



NEW TOWN KOLKATA DEVELOPMENT AUTHORITY

(A Statutory Authority Under Government of West Bengal)

Plot No. DG/13, Premises No. 04-3333, Action Area-ID,

New Town, Kolkata - 700 156

Memo No. 5000 / NKDA-14013/1/2022-IT SEC(NKDA)-NKDA

Dated: 30/06/2022

CORRIGENDUM

Subject: Design and Development of NFT [Non-Fungible Token] based Record of Title (Mutation) by New Town Kolkata Development Authority

Ref: (EOI) NO.: 01/ EE (E) /NKDA of 2022-23 circulated vide Memo No 4466/ NKDA-14013/1/2022-IT SEC(NKDA)-NKDA on Dated:13/06/2022

This is to notify all concerned that following changes/ modification/ addendum has been made in respect of the E.O.I as aforesaid.

Sl. No.	Clause	As Is	Would Be
1	5.1	The bids received without prescribed performance certificate shall be rejected.	The bids received without prescribed performance certificate such as Work Order of NFT/Blockchain projects either completed/ in progress shall be rejected.
2	5.2	Validity of the contract: The period of contract shall be for a period of 1 (one) month from the date of issue of the Work Order.	Validity of the contract: The period of contract shall be for a period of 1 (one) year from the date of issue of the Work Order. The period of development shall be proposed by the bidders.
3	5.5	The quoted rates should include the cost of development, cloud hosting, testing, deployment, training and maintenance for one year and any other charges related to hardware. No other charges except the quoted rate will be paid.	The quoted rates should include the cost of development, cloud hosting cost in Ministry of Electronics and Information Technology (MeitY) approved cloud service provider, testing, deployment, training and maintenance for one year and any other charges related to hardware. No other charges except the quoted rate will be paid.
4	6.5.1	Minimum Eligibility Criteria: The prospective bidder having credential of experience on NFT or Blockchain based Application for at least 03 Years under authority of State /Central Government, State / Central Government undertaking / Statutory Bodies Constituted under the Statute of the Central /State Government/ Corporate may participate.	Minimum Eligibility Criteria: The prospective bidder having credential of experience on NFT or Blockchain based Application for at least 01 Years under authority of State /Central Government, State / Central Government undertaking / Statutory Bodies Constituted under the Statute of the Central /State Government/ Corporate/ Private Sector Organisations may participate.

5	7.2.a	Broad Scope of Work: All the Properties are identified with a unique NFT hash code which are to be assigned by the Authority.	All the Properties (individual dwelling units/flats/ apartments/ vacant land) are identified with a unique NFT which are to be assigned by the Authority. Land Area in New Town is 7,000 acres Mutation done till date is 27,000 since 2011 The legacy data of all NKDA mutations is to be incorporated in the NFT
6	7.2c	In case of devolution, the NFT will be parallely transferred to all the dependents to that Property through Fractional Ownership	In case of devolution, the NFT will be parallely transferred to all the dependents to that Property through Fractional Ownership. In case of inheritance/ division of property in favour of multiple heirs/ owners, each heir/ owner must have an identifiable NFT derived/ associated from the original NFT. The NFT functionality should follow the Mutation of properties. When a property is mutated in the name of multiple heirs, then the NFT should reflect it accordingly
7	7.3a	Creation of a private blockchain for the NFT application.	Creation of a private blockchain for the NFT application that is not dependent on any cryptocurrency for any transactions.
8	7.3c	Integration with the Record of Title (Mutation) under e-District.	Integration with the Record of Title (Mutation) under e-District. Any change to Mutation must be reflected in the NFT. It shall be an API integration.
9	7.3e	Validation of NFT Records by the Authority	Validation of NFT Records by the Authority- Any mutation shall be incorporated with the blockchain and shall be approved by a minimum of three designated persons/ organisations as decided by NKDA
10	7.3f	Generation of NFT Virtual wallet against each Property.	This clause is hereby deleted
11	7.3i	The mutation charges prevalent in NKDA area must be credited to NKDA via NFT Smart Contracts post every applicable mutation.	The mutation charges prevalent in NKDA area must be credited to NKDA via NFT post every applicable mutation. Mutation Charges must be as per NKDA rules. Provision must be there in solution to change the Mutation Rate as changed by NKDA
12	7.3j	NKDA must have access to a customisable suite of smart contracts that enables the issuance, management such as minting, editing, blocking, updating and transfer of permissioned tokens.	NKDA must have access to a customisable suite of smart contracts that enables the issuance, management such as blocking and transfer of NFTs.
13	7.3k	All NFT transactions and transfers must be visible and tracked in a dashboard	All NFT transactions and transfers must be visible and tracked in a dashboard. NKDA, HIDCO and any other agencies selected by NKDA can have access to the dashboard. Citizens are not to have access to the

			dashboard. However, on scanning the NFT QR code citizens can view the details of the NFT such as associated with the land/ property
14	7.3.1	NFT Token: A physical NFT token with unique identification no and other details must be printed for every transaction and provided to the new owner post mutation	NFT Token: The NFT is to have a printout in a card format that can be printed in any printer. It must contain the NFT number/ QR code whose data can be accessed through authentication (Mobile OTP etc). Mutation certificate may incorporate the NFT QR code.
15	9	Security deposit - 2% of the Billing Amount will be deducted in each milestone of the Bill which is kept as a Security Deposit for the entire period of the contract.	The milestones are as per payment terms in clause 8. In each payment milestone 2% security shall be deducted from the running bill. The security deposit shall be paid back after one month from the date of end of contract (maintenance period)
16	13.1	Go-Live of the application includes SSL Certification, Security Audit to be made within 90 days from the date of formal work order & Agreement issues.	Go-Live of the application is conditional upon delivery of SSL Certification and Security Audit.
17	13.3	Maintenance Support	<p>Severity 1: Production application down or major malfunction resulting in a product inoperative condition. <i>Response time:</i> 30 mins and <i>Resolution time:</i> 2 hours.</p> <p>Severity 2: Critical loss of application functionality or performance resulting in a high number of users unable to perform their normal functions. <i>Response time:</i> 30 mins and <i>Resolution time:</i> 4 hours.</p> <p>Severity 3: Minor loss of application functionality or performance resulting in a high number of users impacted to perform their normal functions. <i>Response time:</i> 30 mins and <i>Resolution time:</i> 6 hours.</p> <p>Severity 4: Product feature requests, how-to questions. <i>Response time:</i> 30 mins and <i>Resolution time:</i> 8 hours.</p> <p>The support is expected in all office hours. However in case of Severity 1,2 and 3, the support is also expected in weekends</p>

18	14.10	Any Organisation having experience on NFT or Blockchain based Application for at least 03 Years	Any Organisation having experience on NFT or Blockchain based Application for at least 01 Years
19	12	Deliverables: a) SRS b) Source Code c) Hosting to be made in Cloud empaneled under the Ministry of Electronics, and Information Technology, Government of India. d) SSL e) External audit report certifying that the developed application incorporates blockchain and NFT technology f) Security Audit must be conducted by the Agency. g) 1 No of Printer for printing physical NFT tokens in a credit card format	Deliverables: a) SRS b) Source Code c) Hosting to be made in Cloud empaneled under the Ministry of Electronics and Information Technology, Government of India. An updated backup copy of the solution to be made available in NKDA server as well. d) SSL e) External audit report certifying that the developed application incorporates blockchain and NFT technology f) Security Audit must be conducted by the Agency. g) NFT management module h) API Development in JSON format for integration with NKDA ICC. i) UI/UX Design of the Dashboard j) Mobile App

Technical and Financial evaluation of Bids: Evaluation will be done through QCBC method. Evaluation Scorecard is as follows.

Technical Scorecard			
Sl.	Criteria	Maximum Score	Supporting document to be submitted
1	Execution Team: Assigned Quality of team to have experience on Blockchain/ NFT. Each year of experience to have 5 marks	20	CV of development team
2	Experience on Design and Development of Blockchain/ NFT application	15	Copy of Work Order/ Completion Certificate duly attested by the Authorised signatory submitting the bid -For 1 no. of application: 5 marks -For 2-3 no. of application: 10 marks -4 or more no. of application: 15 marks
3	Duration of application development.	15	Completion time: -Upto 6 months: 15 marks -More than 6 months and upto 9 months: 10 marks -More than 9 months: 5 marks
4	Demonstration of the online application: - Security Features with appropriate certification -Ease of Use -Adequacy of MIS	50	Demonstration of the application before a committee formed by NKDA for this purpose

-All features as mentioned in the Scope of Work -Scalability		
Total	100	

1. The Financial offer of only those bidders who qualify with 50 points in technical score will be opened for evaluation.
2. The highest financial score of 100 will be awarded to the technically qualified bidder who quotes the least amount of financial bid and the other qualified bidders will get proportionately lower score as follows:
 - a. If the financial offer of least cost bidder is L and that of another higher cost bidder is N then the financial score of the higher cost bidder FS will be $FS = 100 \times (L/N)$
3. The technical score will be given a weightage of 70% and there will be a 30% weightage on the financial score and final selection will be made on the basis of the composite score as follows:
 - a. If the Technical score of a bidder out of 100 is T where $T > 50$, and their Financial Score calculated as FS out of 100, then the final CQCBS score of this bidder will be
 - b. $S = 70\% \text{ of } T + 30\% \text{ of } FS$
4. The bidder scoring highest composite score will be the selected bidder subject to compliance with all other relevant terms and conditions.

All other terms and conditions of the EoI shall remain unchanged.



Executive Engineer (E)
New Town Kolkata Development Authority

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Dated: 30/06/2022

Copy forwarded to kind information of

1. The Finance Officer, New Town Kolkata Development Authority.
2. PA to Hon'ble Chairman, New Town Kolkata Development Authority
3. PA to Chief Executive Officer, New Town Kolkata Development Authority
4. Notice Board, New Town Kolkata Development Authority for displaying
5. Official website on New Town Kolkata Development Authority (NKDA)
(<http://www.nkdamar.org>)



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