

## Query responses

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

Query response:1

In consultation with the PMU, the following responses are provided.

S.No	Queries	Response
1.	To achieve specified accuracy of 0.5m LE90, DGPS survey based GCPs will be required. Kindly clarify if client will provide GCPs or successful vendor has to do DGPS survey for GCPs.	Vendor has to design appropriate number of GCPs required and establish their own GCP's as part of this assignment
2.	CE90 and LE90 accuracies are benchmarked w.r.t the known references (which are generally sourced by the client). Kindly specify the source references those will be used by the client to check the DTM for horizontal and vertical accuracy	Follow the bench mark of Survey of India references
3.	Feasible source for DTM creation for the given AOI (and within given time) would be very high resolution satellite stereo image. And from the feasibility/legal point of view, satellite images to be procured from NRSC for the highly sensitive project area which would take 2 to 3 months, it's requested to exclude the satellite image procurement time from the specified project time line of 4 months. Kindly consider our request.	The time line of project will be 5 months from signing contract or 3 months after the procurement of image, which ever is earlier.  <b>Refer Amendment - 1</b>
4.	Satellite stereo images procurement from NRSC for the highly sensitive project area would be easier in case the client (JTFRP) place order for the satellite images. Successful vendor can facilitate/assist JTFRP in image procurement. Kindly review and consider this.	The image will be procured by the vendor from NRSC, JTFRP will facilitate. Vendor has to quote the cost of satellite data and DTM processing cost separately in their financial proposal.
5.	What kind of inputs will be provided by the tenderer?	Issue necessary letter to districts to permit vendor to carryout any field survey related to the assignment
6.	Will the tenderer provide the Stereo Pair Satellite Image or the vendor needs to procure? Kindly clarify.  If it is the responsibility of the vendor to procure the images, what is the preferable resolution of the Satellite Imagery? As per Govt. of India regulations a private company cannot procure images directly. All procurements need to be routed through NRSC & Govt. Agency has to be provided with the letter to procure the imagery. Kindly clarify.  As per our experience, for 0.5 mts resolution DTM minimum image resolution should be 0.25 mts to 0.3 mts. Kindly clarify your requirements.	Please read the response of item 4  The requirement is 0.5 m vertical resolution. Vendor can provide two financial offers one for 0.5 m and another for 1 m (or any alternate option which is close to what is requested in RFP).  <b>Refer Amendment - 1</b>
7.	Are you going to provide the Bundle adjusted block file or will the Vendor have to do Aerial Triangulation? Kindly clarify.	No

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8.	Will you provide the Control Points or Vendor needs to collect the DGPS points? If it is the responsibility of the vendor to collect the DGPS points, what will be the distance between the points and time observation for each point?	No. Vendor to decide this to get best result as per the required accuracy.
9.	Are Ortho Generation, Ortho Mosaic and Contour part of deliverable?	No
10.	If contour is required, what will be the interval of contour?	Not required
11.	What will be the location of project execution? Is it mandatory to execute the project from the client site or the vendor can remotely execute from the vendor's premises?	The vendor can also execute from their premises as per the applicable clause of relevant NRSC Policy.
12.	Will you be providing us Satellite data	Same as per response given for item 4
13.	Is triangulation with in our scope of work? If yes, will you be providing us Ground Control Points?	Vendor has to devise its own method to provide high quality output and the vendor has to manage DGPS survey
14.	What is the percentage of Bank Guarantee and its validity?	30% of the vendor cost. The cost of satellite data will not be included. The validity is for the project duration.
15.	Will there be any exemption of Bank Guarantee for MSME's?	This is not applicable for World Bank funded projects
16.	Time period specified for completion of project is 4 months. In case lockdown or similar situation, will there be any exemption of time?	What ever applicable under force majeure, time exception will be considered
17.	Where do we need to execute the work? Own premises or client's premises?	Refer response at item 12
18.	Do you require grid? Any specific requirement of interval?	The query is not clear
19.	Is field verification part of the scope? Do we need to visit field?	Yes, Vendor needs to devise mechanism to provide good quality output
20.	Do you require attribute data?	Elevation value and coordinates
21.	Quality will be checked by your managers. Will it be done phase wise or entire area?	Vendor has to provide a output for a pilot area. This will be verified for accuracy by RMSI and shared. Rest they can share phase wise as well.
22.	If you award the work to multiple vendors, will opportunity be given to L2, L3 vendors at L1 rate?	The work will be awarded to single vendor only
23.	What will be the deliverable format?	Geotiff and ESRI grid
24.	Please provide us AOI in shape format.	Please find attached
25.	Eligibility Criteria for participating Consultancy Firm Question : Is consortium allowed?	No

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26.	Annual average turnover of firm for the last 3 financial years should be at least INR 2 crores Question : What if, bidder is having last 6 financial years, average audited turnover is INR 2.0 Crore? Will bidder be qualified?	No Change
27.	Will you need raw imageries as well or just DTM output?	DTM only
28.	Accuracy: 0.5 meter RMSE (Relative ) or more with GCP (maximum 20m RMSE *limited areas only) instead of 0.5m LE 90/0.5m CE 90, in the terrain less than <20 degree slope. And 2-5 meter RMSE without GCP, can be amended accordingly.	For terrain where GCP points can be collected (accessible area) accuracy should be 0.5 m RMSE (relative) and for rest of area (inaccessible areas) without GCPs, the accuracy should be 2-5 m RMSE
29.	Vintage: use the data before and after 2016 to improve accuracy	No need
30.	Delivery Term: We expect that collecting new images may be required after signing the contract depends on the areas or if vintage/accuracy requirements are not relaxed. In that case, is it possible to discuss the delivery term (e.g. deliver the DTM for the area where are required collecting new images can be provided as soon as it's ready, etc...)? Also, the additional cost would be required to collect new images. We wonder if we need to have another contract for this.	We expect the whole work based on archive data preferably/fresh data and as per the project timeline under single contract