State Planning Commission

Ezhilagam - V Floor, Chepauk, Chennai -600 005

Phone: 044-28545460

E-mail :msspc.tn@nic.in, hodspclu@gmail.com

REQUEST FOR PROPOSAL (RFP)
to undertake a Web Platform Development for
"Tamil Nadu Land Use Information System (TNLUIS)"

Selection of Consultant / Agency for the tool creation assignment based on Quality and Cost Based Selection (QCBS) Method

March 2025

Last date and time for Proposal Submission	**21.04.2025 5.00 pm**

LETTER of INVITATION (LoI)

Dear Sir / Madam,

Sub: Request for Proposal (RFP) for a web platform development for **"Tamil Nadu Land Use Information System"** – Regarding

1. The State Planning Commission intends to engage eligible Consultancy / Agency to undertake a web-based tool development for "Tamil Nadu Land Use Information System (TNLUIS)".
2. Proposals (Single stage, two cover system, viz. simultaneous receipt of separate Technical and Financial proposals) are invited from eligible agencies, which have requisite experience in the domain as per the RFP attached
3. The proposal shall be sealed in an outer big envelope containing (i) Forwarding letter (ii) sealed Technical proposal with the expression "TECHNICAL PROPOSAL" and (iii) sealed Financial proposal with the expression "FINANCIAL PROPOSAL" separately in envelopes, with the expression "DO NOT OPEN BEFORE **21.04.2025** superscribed on top of the Big envelope. The Topic/ subject of this RFP should also be mentioned on the top of the Big envelope. This shall be sent by registered post/ speed post or by hand only to reach: **The Member Secretary, State Planning Commission (SPC), Ezhilagam, 5th Floor, Chepauk, Chennai -600 005** before 5:00 PM (IST) of the last date of bid submission i.e. 21.04.2025.
4. Late tenders will not be considered. No responsibility shall be taken for postal delay or non-delivery/non-receipt by the State Planning Commission. Bids sent by Fax, e-mail, WhatsApp, etc. will not be considered and are liable to be rejected.
5. A Consultancy/ Agency will be selected under Quality and Cost Based Selection (QCBS) procedures described in this RFP and in accordance with the procurement guidelines of the **TAMIL NADU TRANSPARENCY IN TENDERS ACT, 1998 and RULES, 2000** as amended from time to time.
6. Salient features of the tool and instructions for submitting the proposals and other details are available in the RFP document (attached). You are requested to submit your response on or before the stipulated date & time as mentioned in the RFP document

Sd/-
Member Secretary
State Planning Commission (SPC)

RFP CONTENTS

Disclaimer

1. This RFP document is neither an agreement nor an offer by the State Planning Commission (SPC) to the prospective Consultants or any other person. The purpose of this RFP is to provide information to the interested parties that may be useful to them in the formulation of their proposal pursuant to this RFP.
2. SPC does not make any representation or warranty as to the accuracy, reliability or completeness of the information in this RFP document and it is not possible for SPC to consider the particular needs of each party who reads or uses this RFP document. This RFP includes statements which reflect various assumptions and assessments arrived at by SPC in relation to the consultancy. Such assumptions, assessments and statements do not purport to contain all the information that each Consultant may require. Each prospective Consultant should conduct its own investigations and analyses and check the accuracy, reliability and completeness of the information provided in this RFP document and obtain independent advice from appropriate sources.
3. SPC will not have any liability to any prospective Consultancy Company/ Firm/Consortium/Institution or any other person under any laws (including without limitation to the law of Contract, Tort), the principles of equity, restitution, or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the Assignment, the information and any other information supplied by or on behalf of SPC or their employees, any consultants or otherwise arising in any way from the selection process for the Assignment. SPC will also not be liable in any manner whether resulting from negligence or otherwise arising from reliance of any Consultant upon any statements contained in this RFP.
4. SPC will not be responsible for any delay in receiving the proposals. The issue of this RFP does not imply that SPC is bound to select a Consultant or to appoint the Successful Consultant, as the case may be, for the consultancy and SPC reserves the right to accept/reject any or all of proposals submitted in response to this RFP document at any stage without assigning any reasons whatsoever. SPC also reserves the right to withhold or withdraw the process at any stage with intimation to all who submitted the RFP Application.
5. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. SPC accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.
6. SPC reserves the right to change/ modify/ amend any or all provisions of this RFP document.

CHAPTER 1- Instructions to Consultants

1. Background

Tamil Nadu's economic growth has traditionally been segmented across various sectors, with a significant reliance on agriculture, which utilizes vast tracts of land alongside burgeoning industrial sectors and rapidly expanding urban centres. The management of such diverse uses traditionally involves multiple governmental departments, each with its own set of data and management protocols. Historically, this compartmentalization has led to significant inefficiencies and a fragmented approach to land management and policy development.

The State Planning Commission of Tamil Nadu, which oversees comprehensive development planning, has often faced challenges due to the lack of a consolidated data system that can provide real-time, actionable insights into land use patterns. This fragmentation hinders the state's ability to plan effectively for its developmental needs and environmental conservation efforts. Additionally, the Tamil Nadu State Land Use Research Board, tasked with researching and advising on optimal land use strategies, has recognized the necessity for an integrated approach to manage the state's land resources more effectively. The board's research has often emphasized the disparities in land use and the potential for conflict between various land-dependent sectors. The introduction of TNLUIS is a strategic response to these challenges. Motivated by the need to consolidate and synchronize land use data across various platforms and departments, TNLUIS will serve as a unified repository of all spatial data related to land coupled with research and analysis. It will provide stakeholders, including policymakers, environmental agencies, and other stakeholders, with a comprehensive overview of land utilization patterns, facilitating more informed decision-making.

1. Terms of Reference

1.1. Objectives of the Study Assignment:

Based on the strategic goals of the Land Use Information System (TNLUIS), the objectives are aimed at enhancing the system's utility for stakeholders, optimizing resource management, and supporting informed decision-making. These objectives encapsulate the system's core functionality and its anticipated impact on land use management and environmental stewardship in Tamil Nadu:

1. **Data Dissemination:** To effectively distribute comprehensive data gathered from research across multiple disciplines to all stakeholders, ensuring that information is accessible and usable.
2. **Simplified Data Presentation:** To present complex data in an easy-to-understand format using data visuals, maps, and interactive tools, thereby facilitating a clearer understanding of land use dynamics.
3. **Decision Support:** To provide a robust decision support system that leverages evidence-based insights, enabling policymakers and planners to

make informed, strategic decisions regarding land use and development.

4. **Data Integration:** To amalgamate data from diverse sources into a single, coherent platform, enhancing the capability to analyze, monitor, and manage land resources.
5. **Resource Optimization:** To use integrated data to optimize the management and conservation of natural resources, ensuring sustainable development and optimal use of land across Tamil Nadu.

These objectives highlight TNLUIS's role as not just a repository of information but as a transformative tool designed to improve how land-related data can be utilized for the benefit of the state's environmental health, economic development, and public welfare. By achieving these goals, TNLUIS will play a pivotal role in advancing Tamil Nadu's capabilities in sustainable land management and environmental conservation.

1.2. *Components of TNLUIS*

The user interface of TNLUIS is designed as depicted in Figure 1. Upon on login the platform allows users (based on permissions) to access specific modules. Users may also choose to share their data with TNLUIS (which will be validated by the TNLUIS team). The following provides a brief description of each component.

1. Nine Modules

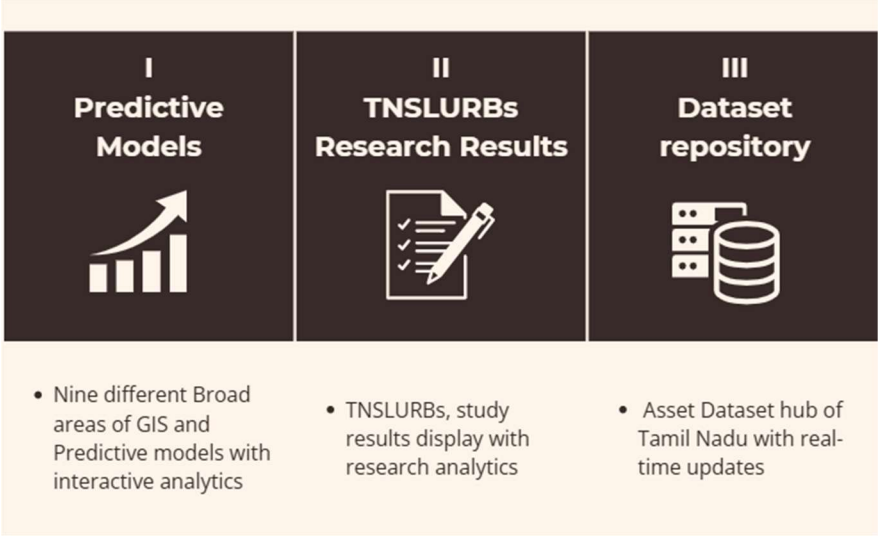
This component will show the nine different fields of the GIS modules that are proposed to be a part of TNLUIS platform. The nine different modules are LULC, Forest, Climate Change, Disaster Management, Urban and Peri-Urban, Water Resources, Coastal & Marine Resources, Energy, Industry, and Agriculture. Detailed information about the tools expected to be built in each nine modules is given in Annexure 1. Under these modules, various tools (features) that are identified to be created are to be made available to the users in an interactive manner. The output of each tool needs to be simple and user-interactive for a better understanding with analytical visualisations like line graph, bars, pie charts, other graphs, and maps (Global Forest Watch and Energy Access Explorer platforms can serve as references for user interface and results display design). These nine modules should be able to adopt the predictive modelling or simulations based on the possibility.

2.TNSLURB research outcomes:

This component will display the research outcomes of the Tamil Nadu State Land Use Research Board. To enhance understanding, analytics will be presented, utilizing visual aids such as line, bar, and pie charts. This section should also enable administrators to upload forthcoming research results. The research results should also be reflected in any of the nine modules with an interface to highlight the insightful findings in text, map view and visual graphics.

3. Dataset Repository:

This component will serve as the GIS dataset repository, housing utility data and data from other line departments. This data will be accessible within the 9 different modules as base data or additional data layer. Furthermore, this component will be dynamic, allowing administrators to select the data of their choice. If necessary, a live data uploading system can be provided to update the data. In addition to vector layers, this repository will also include raster data. This component will provide input data for the tools within the nine modules.



(Figure 1)

1.3. Expected outcome of the tool

Tamil Nadu Land Use Information System (TNLUIS) is poised to significantly impact a diverse array of stakeholders by providing a centralized, accessible platform for land use and environmental data based on research and analysis. This system will revolutionize how various groups interact with and utilize such data, facilitating better decision-making and management practices across several sectors.

Decision Support System: TNLUIS will provide a robust decision-support tool offering real-time data and analytics to policymakers. This system will enable more informed decisions, particularly in urban planning, resource allocation, environmental conservation, and disaster management. By integrating comprehensive land use and environmental data, TNLUIS will help tailor policies to the specific needs of regions, enhancing the effectiveness of government interventions.

Resource Management: With detailed data analysis and research findings themed on natural resources such as water bodies, forest cover, and land use patterns, TNLUIS will enable better management and conservation strategies. It will aid in the sustainable exploitation of resources, ensuring long-term availability

and reducing environmental impacts.

Environmental Sustainability: TNLUIS will play a crucial role in monitoring environmental parameters, assessing the impacts of various activities, and ensuring compliance with environmental regulations. It will facilitate the tracking of biodiversity, pollution levels, and land degradation, thereby aiding in the implementation of projects aimed at ecological restoration and sustainability.

1.4. Methodology

Tamil Nadu Land Use Information System (TNLUIS) will be developed through a multi-phased methodology to create a robust, user-friendly platform. It will integrate environmental and land use data from TNSLURB and other sources, utilizing both customized and newly developed predictive models, guided by a technical advisory committee.

1. TNLUIS will feature a web platform with a spatial framework, integrating satellite imagery for **automated land use analysis (for selected major classes)**, supplemented by manual assessments.
2. The platform will offer dual access: public for general information and secure login for government agencies with advanced tools.
3. TNLUIS will include interactive data visualizations, dynamic maps, and specialized modules for Climate Change, Forests, Water Resources, Urban areas, Land Use, Coastal resources, Disaster Management, Energy, and Sustainability.
4. It will aggregate multi-sectoral predictive models, providing a holistic view of land use patterns and environmental changes in Tamil Nadu.

Project Initiation and Planning: The data sets from various organizations (provided by SPC) will be collated and analysed together to come up with various thematic inferences which will be assimilated to be used in TNLUIS in addition to several research findings carried out by TNSLURB.

System Design and Data Management: The core of TNLUIS will be its robust system architecture designed to support high-volume data processing and advanced GIS capabilities. A detailed data model to be developed to ensure efficient data storage, processing, and retrieval, maintaining high standards of data integrity and alignment with existing data standards. The data management phase focus on establishing data sourcing after validation and developing integration pipelines to standardize data from various sources, ensuring high data quality and reliability.

Development: TNLUIS is expected to be developed using agile methodologies, allowing for flexibility and iterative testing of the system's functionalities. Prototyping different modules will enable early feedback integration, refining system capabilities in real time.

- **System Architecture:** TNLUIS should be scalable with a secure system architecture that supports real-time data processing and integration. The architecture should support both the data-intensive nature of the system and the geographic information system (GIS) capabilities.
- **Interface Design:** The user interfaces should be intuitive and accessible. The system will feature a dual-panel interface with interactive data visualizations on one side and a dynamic map view on the other (for references Global

Forest Watch for dashboard view and data visualizations).

Testing, and Deployment: Comprehensive system testing, including security and performance assessments, will precede a pilot implementation phase, where the system will be deployed in a limited area to evaluate its real-world applicability and performance. Following successful pilot testing, TNLUIS will be rolled out state-wide, accompanied by extensive training sessions and detailed documentation to support end-users and stakeholders.

Maintenance, Upgrades, and Evaluation: Post-deployment, the system is expected to be continuously monitored to ensure optimal performance, with regular updates to enhance functionalities and incorporate new data. For a period of three years, a dedicated in-house support team will provide ongoing assistance and resolve any emerging issues with the support of the vendor. The system's performance will be regularly evaluated against predefined objectives and KPIs, with stakeholder reviews facilitating a feedback loop that will inform iterative improvements, ensuring that TNLUIS remains a cutting-edge tool for sustainable land management in Tamil Nadu. The vendor is expected to provide immediate fixes for basic layer updates and to be available for any upgradations suggested by SPC upon request during this period.

This structured methodology not only ensures the successful implementation and operation of TNLUIS but also sets a foundation for ongoing development and enhancement, adapting to evolving environmental and technological landscapes.

1.5. Time Frame:

The timeframe of the work would be a maximum 8 months from the time of its initiation. Time extension would be maximum of 1 or 2 months.

2. Bidding process

2.1. Single stage Bid

This RFP is through a single stage two bid system - (simultaneous receipt of separate technical and financial bids) issued to undertake the web platform development of **"Tamil Nadu Land Use Information System (TNLUIS)""** as per the scope listed under the Terms of Reference.

2.2. Details of selection process

2.2.1. The Bidder will be selected through the Quality and Cost Based (QCBS) selection method with 70% weightage to the technical proposal and 30% weightage to the financial proposal.

2.2.2. Quality and Cost-Based Selection (QCBS): In the case of QCBS, the total score is calculated by weighing the technical and financial scores and adding them to obtain a combined QCBS (Technical cum Financial) score. The proposal obtaining the highest total combined score in evaluating quality and cost will be ranked as H-1, followed by the proposals securing lesser marks as H-2, H-3 etc. The proposal securing the highest combined marks and ranked H-1 will be awarded the Contract. If two or more bids have the same highest score in the final ranking, the bid with a higher technical score will be H-1.

2.2.3. The Technical Proposals are given an absolute technical score (Ta out of max 100) based on the evaluation criteria in Section/Clause: Evaluation/ Scoring Criteria. However, to normalise this w.r.t. Financial Score Sf below, a relative Technical Score (St) based on their relative ranking shall be calculated. The highest evaluated Technical Score (Tamax) is assigned the maximum relative Technical Score (St) of 100 (Hundred). The formula for determining the relative technical scores (St) of all other Proposals is as follows:

St = 100 x Ta/ Ta-max,

in which "Ta-max" is the highest evaluated absolute Technical Score, "St" is the relative technical score calculated, and "Ta" is the absolute Technical Score of the proposal under consideration. This normalisation would avoid any unintended magnification of weightage to the financial score due to different scales of Technical Scores and Financial Scores.

2.2.4. The Financial Proposals are given a cost-score based on the relative ranking of prices, with the lowest evaluated Financial Proposal (Fm) being assigned the maximum financial score (Sf) of 100(Hundred). The formula for determining the financial scores (Sf) of all other Proposals is as follows:

Sf = 100 x Fm/ F, in which "Fm" is the price of the lowest offer, "Sf" is the financial score calculated, and "F" is the price of the proposal under consideration.

2.2.5. The weights given to the Technical (T) and Financial (P) Proposals are specified in Clause 3.2.1

2.2.6. Proposals would be ranked according to their combined QCBS (weighted technical, St and financial, Sf) scores as follows:

S = (St x T + Sf x P)/100,

in which "S" is the combined QCBS score, T (the weight given to the Technical Proposal) in %, and P (the weight given to the Financial Proposal) in % (with T + P = 100%).

2.2.7. All scores shall be calculated up to two decimal places only.

2.2.8. If two or more bids have the same highest score in the final ranking, the bid with a higher technical score will be considered as H-1.

3. Technical Proposal

3.1. The technical proposal should be submitted in Forms I(a) & I(b) detailed in the annexure. While preparing the technical proposal (the "Technical Proposal"), the bidder is expected to take into account the various requirements and conditions stipulated in this RFP document. The technical proposal should contain a write-up explaining the bidders understanding of the requirements, the proposed methodology, work plan, time schedule and the names of the Key personnel from consultant/agency.

3.2. The Technical Proposal shall not include any financial information relating to the Financial Proposal

3.3. Technical Evaluation/ Scoring Criteria

3.3.1. Criteria, sub-criteria, and point system for scoring the points for Technical Proposal (St):

S. No.	Parameter	Technical & Evaluation Criteria	Marks	Remarks
1(a)	Experience of the organization	Experience in providing consultancy services in IT and GIS domains	10	• Greater than 10 years: 10 marks • 5-10 years: 7.5 marks • >5 years: 5 marks
1(b)		Experience in providing consultancy services in IT & GIS domains to TN State Govt/ or any other State Government / GoI/ PSU/ Nationalised entities in the last 3 years. This experience should include successfully managing projects of a similar scale, diversity and complexity	10	• Greater than 5 projects: 10 marks • 5 projects: 7.5 marks • 3-5 projects: 5 marks • Less than 3 projects: 2.5 marks
1(c)		Organisation domicile	10	• At least one office in Chennai – 10 marks • At least one office in Tamil Nadu – 5 marks • Outside of TN – 2.5 mark
2.	Proposed Operating Mechanism - Design, Work Plan / Execution Strategy	Evaluation will be based on the presentation to be made by the Applicants. The date & time for Presentation would be conveyed through email	30	Marks would be given by the Evaluation Committee based on the merit of presentation
3	Projects handled	The Firm must have a specialist GIS team for development and continuous support. And the firm should have experience in the development of GIS-based platforms in multiple sectors especially those sections listed in TNLUIS	20	• More than 10 projects: 20 marks • 5-10 projects: 15 marks • Less than 5 projects: 10 marks
4	Profile of key personnel and their expertise	The Firm must have a robust organizational capacity with a minimum of 20 employees, including dedicated professionals specializing in IT, GIS, and project management or related domains and a team of domain experts as mentors to	20	• More than 10 Sectoral/domain experts with minimum of 5 research publications – 20 marks • 5 to 10 Sectoral/domain experts with minimum of 5

		regularly provide advise for this project (profile of key personnels and mentors to be provided).		research publication – 10 marks • Less than 5 Sectoral/domain experts with minimum of 5 research publication – 5 mark

4. **Financial Proposal**

4.1 The financial proposal (the "Financial Proposal") should be submitted in the Forms II(a) & II(b). The Financial Proposal shall be inclusive of all the costs including all applicable taxes associated with the assignment. It is clarified that, for the purposes of evaluation, the Financial Proposal should be prepared in INR. In submitting the Financial Proposal, the Bidder shall adhere to the following requirements:

4.1.1 All the costs i.e. total cost associated with the Assignment shall be included in the Financial Proposal. These shall normally cover remuneration for the Bidder's personnel proposed for this assignment and their administrative or other out-of-the pocket expenses etc. The total amount indicated in the Financial Proposal shall be without any condition attached or subject to any assumption, and shall be final and binding. In case any assumption or condition is indicated in the Financial Proposal, it shall be considered non-responsive and liable to be rejected.

4.1.2 The Financial Proposal shall take into account all the expenses and tax liabilities and cost of insurance, cost for engaging experts for this project propose levies and other impositions applicable under the prevailing law on the Bidders and their staff.

4.1.3 he Financial Proposal shall be submitted in accordance with the forms and templates provided in RFP document.

4.1.4 All payments to the Bidder shall be subjected to deduction of taxes at source as per applicable laws

4.1.5 The Applicant shall be responsible for all the costs associated with the preparation of their Proposals and their participation in the Selection Process including subsequent negotiation, visits to the SPC, Assignment site etc. The SPC will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Selection Process.

4.2 In case of any discrepancy between the amount quoted in figures and words, the amount quoted in words will be considered for

evaluation purposes. The proposal should be submitted as per the standard Financial Proposal submission forms prescribed in this RFP.

4.3 The Bidder may modify, substitute, or withdraw its Proposal after submission, provided that written notice of the modification, substitution, or withdrawal is received by Authority prior to Proposal Due Date (the "PDD"). **No Proposal shall be modified, substituted, or withdrawn by the Bidder on or after the PDD.** The modification, substitution, or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with the provisions of this RFP, with the envelopes being additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL", as appropriate.

4.4 Any alteration / modification in the Proposal or additional information or material supplied subsequent to the PDD, unless the same has been expressly sought for by SPC, shall be disregarded.

4.5 The rates and amounts indicated in the Financial Proposal shall be without any condition attached or subject to any assumption and shall be final and binding. In case any assumption or condition is indicated in the Financial Proposal, it shall be considered non-responsive and liable to be rejected.

4.6 SPC reserves the right of seeking additional information including copies of the other project completion report or Audited annual statement of accounts while examining individual cases.

5 Evaluation Committee

The Evaluation Committee (EC) appointed by the Authority will carry out the evaluation of Technical and Financial Proposals. The Evaluation Committee (EC) will scrutinize and determine if the proposals are complete and in accordance with the RFP. The Technical proposal will be evaluated as per the eligibility criteria and point system, and each responsive proposal will be attributed a technical score. Bidders scoring not less than 50% of the total points in Technical Proposal shall be qualified for opening of Financial Proposal and that of unqualified bidders shall not be opened. The SPC would invite those bidders who have secured the minimum qualifying mark for opening of the financial proposals indicating the date and time. The EC would evaluate if there were any computational errors in the financial proposal and in the case of discrepancy between figures and words, the amount quoted in words will be considered for evaluation purpose.

6. Bid validity

The Proposal shall be valid for a period of not less than 90 (Ninety) days from the PDD

7. Earnest Money Deposit (EMD)/ Bid security or Bid Securing Declaration (BSD) –

7.1. The bidder shall submit Earnest Money Deposit (EMD) of Rs.10,000/- (Rupees Ten Thousand Only) as integral part of the assignment. The EMD amount should be the exact amount and no excess or less amount should be furnished in the form of Demand Draft / Bank Guarantee issued by one the Nationalised / Scheduled Banks in favour of the AO, State Planning Commission payable at Chennai

7.2 Technical Bid (Pre-qualification tender application) not accompanied Earnest Money Deposit will be rejected as Non-Responsive Tender

7.3 This EMD will be refunded to the unsuccessful tenderer after completion of selection process or at the expiration of bid validity period of 90 days, whichever is earlier

7.4 The EMD of the successful tenderer will be refunded after the tenderer has furnished the required security deposit and signed the agreement.

7.5 If the tenderer withdraws his bid after issue of work order or after acceptance of work order or failure to execute the contract agreement or fails to pay the required Security Deposit amount within the time specified in the work order, the Earnest Money Deposit submitted with the Technical Bid will be forfeited.

7.6 No interest is payable on EMD by SPC

8. **RFP Processing Fee:** There is no processing fee for this RFP

9. **Number of Proposals:** No Bidder or its Associate shall submit more than one Application for the Consultancy

10. Right to reject any or all Proposals:

10.2. Notwithstanding anything contained in this RFP, SPC reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals or any of its components thereof, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

10.3. Without prejudice to the generality of above, SPC reserves the right to reject any Proposal if:

I. At any time, a material misrepresentation is made or discovered, or

II. The Bidder does not provide, within the time specified by SPC, the supplemental information sought by SPC for evaluation of the Proposal.

III. Such misrepresentation/improper response by the Bidder may lead to the disqualification of the Bidder. If such disqualification/ rejection occurs after the Proposals have been opened and the highest-ranking Bidder gets disqualified/ rejected, then SPC reserves the right to consider the next best Bidder, or take any other measure as may be deemed fit in the sole discretion of SPC, including annulment of the Selection Process

11. Deadline for submission

11.1 The last date of submission of proposal is 21.04.2025 (5.00 pm)

11.2 The address for submission of proposal is "The Member Secretary, State Planning Commission, Ezhilgam-V Floor, Chepuak, Chennai-5"

12. Pre-Bid Meeting: Not Applicable

13. Clarification and Amendment of RFP Document

13.1 At any time before the submission of Proposals, SPC may, for any reason whether at its own initiative or in response to clarifications sought by an Applicant, modify the RFP document by issuance of Addendum/Amendment. All amendments/ corrigenda will be posted only on SPC's Official Website. All such amendments will be binding on all Applicants

13.2. In order to afford the Bidders or Applicant a reasonable time for taking an amendment into account, or for any other reason, SPC may at its sole discretion, extend the Proposal Due Date.

14. Award of Contract

After selection, a Letter of Award (the LOA) will be issued, in duplicate, by SPC to the Successful Bidder and the Successful Bidder shall, within 3 (three) working days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof.

15. Signing of Contract

15.1 The Contract will be executed within 1 week after the receipt of the acknowledged copy of the LoA from the successful Bidder

15.2. The successful Bidder shall return the original copy of the Contract, duly signed, and dated, within 7 (seven) days from the date of receipt of the Contract, to the SPC by hand or registered/ speed post or by a suitable digital means

16. Commencement of Assignment:

The successful Bidder is expected to commence the Assignment on the date of Commencement of Services as prescribed in the LoA and/or the Contract. If the successful Bidder fails to either sign the LoA/Contract or commence the assignment as specified herein, the State Planning Commission may invite the second ranked Bidder for Contract signing

17. Works plan

Before the commencement of the Services, the Consultant shall submit a Work plan detailing the methods, schedule of delivery of services, and deployment plans for Personnel, Equipment and Materials for the execution of the services. The Services shall be carried out and monitored as per the approved Work plan as updated

18. Performance Security/ Performance Bank Guarantee

After the issue of the Letter of Award (LoA or the Contract) by SPC, the Consultant shall furnish to SPC, "Performance security" at 5% of the Contract Value to be appropriated against breach of the Agreement or for recovery of penalty/ liquidated damages. The Performance security would be returned to the Consultancy at the end after the expiration of the contract without any interest

19. Resolution of Disputes

All disputes and difference between the parties in connection with the contract or its interpretation, shall be settled amicably with best efforts. Beyond the efforts, the disputes would be governed by and construed in accordance with, the laws of India and the Courts at Chennai

20. Termination for Default/ Penalty/ Liquidated damages

SPC reserves the right to terminate the Contract in whole /part for default; impose Penalty in case of any delay/ deficiencies; recover Liquidated damages for Error/ Variations

21. Code of Integrity

The Agency and its Personnel shall observe the highest standards of ethics and shall not have engaged in and shall not hereafter engage in any corrupt practice, fraudulent practice, coercive practice, obstructive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices")

22. Force Majeure

Neither the SPC nor the Successful Bidder shall be liable to the other for any delay or failure in the performance of their respective obligations due to causes or contingencies beyond their reasonable control such as Natural phenomena and other causes like War, Accidents etc.

23. Schedule of the Selection Process

The Authority would endeavour to adhere to the following schedule:

Event Description	Date and Time
Bid Start Date	22.03.2025
Last date for receiving queries / clarifications	15.04.2025
Proposal Due Date (the PDD)	21.04.2025
Opening of Technical Proposal	Will be intimated
Opening of Financial Proposal	To be intimated to Technically Qualified Applicants

CHAPTER 2 - CONTRACT CONDITIONS

1. All the communications including intimation regarding 1st stage of tools development progress/ platform development completion/ Project Completion Report of the platform/white paper/research work etc. will be submitted to the Member Secretary, State Planning Commission by the Key personnel of the firm.
2. Copyright: SPC would hold all rights including the Intellectual Property Rights (IPR) for all the research studies/ white papers/research work/GIS module/Predictive modules created or developed under this project. Any use of these (data/module/model) as publication or as a tool / providing access to any unauthorised person/agency is strictly banned. The user manual/features of the TNLUIS tool shall be put up in the official website of SPC for wider circulation.
3. Adherence to Timelines: The assignment should be completed within the time line stipulated in the Letter of Approval (LoA) and in the Contract. Unless extension is approved by SPC in writing, the delay in submission of the project completion report beyond the stipulated time will attract penalty as per the penal provisions of the bond executed by the Bidder. This penalty shall be calculated on the released funds and would be deducted from the last/remaining instalment(s).
4. In case of any breach of the terms and conditions, the Bidder organization/ individual shall have to refund the released amount with penal interest compounded annually.
5. Officials from SPC may expected to see the progress of the tool's development at any stage, the firm should present those details to SPC on request.
6. The persons employed in the development project will be treated as the employees of the Bidder organization only. The conditions of their service will be governed in accordance with the rules and order of that Bidder organisation as applicable to such personnel.
7. The Bidder organisation or key personnel of the project/individual expert will not accept any financial assistance from any other source(s) for the same project assigned under the scheme.
8. The organisation shall take care of any requirements like accommodation, furniture, research, laboratory, equipment, secretarial & managerial staff and material required for the project. No additional budget for any such activities will be provided.
9. The names of the key personnel and firms will be specified in the Letter of Approval (LoA)
10. The Bidder Organisation or the key personnel or his associates or individual

expert or sub- Bidders or any personnel from the firm or related to the firm shall not share the data related to this work with any other person/organisation/firm as experts without the prior approval of the SPC. The work shall not be used by the key personnel or any experts or his associates or anybody else for any other purpose. Violation of these will invite legal action.

11. The Bidder shall make suitable arrangements for the safe custody of raw data and other documents related to the work. The SPC may ask for perusal/review of raw or processed data at any time. The data algorithm/model/simulation belongs to SPC.

12. During the work, there might be some changes in the scope of the work depending upon circumstances on mutual agreements only. The same may have to be carried out by the firm expert without any additional compensation

13. No other additional payment will be made for any purpose other than those specified in the project budget.

14. Plagiarism/Proprietary rights: The Bidder organisation may certify while submitting the deliverables that all the component of the project are original and has not been plagiarized/belongs to any others who own the proprietary rights for those. Subsequently, if anyone claims any proprietary rights on a later date, the bidder organisation will be held responsible for such claims and any legal or monetary claim/compensation will have to be borne by the Bidder organisation only.

15. Deliverables & Payment Schedule: The Terms of Reference (TOR) envisages the assignment to be undertaken in a time bound manner i.e. a maximum of 8 months. Time schedule for important Deliverables to be submitted to SPC and the payment schedule linked to the specified deliverables is given below:

S.No.	Deliverables	Timelines	Amount to be paid
1	On approval of the prototype of the platform and the UI and features of the nine modules	One month from date of inception	25% of contract value (5% will be withheld by SPC as security deposit which will be released one month after successful hosting of the platform in TNSDC server and made live and on issuing project completion certificate)
2	Completion of development of 6 modules	5 months from date of inception	25% of contract value

S.No.	Deliverables	Timelines	Amount to be paid
3	On approval and successful demonstration of the all the 9 modules and additional tools of TNLUIS platform	7 months from date of inception	25% of Contract value
4	On Successful hosting of the platform in TNSDC server after completion of all necessary security audits and made live	8 months from the date of inception	25% of Contract value

Technical Proposal Form I(a)

I. **Brief Description of the Firm**

1.	Name	:	
2.	Mailing Address (with Telephone /Mobile Number and E-mail address)	:	
3.	Permanent Address	:	
4	Sectors in which the Consultancy / Agency has experience *		
5	Years of Experience Consultancy/ Agency has experience *	:	
7	Details of the projects handled* (i) Last Five Years (ii) Beyond Five Years		
7	No. of Qualified people working in the Consultancy/ Agency		
8	Details of personnel to be deployed for this project**		

* Add separate sheet for each item if it needs to be elaborated.

**The Curriculum Vitae of the individual personnel should be enclosed.

II. Outline of recent experience on assignments of similar nature:

S. No.	Name of assignment	Main Objectives of the study	Owner or sponsoring authority	Details of the project (brief descriptiomn of technical details and the links/publications associated with that work)	Cost of assignment	Date of commencement	Date of completion	Completion Certificate submitted? (Y/N)
1	2	3	4	5	6	7	8	9

III. Composition of the Team Personnel and the task which would be assigned to each Team Member

1. Provide details of field structure and levels of supervision in the field along with their responsibilities (**Details shall be restricted to 1 page**).

2. **Key / Technical / Managerial Staff**

S.No.	Name	Position	Task assignment

3. **Support Staff**

S.No.	Name	Position	Task assignment

(**Details of Sl.No 2 & 3 together shall be restricted to 1 page**)

Technical Proposal Form I (b)

I. Work Plan Time Schedule

S.No	Item	Month-wise Activity							

II. A short note on the line of approach and methodology outlining various steps for this project.

III. Description on the Supervision and Quality Control Measures including data security.

Place:
Date:

Signature
Seal of Organization
(Authorized representation)

Financial Proposal

The financial proposal should include the schedule of price bid with cost breakup.

I. Schedule of Price Bid

Form –II(a)

Items	**Amount**	
	In figures	**In Words**
1. Proposed Budget		
2. GST @ …… %		
3. Total Budget		

Place:
Date:

Signature
Seal of Organization
(Authorized representation)

II. **Cost Estimate of Services**

Form -II (b)

S. No.	**Item head**	**Amount**	
		In figures	**In Words**
1	Development of TNLUIS platform with tools, predictive models, AI integration under 9 different modules and required spatial framework, database, security and user interface.		
2	Training and Support on successful deployment		
3	Operation & Maintenance Charges for three years		
	GST/Taxes (if any)		
	Total Budget (including GST)		

Place:
Date:

Signature
Seal of Organization
(Authorized representation)

Note:
1) The financial evaluation shall be based on the above Financial Proposal.
2) No escalation on any account will be payable on the above amount
3) All payments shall be made in Indian Rupees and shall be subject to applicable Indian laws after withholding taxes if any.

ANNEXURE: 1

Description of TNLUIS modules

The following parameters are mentioned for your reference and the parameters might not be explicit for the modules. All these modules can use the pre-existing tools and if required new tools can be created and for the creation of the tools SPC can support to get the data for the tools. In addition to the below mentioned parameters, consultant can also suggest the parameter to be created under each module.

1. Land use Land Cover Module

The Land Use and Land Cover (LULC) module

1. Collate and house all LULC data (provided by SPC) for a minimum of 10 years i.e from 2015 onwards. Current year (2025 should be carried out by the vendor if its not available from other authenticated source)
2. Automate Land Use Land Cover analysis for minimum 10 classes for coming years. It should include the classes under nine-fold land use classification as per the Land use statistics (MoSPI) - The nine-fold classification of land use - Forests, Area under Non-agricultural Uses, Barren and Un-culturable Land, Permanent Pastures, Land under Miscellaneous Tree Crops, Culturable Waste Land, Fallow Lands, Current Fallows, and Net Area Sown. In addition to this Built Area also to be included.

This module is expected to help identify information about the landscape of an area, making it highly useful for

1. Selection of land suitable for infrastructure projects, water conservation works, industries, agro forestry etc, as it comes with information about the soil, groundwater, buffer from habitations etc.,
2. Land use Land cover data will be readily made available to carry out any feasibility report

The following are the parameters/tools expected to be available in the LULC module of TNLUIS:

SNo	Module Name	Parameters / Tools
1	**LULC Module**	Yearly mapping of land use and land cover
2		Status of fallow land
3		Land suitability assessment
4		Annual Forest Cover Assessment
5		Urban tree cover assessment tool

2. Climate change Module

The climate module is expected to play a vital role in addressing climate-related issues at the state level, offering a comprehensive understanding of how climate change affects various sectors. By analyzing historical data and future projections, this

module helps assess the extent of climate impacts on ecosystems, agriculture, water resources, and human health.

1. Predictive modelling of climate vulnerable areas
2. Real time integration of Weather data from various authenticated sources

The following are the tools anticipated to be available in the Climate Change modules of TNLUIS:

SNo	Module Name	Parameters/Tools related to
1	**Climate Change Module**	Monsoon Pattern
2		Heat Stress, Urban heat islands, blue green infrastructure mapping
3		Rainfall data
4		Drought data
5		Flood data
6		Future Scenario of Climate Change Impact
7		Climate Risk Vulnerability Analysis

3. Disaster Management Module

The disaster module helps identify disaster-prone areas and enables prompt response to natural disasters. The module also helps determine the extent of areas affected by floods, landslides, and forest fires, as well as the underlying causes of these disasters. It also allows us to pinpoint vulnerable areas.

1. Predictive modelling of disasters based on historic data and other research-based simulations
2. Real time integration of Weather data from various authenticated sources

The following are the tools anticipated to be available in the Disaster Management modules of TNLUIS:

SNo	Module Name	Parameters
1	**Disaster Management Module**	Flood modelling / simulation in addition to historic data visualizations
2		Landslides
3		Forest Fire
4		Heat Waves
5		Drought
6		Air pollution
Exclusive tools for Western Ghats and coastal areas are also expected to be added.		

4. Coastal & Marine Resources Module

The coastal module provides a comprehensive analysis of coastal resources and effectively identifies vulnerable areas. It enables the assessment of coastal vulnerabilities, highlights high-risk zones, and supports the implementation of targeted strategies to mitigate coastal impacts. By examining factors such as erosion, sea-level rise, and storm surges, this module aids in planning and decision-making, promoting sustainable coastal management and resilience for both ecosystems and coastal communities.

The following are the tools anticipated to be available in the Coastal & Marine Resources Module of TNLUIS:

SNo	Module Name	Parameters
1	**Coastal & Marine Resources Module**	Sea Erosion
2		Sea Level Rise
3		Sea Surface Temperature
4		Sea Water Intrusion
5		Marine Resources
6		Blue Carbon and Mangroves

5. Forest Module:

The forest module plays a pivotal role in monitoring various aspects of forest health and management. By tracking changes in forest cover, analyzing forest fires, monitoring wildlife conservation, and implementing effective forest protection measures, this module contributes to sustainable forest land management. This comprehensive approach ensures the preservation of vital forest ecosystems, biodiversity, and the ecological balance of the region.

The following are the tools anticipated to be available in the Forest modules of TNLUIS:

SNo	Module Name	Parameters/Tools
1	**Forest Module**	Forest/Tree Cover Change
2		Forest Fire Vulnerability Model
3		Habitat Mapping Tool
4		Sacred Groves Mapping
5		Wetlands Monitoring
6		Mangrove Forest Monitoring
7		Agroforestry

6. Agriculture Module:

The agriculture module will provide invaluable insights to officials, empowering them to make informed decisions in this critical sector. By monitoring the state's agricultural patterns, this module will help identify pressing issues such as land degradation and declining agricultural productivity. This proactive approach will enable the implementation of targeted interventions, such as soil conservation measures, sustainable farming practices, and crop diversification, to enhance agricultural productivity and ensure food security. The following are the tools anticipated to be available in the agriculture module of TNLUNIS:

S.No	Module Name	Parameters
1	**Agriculture Module**	Fallow Land Mapping
2		Soil Degradation Analysis
3		Yield estimation
4		Crop Monitoring

7. Energy and Industry Module:

The energy and industry module plays a crucial role in identifying suitable locations for future installations, such as renewable energy infrastructure parks. By employing a scientific approach, this module ensures that the development of these installations does not negatively impact land management practices. By carefully analysing factors such as land use, environmental sensitivity, and grid connectivity, this module helps identify optimal locations that minimize environmental impact while maximizing energy production. The following are the tools anticipated to be available in the Energy and Industry module of TNLUIS:

S.No	Module Name	Parameters
1	**Energy and Industry Module**	Solar energy potential
2		Wind energy potential
3		Hydropower installations

8. Urban and Peri-urban Module:

Urbanization, while a sign of economic growth, often leads to rapid and unplanned development, resulting in significant environmental degradation and resource depletion. As cities expand, the pressure on peri-urban regions intensifies, leading them to face similar challenges as urban areas. To mitigate these negative impacts, it's imperative to closely monitor both urban and peri-urban regions. This module can be helpful in tracking changes in land use, population growth, and environmental indicators. This will enable policymakers to make informed decisions, implement effective policies, and safeguard the long-term sustainability of these regions.

The following are the tools anticipated to be available in the Urban and Peri-urban Modules of TTNLUIS:

SNo	Module Name	Parameters
1	**Urban and Peri-urban Module**	Urban & Peri-urban Analysis Tool & growth models
2		Tree Cover Status in Urban areas
3		Waterbody Change Detections
4		Flood Modules
5		Mapping of Urban Heat Island Effect
6		Air Pollution Monitoring
7		Groundwater Potential Mapping

9. Water Resources

Monitoring and evaluating the state's water capacity is crucial for addressing the numerous challenges posed by water scarcity. Water, a vital resource for agriculture, industry, and domestic use, necessitates careful management. To effectively tackle these challenges, the government must prioritize the monitoring of water bodies and water capacity. By closely monitoring water resources, the government can make informed decisions regarding water allocation, infrastructure planning, and public health measures. This proactive approach will significantly contribute to sustainable development, economic growth, and the overall well-being of the state's population. The following are the tools anticipated to be available in the water resources of TNLUIS:

S.No	Module Name	Parameters
1	**Water Resources**	Drainage Network
2		River Basin
3		Groundwater Potential
4		Surface Water Bodies Mapping
5		Blue Infrastructure

The Land Use Information System (TNLUIS) will adopt a phased approach to develop a robust and user-friendly platform that integrates diverse environmental and land-use data. Leveraging research by TNSLURB and collaborating institutions, TNLUIS will incorporate predictive models sourced from reputed organizations, customized to Tamil Nadu's needs. Where existing models are unavailable, new ones will be developed in partnership with leading research bodies under the guidance of TNSLURB.

24.03.2025

CORRIGENDUM

to "Request For Proposal (RFP) to undertake a Web Platform Development for Tamil Nadu Land Use Information System (TNLUIS)" notified on 22.03.2025

Sl.No.	Reference as per RFP	Contents of RFP	Amended Clause
1.	**Clause 7** Earnest Money Deposit (EMD)/ Bid security or Bid Securing Declaration (BSD)	7.1 The bidder shall submit Earnest Money Deposit (EMD) of Rs.10,000/- (Rupees Ten Thousand Only) as integral part of the assignment. The EMD amount should be the exact amount and no excess or less amount should be furnished in the form of Demand Draft / Bank Guarantee issued by one the Nationalised / Scheduled Banks in favour of the AO, State Planning Commission payable at Chennai	7.1 The bidder shall submit Earnest Money Deposit (EMD) of Rs.1,00,000/- (Rupees One Lakh Only) as integral part of the assignment. The EMD amount should be the exact amount and no excess or less amount should be furnished in the form of Demand Draft / Bank Guarantee issued by one the Nationalised / Scheduled Banks in favour of the AO, State Planning Commission payable at Chennai

Sd/-xx
Member Secretary, SPC