

Bid Bulletin 1

IRQ-RFP-189/19

Geospatial Applications Development and Configuration for a data center in Karbala Governorate, Iraq Phase I

Bidders Questions and Answers

No	Question	Answer
1	<p>On page 3 section "context of the requirement" you have stated that this RFP was issued to extend Karbala Governorate data center by providing software applications and configurations.</p> <p>On page 13 under the section "GIS applications" you state that the solution should operate in a high availability production environment and that the architecture should support the number of expected concurrent users for each application. Kindly specify the below:</p> <p>a. you mention high availability you are referring to software configuration that will enable the application to be highly available and not hardware configuration?</p> <p>b. When you mention expected concurrent users, how many users are you expecting to the GIS in the governorate and in the 21 directorates.</p>	<p>a) Yes</p> <p>b) about 115 Professional users: 10 GIS professional user in the Governorate HQ, and 5 Professional users in average in each Governorates, the Field workers are depending on the published surveying forms that can reach 500 Concurrent field workers in some cases and for the citizens public eye app, system shall support unlimited numbers of users.</p>
2	<p>On page 3 section "brief description of required services", you mention that a mobile application is needed to register complaints and that a web application integrated with the GIS should be in place in order to enable the back once to handle the workflow required to manage these complaints. Kindly specify.</p> <p>a. The complexity of this workflow (how many users are involved, how many approval levels, business rules, conditions) for each type of workflow.</p>	<p>The number of users should be unlimited as they are Karbala Citizens and visitors, it's required for all bidder in the analysis phase to collect the needed information about the workflow and provide us with the recommended use cases with SRS report</p>
3	<p>On page 12, section project objectives, you mention that this RFP contains the requirements for extending the spatial data infrastructure of the Karbala governorate. Kindly specify:</p> <p>a. The existing infrastructure in terms of hardware, software (existing CMS, web application or GIS), databases or any other form of infrastructure that will be used in this project</p>	<p>8 Windows Dell Servers connected to Rackmount Network Storage (NetGear 20TB), connected with fiber Cables to distributed local servers in the 21 related directorates, the Main RDBM is Postgress.,</p> <p>2 ArcGIS Enterprise Advanced up to eight cores in addition to 3 ArcGIS Enterprise workgroups in addition to ArcGIS Desktop licenses for the HQ and Directorates users.</p>
4	<p>On page 12, section Geographic Database, you mention that building a unified data model is needed to avoid duplication of data between different directorates and departments that operate in the governorate and that provided model should be suitable to the nature of work between the directorates. Kindly specify:</p>	<p>a) There are data exchange policies should be studied during the analysis phase and applied using the implemented technology, some data should be centralized, and other data would be distributed, data sync should be done according to data exchange policies</p> <p>b) Implementing all securities policies that guarantee the confidentiality of all data is one of the most important</p>

	<p>a. What is meant by the nature of work between directorates. are the directorates going to log in to the GIS which is located centrally or are they going to each have a copy of the database and work their respective directorates and perform sync operations with the main GIS application located centrally in the governorate's data center?</p> <p>b. Please mention any other considerations we should note of, related to this point.</p>	<p>considerations, more considerations will be unleashed during the analysis phase.</p>
5	<p>On page 13, section CMS you mention that the administrator will add map elements by integrating with other system components. Kindly specify.</p> <p>A) These systems and their functions?</p> <p>B) Are they currently existing?</p>	<p>a) Decision Maker Dashboard, GIS database, Field Management app, public eye citizen app.</p>
6	<p>Is there an existing GIS system? Is it based on Esri technology?</p>	<p>Yes, there is existing GIS Systems, they currently use Esri, Autodesk and Community Editions for GIS S/W</p>
7	<p>What is the total number of GIS concurrent users? Viewers? Editors?, Field Workers? Creators? (who create the maps and design the apps)? GIS Admins?</p>	<p>About 115 Professional users: 10 GIS professional user in the Governorate HQ, and 5 Professional users in average in each Governorates, the Field workers are depending on the published surveying forms that can reach 500 Concurrent field workers in some cases and for the citizens public eye app, system shall support unlimited numbers of users</p>
8	<p>Please share more info about the existing GIS system infrastructure and software licenses (system architecture).</p>	<p>8 Windows Dell Servers connected to Rackmount Network Storage (NetGear 20TB), connected with fiber Cables to distributed local servers in the 21 related directorates, the Main RDBM is Postgress., 2 ArcGIS Enterprise Advanced up to eight cores in addition to 3 ArcGIS Enterprise workgroups in addition to ArcGIS Desktop licenses for the HQ and Directorates users.</p>
9	<p>What is the total number and type of users including simultaneous users, web/Desktop users, Intranet/Internet users</p>	<p>115 Desktop Users, unlimited web/mobile users</p>
10	<p>Please advise more details regarding the used hardware in the current architecture. Is there an existing HW? If yes, what are they (HP, Dell.), also what is the cpu used (Intel Xeon e5-xxxx 3.x Ghz). Is virtualization used? (Vmware, Hyper-v)</p>	<p>Yes the Data Center is Highly available and the existing the servers HW are 8 Dell servers the CPU used: are 2.1 GHZ Intel XEON E5-2620 V4 and E5-2600 v4 , in the directorates there are mixed brands in servers and workstations currently Karbala governorate don't use virtualizations.</p>
11	<p>Regarding system availability should it be Highly Available By virtualization or by Load balancer?</p>	<p>It's up to the bidder to purpose his suggested solutions but in all cases the needed perquisite licenses items and quantities should be identified in his technical and financial proposal</p>
12	<p>Shall we assume that RDBMS exists, and we will only use an empty DB or there is a need for dedicated DB server.</p>	<p>Currently Karbala are using Postgress DB if you proposed other type please include it in your technical and financial proposal</p>
13	<p>Page 3 - Geographical database The service provider should work in converting the data (Spatial and Tabular) that will be provided by Directorates (21 Directorate) into GIS data. Please provide more information about the data size and the expected data formats and layers.</p>	<p>The current data size vector data in average 2.5 GB without satellite images (60 CM X 52 KM2), the data includes base map and business layers for the 21 Directorates</p>
14	<p>Page 3 - All the provided applications should be integrated with the current SDI efforts initiated in Karbala. Please confirm that there is an existing</p>	<p>There is SDI efforts on policies and infrastructure dimensions, any other information needed information will be in your analysis phase</p>

	implemented NSDI in Karbala and please provide more information about it.	
15	Page 3 - utilize the Geo-surveying data collection environments/platforms existing in Karbala governorate. Please provide more information about these apps and the technology used.	Currently Karbala Governorates uses ODK and Kobotoolbox for data collection
16	Page 4 - A web-based dashboard that should provide a common operating picture for monitoring, tracking, and reporting events. Please provide more info about the use-case. Is related to registered complaints and field operations?	it's required for all bidder in the analysis phase to collect the needed information about the workflow and provide us with the recommended use cases with SRS report
17	Page 7- Schedule of Payments and Deliverables. There are two tables related to the schedule of payments, which one shall be used as terms of payment?	The table for "schedule of payments" shall be used which is also reflected on page 5 of the RFP. The payment is divided into 3 stages: 1 st payment is 25%, 2 nd payment 40% and 3 rd payment will be 35% of total contract amount.
18	<p>1. In the TOR "Environment Preparation"</p> <p>1.1 What did you mean by "establish the S/W needed Connectivity between data center and the 21 Directorates"? Can you please elaborate and specify what is needed exactly?</p> <p>1.2 From our understanding Karbala Governorate have a data center ready for the SDI, the directorates will be connected to this Data center through intranet/private network or they can access the data center via internet?</p>	The main system will be hosted in the data center and we would like to sync with the 21 Directorates data services, the intranet connectivity is available. The directorates will access the data center through private network
19	What is the estimated bulk of work in Converting the Data that should be collected from the 21 directorates (Spatial and Tabular) to GIS? and the conversion will be from AutoCAD to GIS or from paper maps. If there is any type of paper maps, maps should be Geo Referenced.	The 21 directorates have many types of spatial and tabular data and the bidder should be convert it the GIS format and create complex data views that serves the decision maker dashboard as well as the rest of developed and configured applications in the TOR.
20	The required licenses "specifically ESRI Licenses"; should be included in our prices or will provided by UNDP / Karbala Governorate? if we are going to provide the licenses, what is the expected number of users in the governorate and the 21 directorates including their access level/roles (Viewer, Editor, Data Publisher....)?	<p>Karbala Governorate have 2 ArcGIS Enterprise Advanced up to eight cores in addition to 3 ArcGIS Enterprise workgroups in addition to ArcGIS Desktop licenses for the HQ and Directorates users.</p> <p>Users are 115 professional users: 10 GIS professional user in the Governorate HQ, and 5 Professional users in average in each Governorates, the Field workers are depending on the published surveying forms that can reach 500 Concurrent field workers in some cases and for the citizens pubic eye app, system shall support unlimited numbers of users</p>
21	Training and Certifications: from what is written in the TOR, obviously the bidders should suggest their training plan. Is there a specific requirement for the "Geographic Database" training? Are we going to develop an official training course for GIS data conversion, editing, etc.... or just we can suggest a general training taking into consideration that the candidates have the knowledge on how to use and edit a GIS map?	The training should tackle all configured and developed applications from both users and admins point of view and bidders are welcome to add their recommendation as an option in the technical proposals.
22	What is the maximum number of trainees?	The minimum number is 15 Trainee out of 115 professional system users.
23	We need more details about the available data in the 21 directorates, such as count of paper maps, number of	No-paper maps conversion are required, there are AutoCad files only in the Utilities directorates (Water, Sewage, Teleco

	<p>AutoCAD layers and other data formats; also, if they have the data as geo referenced,</p> <p>There is no problem to understand what is needed when it comes to the decision makers dashboard and the level of complexity of data views. Our question focused on the estimation of the data conversion work to GIS format. We are trying to estimate the level of effort needed to achieve the data conversion work.</p>	<p>and electricity distribution), as well as shape-files and excel sheets, personal databases in all directorates, there is a layer for each data format (about 120 GIS Layer) all data has Geo-reference (that may be different from a directorate to another).</p>
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