

RFP/004/20 Tender for the development and implementation of the information system "Unified Electronic Registry Office" based on blockchain technology.

#	Questions	Answers
1.	What language to submit the offer: Russian, English?	Either English or Russian is accepted
2.	Is there a deadline for questions related to this tender?	The questions must to be sent 3 days before the deadline for submission of proposal.
3.	How many people will be involved during Information Systems analysis phase? How many cities and countries would we need to visit?	We will provide 4 tech specialists. All the work will be done in Tashkent, Uzbekistan. The vendor will not have to visit any other city/country.
4.	How many IT systems will be involved in the project? Can we obtain some documentation on the existing IT infrastructure?	DLT system must be introduced into existing civil status registry system that is implemented on the ASP.NET platform in the programming languages C #, Javascript, JQuery, Ajax. We will provide 6 servers stored at different datacenters for DLT besides the main server. Civil status registry system is connected with over 20 state systems via API. Connection speed of interagency servers is 10 MB/s via secure VPN
5.	How many users of the system will there be in total once deployed?	There are 1216 active users to date.
6.	How many types of users do you expect?	Admin, Operator, Manager, Head of registry office, registry office inspector, regional manager, ministry manager and other region related user roles. There are 15 user roles to date.
7.	Will all users have access to Google Chrome Web browser on a desktop computer?	Yes, they will. cryptographic
8.	The reference which is available in documentation, namely http://www.undp.org/content/undp/en/home/operations/procurement/procurement_protest/ refers to the nonexistent page - a screenshot in the application.	Please refer to the following websites: 1. https://procurement-notices.undp.org/view_notice.cfm?notice_id=66270 2. https://www.ungm.org/public/Notice/108807
9.	"The following information is missing from the statement of work: -process of recording or process map "	Metadata will be entered into the system
10.	List of information systems using data stored in the Registry Office Information System and the need for the module to interact with them	Currently, there is one information system that is implemented on the platform ASP.NET in the C#, Javascript, JQuery, and Ajax programming languages.
11.	Technical parameters of the servers used to determine the need to purchase additional equipment	Technical characteristics of the servers are attached
12.	technical parameters of communication lines	Connection speed of interagency servers is 10 MB/s via secure VPN

13.	requirements for the speed of the blockchain, the current workload of the registry office system	Currently, the total amount of stored information in the database is 180 GB, with a daily increasing volume of new information of 110 MB
14.	"Also interested are a number of procedural issues relating to the legal status of the system, such as: - Receipt of a permit document from the regulator of blockchain sphere in the Republic in the view of the state customer "	PSA (Public Services Agency) is working on the approval of this project
15.	Availability of approved ToR according to O 'zDSt 1987 standard for correct acceptance and delivery to the customer	Work on acceptance and delivery is performed according to the terms of reference of solicitation document
16.	is the transfer of intellectual property rights implied	The exclusive right to the source code of the module is transferred to the customer
17.	What the requirements for the blockchain structure in the solution? What type of the chain-based solution is required? Should it be permission based DLT or public blockchain? The question is derived from the statement: "confirmation from all the participants", page 4 of the tender's RFP	The system should be Distributed ledger technology (DLT).
18.	How many nodes DLT should include for the complete confirmation, the question is derived from the statement: "confirmation from all the participants", page 4 of the tender's RFP	Besides the main server we will provide 6 servers in different sites for the introduction of DLT in Tashkent.
19.	What are the key requirements for the consensus protocol of the blockchain that is implied in this solution? Should it be one of the well-known / standardized consensus protocols or a proprietary one?	Proprietary one
20.	What are the requirements for the "proof of work/stake" for the transaction to be included? What are the requirements for its cyber and cryptographic protection?	There is no limitation. The offer must be based on modern technologies.
21.	Should the solution use only ERC20 tokens for this solution? Or, are the extensions for the basic tokens implied to be used?	There is no such limitation
22.	Is it implied that OpenZeppelin-solidity library. Can be used for this project?	There is no limitation for libraries
23.	What are the requirements for limiting gas costs in the Ethereum Smart Contracts environment?	There is no limitation
24.	What are the principal requirements for information security for this solution?	The solution must be DLT system with 6 different servers deployed at different sites Besides the main server we will provide 6 servers in different sites for the introduction of DLT in Tashkent.

25.	With what external systems this solution should be integrated? To define the real scope of the solution please provide full list of such systems. What are the technical requirements for such integrations?	We will provide 6 servers stored at different datacenters for DLT besides the main server. Civil status registry system is connected with over 20 state systems via API
26.	What cryptographic protocols should be supported in this solution?	Recognized cryptographic standards, with the architectural opportunity to replace them in the future with national standards
27.	What are the requirements of compliance with the local cryptographic standards: for hashing algorithms? For electronic digital signing?	The requirement is to be able to use them in further stages of the project development.
28.	Please specify in more details the requirements how much time the developer team should be on site in Uzbekistan? How many people from which organizations will be present at the training?	<p>The total duration of implementation of contract is 90 calendar days upon signing contract by both parties.</p> <p>It depends on the approach of the developer. There is no any limit however, presence on the site in Uzbekistan must to be within duration of contract.</p> <p>It is planned that the vendor would conduct a training for at least 4 tech specialists.</p>