

Corrigendum – I
(including Answers to Pre-bid Queries)

for
Request for Proposal for Selection of Survey
Agency for creation of 3D Model of Vadodara City.
(2nd Attempt)

Tender Number: VSCDL/15/2019-20



Issued By:

The CEO
Vadodara Smart City Development Limited
(VSCDL)

Corrigendum I for Request for Proposal for Selection of Survey Agency for creation of 3D model of Vadodara City (2nd Attempt)

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1 Corrigendum

The Bidders are requested to take note of the following changes made in the RFP documents, which are to be taken in to account while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly.

- This Corrigendum shall be the part of the RFP documents.
- All items specified in this Corrigendum supersede relevant items to that effect as provided in the original RFP documents. All other specifications, terms and conditions of the original RFP document shall remain unchanged.
- Clarifications and replies to the all queries received from prospective bidders are drafted and attached separately.
- The explanation to the pre-bid queries and clause changes of the RFP document are as well mentioned in the Corrigendum document. The changes are marked in bold fonts in the document.
- Please refer VMC Website and n-procure site for any further communication/corrigendum related to this RFP.

1.1 Answer to Pre-Bid Queries

Sr No.	RFP Document Clause/ Section No.	Clause Title	Content of the RFP Requiring Clarification	VSCDL Response
1	Section 3.1	Scope of Work: Executive Summary	The overall scope under this project for the survey agency is to do survey of the specified municipal area and generate 3-D model of the city with geo-tagging of important landmarks of the city which includes but not limited to un-manned aerial survey of the area, post processing, point cloud generation through the software and final deliverables to be submitted to VMC as mentioned in RFP document.	All the landmarks falling in the Area of Interest are to be mapped. Bidder is responsible for estimating the landmarks.
2	Section 3.2	Scope of Work: 3D Survey Methodology	The bidder must avoid flying from the areas which are restricted areas / military camps / cantonments / airports etc. Such areas should be strictly avoided and in the case of violation of the condition, VSCDL assumes no responsibility for whatsoever action would be followed by violation.	The bidder is responsible for getting the appropriate clearances. If need arises, VMC / VSCDL will assist in getting the clearances.

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Sr No.	RFP Document Clause/ Section No.	Clause Title	Content of the RFP Requiring Clarification	VSCDL Response
3	Section 3.2	Scope of Work: 3D Survey Methodology Ground Control Points	The Ground Control Points (GCPs) should be located at the desired locations and should be clearly visible. Sketch, coordinate both in latitude, longitude and Easting, Northing of GCP's including GPS observation and adjustment data should be provided to VMC for necessary approval.	VSCDL will provide GCPs from the repository. However, the bidder will be responsible for collecting new GCP's every 2kmts to strengthen the model. The bidder will have to use the combined GCPs for project work. The bidder will be responsible in identifying the location of GCPs. Any Govt. Buildings / Roads intersections are considered as desired locations.
4	Section 3.3.3	Scope of Work: Analysis tools	The bidder should provide plug-ins and tools that allow VSCDL to conduct micro studies for the following: * Identification of new construction / encroachment in the Area of Interest. * Identification of green-field area. * Identification of over-ground utilities. * Identification of tourist spots.	The bidder is expected to provide cloud based access, where in the 3D model will be visible. The developed plugin should be visible on the console where the 3D model is presented. The identification of green-field area, over-ground utilities, and tourist spots will required 2D feature extraction for the given Area of interest.
5	Section 3.4	Scope of Work: Survey Deliverables	CAD Map	The details captured during the survey process needs to be available on CAD map.
8	Section 3.4	Scope of Work: Survey Deliverables	4. Model Outputs. * 3 year access to cloud based application/dashboard for viewing and analysis of surveyed area.	The bidder is expected to provide cloud based application.

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Sr No.	RFP Document Clause/ Section No.	Clause Title	Content of the RFP Requiring Clarification	VSCDL Response
10	Section 2.1.1	Pre-Qualification criteria, Point No. 8	<p>Bidder (any consortium member, in case of consortium) should have undertaken and completed at least One (1) project / pilot project implementation of Similar Work* worth Rs. 50 Lakhs (25 lakhs in case of MSE / start-ups) or at least two (2) projects / pilot projects worth 30 Lakhs (15 lakhs in case of MSE / start-ups) or three (3) projects / pilot projects worth 25 Lakhs (12 lakhs in case of MSE / start-ups) in previous three years having undertaken and completed successfully for any Govt. / Semi Govt. / Private organization.</p> <p>*Similar work means unmanned aerial vehicle mapping of the project area and submitting the processed 3D model.</p>	Please refer Revised PQ criteria in Annexure II.
11	Section 3.3.3	Scope of Work: Analysis tools	<p>The bidder should provide plug-ins and tools that allow VSCDL to conduct micro studies for the following:</p> <ul style="list-style-type: none"> * Identification of new construction / encroachment in the Area of Interest. * Identification of green-field area. * Identification of over-ground utilities. * Identification of tourist spots. 	<p>1. The bidder will be allotted the area to be surveyed in which, if any new / under-development area is cited, the same will be categorized as Green-field area.</p> <p>2. The over-ground utilities like Electrical, Gas, Water, Sewer pipeline, which, can be captured through aerial inspection should be visible on 3D model.</p> <p>3. The information pertaining to the tourist spots is available in public domain. The bidder is expected to capture the tourist spots.</p>
16	Clause 2.1.1 (point 3)	Pre-Qualification criteria	The Bidder (all bidders, in the case of consortium) should have positive net worth and a profit making company, as on March 31, 2019	Please refer Revised PQ criteria in Annexure

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Sr No.	RFP Document Clause/ Section No.	Clause Title	Content of the RFP Requiring Clarification	VSCDL Response
18	Clause 3.6 (point 3)	Scope of Work: Technically Skilled Manpower	Drone Operator (02 Nos) 2. 2+ Years of Experience in conducting 3D survey	Please refer Revised Manpower requirement in Annexure II
19	Clause 3.6 (point 4)	Scope of Work: Technically Skilled Manpower	Survey Assistant 3. Minimum two(2) year of relevant experience	Please refer Revised Manpower requirement in Annexure II
20	Section 2.1.1.	Pre-Qualification Criteria	The bidder (all bidders, in the case of consortium) must be either a company registered under the Indian Companies Act 1956 (& subsequent relevant amendments) OR Partnership firm registered under Limited Liability Partnerships (registered under LLP Act, 2008) OR Partnership firm registered under Indian Partnership Act, 1932 The firm should be operational at least for last 3 years as on date of publishing of RFP. The applicants must have a valid Registration certificate. Any name change of the company must also have a valid name change registration certificate.	Please refer Revised PQ criteria in Annexure I
22	2.1.1	Pre-Qualification criteria	The firm should be operational at least for last 3 years as on date of publishing of RFP.	Please refer Revised PQ criteria in Annexure I
23	2.1.1	Pre-Qualification criteria	The Bidder (all bidders, in the case of consortium) should have positive net worth and a profit making company, as on March 31, 2018	Please refer Revised PQ criteria in Annexure I

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Sr No.	RFP Document Clause/ Section No.	Clause Title	Content of the RFP Requiring Clarification	VSCDL Response
24	2.1.1	Pre-Qualification criteria	Bidder (any consortium member, in case of consortium) should have undertaken and completed at least One (1) project / pilot project implementation of Similar Work* worth Rs. 50 Lakhs (25 lakhs in case of MSE / start-ups) or at least two (2) projects / pilot projects worth 30 Lakhs (15 lakhs in case of MSE / start-ups) or three (3) projects / pilot projects worth 25 Lakhs (12 lakhs in case of MSE / start-ups) in previous three years having undertaken and completed successfully for any Govt. / Semi Govt. / Private organization. *Similar work means unmanned aerial vehicle mapping of the project area and submitting the processed 3D model.	Please refer Revised PQ criteria in Annexure I
27	3.4	Scope of Work: Survey Deliverables	Highly accurate 3D Model of the City – Accuracy 5 cms level.	Highly accurate 3D Model of the City – resolution 5cm per pixel.
28	3	Scope of Work	Mapping accuracy : The minimum accepted accuracy is <=5 cm.	Mapping resolution accuracy: The minimum accepted resolution is <=5 cm per pixel.

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1.2 Corrigendum

#	Original Clause	Revised Clause
1.	Section 2.2.1 : Pre-Qualification criteria	Please refer revised PQ criteria in Annexure I below.
2.	Clause 3.6 (point 3) : Scope of Work: Technically Skilled Manpower	Please refer revised manpower requirement in Annexure II below

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Annexure – I: Revised Pre-Qualification Criteria

The firm must possess the requisite experience, strength and capabilities in providing services. Keeping in view the complexity and volume of the work involved, following criteria are prescribed as the eligibility criteria for the bidder interested in undertaking the project. The bidder must also possess technical know-how and financial ability that would be required to successfully provide services sought by VSCDL for the entire project duration. The bids must be complete in all respect and should cover entire scope of work as stipulated in the bid document. This invitation to bid is open to all bidders who qualify the eligibility criteria as given below:

#	Eligibility Criteria for Organizations	Document Proof
3.	<p>The bidder (all bidders, in the case of consortium) must be either a company registered under the Indian Companies Act 1956 (& subsequent relevant amendments) OR Partnership firm registered under Limited Liability Partnerships (registered under LLP Act, 2008) OR Partnership firm registered under Indian Partnership Act, 1932 The firm should be operational at least for last 1.5 years as on date of publishing of RFP. <i>The applicants must have a valid Registration certificate. Any name change of the company must also have a valid name change registration certificate.</i></p> <p><i>Consortium to be restricted to max. 2 firm (including the lead bidder).</i></p>	<ul style="list-style-type: none">• Certificate of incorporation / Partnership deed.• Certificate of commencement of business (if applicable)
4.	<p>The Bidder (<i>all bidders, in the case of consortium</i>) should have Valid PAN Card and GST Registration Certificate.</p>	<p>Copy of PAN Card and valid GST registration.</p>
5.	<p>The Bidder (all bidders, in the case of consortium) should have positive net worth, as on March 31, 2018</p>	<ul style="list-style-type: none">• Certificate from the statutory auditor/CA clearly specifying the net worth of the firm• Audited Profit & Loss Statement of relevant FYs.
6.	<p>The bidder (any consortium members, in case of consortium) should have an average turnover of 40 Lakhs (20 Lakhs in case of MSE / start-ups) in the last three financial years ending March 31, 2018.</p>	<p>Audited Balance Sheet of relevant FYs clearly highlighting the turnover of the organization/s.</p>

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#	Eligibility Criteria for Organizations	Document Proof
7.	As on date of submission of the proposal, the bidder (all bidders, in case of consortium) should not be blacklisted by Central / State Governments in India.	Undertaking by the authorized signatory as per format
8.	As on date of submission of the proposal, the bidder (all bidders, in case of consortium) should not be terminated or withdrawn from any of the project awarded to him.	Undertaking by the authorized signatory as per format
9.	As on date of submission of the proposal, the Bidder (all bidders, in case of consortium) should not be Insolvent or In Receivership or Bankrupt	Undertaking by the authorized signatory as per format
10.	<p>Bidder (any consortium member, in case of consortium) should have undertaken and completed at least One (1) project / pilot project implementation of Similar Work* worth Rs. 40 Lakhs (20 lakhs in case of MSE / start-ups) or at least two (2) projects / pilot projects worth 25 Lakhs (12 lakhs in case of MSE / start-ups) or three (3) projects / pilot projects worth 20 Lakhs (10 lakhs in case of MSE / start-ups) in previous three years having undertaken and completed successfully for any Govt. / Semi Govt. / Private organization.</p> <p>*Similar work means unmanned aerial vehicle mapping of the project area and submitting the processed 3D model.</p>	<p>Copy of Work order/Agreements with client completion certificate</p> <p align="center">OR</p> <p>Multiple work orders from one single client/firm/agency in last three financial years (2015-16, 2016-17, 2017-18) with a proof of payment realized clearly indicating payment realised the work order</p>
11.	The bidder (any consortium member, in case of consortium) should have at least 05 permanent resources working for UAV surveys and subsequent image processing to generate 3D model.	<ul style="list-style-type: none"> • Certificate from the Auditor / Company Secretary/ Head HR

Annexure – II: Revised requirement for Technically Skilled Manpower

The bidder is required to provide technically skilled manpower in adequate numbers for the implementation of projects keeping in mind requirements of the RFP. The Indicative profiles requirements for some of the roles are given in the following section. The proposed resources for implementation and support phase will be stationed at VMC headquarters, Vadodara as per project requirement.

Minimum Qualifications & Experience for key Resources

The following are minimum qualifications and experience for key resources required to implement the project.

Survey Team

Sr. No.	Role	Min. Qualification & Experience
1.	Project Manager	<ul style="list-style-type: none">• Graduate in Engineering• 5+ Years of Experience in managing 3D modeling projects
2.	Survey team Lead	<ul style="list-style-type: none">• Graduate in Engineering /Geo-informatics• 5+ Years of Experience as a leading 3D survey mapping teams• Experience in GIS and associated technologies• Should have hands on experience of using proposed device and technology and 3D modeling techniques.
3.	Drone Operator (02 Nos)	<ul style="list-style-type: none">• Any Graduate/ Diploma/ ITI• 1.5+ Years of Experience in conducting 3D survey• Should have hands on experience of using proposed device and technology and 3D modeling techniques.
4.	Survey Assistant	<ul style="list-style-type: none">• Any Graduate/ Diploma/ ITI• Knowledge of 3D Surveying techniques• Minimum One and half (1.5) year of relevant experience.• Should have hands on experience on proposed surveying tools & techniques