

**Request for Proposal for Supply of Digital Terrain Model
(DTM) for Specified areas of River Basins,
Jammu & Kashmir and Ladakh**

[Abstract](#)

Supply of Digital Terrain Model (DTM) for Specified areas of River
Basins, Jammu & Kashmir and Ladakh

Date 12 June 2020

Contact address
Muralikrishna.m@rmsi.com

Tender Summary

Tender Title: Package 3: Terms of Reference for Supply of Digital Terrain Model (DTM) for Specified areas of River Basins, J&K and Ladakh

Contract Period: 4 months

Package Number: 3/DTM/2018-01

Date of Issue: 12th June 2020

Pre-Proposal Meeting: Nil

Queries: By email on or before 20th June 2020

Selection process: Technical and Financial Proposal Evaluation

Mode of Submission: By email in 'pdf' format – separate technical and financial proposals. Financial proposal should be **password protected**

Bid Closing Date: 29th June 2020, 5 PM IST.

1. General Condition for Bidders

RMSI Private Limited is inviting proposal from reputed firms for supply of Digital Terrain Model (DTM) for Specified areas of J&K and Ladakh River Basins. This is as part of the multi hazard risk assessment project RMSI is implementing for the Government of J&K (Jhelum Tawi Flood Recovery Project; JTFRP, PMU) under the funding of the World Bank.

RMSI reserves the right to accept or reject any or all proposals without incurring any obligation to inform the affected applicant/s of the grounds. RMSI also reserves the right to allocate the work to multiple vendors. The cost of preparation of the proposal is the responsibility of the vendor. The eligibility criteria will be first evaluated as defined below for each bidder. Detailed technical evaluation will be taken up in respect of only those bidders, who meet with the prescribed eligibility criteria. RMSI will provide in writing to the JTFRP, PMU all observations regarding acceptance or rejection of proposal of bidders.

2. Eligibility Criteria for participating Consultancy Firm

S. no.	Minimum criteria	Document proof
1.	A legal entity registered in India or outside India and in operations for at least 3 years.	Registration certificate copy/ proof of incorporation/ commencement of business
2.	Annual average turnover of firm for the last 3 financial years should be at least INR 2 crores	Certified audited copy of financials for last three years
3.	Executed similar projects of at least INR 0.5 crore in the last 5 years in India or elsewhere	Work order or completion certificate

3. Submission of Quotation

Technical and Financial proposal should be submitted in pdf format by email to muralikrishna.m@rmsi.com before 5 pm on 29th June 2020. The email subject line should clearly mention “Proposal: Supply of Digital Terrain Model (DTM) for Specified areas of River Basins, J&K and Ladakh”. The receipt date and time of email containing proposal will be considered as the time of receipt of the proposal.

The financial proposal should be in pdf and password protected. RMSI will ask the technically qualified vendors to provide the password of the financial proposal to designated email id of PMU.

4. Bid Submission format

The following information should be included in the technical proposal:

1. Covering letter (1 page)
2. Firms profile and experience (2 pages)

3. Firms experience of working in similar projects (1 page case study maximum of 5 case studies and work order/completion certification for each case study)
4. Brief Methodology for DTM generation and quality assurance criteria (5 pages)
5. Registration certificate copy
6. Certified audited copy of financials for last three years
7. Work order or completion certificate

The following information should be included in the financial proposal:

1. Cover letter
2. Financial proposal should be quoted per sq km (considering the total study area) as per the financial proposal performa attached in annexure in Indian Rupees. This document must be password protected. The applicable tax amount should be mentioned separately. Tax amount will not be considered for evaluation. Tax will be as per government rules.

5. Queries

Any queries should be by submitted by email before 5 PM on 20th June 2020 and RMSI will provide its response by 22th Apr 2020 by 5 PM. Queries should be submitted by email to muralikrishna.m@rmsi.com.

The query responses will be shared with all vendors.

6. Evaluation criteria

Following criteria will be considered for the evaluation of the bid:

1. Firms profile and experience (20 marks)
2. Firms experience working in similar projects (2 projects minimum) (30 marks)
3. Brief Methodology and quality assurance criteria (5 pages only) (30 marks)
4. Experience working in India or elsewhere (20 marks)

Minimum qualification marks: Minimum of 75 marks on technical proposal is required to qualify for financial proposal opening.

7. Financial bid opening

The technically qualified firms will be requested to submit the password of the financial proposal. The financial bid will be opened in the presence of PMU, JTFRP.

8. Contract award

A firm will be selected under Least Cost Selection (LCS) Method. RMSI will select the lowest Financial Proposal of a vendors whose Technical Proposal has qualified.

9. Delay damages

A delay damage amount of INR 10,000 per day of delay in delivery with a maximum ceiling of 5% of the contract value is applicable.

10. Payment Terms

Payment terms will be 30% as advance against Bank Guarantee, 40% on submission of the DTM and balance 30% after the approval of the DTM data submitted.

Note: The contract term is for 4 months and the final deliverable should be submitted by 4 months from signing of contract.

Terms of Reference for Supply of Digital Terrain Model (DTM) for Specified areas of J&K and Ladakh River Basins

Introduction

RMSI is implementing the Multi-hazard Risk Assessment project for the Government of J&K under Jhelum Tawi Flood Recovery Project; JTFRP, funded by the World Bank. As part of this project there is a need to understand the terrain of river basins to carry out the flood modeling.

Requirement

The Firms should supply Digital Terrain Model (DTM) for Specified areas of River basins, J&K and Ladakh at 0.5 m spatial resolution with a vertical accuracy up to 0.5 m LE90.

Scope of work

Supply of Digital Terrain Model (DTM) for Specified areas of River Basins, Jammu & Kashmir at 0.5 m spatial resolution with a vertical accuracy up to 0.5m LE90.

Methodology

The vendor can suggest the right technology/method (including data product) for delivering the required DTM. Any approach which can provide better vertical accuracy will be given preference. In case, a bidder wants to propose to different methodology they are free to submit stating the advantage of different methodology, its accuracy level and financial quote. RMSI reserve the right to decide the methodology suitable for the assignment.

The technical proposal should contain a brief methodology stating how the firm intends to supply 0.5 m spatial resolution DTM. The methodology should clearly explain how DTM is generated and quality control will be done by the vendor. Vendor needs to share the data which will be generated as part of quality validation process. In case vendor has to carry out field operation for collection of any data or information, RMSI will facilitate this by getting letters from the Government. It is the sole responsibility of vendor to conduct the field operations.

RMSI project manager & technical team will review the supplied data and provide comments if any regarding the quality of the data delivered.

Quality

The firm needs to provide high quality data outputs on time. Data of inferior quality will be rejected. The DTM delivery has to be completed in 4 months from the date of award of the contract.

In case the quality of delivered DTM is not good, RMSI will terminate the contract and consider the next bidder for the job. No payment will be given if the firm fails to deliver quality outputs.

Expected completion of work: The entire data should be delivered in 4 months from date of award of the contract.

Tax: The firm should provide GST certificate or certificate proving exemption of GST/any tax along with the technical proposal. The financial proposal should clearly mention the total payable amount and the tax amount separately. The tax amount will not be considered during the evaluation of the bid.

Area of Interest for DTM Procurement

DTM of the study area will be procured for the areas demarcated as pink color in Figure 1. Area-wise details for different regions are provided in Table 1.

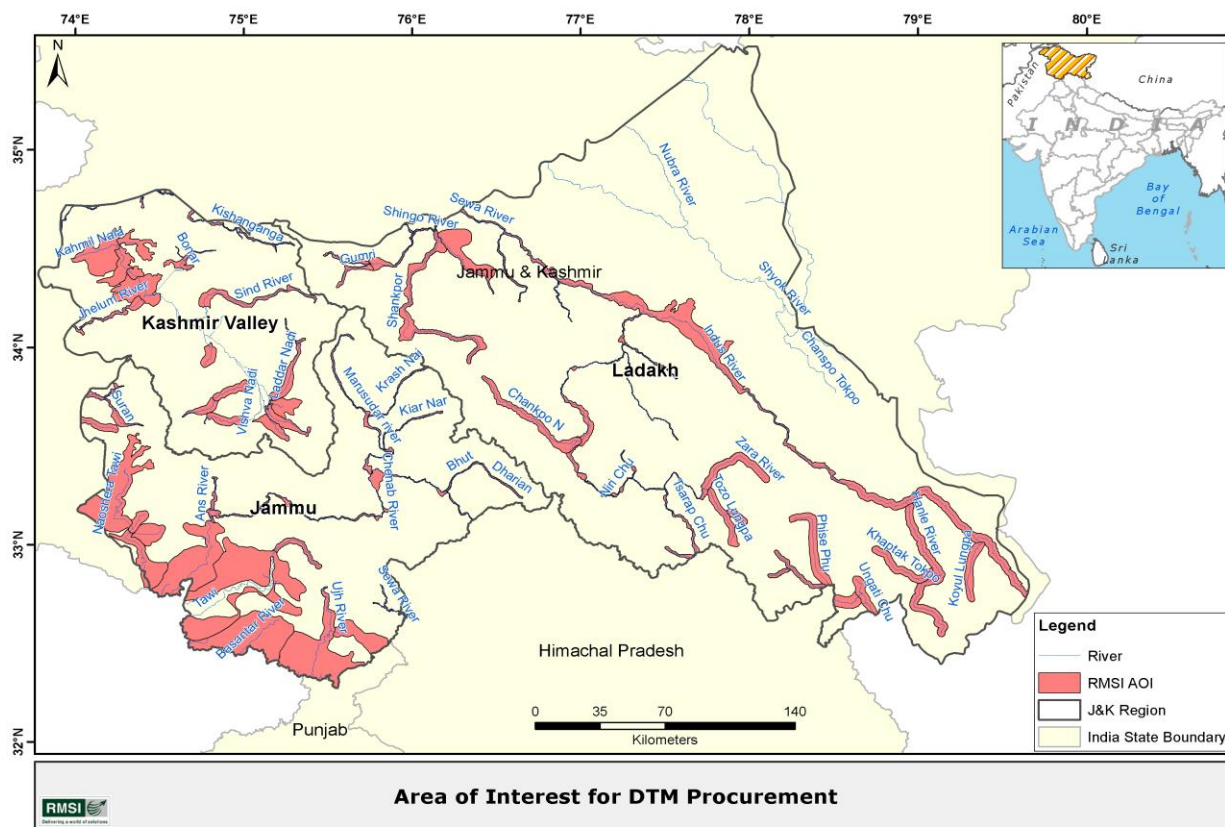


Figure 1: Area of Interest for DTM Procurement

Table 1: Region wise area detail

Region Name	Area (Sq Km)
Jammu	6129
Kashmir Valley	2218
Ladakh	4843

Technical Specification

Technical specifications of the processed DTM should be as per Table 2

Table 2: Technical Specification of the DTM

Area (Sq km)	Resolution (meter)	Vertical Accuracy*	Horizontal Accuracy	Vintage**
13,190	0.5	0.5m LE90	0.5m LE90	2016 and newer

* Vendor can suggest in case they can provide better vertical accuracy

** In case vendor proposed to use satellite data product to extract DTM.

Interested vendors can approach RMSI to the mentioned email id for shp file of the area of interest.

Annexure

Format for financial proposal

S.N.	Unit Rate Per Square km (INR)	Total Area (square km)	Total Cost (INR)	Taxes