

Response to Pre-bid queries of “Appointment of Consultancy for undertaking Topography, Drone Surveys and developing GIS enabled portal for revised alignment of Mumbai Metro Line 11” RFP

Response to Pre-bid queries regarding ‘Appointment of Consultancy for undertaking Topography, Drone Surveys and developing GIS enabled portal for revised alignment of Mumbai Metro Line 11’ RFP

Date: December 08, 2023

Ref: Request for Proposal (RFP) for ‘Appointment of Consultancy for undertaking Topography, Drone Surveys and developing GIS enabled portal for revised alignment of Mumbai Metro Line 11’ RFP published on July 24, 2023

Given below is a compilation of response to the queries received from interested bidders regarding ‘Appointment of Consultancy for undertaking Topography, Drone Surveys and developing GIS enabled portal for revised alignment of Mumbai Metro Line 11’ RFP. The responses may be taken into consideration in the bid submission.

SN	Clause No., Pg. no.	Query Received	MMRCL Response
1	Clause 1.2 Pg no. 06	Kindly provide the total area of interest in sq. km. for which the drone survey needs to be carried out.	11 sq.km. Please refer Addendum-2 (Sr. No. 1).
2	Clause 1.7 Pg. no. 8	Extension of 1 week for submission of tender- we require an additional 1 week to ensure the quality and accuracy of our proposal	Refer Addendum-2 (Sr. No. 3)
3	Clause 1.3 Pg no. 06	Kindly mention the scale of the base map to be prepared.	Basemap shall be prepared at the scale of 1:500. The results are expected to be provided in Vector format and can be at various scale.
4	Clause 1.3 Pg no. 06	As per geo spatial industry standards an Enterprise level software will be required for the development of a geo-enabled web portal in addition to the mentioned desktop license for data preparation. So, we kindly request to revise the BOQ/deliverable and also include proprietary Make in India GIS enterprise software.	RFP conditions prevail.
5	Clause 1.3 Pg no. 06	We request you to consider the COTS/Open Source, Open-source portal also can be certified as per the MEITY guidelines through CERT_IN to ensure security of the data Open-source platform can reduce the project cost and beneficial for the MMRCL	RFP conditions prevail.
6	Clause 1.4.3, Pg. no. 7	In the section elaborating scope of assignment, there is a requirement for	Developing digital GIS base Map and integrating all survey and field

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		launching digital map on secure cloud server. Kindly provide specific requirements with regards to hosting the map on cloud. Will MMRC provide the cloud infrastructure of the bidder is required to provide the same. Also, can we suggest GIS platform which are available with cloud infra. In any of such cases kindly clarify the duration engagement for cloud infrastructure.	data in digital geo-enabled format along with Creation of secure (SSL Enabled) web portal on secure Cloud hosted web portal is in the scope of the bidder. Bidder is required to provide cloud (cloud hosting provider (CSP) which must be MEITY empaneled and should host the portal at Indian data Centers only). Cloud infrastructure must be provided and maintained for 2 years.
7	Clause 1.5, Pg. no. 7	Regarding the duration of the contract, here, there are multiple factors involved, such as drone flying permissions and DPR drawing inputs for the survey. Additionally, the location is within the city and involves dealings with various government lands. Therefore, please include a clause that allows for dynamic changes with support letters depending on inputs and permissions.	MMRCL will facilitate for obtaining requisite permissions.
8	Clause 2.3.9 a Pg. no. 12	Since resignation is beyond a consultant’s scope request to add that as an exception to replacement and hence amend the clause to read as under "a) Replacements of Key Personnel is not desirable and consultants shall refrain from doing so in any circumstances except death and medical incapacitation or resignation. If Key Personnel or replacements of equal or better qualifications are not deployed, it will be considered as non-deployment of key personnel and no payment shall be admissible.	RFP conditions prevail.
9	Clause 2.3.1 Pg. no. 13	We request you to consider the undertaking for license details submission at the time of Work order agreement.	RFP conditions prevail.
10	Clause 2.3.1 c Pg. no. 13	We kindly request considering the use of the MEITY Empaneled cloud host and a Made in India SaaS platform for drone data processing, ensuring compliance with your software requirements.	Only MEITY enabled CSP having data Centers in India is allowed. The bidder must provide cloud hosting details mentioning detailed cloud infrastructure (computer, ram, network, security, operating system, storage etc.) at

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			the time of GoLive and as and when required by the MMRCL.
11	Clause 2.3.3 Pg. no. 13	We would request you to confirm the following point: We assume this clause refers to a manufacturer authorization (MAF) by OEM to the consultant/bidder.	Bidder must provide Manufacturer Authorization (MAF) by the OEM
12	Clause 2.3.3 Pg. no. 13	The requirement for Make in India is as per DPPIT Ministry of Commerce GoI, guidelines and covers both class -1 and class - 2 manufacturer. If it pertains to any other understanding outside of above assumption, please clarify.	MMRC intends to procure all goods specifically, the basic GIS software being used for development by adopting the Make in India software. The GIS software meeting 100 % Make in India will be given higher preference over Class I and Class II manufacturer. Corresponding certification and supporting documents as per Government guideline including copyright (as applicable) should be provided by Bidder specifying the Indian Percentage component.
13	Clause 2.3.2, Pg. no. 14	We request you to amend the minimum qualification for Sr. Transportation Expert as Masters degree in Transportation /Geoinformatics or equivalent to be considered	RFP conditions prevail.
14	Clause 2.3.2, B.3 Pg. no. 14	Kindly elaborate on the users at MMRC who will be requiring access to the web portal. Specifically provide the following information: A) Total number of users?	Details will be provided during execution.
15	Clause 2.3.2, B.3 Pg. no. 14	B) What kind of rights/privileges to be given (e.g. viewing, editing, administrative etc.)?	Admins are expected to have all rights including user management. Subsequently, project user to have view and edit and other MMRCL office users to have only viewing. Details of no. of users would be provided during project execution.
16	Clause 2.4 A Pg. no. 15	To support MSME preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dt.23.03.012 issued by Ministry of Micro, Small and Medium Enterprises and its	RFP conditions prevail.

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		subsequent Orders/ Notifications issued by concerned Ministry. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder should be exempted from the requirement of "Bidder Turnover criteria" and "Experience criteria" subject to meeting of quality and technical specifications. Or please allow work orders of private companies where MSME has been subcontracted for the survey & GIS work.	
17	Clause 2.4 A Pg. no. 15	We request you to amend the criteria as mentioned below ‘Consultant should have completed at least one drone and topographic surveys for at least one metro rail project/Infra project/Urban project of more than 14KM length/7 Sq.km’	Refer Addendum-2 (Sr. No. 3) for details.
18	Clause 2.4 A Pg. no. 15	Request you to allow any railway Projects	RFP conditions prevail.
19	Clause 2.4 A Pg. no. 15	We have significant experience in Railway projects. Kindly consider allowing experience from a Rail project for participation in this bid.	RFP conditions prevail.
20	Clause 2.4 A Pg. no. 15	As a registered MSME/Start-up organization, we respectfully request a relaxation in the criteria stipulated. While we do possess the requisite platform and relevant work experience, it's important to note that we lack official work orders and experience certificates specifically involving the collection of data and creation of a Geo-enabled Map and Portal. Although we have experience in collecting data and creating a Geo-enabled Map, we do not possess documented work experience mentioning drone surveying, GIS, and Portal work. We genuinely appreciate your consideration of this request, as it would significantly support our participation in this opportunity.	RFP conditions prevail.
21	Clause 2.4 A Pg. no. 15	We request to kindly amend this clause as follows: "Consultant should have been awarded one similar drone and topographic surveys for at least one Metro rail project and have	Refer Addendum-2 (Sr. No. 3) for details.

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		Completed any Similar Metro/Railway project of more than 14 Km length	
22	Clause 2.4 A.b. Pg. no. 16	Both separately should be considered (Geo Enables Map and Portal different Work Orders)	RFP conditions prevail.
23	Clause 2.4 A.c Pg. no. 16	Any GIS Software should be considered.	RFP conditions prevail.
24	Clause 2.4 A.d Pg. no. 16	Request exemption from OEM having GIS Product development centre in India	RFP conditions prevail.
25	Clause 3.2- 2 Pg. no. 20	What are the deliverables expected in the topographic survey	Refer Addendum-2 (Sr. No. 4) for details. Refer Annexure-1 for the feature layers to be surveyed. The layers are indicative, all visible features shall be captured. The list is only indicative but not limited.
26	Clause 3.2- 3 Pg. no. 20	What are the deliverables expected in the Drone survey	Refer Addendum-2 (Sr. No. 5) for details. Refer Annexure-1 for all visible features to be captured from Drone survey. The list is only indicative but not limited.
27	Clause 4.2 Part 2 Pg. no. 22	Most of the Area of location is situated in the red zone near the Airport Area. If we approach it as a private entity, DGCA will not provide permissions, so we request MMRC for Permission. The survey agency will provide all the required documentation and certificates.	MMRC will help in coordination with various Govt. agencies.
28	Clause 4.2 Part 2 Pg. no. 22	As per the general norms, the forward overlap should be 80%, and side overlap could be 70% to achieve standard results.	Refer Addendum-2 (Sr. No. 6) for details. Image overlapping shall be 70% forward and 70% sideward.
29	Clause 4.2 Part 2 Pg. no. 22	Request you to provide accurate information, such as DGPS points for every 500 meters or RTK points for every 250 meters. Currently, the statement is open-ended. Please specify the numbers, as it will be useful for accurate budget planning. In general, for surveys considering 500 meters for one DGPS	The consultant shall ensure the desired accuracy from MMRCL while data collection.

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		point, the point count could be 34 Ground Control Points (GCPs) and 10 Checkpoints randomly spread.	
30	Clause 4.2 Part I Pg. no. 23	As per our understanding all the features which are clearly visible on the drone imagery at the mentioned GSD will need to be digitized to create the base map. All other spatial features which are not visible will need to be surveyed. Please confirm. If yes, kindly please specify the features to be surveyed as the mentioned clause is open-ended and will have heavy data collection and commercial implications. So, to quantify the survey work we need such information.	Refer Addendum-2 (Sr. No. 7) for details. Refer Annexure-1 for the feature layers to be surveyed. The layers are indicative, all visible features shall be captured. The list is only indicative but not limited.
31	Clause 4.2 Part II Pg. no. 22, 23	We assume that the department already have scanned soft copy Tikka sheet plan maps. Only incorporation and geo referencing using GIS software is within the scope of the consultant. Please confirm.	Tikka sheets / DP sheets are to be procured by the bidder from Authority.
32	Clause 4.2 Part II Pg. no. 22, 23	Kindly provide the exact running length of underground utility data available with the department in GIS ready format or soft copy format. This will help us to commercially assess the requirement of GPR survey and/or georeferencing of underground utility data.	Bidder to get data from Authority. MMRC will facilitate for the same. Bidder should recreate the data in GIS format/ appropriate wherever possible.
33	Clause 4.2 Part II Pg. no. 22, 23	We assume that the on-field tree counting activity will be done using mobile field application capturing the real time location along with photo and other details of the tree. Kindly elaborate on the number of users for the field data collection.	Bidder has to assess the total no. of users for the field data collection.
34	Clause 4.2 Part II Pg. no. 22, 23	What is the maximum depth to be considered for GPR Survey? As GPR technology has many technical limitations due to various factors what will be the acceptance level for this activity. How many trail pits expected in the project area to consider in the cost estimation	i. Depth to be identified for underground utilities, services, upto appx. 5m. ii. Additional data to be obtained by Govt. agencies. iii. No trial pits work is required for this assignment
35	Clause 4.2 Part II Pg. no. 23	Here, we need clarification: Can we easily obtain tree height using drone data? For other aspects such as tree type and diameter, a physical survey may be	RFP conditions prevail. Bidder has to undertake physical survey of the trees for requisite survey.

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		required, or Lidar might be the suitable solution. Please suggest.	
36	Clause 4.2 Part II Pg. no. 23	DGPS covered in the RGB and GPR survey may be helpful to obtain this data. We need more clarification: Is it applicable for the full 100-meter swath?	Yes
37	Clause 4.3 Part II Pg. no. 24	<ul style="list-style-type: none"> • Kindly specify the specific functionalities of the customized web portal. • As per our understanding all the collected data from topographic survey, DGPS survey, GPR survey and Drone survey are to be delivered to the department in standard GIS ready format with associated attribute information. Please confirm our understanding. 	<ul style="list-style-type: none"> • The GIS Web Portal is expected to have bare minimum functionalities of view, edit - legend display, query (spatial & non spatial), info, update the layer, user management, layer upload and download (to and fro in shape format) • Yes. The respective data is also expected to be provided in AutoCAD format, TIFF format as applicable.
38	Clause 2 Pg. no. 28	Since the project would be for 6 months request to reflect the same and to amend the clause as under " This Agreement shall remain in force for a period of 6 3 months and shall continue until all of the Services are completed; unless terminated earlier subject to the provisions of this Agreement.	Refer Addendum-2 (Sr. No. 8)
39	Clause 5.2.9.10 Pg. no. 34	We believe there is a typographical error as the Client wanted to give 60 days notice for termination due to convenience and the same is at clause g. Request to the amend the clause as under " The Client may by not less than thirty (30) days shall give the written notice of termination to the Consultants after the occurrence of any of the following events (except in the event listed in the paragraph (g) (f) below, for which there shall be a written notice of not less than sixty days). Such notices to be given after the occurrences of any of the events specified in the paragraphs (a) through (g).	RFP conditions prevail.
40	Clause 5.2.12.8 Pg. no. 37	Since the Client want the portal to be developed using proprietary software, request to consider having license to the	RFP conditions prevail.

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		same and hence amend the clause to read as under "All plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultants for the Client under this Contract shall become and remain the property of the Consultant and licensed to the Client for perpetuity with a non-transferable license, and the Consultants shall not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory thereof. The Consultants may retain a copy of such documents and software, Restrictions about the future use of these documents and software, if any shall be specified in the SCC	
41	Clause 5.2.9.3 Pg. no. 40	Since the duration of the project is for 6 months request to kindly amend the clause as under "The time period shall be 6 months from the effective date of contract"	Refer Addendum-2 (Sr. No. 9)
42	General Queries	Since there is a requirement of cloud enabled GIS, it is imperative that the technology provider should also be offering managed cloud service for GIS solution. This will ensure data security, SLA, Backup and uptime. Further, in order to have secured infrastructure only MEITY enabled CSP should also be allowed.	Only MEITY enabled CSP (Cloud Service Provider) having data Centers in India is allowed. The portal security and managed cloud services is in the scope of the bidder. The bidder must provide cloud hosting details mentioning detailed cloud infrastructure (computer, ram, network, security, operating system, storage etc.) at the time of GoLive and as and when required by the MMRCL.

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**Director (Planning & Real Estate/NFBR)
Mumbai Metro Rail Corporation Limited**

DISCLAIMER:

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All information provided as a part of this document to the prospective Bidding Entities by Mumbai Metro Rail Corporation Limited (MMRCL) is subject to the terms and conditions as laid down in the RFP and shall be laid down in the agreement of contract to be executed between Mumbai Metro Rail Corporation and the Applicant.

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