) Acceptance and Rejection:

Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.

I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

15) Debarment from Bidding:

In case of breach of Terms & Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii) of GFR] from the date of Tender.

16) Disputes and Jurisdiction:

Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate on arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the

arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.

- a. **The Applicable Law:** The Purchase Order shall be construed, interpreted and governed by the Laws of India. Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- b. Any legal disputes arising out of any breach of contact pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
- **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

20) Eligibility Criteria:

- > As per the Government of India Order, only "Class I Local Suppliers" and "Class II Local Suppliers" can participate in this tender.
- Bidder should confirm their acceptance that they comply with the provisions with report to "Guidelines for eligibility of a bidder from a country which shares a land border with India as detailed at Annexure-F. The bidder should submit Certificate for "Bidder from/ Not from Country sharing Land border with India & Registration of Bidder with Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.
- Preference to "class I Local Suppliers": preference will be given to "class 1 local suppliers" (subject to class -I local supplier's quoted price falling within the margin of purchase preference) as per public procurement (preference to make in India) order 2017 .O.M No P- 45021/2/2017 pp(BE 11) dt 04/06/2020 subject to the conditions that the "class 1 Local Supplier" should agree to supply goods / provide service at L1 rate and furnish a certificate with the technical bid document that the goods/service provided by them consists local content equal to or more than 50%. (certificate from Chartered Accountant in case value of contract exceeds Rs 10 crore).
 - > 'Class I local supplier' means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to or more than 50% as defined under the above said order. Declaration to be provided as per Annexure-II per item/service/work.
 - ➤ 'Class II local supplier' means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to 20% but less than 50% as defined under the above said order. Declaration to be provided as per Annexure-II per item/service/work.
 - 'Margin of purchase preference': The margin of purchase preference shall be 20%. The Definition of the margin of purchase preference is defined in the Govt. of India Order No: P-45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India Order "Margin of Purchase Preference" means the maximum extent to which the price quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase preference.

**Note: Local content percentage to be calculated in accordance with the definition provided at clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021

Evaluation of Bids

Bid evaluation will take place in two stages.

Stage I Technical Bid evaluation

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	All bidders who have fully complied with bidder eligibility criteria I and technical evaluation (Annexure A) will
	only be considered for opening of price bid.
	Stage II: Price Bid Evaluation
	The price bid evaluation will be based on price quoted by the bidder. The rate quoted for Digital
	documentation of two ASI-protected National Monuments for Structural Analysis will alone be taken up
	for arrival of Lowest Bid (L1) value.
23)	Selection of successful bidder and Award of Order
23)	The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP,
	MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020.
24)	All information including selection and rejection of technical or financial bids of the prospective bidders will be
24)	communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder
	shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.
25) The tenderer shall certify that the tender document submitted by him / her are of the same replica of	
23)	document as published by IIT Madras and no corrections, additions and alterations made to the same. If any
	deviation found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will
	be initiated as per the terms and conditions of the contract.
26)	Due to Covid-19 pandemic pre-bid meeting will be conducted through online. Clarification to the queries and
20)	doubts raised by the bidders will be issued as a corrigendum/addendum in the e-tenders portal.
27)	Due to Covid-19 pandemic the bidders will not be entertained to participate in opening of Bids. Since the tender
21)	is e-tender, the opening of the bids may be checked using the respective logins of the bidders.

ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under "Specification, Guidelines, Terms and Conditions" of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

SIGNATURE OF TENDERER ALONG WITH SEAL OF THE COMPANY WITH DATE

Bidder Eligibility Criteria and Technical Specification for Digital documentation of two ASI-protected National Monuments for Structural Analysis

Tender No. CE/ARUN/072/2022/ DIGITALDOC

Bidder Eligibility Criteria – I (Public Procurement – Preference to Make in India)

Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 and other subsequent orders issued therein.

II. TECHNICAL SPECIFICATION for Digital documentation of two ASI-protected National Monuments for Structural Analysis

Brief Description:

Digital documentation of two Archaeological Survey of India-protected National Monuments, namely Jhulta Minar (Sidi Bashir Mosque) and Brick Minar (Structural Assessment) at Ahmedabad through 3D scanning with vector output for developing 3D structural meshed models to perform structural analysis using the finite element method.

S. No.	SPECIFICATION
1.	Field digital documentation and survey must be executed by combining laser scanning and photogrammetry techniques to cover not only the exterior surfaces, but also the
	interior of the structure so that a 3D solid model can be developed.
2.	The field survey must be executed with control points measured manually using total station.
3.	3D model of the scanned structures must be developed based on the generated point cloud data, compatible with STEP file format (*.stp or *.step), for eventual use with finite element programs. Further, simplification of the models needs to be made in
	discussion with IIT Madras in order to remove small areas and decorative elements for optimizing the meshing of the structural model.
4.	Vector output must be generated from point cloud slices to then generate 3D mesh for structural analysis.
5.	Deliverables should include: (a) High resolution ortho-mosaics of elevations and plans with ground sampling distance (GSD) less than or equal to 2-5 mm and supporting orthophotos for detail mapping.
	(b) High resolution 3D models in point cloud and mesh formats.(c) Vector output in format compatible with STEP file (*.stp or *.step).
6.	Proposed technical workflow for field survey and model development.
7.	Details of instrumentation and software proposed to be used for the work.
8.	Proposed timeline for field survey and submission of deliverables.
9.	Data supporting their experience and proof of works covering (1)-(4).

TECHNICAL BID PROFORMA

Tender No. CE/ARUN/072/2022/ DIGITALDOC

Tender Name: Digital documentation of two ASI-protected National Monuments for Structural Analysis
1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			

2.0 Technical Compliance:

S.No.	Description	Compliance (Yes/No)	Reference, Page No.
1.	Field digital documentation and survey must be executed by combining laser scanning and photogrammetry techniques to cover not only the exterior surfaces, but also the interior of the structure so that a 3D solid model can be developed.		
2.	The field survey must be executed with control points measured manually using total station.		
3.	3D model of the scanned structures must be developed based on the generated point cloud data, compatible with STEP file format (*.stp or *.step), for eventual use with finite element programs. Further, simplification of the models needs to be made in discussion with IIT Madras in order to remove small areas and decorative elements for optimizing the meshing of the structural model.		
4.	Vector output must be generated from point cloud slices to then generate 3D mesh for structural analysis.		
5.	Deliverables should include: (a) High resolution ortho-mosaics of elevations and plans with ground sampling distance (GSD) less than or equal to 2-5 mm and supporting orthophotos for detail mapping. (b) High resolution 3D models in point cloud and mesh formats. (c) Vector output in format compatible with STEP file (*.stp or *.step).		
6.	Proposed technical workflow for field survey and model development.		
7.	Details of instrumentation and software proposed to be used for the work.		
8.	Proposed timeline for field survey and submission of deliverables.		
9.	Data supporting their experience and proof of works covering (1)-(4).		

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE

FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)

Tender Name: Digital documentation of two ASI-protected National Monuments for Structural Analysis Tender No. CE/ARUN/072/2022/ DIGITALDOC

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Digital documentation of two ASI-protected National Monuments for Structural Analysis	1	Nos			
	Grand Total					

Total Amount Rupees in words

$\frac{FORMAT\ FOR\ AFFIDAVIT\ OF\ SELF\text{-}CERTIFICATION\ UNDER\ PREFERENCE\ TO\ MAKE\ IN}{INDIA-PER\ ITEM}$

Tender Reference Number:
Name of the item / Service:
Date: I/WeS/o, D/o, W/o, Resident of
Hereby solemnly affirm and declare as under:
That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide GoI Order no. P-45021/2/2017-PP (B.EII) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-45021/102/2019-BE-II-Part (1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and
That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.
Tick (✓) and Fill the Appropriate Category I/We
 category. The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage
Address Percentage of Local content:%
For and on behalf of(Name of firm/entity)
Authorized signatory (To be duly authorized by the Board of Directors) <insert and="" contact="" designation="" name,="" no.=""></insert>
[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Non-submission of this will lead to Disqualification of bids.

$\underline{Annexure - F}$

(To be given on the letter head of the bidder)
No Dated:
<u>CERTIFICATE</u>
(Bidders from India)
I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.
OR (whichever is applicable)
(Bidders from Country which shares a land border with India)
I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I from (Name of Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. (Copy/ evidence of valid registration by the Competent Authority is to be attached)
Place: Signature of the Tenderer Date: Name & Address of the Tenderer with Office Stamp