

MAHARASHTRA METRO RAIL CORPORATION LIMITED

CORRIGENDUM-I: Pre-Bid Queries reply

Date:27.02.2023

Name of Work: Topographical survey by Unmanned Arial Vehicle (UAV) and identification of underground utility services by Ground Penetration Radar (GPR).

Tender Notice No. N2-003-TOPO-01/2023

Sr. No.	Reference clause	Existing Clause as per RFP	Clarification Sought / Query	Maha-Metro Reply
1	Cl. No. 3.2 of Section-3 Eligibility Criteria (Pg. 75 & 76)	<p>*Similar Work: (a) Conducting topographical survey by "Unmanned Arial Vehicle (UAV) and (b) Ground Penetration Radar (GPR) survey for any department of the Gov- ernment of India/ Any State Government/ Statutory Bodies/PSUs/ Companies listed in BSE/NSE during the period of 5 years' (ending last day of the month previous to which the bids are invited i.e. last date of online bid submission).</p> <p>i. The Bidder must have received a minimum of Rs. 41.78 Lakhs from one work of *Similar nature covering both (a) and (b). Or ii. The Bidder must have received a minimum of INR 26.11 Lakhs each from two works of *Similar nature collectively covering both (a) and (b). Or iii. The Bidder must have received a minimum of INR 20.89 Lakhs each from three works of *Similar nature collectively covering both (a) and (b).</p>	<p>i) NO clarity about Joint venture /consortium formation. ii) Majority of the drone companies are startups and may not be able to fulfill the GPR order requirement. It is suggested and recommended that to enable competition and greater participation, consortium/ sub-contracting to be allowed and the condition of work order of both Drone and GPR to be waived and work orders of only drone survey or only GPR may also be accepted.</p>	<p>i. Please refer to Sr.No. 7 (i to vi) of corrigendum-I for JV/Consortium formation. ii. Not Agreed. Tender condition prevails.</p>



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2			No information is provided about DGCA authorising drones and Pilots. As per DGCA rules, for any commercial usage Drone has to be UIN registered and Pilot should be DGCA license holder with the experience number of flying hours completed. You may ask for supporting documents.	Clarifications:- i. Please refer to Sr No 5 under points of BoQ wide which all necessary permission from the statutory bodies for carrying out UAV Survey and GPR shall be taken by the contractor. ii. Further, it also to be noted that as per DGCA rules, being commercial usage, Drone has to be UIN registered and Pilot should be DGCA license holder with the required experience and completed flying hours. Supporting documents in respect of this shall be submitted by the bidder along with his / their submissions. Any financial liabilities on account of this is included in the respective item of BoQ. No extra shall be paid on this account
3		No information is given in the document about flying permissions.	Please provide clarification on Permission for flying Drone at given location as its comes under Red/ Yellow zone as per Digital sky platform	Clarification:- All required permissions from the statutory bodies shall be obtained by the contractor. However, MahaMetro shall issue the requisite letters for such permissions as per the request of the contractor
4	Cl.no. 6 Technical Specification of Section-5: Scope of Work (Pg.86)	The RD1500 is a complete Ground Penetrating Radar system, offering two modes for acquiring data: Line Scan and Grid Scan. Once the unit is assembled and powered-up, you can start conducting a GPR survey in less than a minute. Features of the RD1500 include. High visibility, touch screen display. Display depth slices from collected grids, right in the field, UWB Antenna producing high data quality, Frequencies which allows user to selectively view small, medium or large subsurface targets, Lightweight fiberglass cart frame, Built-in Wi-Fi capability, Integrated GPS receiver with optional external GPS for increased positional accuracy for geo-referencing data, Ability to mark surface flags and subsurface interpretations, Display your travelled path and targets in Map View, Seamless export of data to EKKO Project software for further data analysis.	Why is it mandatory to use a specific model of GPR equipment (RD1500) which is an outdated product. As per CVC guidelines the specifications are to be generic and therefore mandating of a specific make and model of a GPR is not understood. Request you to amend and allow the use of similar kinds of GPR equipment with same or advanced specifications.	Clarification:- GPR equipment shall be of proven quality with advance specifications. As such, there is no restriction on using equipment of particular model / make for GPR survey.



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5	Cl.no. 3.2 of Topographical Survey by using UAV of Section-5: Scope of Work (Pg.82-83)	The distance between the control stations shall be 2 km to achieve better accuracy. The observation time for each control station shall be 6-8 hrs. The observed data shall be post processed using the Magnet Tools software. The DGPS survey results shall be used for the detailed survey using the Total Station / UAV method.	<p>Why is it mandatory to use the magnet tools software only to process the data? As per CVC guidelines the specifications are to be generic and therefore mandating of a specific software to process the data is not understood.</p> <p>There are different DGPS equipment with their respective software which gives you similar data output.</p> <p>We request you to change this clause and do not restrict it to the particular make and model of the equipment.</p>	Clarification:- Contractor can use suitable software for processing of data which is compatible for GPS and Drone.
6	Cl. No. 3.2 of Section-3 Eligibility Criteria (Pg. 75 & 76)	The bidder will be qualified only if it has experience of executing *Similar Work as mentioned below: *Similar Work: (a) Conducting topographical survey by "Unmanned Aerial Vehicle (UAV) and (b) Ground Penetration Radar (GPR) survey for any department of the Government of India/ Any State Government/ Statutory Bodies/PSUs/ Companies listed in BSE/NSE during the period of 5 years' (ending last day of the month previous to which the bids are invited i.e. last date of online bid submission). 75 NMRP Phase-2 Tender No. N2-003-TOPO-01/2023 Section-3 Eligibility Criteria Contractor February-2023 Maha Metro i. The Bidder must have received a minimum of Rs. 41.78 Lakhs from one work of *Similar nature covering both (a) and (b). Or ii. The Bidder must have received a minimum of INR 26.11 Lakhs each from two works of *Similar nature collectively covering both (a) and (b). Or iii. The Bidder must have received a minimum of INR 20.89 Lakhs each from three works of *Similar nature collectively covering both (a) and (b).	Requesting the modification for minimum of Rs. 40 Lakhs from one work of *Similar nature covering both (a) and (b).	Not Agreed. Tender Condition prevails.



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7	ITB (4.1 & 4.2) of Section-2 Annexure-2A. Bid Data Sheet. (Pg. 32)	In the case of a joint venture, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. & (JV/Consortiums are not allowed to participate in this bid)	Confusion in the Joint venture norms. Requesting clarification in the same.	Replaced as under i. JV/Consortium of maximum 2 (two) members are allowed to participate in this tender. ii. All the eligibility criteria shall be met collectively by JV/Consortium members. iii. Lead Member' shall have at least 51% participation in JV/Consortium whereas Other Member shall have at least 20% participation in JV/Consortium. iv. All the JV/Consortium related references in the bid document shall be applicable. v. In the case of a joint venture/ Consortium, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. vi. The lead member shall have experience of carrying out UAV survey as a main work. However, the other JV partner shall have carried out the GPR work of minimum 40% of estimated value mention in bid document.
8	Cl.no. 21 of Section-2: ITB (Pg.21)	21.1 The Bidder shall enclose the original and one set of all copies of the bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL", "ALTERNATIVE" and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope.	Please confirm whether the bid document need to be submitted in hard copy too.	Refer to cl.no. ITB 21.4.1 (Additional Para) of Section-2 Annexure-2A. Bid Data Sheet. (Bid document is not required to be submitted in hard copy)



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9	Cl. No. 3.2 of Section-3 Eligibility Criteria (Pg. 75 & 76)	<p>*Similar Work: (a) Conducting topographical survey by "Unmanned Arial Vehicle (UAV) and (b) Ground Penetration Radar (GPR) survey for any department of the Gov- ernment of India/ Any State Government/ Statutory Bodies/PSUs/ Companies listed in BSE/NSE during the period of 5 years' (ending last day of the month previous to which the bids are invited i.e. last date of online bid submission).</p> <p>i. The Bidder must have received a minimum of Rs. 41.78 Lakhs from one work of *Similar nature covering both (a) and (b). Or</p> <p>ii. The Bidder must have received a minimum of INR 26.11 Lakhs each from two works of *Similar nature collectively covering both (a) and (b). Or</p> <p>iii. The Bidder must have received a minimum of INR 20.89 Lakhs each from three works of *Similar nature collectively covering both (a) and (b).</p>	Please confirm whether the work order having scope of both UAV & GPR collectively will only be considered for evaluation Or a separate work order for each UAV & GPR can be considerable.	It is clarified that, a separate work order for each UAV & GPR can be considered as per provision set forth in the bid document.

