

NOTICE INVITING e-TENDER

The Institute of Wood Science and Technology (IWST), Bengaluru invites online bids for ***Preparation of GIS Layers, Maps and related reports for the Project “Detailed Project Report (DPR) Preparation for rejuvenation of Krishna river through forestry Interventions”*** under two bid systems. Please visit the website www.icfre.gov.in for further details. Last date for submission of tender is 21-06-2019. The details of tender with specifications and complete terms and conditions are available on the MoEF&CC portal i.e. <https://moefcc.euniwizarde.com>

The schedule of activity is as follows:

1.	Tender No. & Date	7-15/2019-20/IWST/Coord(F)/DPR Date 07/06/2019
2.	Tender Inviting Authority:	The Director, Institute of Wood Science and Technology (IWST) 18 th cross, Malleshwaram, Bengaluru 560 003
3.	Brief description of Job	Technical Services for Preparation of GIS Layers, Maps and related reports for the Project “DPR Preparation for rejuvenation of Krishna river through forestry Interventions”.
4.	Cost of Tender Document	Rs. 500 (Non Refundable) towards tender fee to be paid online only (e-payment) as per the provisions available in the website https://moefcc.euniwizarde.com
5.	e-tender processing fee	Rs. 3,540/- (Rupees Three Thousand Five Hundred Forty Only)
6.	EMD (Bid Security)	An Earnest Money Deposit of Rs. 50,000/- (Rupees fifty thousand Only) to be paid online only (e-payment) as per the provisions available in the website https://moefcc.euniwizarde.com . All MSMEs as defined in MSME procurement policy issued by Department of MSME or area registered with central purchase organization and all start-ups defined as per GSR-364 (E) dated 11 April 2018 (recognized by DIPP) are exempted from EMD
7.	Tender documents available at Website	www.icfre.gov.in and https://moefcc.euniwizarde.com
8.	Publish date	7 th June 2019
9.	Online Bid submission last date and time	21 th June 2019 12:00 Hrs.
10.	Date and time for opening on line Technical Bid	21 th June 2019 15.00 Hrs.
11.	Date and time for opening on line Financial Bid	To be notified after technical bid Evaluation.
12.	Contact person	Purchase Officer, IWST Contact No: 080-22190153

NOTE: All other details including any date extension, clarification, amendments, etc. may be obtained through the site, or during the pre-bid meeting if any. Bidder should take into account the corrigendum published from time to time before submitting the online bids. The details of tender with complete terms and conditions are available on the MoEFCC Portal at URL: <https://moefcc.euniwizarde.com> and website www.icfre.gov.in which may be read out carefully before applying for the same.

TECHNICAL BID

1. PURPOSE OF TENDER

- a) Data integration from already existing maps, GIS datasets, database & various layers available with National & State Level Departments/Organizations/institutes.
- b) To prepare a geo-referenced database map in GIS environment and update/collect information as per work allotted.
- c) Technical co-ordination and support of GIS activities to other experts & subject matter specialist and other work groups of IWST.
- d) Analysis of the geographical area on the basis of various criteria and indicators and presenting the same as tables, graphs and chapters.

2. SCOPE OF WORK

The following GIS layers needs to be prepared.

- **Watershed boundary delineation up to Micro watershed level**
- **Demarcation of Catchment area.**
- **Demarcation of study area boundary.**
- **Creation of State, District and Sub-district boundaries from Census of India**
- **Creation of mosaic of Village boundaries from Census of India.**
- **Land use Land cover to be prepared from Satellite Data using visual interpretation at 1:50,000 scale (Built-up Land, Agricultural Land, Forest, Waste Lands, Water Bodies and Areas which are important or sensitive for ecological reasons like wetlands, watercourses or other water bodies, biospheres, mountains, forests, Protected Areas, Notified Eco-sensitive areas, mangroves etc.)**
- **Creation of Digital Elevation Model (DEM)**
- **Slope Map preparation**
- **Aspect Map preparation**
- **Forest Type Map preparation**
- **Forest Density and Forest cover Map preparation**
- **Soil Type Map preparation**
- **Soil pH Map preparation**
- **Soil Depth Map preparation**
- **Soil Erosion Map preparation**
- **Drainage Map from satellite data**
- **Road and Settlement locations from topographical sheets**

- **Identification of suitable zones using multi-criterion analysis for forestry interventions.**
- **Demarcation of boundaries for different categories of forestry interventions as provided by stake holders on very high resolution satellite image.**
- **Composition of maps in A0 or A1 size and A4 size for Report Purpose**
- **Ground Truth verification for Land use and Forest Density Map**
- **Map/Graph/Chart/Statistics for Report need to be prepared**

1. The above list indicates the role and responsibility of Technical Service Provider with reference to preparation of GIS layers and maps.
2. All data to be used has to be procured by the service provider
3. Layers have to be prepared for the entire catchment/ riverscape.
4. Map composition has to be done for the entire catchment as well as state-wise.
5. For preparation of reports and presentation, the Technical Service Provider shall provide clear description of methodology to be adopted and they should imbibe GIS compatibility of information/attribute data in all the phases and stages of the subject of the assignment.
6. The correspondence on behalf of the service provider would be done by the IWST with the National & State level Departments/Organizations/Institutes to expedite the procurement of already existing maps & databases. However the job to expedite & procurement would be of the service provider.
7. Demarcation of the above prioritization area should be done on Survey of India toposheets (to be provided by IWST). All maps showing potential areas identified by the service provider on scanned (minimum 300 dpi) survey of India toposheets (1:50,000).
8. All the maps and databases, both original and derived, in hard & soft copy, would now and in future continue to be the property of IWST and would not be used/ utilized by the service provider for any other purpose or project, whatsoever.
9. Layers ready to be used in GIS environment must be produced (including LULC map ready to be used for all the four States). All GIS layers developed/procured by service provider should be written in storage drive/CD/DVD in a format compatible with ERDAS and ArcGIS software.
10. The service provider would have to present the first, second and final report as per Time Schedule of work and defend the same for scrutiny by committee duly constituted by the Director, IWST.

3. TENDERING/BIDDING PROCESS

- On-line tender is invited in two bid systems i.e., technical bid & financial bid from competent agencies and producers who have completed at least one project of “Similar Nature” of work in a Government Department/PSU/Autonomous Body or any reputed Organization.
- Financial bids of only those firms who qualify the technical bid evaluation will be considered by the committee.

4. INSTRUCTION TO BIDDERS FOR E-TENDERING

The bidders are required to submit soft copies of their bids on the e-tender Portal using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the e-Procurement Portal, prepare their bids in accordance with the requirements and submitting their bids online on the e-tender Portal.

More information useful for submitting online bids on the e-Procurement Portal may be obtained at: <http://moefcc.euniwizard.com>

REGISTRATION

- Bidders are required to enroll on the e-Procurement Portal ([URL: https://moefcc.euniwizard.com](https://moefcc.euniwizard.com) with clicking on the link “Online bidder Registration” on the e-tender Portal by paying the Registration fee of Rs. 2360/- per year charge.
- As part of the enrolment process, the bidders will be required to choose a unique user name 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 with the bidder.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 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 logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.
- The scanned copies of all original documents should be uploaded on portal.
- For any Query contact to our helpdesk Number 011-49606060, Email: ewizardhelpdesk@gmail.com Mr. Pavan – 9483459908.

5. GENERAL TERMS AND CONDITIONS

- a) Quality Cum Cost Based System (QCBS) will be used for evaluation and selection of consultants. In this system, proposals will be ranked according to their combined technical (ST) and financial (SF) scores. The weights for technical and financial scores will be 70 and 30 respectively.
- b) The bidder, who will qualify pre-qualification criteria, will be considered for technical bid evaluation. Bidders after qualifying in Technical bid Evaluation will only be considers for Financial Bid Evaluation.
- c) All bidders must quote the price in Indian Rupees for delivery at designated consignee address including all applicable taxes/duties. **Rates are to be quoted strictly in financial bid as per provisions available in E-procurement portal only**, else it will be considered as invalid. The rates approved are inclusive of all prevailing taxes which are to be levied; any non-inclusion of such amount/tax will be the liability of supplier. Payment of any other latent charges/taxes not specified/mentioned in the cost quoted by the firm would solely be the liability of the firm.

- d) Irrespective of various costs/taxes, L1 bidder will be decided on the Grand Total. The taxes and duties should be mentioned separately and comparison will be carried out on the total costs without taxes.
- e) Conditional Tenders are liable to be rejected.
- f) In case of any dispute, the Director, Institute of Wood Science and Technology (IWST), Bengaluru shall decide the issue and his/her decision will be final and shall be binding on the parties.
- g) The Director, Institute of Wood Science and Technology (IWST), Bengaluru reserves the right without assigning any reasons thereof to:
 - i. Accept or reject whole or any part of an offer.
 - ii. Reject any or all offers partly or wholly.
 - iii. Cancel or withdraw the Tender notice.
 - iv. Accept or reject any deviations from these conditions

NOTE:

The information asked for in attached Annexure - A and B must be furnished in given format only and shall be supported by necessary documents. It may be noted that supporting documents alone shall not be accepted as a substitute for the information asked in the Annexure - A and B.

Annexure – A

Pre-Qualification criteria - Compliances must be filled by the bidder

Sl. No.	Description	Compliance Yes/ No	Page No. of Documents attached
1	The agency must be a firm or legal entity i.e. Company incorporated in India under the (Indian) Companies Act 1956/2013 or a company incorporated under equivalent law abroad, Partnership Firm registered under Partnership Act, 2008 or a Society registered under The Societies Registration Act, 1860. The agency must have been operational in India for at least last 5 years. (Registration/Incorporation Certificate must be attached)		
2	The agency must have sufficient work experience in the field of Remote Sensing and GIS based projects in India for minimum of 5 years. (Work orders and Completion Certificates must be attached as proof of experience).		
3	The agency must have experience of similar kind of services with Government organizations/Public Sector undertakings etc. during last seven years for which the cost of at least one work order shall be more than Rs. 15 lakh. (Work orders and Completion Certificates must be attached as proof of experience).		
4	The agency should have well established office with minimum infrastructure comprising High end Desk Top Computer/Work Station, A0 size on larger scanner, A0 size on larger plotter along with standard image processing (Erdas Imagine/ArcGIS/Geomediasoftwares. (Proof must be attached for said infrastructure/facilities).		
5	The agency must have PAN of income tax department. (Attach PAN and Income Tax Clearance Certificate of last three Financial Years.)		
6	The agency must have valid GST Registration Certificate (Copy must be attached)		
7	The agency must have minimum average annual turnover of Rs. 50 Lakhs in last three Financial Years. (Certified copy of audited balance sheets along with Certificate from Chartered Accountant must be attached).		
8	The Consultant Firm shall not be a Consortium		
9	The agency must not have been black listed or debarred in any Central/ State Govt./PSU/Autonomous bodies and the like. (Attach Self-Declaration on Company letter head)		
10	The agency must not have been penalized by any Central/ State Govt. / PSU/ Autonomous bodies and the like for delayed completion of work or carrying substandard work. (Self-Declaration on Company letter head).		
11	The agency must have sufficient technical staff/ man power along with experienced executives. (Undertaking on company letter head)		

Annexure - B

PARTICULARS OF THE FIRM

1.	Name of consulting firm/agency	:	
2.	Type of organization (individual / partnership / corporation / other)	:	
3.	Date of establishment	:	
4.	Corporate / Registered office address in full	:	Address: Pin: E-Mail: Phone: Fax:
5.	Local Business office address in full	:	
6.	Contact person for this Tender	:	Name: Designation: Full Address: Pin: Email: Phone:
7.	Authorized person who has signed Tender Documents	:	Name: Designation: Full Address: Pin: Email: mailto:sciencepariwar@gmail.com Phone:

8. Details of Financial turnover (Last Three years):

S. No.	Financial Year	Total Turnover (In INR)
1		
2		
3		

9. Details of sufficient work experience in the field of Remote Sensing and GIS based projects in India
(for minimum of 5 years):

S. No.	Title of the Assignment	Name of the Client	Start date (Month/Year)	Completion Date (Month/Year)	Cost of the assignment	Proof of Completion Attached

(separate sheet may be attached if required)

10. Details of Similar Kind of services with Government organizations/Public Sector undertakings etc.
during last seven years for which the cost of the single work order is more than Rs. 15 lakh:

S. No.	Title of the Assignment	Name of the Client	Start date (Month/Year)	Completion Date (Month/Year)	Cost of the assignment	Proof of Completion Attached

(separate sheet may be attached if required)

Enclosures:

- (a) Any other relevant document(s) (please list)
- (b) Pre-qualification compliance (**Filled Annexure-A and B must be enclosed**)

Signature of Bidder

Name

With Seal of the Firm

Date:

Place:

6. TECHNICAL BID EVALUATION

Pre-qualification criteria given in para –5 will be evaluated by Tender Committee and those qualify will be considered for further evaluation.

Technical Bid shall bear maximum marks 100 and the minimum marks for qualifying the technical bid shall be 70 marks. Bidders after qualifying in Technical bid Evaluation will only be considers for Financial Bid Evaluation.

The break up of maximum marks shall be based on the following parameters:-

S. No.	Parameter	Max. Score	Details	Break Up	Page No. of Documents attached
1.	The Bidder should have minimum average annual turnover of Rs. 50 lakhs (Rupees fifty lakhs) for last three Financial Years.	10	Rs. 50 Lakh to Rs. 1.00 Cr.	05	
			Above Rs. 1.00 Cr.	10	
2.	The Bidder should have experience of similar kind of services with Government organizations/Public Sector undertakings etc. during last seven years for which the cost of the single work order more than Rs. 15 lakh. (Completion Certificate must enclosed along with work order)	20	5 marks for each completed project	5	
3.	Bidder must have relevant ISO 9001:2008 or 9001:2015 certification in the Line of Business. (Copy of ISO Certificate must attach)	10	No	0	
			Yes	10	
4.	Sr. Consultant/Team Leader should have minimum qualification of Post-Graduation or M. Tech. in relevant field or PG Diploma in Remote Sensing /GIS/Geo-informatics with minimum experience of 5 years in Remote Sensing & GIS. (Detailed CV along with qualification documents must be enclosed)	20	5 marks for 5 years of experience and additional 5 marks for each additional year of experience	5	
5.	A detailed work plan, proposing Approach, Methodology and timeline along with Technical approach to be followed by the consultant for completing the project.	40	No	0	
			Yes	Up to40	

NOTE:

- *A clear and detailed Approach and methodology towards the assignment. A work plan on how the methodology will be executed in the given time shall be attached. IWST, may request the shortlisted consultants to make presentation if required. (The dates of presentation would be intimated accordingly).*
- *The documents already enclosed in pre-qualification criteria, need not to be attached again. Page no. should be mentioned clearly for the technical evaluation.*

7. EVALUATION OF PROPOSALS

A three-stage evaluation procedure will be adopted,

Stage - 1 EVALUATION OF TECHNICAL PROPOSAL

The Evaluation committee appointed by Director, IWST will carry out its evaluation applying the evaluation criteria and point system.

The technical evaluation criteria will include the firm's relevant experience, technical manpower (qualifications, availability and experience) and availability of necessary infrastructure machinery etc. The technical evaluation also includes examination of the quality of reports of past jobs submitted with the proposal. Evaluation will be carried out for total technical score (ST) for 100 points and scoring 70 points out of 100 will be the eligible criteria for financial evaluation.

Stage - 2 EVALUATION OF FINANCIAL PROPOSAL

The evaluation committee will determine if the financial proposals are complete and without computational errors. The lowest financial proposal (The currency is in Indian Rupees) will be given a financial score (SF) of 100 points. The financial scores of other proposals will be computed as follows:

$SF = 100 \times FM / F$ (Where F is amount in financial proposal, FM is amount in lowest financial proposal).

Stage - 3 FINAL EVALUATION OF THE BID

Proposal will finally be ranked according to their combined technical (ST) and financial (SF) scores using the weights **$S = ST \times T\% + SF \times F\%$**

The weight (T %) given to the Technical Proposal is 70%

The weight (F %) given to the Financial Proposal is 30%

8. TIME SCHEDULE OF WORK

- a) The work should be completed within the period of 6 months.
- b) Time is essence of this contract. Therefore, no extension of time for whatsoever reason shall be permitted.

9. DECIDING AWARD OF CONTRACT

- a) Quality and competence of the technical service provider shall be considered as the paramount requirement followed by financial bids.
- b) The Director, IWST, Bengaluru reserves the right to accept or reject any or all the proposals without assigning any reason.
- c) You are requested to hold your proposal valid for 30 (Thirty) days from the date of submission. During this period you will maintain, your proposed price without change. The IWST will make its best efforts to finalize the agreement within this period.
- d) Please note that the cost of preparing a proposal and contract including visits to IWST, if any is not reimbursable.

10. REGARDING CONTRACT

- a) If any part of the contract does not correspond or agree with any other part, or if any question arises as to the meaning of the terms of the contract or as to the performance of the work, the Director, IWST, Bengaluru shall determine the matter and his/ her decision shall be final and binding upon the parties hereto.
- b) The contract when executed by the parties hereto shall constitute the entire contract between the parties in connection with the works covered, and shall be binding upon the parties hereto or upon either of them unless the said modification shall be in writing and duly executed by IWST and the firm.
- c) The contract shall not be assigned or sublet in whole or in part by the firm without prior written consent of the Director, IWST, Bengaluru. Any assignment or subletting of this contract by the firm without prior written consent of Director, IWST, Bengaluru or any interest therein, or of an money due or to become due by reason of the terms hereof, shall be null and void.
- d) The Director, IWST, Bengaluru has the powers to cancel the contract at one-week notice, if the services of the contractor are found unsatisfactory or otherwise.

11. TAXES & DUTIES

- a) 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.
- b) Statutory deduction, wherever applicable, shall be made from invoice as per government rules. Necessary certificate will be issued for such deductions.
- c) 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.

12. PENALTY

In the event of failure to meet the job completion in stipulated date/time liquidated damage may be imposed on the contractor for sum not less than 0.5% of the contract value for that item/job for each week or part thereof.

13. TERMS OF PAYMENT

- a. 30% payment will be made to the Technical Service Provider on Submission of third Draft report and map.
- b. 70% Final payment will be made on submission and acceptance of work by the department.

14. ARBITRATION

In the event of any dispute arising out of or relating to this tender, it should be referred to sole arbitration of Director, IWST, Bengaluru or any other person nominated by him whose decision will be final and binding for both the parties.

Director, IWST