

# Smart City Ahmedabad Development Limited (SCADL)

## Corrigendum – I

Notice Inviting Expression of interest  
for “Selection of Agency for the establishment of  
AI Cell”



### **Invited By:**

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## **Corrigendum**

The Bidders are requested to take note of the following changes made in the EOI document, which are to be considered while submitting the EOI response. They shall be presumed to have done so and submitted the EOI response accordingly.

- All items specified in this Corrigendum supersede relevant items to that effect as provided in the original EOI documents. All other specifications, terms and conditions of the original EOI document shall remain unchanged.
- Text with strikethrough means it is deleted.
- All items specified in **“Revised Clause”** section of this Corrigendum supersede relevant items (if any) specified in **“Response to Pre-Bid Queries”** section of this Corrigendum in case of any mismatch of details.

## **Response to Pre-Bid Queries:**

Sr.No	EOI Document Clause/ Section No.	Content of the EOI Requiring Clarification	Clarification Sought	Response /Revised Clause
1	7. Eligible Agencies Page No. 14	Agency should deploy minimum 4 manpower with qualifications as mentioned at AMC/SCADL: (a) B.E/ B.Tech (CSE/IT)/ MCA (b) Any degree/ relevant course on Data Analytics/ ML /DL technologies (c ) Minimum 4+ years’ experience in Programming languages such as Java/ Python/ R (d) Minimum 4+ years’ experience in working either on development of AI based product/ working on AI based projects	As Machine Learning, Data Learning & Analytics are part of curriculum of CS & IT Engineering and MCA, We understand that any degree holder of these streams will be eligible for the said requirement. Please confirm.	This clause of EOI remains unchanged.
2	7. Eligible Agencies Page No. 14	Agency should deploy minimum 4 manpower with qualifications as mentioned at AMC/SCADL:	As per RFP scope, we understand that, data operators will be deployed by SCADL for manual data collection. Please confirm.	AI cell will coordinate with department wise assigned SPOC and perform data collection.

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3	3.2.1 Page No. 6	Each of line departments listed below deals with abundant data stored and utilized in multiple formats. Each department deals with specific concerns of citizens, hence requiring collecting various aspects of data.	Kindly share the multiple formats in which the data is stored and also let us know if there is any manual enteries required to be done by the bidder.	<p>The data stored and utilized by departments can vary depending on their specific functions and needs. There are multiple line departments as mentioned in the EOI dealing and storing wide array of data. We expect AI cell to coordinate with the departmental SPOC to understand the type of data. For example, the clause 3.3.1 deals with type of datasets Smart City Ahmedabad has from various projects. This data is either stored in of xls, docx, dashboard, png, pdf formats etc.</p> <p>The AI cell is expected to understand and create a data lake of various available datasets across all AMC line departments as mentioned in EOI, but is not expected to do any kind of manual entry when it comes to creating existing datasets. File likes JPG and scanned PDF may have to converted in to textual file to utilize data correlation.</p>
4	5.1 Existing data sets and Existing Issues Page No. 11	All datasets available with AMC and SCADL post data collection, cleaning and structuring into one format are to be brought to one common platform to form a data lake.	We understand that this being an automated process, there is no requirement of data to be processed manually by the bidder. Please confirm, if our understanding is correct.	The process of bringing all datasets to one common platform to form a data lake is indeed automated and it is in bidder's scope. There is no requirement for manual processing of data by the bidder. The objective is to streamline the consolidation process efficiently and effectively, utilizing automated mechanisms for data integration,

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				cleaning, structuring and comparing/corelating.
5	5.1 Existing data sets and Existing Issues Page No. 11	All datasets available with AMC and SCADL post data collection, cleaning and structuring into one format are to be brought to one common platform to form a data lake.	Kindly share the tentative volume for existing data available at various Govt. Departments which needs to be integrated and also please share the volume for data migration, if any? And when can we do site visit if required.	Data volume cannot be specified objectively, because data would be there in multiple places like AMC's own data center, employee's laptop's/desktops. AI cell is expected to understand the functions, challenges and data sets available with line departments to offer technological solutions to some of the existing problems out of total problems.  Also Please refer to Sr. No. 3. One can also visit <a href="http://www.ahmedabadcity.gov.in">www.ahmedabadcity.gov.in</a> to understand the type of works carried out under each line department.
6	5.2 New Use cases – Proactive Approach, Overall, here is what AMC/SCADL has envisioned to achieve through this project: Page No. 12	(i) Data gathering from various AMC line departments and Smart City Ahmedabad	We understand that this being an automated process, there is no requirement of data to be processed manually by the bidder. Please confirm, if our understanding is correct.	Please refer Sr.No.4

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7	5.2 New Use cases – Proactive Approach, Overall, here is what AMC/SCADL has envisioned to achieve through this project: Page No. 12	(ix) All members of AI cell along with stakeholders from AMC side will meet fortnightly to discuss the ongoing activities undertaken by AI cell and progress achieved.	As the departments are owners of their respective databases, the seeding should be approved by the concerned departments. Please confirm that the departments will prepare their own workflows and processes for managing such internal approvals.	AI cell is expected to coordinate with the department wise SPOC for gathering, understanding of all available datasets with the department. While the responsibility of collecting the data lies on AI cell, the responsibility for internal approvals lies with the department wise SPOC.
8	5.2 New Use cases – Proactive Approach, Overall, here is what AMC/SCADL has envisioned to achieve through this project: Page No. 12	Generic	Kindly let us know, the new reports of AI cell needs to be generated in which format. is the existing data in open format or closed format? We understand that the bidder's recommended Infrastructure will be arranged by SCADL without any cost implications to vendor. Please confirm our understanding is correct.	<p>The AI cell is expected to collect, study, understand bring together all the available datasets across all the line departments of the AMC. AI cell is required to come up with solutions, findings, insights and pathways on data navigation and utilization along with rest of scope of work mentioned in the EOI. The formats may be finalized by SCADL at a later stage.</p> <p>The infrastructure that is to be provided from SCADL's end and expectations from bidder will be decided by SCADL later at RFP stage.</p>
9	8. Concept Note Page No. 15	<p>8.1 Implementation Model</p> <p>The agency is required to provide an Implementation model including deliverables, timeline, phases of operation, tangible deliverables. SCADL is also open to any other suggestions in scope of work defined.</p>	Can we share the use cases on on-going projects which are phase-wise or under-development	SCADL is open to going through any bidder's on-going/past implemented use cases. However, SCADL does not promise/ commit to any inclusion of those use cases in any of it's documents such as upcoming EOI's/RFP/Bidder scope of work etc.

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10	8. Concept Note Page No. 16	8.4 Past experience in similar projects	Can we share the experience of on-going projects which are phase-wise or under-development	The bidder is expected to share the details and brief description of the scope of work and technologies used for similar projects as part of their experience.
11	Clause 1 Notice for Inviting Expression of Interest	Last date to send in Queries related to EOI – 21/03/2024	We request the Authority to consider allowance of submission of pre bid queries till 29th April 2024.	last date for submission of Application has been extended to 25 <sup>th</sup> April 2024
12	Clause 1 Notice for Inviting Expression of Interest	Online Proposal Due Date 04/04/2024	The scope of services charted out are very specific and unique in nature. In order to develop a well-rounded and comprehensive proposal, we would request the Authority to extend the bid submission date by at least 14 working days till 18th April 2024.	last date for submission of Application has been extended to 25 <sup>th</sup> April 2024
13	Clause 5.1 Existing data sets and Existing Issues	AI cell to perform data collection.	It has been seen that data collection can become challenging in projects where sole responsibility of data collection is with consultants. Other departments typically respond well to official orders and communication channels. Hence, we request the Authority to reconsider the responsibility or at least support the Consultant in data collection by	All required support in terms of issuing office order etc. will be provided by AMC.

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			appointing nodal SPOCs and issuing formal orders/ letters, wherever necessary.	
14	Clause 5.1 Existing data sets and Existing Issues	AI cell created will also coordinate with department wise assigned SPOC, to understand the key issues faced by the department. These issues will cover department wise problems and also problems faced from citizen's perspective	We request the Authority to clarify whether these challenges to be identified are from data gathering perspective or general challenges in day to day working? Further, we assume that no citizen interaction is part of scope. Kindly clarify the same.	AI cell is required to understand all the functional challenges as well as challenges faced during operational work by the departments , so that suggestions/a way ahead to navigate such challenges by utilizing the existing data can be proposed by AI cell to SCADL/AMC. Yes, Citizen interaction is not a part of scope as per this EOI but whatever challenges faced by citizens that are known to department through channels of grievances or feedback will have to be considered by AI cell for solution offering (if Any).
15	Clause 5.1 Existing data sets and Existing Issues	AI cell is also expected to suggest ways & means to automate regular operational tasks of various departments. AI cell will have to study existing processes of various departments through methods like primary research, questionnaire, group discussion etc. to find out the areas where technology introduction can be planned to achieve automation that will bring efficiency, accuracy & faster turnaround time.	This scope is structured around Business Process reengineering. We would request the Authority to clarify the quantum of this exercise/ task in context of overall scope of work.  Ideally this is a standalone project coupled with digital transformation and	Without understanding all line departments functional work, process and challenges, AI cell will not be able to provide any technological solutions. Therefore it is advisable to keep the activity like BPR etc. under AI cell only .

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			shouldn't be included in the existing scope.	
16	Clause 7 Eligibility Criteria	Agency should have experience of either developing any AI technology-based product/ working on AI projects utilizing Machine learning or deep learning algorithms in last 2 years.	We request the Authority to consider experience of working with government organizations such as ULBs/ Development Authorities and other govt. organizations along with project credentials in urban planning, development and management as part of eligibility requirements.	No change
17	Clause 7 Eligibility Criteria	Agency should have a minimum annual turnover of Rs. 50 lakhs from IT / ITES in each of the last three (3) financial years i.e. FY 2020-21, 2021- 22 and 2022-23.	AI and urban planning are two niche domains with rapid developments. We request the Authority to increase the turnover requirement to 500 cr. to ensure participation from credible agencies who have been delivering similar scope in market consistently.	No change



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18	Clause 7 Eligibility Criteria	Agency should deploy minimum 4 manpower with qualifications as mentioned at	The scope includes understanding of urban planning landscape and its data analysis. Hence, we request the Authority to include the professionals hailing from urban planning, urban design, urban management, architecture, civil engineering and other relevant backgrounds who would have additional understanding of technology enablement in govt. and public sector.	No change
19	Clause 7 Eligibility	Agency should have experience of either developing any AI technology-based product/ working on AI projects utilizing Machine learning or deep learning algorithms in last 2 years.	Agencies involved in running think tanks/ Center of Excellence in AI/ ML should also be considered since the scope involves avenues of research and application.	No change
20	Clause 8 Concept note	The agency is expected to give solution/proposal for at least one of the use cases mentioned below:	We request the Authority to include the following use case as well – • AI based system for building plan approval and building regulations.	No change

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21	Other questions	<p>1. is building prototypes in scope? if yes, then is it treated as poc or deployable pilots</p> <p>2. does the team composition also include domain experts and consultants along with engineers?</p> <p>3. where is the data lake envisaged to be hosted - on cloud or on prem?</p> <p>4. what is the status of data lake initiative. is it part of a separate tender?</p> <p>5. for solution approach - is open ai based acceptable or should it be on privately hosted open-source llms?</p> <p>6. for on-prem models is the infra with gpu facility and costing factored in?</p> <p>7. for cloud, is the hyper scaler partner identified?</p>		<p>1. Creating AI/ML models is part of scope of AI cell and will be treated as deliverables.</p> <p>2. The team composition is envisioned to be as per Clause 7, Point No.7 of EOI.</p> <p>3. Please refer to Sr.23.</p> <p>6. Currently, no GPU is available with SCADL.</p> <p>7. No</p>
22	General	-	We request you to please confirm about the Size of the data to be considered.	Please refer to Sr.No.3 and Sr.No 5
23	General	-	We request you to please confirm whether application to be hosted on Premises or Cloud.	This will be decided later on. Anyways bidders are not expected to provide any financial charges details of each and every component of AI cell in their proposal, but bidders are expected to provide details like what all elements would be required to form and operationalize AI cell in their proposed project model or financial model included in their proposal. For example, any application for data analytics, any application required for creating data lake, human resources like data analyst, business analyst etc, any specific hardware requirement to run required application or product etc.
24	General	-	We request you to please confirm how many No. of	SCADL will finalize this in RFP.

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			Dashboards and Reports required to develop?	
25	General	-	We request you to please confirm how many Advanced Analytics(AI/ML) Use Cases are required to develop/expecting?	AI cell is expected to cover their scope of work in two categories mentioned as per Scope of work (i) Existing datasets - Solving challenges with existing datasets where it is difficult to define exact number of use cases. (ii) New Use cases - Few examples are mentioned in the EOI, Final use cases will be defined in RFP.
26	General	-	We request you to please confirm total No. of Users and Concurrent Users?	Query not Clear
27	General	-	We request you to please confirm, can we propose Open Source Technologies	SCADL is open to receive any of bidder's suggestions.
28	Page No. 12 Section: 5.2 New Use cases – Proactive Approach	-	We request you to please add the below clause for enhancing the scope.  Prescriptive analytics in city planning by leveraging data and AI/ML and recommend optimal decisions	Already covered as part of Scope of work. All bidder should consider this as part of scope.
29	7.5	Blacklisted Declaration	Would it be ok to submit it on letter head instead of stamp paper?	No change
30	6	issue a Request for Proposal (RFP) for selection of interested “Bidders” for execution of the Project.	Would you be only considering the vendors selected during EOI process to bid for RFP or it will be open for all?	It is open for all

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31	Section 5, Page no. 11	Scope of work	Does this AI Cell will be a physical cell having its presence in Ahmedabad? If yes, what will be the duration for it?	The bidder is expected to suggest the timelines, phases of operation etc. along with rest of documents in their respective Concept note as mentioned in section 8 of the EOI.
32	Section 8.3, Point no. 5, Page no. 15	Using AI How can Gujarat Cities become positive energy city by 2030 ?	What do you mean by Gujarat Cities become positive energy city by 2030? Does it mean energy surplus or does it mean green energy (energy generated by solar/ wind, etc)	Positive energy state means energy surplus state. Prescriptive analysis of data may suggest various option including green energy to become energy positive city by 2030.
33	Section 5.1, Point no. 2, Page no. 11	All datasets available with AMC and SCADL post data collection, cleaning and structuring into one format are to be brought to one common platform to form a data lake. .	Is there an existing data lake for AMC departments?	All the data would be there in multiple places like AMC's own data center, employee's laptop's/desktops. There is no data lake available with AMC with structured, cleaned and formatted data.
34	Section 5.1, Point no. 2, Page no. 11	All datasets available with AMC and SCADL post data collection, cleaning and structuring into one format are to be brought to one common platform to form a data lake. .	Are AMC systems predominantly on cloud or on prem?	Please refer to Sr.No .33
35	Section 5.2, Point no. 3, Page no. 12	AI cell is also expected to suggest avenues of data monetization for economic sustainability of Smart City Ahmedabad	Data monetisation: is there a prohibition on anonymisation, encryption, and sale of AMC data to regulated buyers?	Data Policy norms are still being worked out. Thus, it will be given to the selected bidder at a later time.
36	Section 5, Page no. 11	Scope of work	Are there any IT or smart city master plans/conceptual master plans for AMC/SCADL that can be shared?	This can be shared to selected bidder once onboarded.

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37	Pg 15, Pg 9	Concept Note and Data Sets Available	<p>List of data schema/data headers that can be provided from the line departments.</p> <p>What could be potential data format types, we are assuming images, video, textual etc. representation would be there. Can we get sample data of all such types?</p> <p>Is there a sandbox environment available to play-around the data?</p>	<p>Please refer answer provided in Sr. No. 3 for the data format types.</p> <p>Isolated environment will be provided on AMC data center if successful bidder wants to install and use any data analytics product or any other application to fulfil SOW of this EOI.</p>
38	General	General	Is AMC looking for on-premises or cloud based or hybrid kind of solution ?	Please refer to Sr.No. 23
39	7. Eligible Agencies	3. Agency should have experience of either developing any AI technology-based product / working on AI projects utilizing Machine learning or deep learning algorithms in last 2 years.	<p>We request you to amend the clause as below:</p> <p>3. Agency should have experience of either developing any AI technology-based product / <b>working on Projects involving AI based applications</b> / working on AI projects utilizing Machine learning or deep learning algorithms in last <del>2</del><b>5</b> years.</p>	No change in Clause.

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40	5.1 Existing data sets and Existing Issues, Page 11 of 26	With help of existing datasets, AI cell is expected to establish data correlation among datasets and propose ideas/ solutions/ suggestions on how to resolve various issues that are identified department wise as per above mentioned point..	What would be the approximate historical data size of AMC ?	Please refer to Sr.No. 3 and Sr.No. 5
41	5.2 New Use cases – Proactive Approach, Page 11 of 26	AMC has huge data sets, sourcing from various line departments. AMC departments deal with this data on daily basis. AI Cell to study these data sets and is expected to propose new ideas/ suggestions which are beneficial to the city and it's citizens.	What would be the rate of growth of these datas ?	Please refer to Sr.No. 3 and Sr.No. 5
42	5.2 New Use cases – Proactive Approach, Page 12 of 26	(ii) AI engine for Analyzing unstructured data, Data Structuring, cleaning, and bringing all datasets in one single place / data lake for data correlation	What are the different type of data like structured , unstructured , binary , audio , visual etc. ?	Please refer to Sr.No. 3 and Sr.No. 5
43	5.1 Existing data sets and Existing Issues, Page 11 of 26	With help of existing datasets, AI cell is expected to establish data correlation among datasets and propose ideas/ solutions/ suggestions on how to resolve various issues that are identified department wise as per above mentioned point	What are the type of data store in which these data are stored currently ?	Please refer to Sr.No. 3 and Sr.No. 5
44	5.1 Existing data sets and Existing Issues, Page 11 of 26	Proposals/Usecases/Ideas on solving existing departmental issued with existing datasets.	How are these data stores exposing the data to external resources ?	Push or Pull API mechanism is presently used to share/collect data to/from external applications.
45	5.2 New Use cases – Proactive Approach, Page 12 of 26	(i) AMC has huge data sets, sourcing from various line departments. AMC departments deal with this data on daily basis. AI Cell to study these data sets and is expected to propose new ideas/suggestions which are beneficial to the city and it's citizens. These new ideas will help AMC to improve efficiency & accuracy in business processes, operational processes & citizen centric services.	Business process optimization will require discussion with different line of business and understanding their pain points. Any business process optimization will require changes in existing solution also. who would be responsible for required changes in different business line of AMC ?	AI cell is expected to coordinate with department wise assigned SPOC to understand functions, challenges and data sets available with line departments to offer technological solutions to some of the existing problems out of total problems. AI cell is expected to provide insights/reports/ pathways to navigate through these challenges. Post AI cell proposing any changes in existing business processes to mitigate the challenges, the

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				responsibility for change management lies with the AMC/SCADL.
46	5.2 New Use cases – Proactive Approach, Page 12 of 26	(i) AMC has huge data sets, sourcing from various line departments. AMC departments deal with this data on daily basis. AI Cell to study these data sets and is expected to propose new ideas/suggestions which are beneficial to the city and it's citizens. These new ideas will help AMC to improve efficiency & accuracy in business processes, operational processes & citizen centric services.	Will any new data be provided by different department of AMC in real time or batch ? if in batch then what would be interval ?	SCADL will finalize this in RFP.
47	5.1 Existing data sets and Existing Issues, Page 11 of 26	(i) The established AI cell needs to understand all line departments of AMC and Smart City Ahmedabad's functioning. Post understanding the projects implemented and day-day activities, AI cell to perform data collection.	Our understanding is collected data from different department of AMC will be used mostly for analytics and predictive use cases. Do you see any use case related to real time data monitoring / Business activity monitoring etc. ?	As such No, However, In future based on the new initiative in the project requirement may come for real time data monitoring.

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48	8.3 Technical Aspects	The agency is expected to give solution/proposal for at least one of the use cases mentioned below: (i) AI-Based Waste Disposal and Segregation System (ii) AI-Based Crowd Management (iii) AI-Based Utilities Management (iv) AI-based System for reducing Air Pollution (v) Using AI How can Gujarat Cities become positive energy city by 2030 ? (vi) AI based system to provide collaboration platform among commuters to reduce traffic (vii) AI based Illegal Parking detection System (vii) AI based Illegal land encroachment detection	As per EOI document, we understand that bidder need to only give solution/proposal for atleast one of the use case only. Kindly confirm	Yes, Correct
49	Eligibility Criteria: S No 7- Page No 14&15	Agency should deploy minimum 4 manpower with qualifications as mentioned at AMC/SCADL: - CV's of the manpower supporting the requested qualifications to be submitted as part of submission	As the proposal is at EOI stage, we request not to consider evaluation of proposed resources at this stage. We shall submit details of proposed resources during RFP stage of the project	No change in Clause.
50	Clause 8.2 Financial Model Page No 15	The agency is required to provide financial model of the AI cell. This model should depict payment structure, timeline, delivery, or servicebased approach etc.	As the AI cell is in conceptual stage, we would like to suggest multiple alternative financial models to SCADL. Kindly confirm that the above proposal is permitted under this EOI.	SCADL is open to receive any of bidder's suggestions including alternate financial models as part of their Concept note.
51	Clause 10.2 Format Agency Details- Page No 21	Sales Tax/ VAT Registration No	We kindly request you to submit details of GST registration as VAT registration is presently redundant.	Please submit GST registration



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52	Clause 5.1 (iv) Existing data sets and Existing Issues	With help of existing datasets, AI cell is expected to establish data correlation among datasets and propose ideas/solutions/suggestions on how to resolve various issues that are identified department wise as per above mentioned point	External data sets can be complimentary to AMC's internal data sets for ascertaining patterns and inferences. We request for a confirmation for use of external data sets to strengthening the models.	Relevant external data sets can be utilized by the bidder for these purposes ONLY post receiving approval from SCADL/AMC.
53	General		We kindly request you to provide details regarding resource deployment expected by the client as part of AI cell. This would help us to formulate right financial models.	Please refer to Section 7 point no 7 of the EOI.

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