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Absorb Digital Asset Trading System

Project Bidding Documents

ICB No . YLBZB00001

Guiyang Absorb Technology Co., Ltd

August 28, 2017

Chapter I Invitation for Bids

Date: August 28, 2017

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I.   Guiyang Absorb Technology Co., Ltd (the "Tenderee") now invites sealed bids from eligible bidders for the supply and service of the following system.

II.   Project Name: Absorb Digital Asset Trading System

III.   Basic situation of the project: Absorb digital asset trading platform (Absorb) is constructed and operated by Guizhou Absorb Technology Co., Ltd.   Absorb aims to build a digital asset circulation ecosystem, which includes trading platform, transaction subjects, third party organization, government regulation, financial support and so on. Absorb Digital Asset Trading System is expected to use distributed clearing system based on alliance chain in combination with out-of-chain matched trading system to structure the system and deploy the development. The system can be real-time supervised and transfer brokers' commission to their account synchronously. As for the trading system, we hope to get to the best team and solutions by way of open bidding, hence we are now inviting your company for bid.

IV.   Duration: As of 30 working days after the contract was signed (a slightly customized mature product is what we are looking forward to rather than a newly developed product).

V.   Time, place and manner for obtaining the bidding documents and their price: The bidding documents are to be published through the website and community.

VI.   The bidding documents should be submitted to Absorb Digital Asset Trading Platform before 12:00 a.m. on September 10, 2017, when on-site FAQ will take on, and the late bidding documents will be rejected.

VII.   The opening time is scheduled for 14:00 p.m. on September 10, 2014, the venue is to be notified later, while the bidders must send representatives to attend the bid opening ceremony, otherwise their bid will be rejected.

VIII.   Special statement: Those suppliers who have obtained the bidding documents and will not participate in the bidding, please notify the Tenderee in writing before 12:00 a.m. on September 10, 2017. In case of rebiding of the project caused by less than three bidders, the project tender qualifications of those absent suppliers without written notice to the host will be canceled.

IX.   Tenderee: Guizhou Absorb Technology Co., Ltd.

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Chapter II Instructions for Bidding

The Bid Evaluation will put in place a scoring method with comprehensive assessment. The bid evaluation committee will score each of the bidders independently in comply with the above evaluation contents, and then the bidders will be sorted on the basis of accumulated scores collected from all members of the committee. Whereafter, the Tenderee will choose the winning bidder according to the sorted results. The score criteria are as follows:

bidding documents		Serial number	Scoring items	Score	Description
I	Business section (20 points)	1	Bidders' background and strength	2	Being engaged in trading system research and development in long-term 2 points
		2	Bidder's qualification	2	CMMI certification or ISO9001 Quality System Certification 1 point Qualification of High and New Technology Enterprises 1 point
		3	Successful cases of Digital Asset Trading System	10	Construction and implementation experience cases of trading system of global or regional well-known digital asset trading institutions, 2 points each.
		4	Certificate of registration of computer software copyright	1	Copyright certificates of related products
		5	Products passing through safety certificate	2	Related products passing through safety certificate of international or national authority
		6	Strength of R&D team and service team	3	Strong team strength and extensive experience. The head of the project team and the main technical staff should have construction and

					implementation experience of trading system of more than 3 global or regional well-known digital asset trading institutions.
II	Technical section (60 points)	7	Overall system scheme	8	The scheme is ought to be advanced and feasible，with good security, scalability, reliability and maturity.
		8	Modular development	5	Adopt modular development and rapid business function extension.
		9	The response to technical specification	3	Meet the technical indicators and specifications in the Bidding Documents
		10	Meet the system function	8	Meet the various system functions put forward in the Bidding Documents
		11	Product maturity	5	There is a complete set of mature products in line with this project, which has long been applied, and proved to be safe and stable.
		12	Rich in trading patterns	3	Support the electronic auction transaction mode. Remains extended support for market makers system and mature products.
		13	Ecological support, with "Coin Bank" management system	8	With an independent "Coin Bank Management System" (similar to the securities systems)
		14	System integration scheme	3	Reasonable and pragmatic hardware and software integration scheme in line with the actual situation of the tender side.
		15	Cooperation	5	Comprehensively and rationally

			ability in later stage		designed product line to meet the overall needs of system expansion of the tender side in the future.
		16	Support for expanding business	4	Respond promptly to the individual needs of business, support business expansion.
		17	System and business training	3	Maintain the dual capacity of business and technical training. Abundant experience of providing business development and technical support.
		18	Implementation and maintenance of services	5	Implementation and maintenance plans are reasonable, comprehensive and feasible.
III	Quotation part (20 points)	19	Bidding	20	Comprehensive score on the basis of price/performance ratio
	total				100 points

Chapter III System Requirements

I. Construction Goals

The Absorb Digital Asset Trading System should support:

1. Member management, member account capital management (support fast recharge and withdrawing of funds), member account digital token asset management (support fast Transfers In and Transfers Out), product listing, transaction transfer, transaction settlement;

2. Capable of supporting crowdfunding of ICO, ICO raised digital tokens management;

3. Supportive to wallet technology of all kinds of digital assets, ensure the three- or two-level management of cold and hot wallet to guarantee the safety of digital assets;

4. Support the collection and query of various general trade analysis indicators (not less than 50);

5. Support the operation of "Coin Bank", while "Coin Bank" should play the role of ICO counseling, listed varieties sponsor, and underwriting, as well as the role of market value management of listed varieties.

6. The system's development scale of next three to five years needs to be taken into account in the design.

II. Basic Principles

1, Security: A perfect, multi-level and unified security mechanism in line with relevant information security norms is essential; for the special nature of the trading system, a sound operation control, trace record and other mechanisms are required.

2, High Performance: An advanced architecture is fundamental, which can ensure the stable and efficient operation of products developed based on the system, and meet the demands for at least three to five years in the future.

3, Usability, Stability and Advancement: The system should provide a friendly user interface, humanized design, be easy to use and operate; since the system is a mature and stable product, it should adopt advanced, mature development system, which passed full test and is competent for the actual use with the various functions being reliably executed.

4, Easy to be Integrated: The system should provide a standard interface specifications to achieve the effective communication and integration of the system potentially happened at present and in the future.

5, High Availability: The system should include the reliability and fault tolerance mechanism with no single point of failure, and can not cause other module failures due to a certain module fault involving the queue, cache, message bus, which should consist of a sound anti-congestion and anti-collapse mechanism.

6, Scalability: The efficient and flexible expansion and secondary development of the system are required, as well as to increase the number of new functional modules and expand the application scale fast and on-demand, and to support smooth automatic upgrade.

7, Manageability: The system should provide visual management tools, allowing the fast management, configuration and monitoring of system operating conditions through a variety of means to provide technical support for the normal operation of the system.

8, Recoverability: The system should have a complete backup technology, while the main components should have a self-diagnostic function and a feasible recovery scheme.

9, Training and Upgrading Services: Provide comprehensive training services, training of different levels of management, technical staff and operating personnel should be carried on simultaneously as the installation, commissioning and on-line operation of the system are proceeding. After the Formal Run of the system, it should perform perfect maintenance to ensure the smooth operation of the system, and be able to continuously upgrade the system so that the system can timely absorb the latest technical means, management tools and adapt to the rapidly changing competition environment of digital asset .

III. Scope of Project Construction

(1) The project includes technical support for the development of the trading system platform software, system installation, commissioning, testing, training, acceptance and maintenance. System function requirements are as follows.

(2) The bidder shall ensure that the function, capacity and quality of all products and services provided meet the requirements of the bidding documents.

(3) The bidder must ensure that the trading system be launched on October 8, 2017.

(4) The system can be extended to support the full currency exchange system. (to be quoted separately).

(5) The system can support the tripartite deposit or bank-to-business network of multiple RMB banks to realize deposit and withdrawal operations and transfer of transaction funds. The system can support the tripartite deposit of multiple digital money banks (to be quoted separately according to the cost standard of each bank interface).

III. Functional Requirements

(1) System functional requirements:

Function composition	Description of the main function details
Overall architecture	Advanced and reasonable business structure: Covering the trading system management, institutions (Coin Bank, etc.) management, member management, fund management, digital token management, product listing, transaction transfer, transaction settlement, ICO crowdfunding, ICO raised digital token management and wallet management, support the collection and query of a variety of general transaction analysis indicators. Support the PC side, WEB side, and mobile client side of the transaction system .
Member management	Account opening, modify, close of the member trading account and account permission control; member safety management, member annual inspection management. Extensible online account opening function.
Institutional management	Counter system of the Coin Bank, connected through the transaction network in the transaction host
Token management	Token category management, token registration, listing applications and approval, token listing, token suspension and delisting. Token information release, token recommendation. Support token category customization and token transaction, cost parameter setting.
Fund management	Transferred into, transferred out, frozen, and thawed of funds during member transactions; the lock, replacement, refund, payment, inquiry and error correction of ICO raised digital tokens; Transfers In and Transfers Out and other functions of transactional digital tokens.
Bank docking	Pre-designated depository bank, designated/revoked depository bank, bank deposit and withdrawal transfer. Day-end reconciliation, transaction funds payment and other functions
Transaction management	Set trading parameters to support the collection of intention and match the transaction. Market display, transaction returns. Support online negotiation. Extensible support for call auction, block biding and market maker trading, allowing up to 200 pending order inquiries in the trading interface according to the member level

Clearing and settlement	Day-end liquidation, token settlement, reconciliation, transaction funds transfer, settlement notes management and other functions
Trading terminal	PC side, WEB side, mobile client side, quotation display module, orders entry module, information browsing module
Query statistics	Member information query, order flow query, transaction flow query, capital flow query, position query, etc.; statistical summary of orders, transactions, capital flow and other information, with daily technical trend curve query function for historical trading, and the query function for all kinds of index generation of token traded within this transaction.
Information	Information type definition and hierarchical management, information collection, audit, and targeted release.
Electronic files	Support the electronic management of member files and product files. Support text, image and video management
System Management	User management: The role and permission of the system user can be configured; parameter settings: the system and transaction parameters can be personalized (holders limit, T+0, etc.); the transaction category and transaction attributes can be flexibly set such as: price limits, trading days, trading hours, commission rates and so on.
Website interface	Release product information, market information, entrustment and transaction information through the website.
Operation monitoring	Database, middleware monitoring and application system monitoring and maintenance, block chain monitoring system, block chain broadcasting system, digital currency deposit and withdrawal risk management system, digital money withdrawal anti-laundering system, real name management system
Backup system	Database, middleware monitoring and application system backup system.
ICO management	Background interface be able to exchange tokens at different proportions when the ICO tokens and other generated digital tokens are in different stages, the interface has the lock function at a certain time node and obtains ICO tokens priority in a chronological order, the refund function for over time of generation or over flow of

	raised fund, the automatic distribution function of ICO raised tokens for those who successfully participate in ICO raising, as well as the query and error correction function for the number of all kinds of digital tokens participated in the ICO
Digital wallet	Support all ICO and reexchanged tokens in the platform to achieve the interchange function between the platform and personal digital wallet
Multi-currency exchange system	Settlement management system, quota control system, foreign exchange trading system, legal money payment system, digital money payment system

(2) Technical specification requirements:

Technology Architecture	Using multi-tier application architecture with security control mechanism for access; has expansion capabilities regarding the amount of processing and the number of user terminal.
Extended support	The system is competent to the future promotion and application of website, as well as to support connection with relevant agencies to facilitate the realization of business cooperation.
Middleware	The project software system must be developed and structured based on the mature middleware or technology platform components with independent intellectual property rights of the bidder to ensure the overall quality, scalability and easy future secondary upgrades and maintenance of the project platform.
System fault tolerance	Provide a fault tolerance and load balancing mechanism to support the database RAC and achieve millisecond switching, support the multi-node load balancing deployment for middleware and WEB; possess a mature disaster tolerance solution.

(3) External interface requirements

The bidder shall provide an interface with the third party system. Interface includes but not limited to: bank docking interface, market system interface, information system interface, web interface and so on.

(4) Key performance indicators

During the multi-user high concurrent operation period, the system should ensure that the operating efficiency does not appear a significant decline; support the trunked mode management, support the horizontal expansion of performance, and in the case that customer scale is expanded, provide support by quickly deploying the new server to automatically achieve load balancing and high availability. At the same time, the relevant training, documentation and technical advisory services for performance optimization and expansion should be prepared.

The following indicators are for a reference:

Performance Indicators	Indicator reference	Notes
Entrusted concurrent number	10,000 pcs/s	The maximum number of instantaneously entrusted transactions that the system can process simultaneously
Number of concurrent capital transfers	300 pcs/s	The maximum number of instantaneous capital transfers that the system can process simultaneously (this is an optional indicator that requires policy support)
The delay of market display	1s or less	The interval between the time of market display and the actual time of occurrence