

REQUEST FOR PROPOSAL (RFP)

FOR

Selection of Consultancy Firm to Provide Project Management Support, Functional and Technical Study, Preparation of Functional Requirements Specifications (FRS) and Preparation of System Integrator Tender Documents for the Revamping and Integration of Tamil Nadu Pollution Control Board's Online Consent Management & Monitoring System (OCMMS)

RFP Ref No. TNPCB/4483/2026-ITW-1/2026, dt 22.10.2026



Tamil Nadu Pollution Control Board
No 76, Mount Salai, Guindy,
Chennai-600 032, email: tnpcb-chn@gov.in

October-2026

BID DATA SHEET

Sl. No.	Particular	Details
1	Name of Assignment	Selection of Consultancy Firm to Provide Project Management Support, Functional and Technical Study, Preparation of Functional Requirements Specifications (FRS) and Preparation of System Integrator Tender Documents for the Revamping and Integration of Tamil Nadu Pollution Control Board's Online Consent Management & Monitoring System (OCMMS)
2	Procuring Entity	Tamil Nadu Pollution Control Board (TNPCB)
3	Mode of Tender	Open RFP / e-Procurement
4	Form of Contract	Consultancy Services - QCBS
5	Number of Covers	Two Cover System: (i) Technical / Pre-Qualification Proposal; (ii) Financial Proposal
6	Tender Fee	Rs. 10,000
7	EMD / Bid Security	Rs. 1,80,000
8	Pre-Bid Meeting	03.11.2026
9	Last Date for Addendum	06.11.2026
10	Bid Submission Deadline	16.11.2026, 2:00 PM
11	Opening of Technical Proposal	16.11.2026, 3:00 PM
12	Technical Presentation	To be intimated to eligible bidders
13	Minimum Technical Score	70 out of 100
14	QCBS Weightage	Technical 80: Financial 20
15	Bid Validity	180 days from bid due date
16	Performance Security	5% of contract value / as applicable
17	Contract Period	8 months from the issue of Work Order
18	Proposal Language	English
19	Submission Portal	Tamil Nadu e-Procurement Portal / as notified in the Tender Notice

Sl. No.	Particular	Details
20	Contact	The Member Secretary, TNPCB, 76, Mount Salai, Guindy, Chennai - 600 032, Email: itwing@tnpcb.gov.in Mobile: 8056042179, 8925891934

IMPORTANT NOTICE

This tender procedure is governed by the Tamil Nadu Transparency in Tenders Act, 1998 read with Tamil Nadu Transparency in Tender Rules, 2000 as amended from time to time. In case of any conflict between the terms and conditions in the tender document and the Tamil Nadu Transparency in Tenders Act, 1998, the Tamil Nadu Transparency in Tender Act, 1998, read with Tamil Nadu Transparency in Tender Rules 2000 shall prevail.

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This RFP is not an agreement and is neither an offer nor invitation by the MEMBER SECRETARY, TNPCB, to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in preparing their technical proposals and financial offers pursuant to this RFP.

This RFP includes statements, which reflect various assumptions and assessments arrived at by the MEMBER SECRETARY, TNPCB, in relation to the Assignment. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for the MEMBER SECRETARY, TNPCB, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements, and information contained in this RFP may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements, and information contained in this RFP and obtains independent advice from appropriate sources. Information provided in this RFP to the Bidder (s) is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. THE MEMBER SECRETARY, TNPCB, accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

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Authorized manufacturer for the Assignment and THE MEMBER SECRETARY, TNPCB reserves the right to reject all or any of the Bidders or Proposals without assigning any reason whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by THE MEMBER SECRETARY, TNPCB, or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Bidder.

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1. NOTICE INVITING REQUEST FOR PROPOSAL

Tamil Nadu Pollution Control Board (TNPCB) invites proposals from eligible and experienced consultancy firms/agencies for selection of a Consultant to undertake the functional and technical study, Business Process Re-engineering, benchmarking, preparation of Functional Requirement Specification (FRS), preparation of the Request for Proposal/tender documents for selection of a System Integrator, assistance during System Integrator procurement, and project management/technical supervision of implementation of the revamped Online Consent Management and Monitoring System (OCMMS) until successful Go-Live.

The selection of the Consultant is proposed to be undertaken through a Quality and Cost Based Selection (QCBS) process under a two-cover system, subject to the applicable provisions of the Tamil Nadu Transparency in Tenders Act, 1998, the Rules made thereunder, as amended from time to time, and other applicable Government instructions.

Interested bidders shall submit their Technical and Financial Proposals in the formats prescribed in this RFP within the stipulated date and time online through the website www.tntenders.gov.in

2. DEFINITIONS AND ABBREVIATIONS

Term	Meaning
Board / TNPCB	Tamil Nadu Pollution Control Board
BPR	Business Process Re-engineering
Consultant	The consultancy firm selected under this RFP
FRS	Functional Requirement Specification
GIS	Geographic Information System
Go-Live	Production deployment and acceptance of the revamped OCMMS by TNPCB after completion of the prescribed readiness criteria
LIMS	Laboratory Information Management System
OCEMS	Online Continuous Emission Monitoring System
OCMMS	Online Consent Management and Monitoring System
OLGPRS	Online Grievance Petition Redressal System
OLMMS	Online Legal Monitoring and Management System
QCBS	Quality and Cost Based Selection
RFP	Request for Proposal
SI	System Integrator to be selected subsequently for development and

Term	Meaning
	implementation of the revamped system
UAT	User Acceptance Testing

3. BACKGROUND AND PROJECT CONTEXT

TNPCB is using the Online Consent Management and Monitoring System (OCMMS) since 2015 for online processing of Consent and Authorization-related applications and associated regulatory functions. The existing OCMMS was developed using Groovy-based technology and has been in operation for more than a decade.

Over time, regulatory requirements, industry categorization, application volumes, Board workflows, digital services, data requirements and technological expectations have evolved substantially. TNPCB therefore proposes to comprehensively revamp the existing OCMMS into a modern, scalable, secure, integrated, user-friendly and data-driven regulatory platform.

The proposed exercise is not intended as a mere technology migration. It shall include comprehensive study and redesign, wherever required, of the application forms, fields, workflows, validations, Consent and Authorization processing, inspections, e-Noting, regulatory/enforcement proceedings, reports, dashboards, database structures, integrations, system administration, user interfaces and data migration arrangements.

The revamped OCMMS is envisaged as the principal regulatory application of TNPCB and shall provide seamless integration/data exchange with other Board applications, including OLGPRS, OLMMS, LIMS, OCEMS and GIS, along with other existing/future applications and external Government/regulatory systems wherever required.

4. OBJECTIVES OF THE ASSIGNMENT

1. To undertake an independent and comprehensive As-Is study of the existing OCMMS and related digital applications of TNPCB.
2. To review the module-wise workflows, forms, fields, validations and proposed requirements prepared by TNPCB and refine/improve them through detailed study and consultation.
3. To undertake Business Process Re-engineering to simplify processing, reduce repetitive data entry, improve transparency, automate validations and improve user experience.
4. To benchmark the proposed TNPCB system with the OCMMS/digital regulatory system of the Gujarat Pollution Control Board (GPCB) and Maharashtra State Pollution Control Board (MSPCB) as a priority reference, and also study suitable systems implemented by other SPCBs/PCCs.
5. To integrate OLGPRS, OLMMS, LIMS, OCEMS, GIS and other identified systems with the revamped OCMMS, including implementation of Single Sign-On (SSO), centralized role-based access and a unified interface/dashboard for accessing the relevant activities and information of the connected systems through OCMMS.

6. To establish a unified Single Sign-On (SSO) and integrated user-access framework for OCMMS and the connected TNPCB applications, so that authorized users can access OCMMS, OLMMS, OLGPRS, LIMS, OCEMS, GIS and other integrated modules through a single set of credentials and, based on their role and authorization, view and access the relevant activities, information and functionalities of the connected systems through the OCMMS interface without requiring separate logins.
7. To prepare and oversee a comprehensive data cleansing, de-duplication, migration and integration strategy for complete migration of legacy data from the existing OCMMS to the revamped OCMMS, including identification and removal/merging of duplicate records, data cleansing, field mapping, validation, reconciliation, preservation of historical records and migration/linking/synchronization of relevant data from OLGPRS, OLMMS, LIMS, OCEMS, GIS and other identified systems without loss or duplication of valid data.
8. To design and define an automated Consent Fee Calculator within the revamped OCMMS, so that the applicable Consent fee is calculated automatically based on the relevant category, classification, capital investment, validity period, type of application and other applicable fee criteria/rules, thereby minimizing manual calculation and ensuring uniformity and accuracy.
9. To define the complete functional, technical, integration, security, database, data migration and non-functional requirements for the revamped OCMMS.
10. To prepare comprehensive FRS, system architecture, data migration strategy and other technical specifications.
11. To prepare the complete RFP/tender package for selection of a System Integrator for development, migration, integration, implementation, testing, deployment and support of the revamped OCMMS.
12. To assist TNPCB during the System Integrator procurement process.
13. To act as TNPCB's technical/project management consultant after selection of the System Integrator and supervise/monitor implementation against the approved RFP, FRS, contract, milestones and Service Level requirements until successful Go-Live.

5. TNPCB INPUTS TO THE CONSULTANT

TNPCB will provide the selected Consultant with the available requirement of functional flows, application forms, fields, validations, processing stages, Consent and Authorization workflows, e-Noting requirements, enforcement workflows, dashboards, reports, administrative requirements, integration requirements and other proposed functional/technical requirements.

These materials shall constitute a base input for the assignment and shall not be treated as final specifications. The Consultant shall independently evaluate their completeness, feasibility, interoperability, security, scalability and usability, identify gaps/redundancies and recommend improvements in consultation with TNPCB.

TNPCB shall also provide reasonable access, subject to security and confidentiality requirements, to relevant systems, documents, test environments, sample data, officers/users and technical personnel necessary for performance of the assignment.

6. DETAILED SCOPE OF WORK

6.1 As-Is Study of Existing OCMMS

The Consultant shall undertake a detailed functional and technical study of the existing OCMMS from both Industry/User and Board/Engineer perspectives. The study shall cover, inter alia:

- a. Industry registration, authentication and login; user profile and establishment details;
- b. Consent to Establish (CTE), Consent to Operate (CTO), Renewal of Consent Order (RCO), expansion/revision/extension and other applicable Consent processes;
- c. Waste Management Authorization modules and statutory returns;
- d. District Office, Zonal Office and Board Office processing flows;
- e. scrutiny, inspection, return/retrieval/resubmission, approval and issue of orders;
- f. e-Noting and movement of files/notes between officers;
- g. Letters Show Cause Notices, Directions, Revocation and other regulatory/enforcement proceedings;
- h. Consent fee payment, fee calculation and transaction reconciliation requirements;
- i. Admin Login, office/designation/post/role mapping, jurisdiction management and system administration;
- j. Industry Summary, dashboards, MIS and report formats;
- k. Annual Returns and other statutory reporting requirements;
- l. email/SMS/system-generated communications;
- m. database architecture, master data, document storage and audit history; and
- n. other functionalities identified during the study.

6.2 Gap Analysis Study

The Consultant shall review TNPCB's existing module/flow documents and carry out a detailed gap analysis to identify functional, process and usability improvements. Based on the findings, the Consultant shall refine and redesign the proposed system with simple, modern, intuitive and user-friendly pages/screens, while ensuring consistency across modules. The review shall include a comprehensive page-wise, field-wise and workflow-wise examination of the proposed system.

- a. Validate completeness and regulatory/technical feasibility of each module and workflow;
- b. identify missing functions, duplications, redundant fields and avoidable processing steps;
- c. refine application forms, officer screens, dashboards, reports, alerts and administrative controls;
- d. recommend suitable auto-population, master-data controls and dropdown-based inputs;
- e. recommend rule-engine/automated checks and validations wherever feasible;
- f. identify interoperability and integration requirements;
- g. identify requirements for data quality, auditability, traceability and user experience;

h. prepare finalized To-Be workflows and obtain TNPCB approval before finalizing FRS.

6.3 Regulatory Alignment and Automated Checks / Validations

The Consultant shall ensure that the proposed system is aligned with the applicable Acts, Rules, Waste Management Rules, statutory forms, Government Orders, Board Proceedings, revised categorization of industries and subsequent amendments, power delegations, siting criteria, standards, guidelines, Consent/Authorization requirements, statutory timelines and other applicable regulatory provisions.

For each proposed automated check/validation, the Consultant shall clearly specify the field/data element, validation logic, regulatory reference, source of data, conditions/exceptions, user-facing message and stage of workflow at which the validation shall operate.

6.4 Application Forms and Statutory Forms

The Consultant shall review the application and statutory forms relating to Consent under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 with reference to the applicable Rules and prescribed forms. Authorization applications, returns and other statutory forms shall similarly be reviewed with reference to the respective Waste Management Rules under the Environment (Protection) Act 1986. The digital forms shall capture statutory requirements while minimizing repetitive or unnecessary data entry.

6.5 Benchmarking of GPCB, MSPCB and Other SPCB/PCC Systems

Particular priority shall be given to detailed study of the OCMMS/digital regulatory system implemented by the GPCB, MSPCB, to the extent information and access are available. The Consultant shall also study relevant systems implemented by other SPCBs/PCCs.

The benchmarking shall examine, as applicable, registration, application forms, Consent/Authorization processing, consolidated applications, validations, inspections, e-Noting, regulatory proceedings, administrative controls, dashboards, reports, GIS and other integrations, architecture, database/data-management approaches and user experience.

The Consultant shall prepare a comparative assessment identifying the feature, source State/SPCB, advantages, limitations, suitability for TNPCB and recommendation for adoption/adaptation. No feature shall be recommended merely because it exists in another State; applicability to TNPCB's statutory and operational context shall be established.

6.6 Integration with OLGPRS, OLMMS, LIMS, OCEMS, GIS and Other Systems

The Consultant shall define functional and technical requirements for integration/data exchange with OLGPRS, OLMMS, LIMS, OCEMS, GIS, other TNPCB databases/applications and relevant external Government/regulatory systems.

For each integration, the Consultant shall define source and destination systems, data elements, workflow stage, purpose, frequency/synchronization mechanism, APIs/interfaces, authentication/authorization, master-data ownership, audit trail, error handling, logging, security and fallback requirements.

The architecture shall, as far as practicable, avoid data silos and repeated capture of information already available within TNPCB systems.

6.7 Single Sign-On and Unified Access

The Consultant shall study and define the requirements for implementation of a Single Sign-On (SSO) mechanism across OCMMS and the other identified TNPCB applications, including OLMMS, OLGPRS, LIMS, OCEMS, GIS and other systems, so as to eliminate the requirement for separate login credentials for each application.

The revamped OCMMS shall, to the extent technically feasible, function as the single entry point/unified portal for authorized TNPCB users, wherein, upon login to OCMMS, the user shall be able to access the relevant modules, activities, alerts, pendency, records and functionalities available in the connected applications based on the user's office, designation, role, jurisdiction and access privileges.

The Consultant shall examine and define:

- a. a common authentication and identity-management framework;
- b. Single Sign-On across OCMMS, OLMMS, OLGPRS, LIMS, OCEMS, GIS and other identified applications;
- c. centralized user, role and access management;
- d. mapping of users based on office, designation, post, jurisdiction and assigned role;
- e. role-based access to the connected applications/modules;
- f. a unified dashboard within OCMMS displaying relevant information, pendency, alerts and activities from the integrated systems;
- g. seamless navigation between OCMMS and the connected modules without requiring repeated authentication;
- h. synchronization of user profiles, roles and access privileges across the integrated systems;
- i. security, session management, authentication, authorization and audit-trail requirements for SSO;
- j. migration/mapping of existing user accounts and credentials, wherever required; and
- k. appropriate architecture for integrating the existing applications into the unified OCMMS environment.

The Consultant shall also examine whether the functionalities of the existing applications are to be integrated within the revamped OCMMS, accessed as interconnected modules through SSO, or suitably consolidated, and shall recommend the most appropriate architecture considering security, maintainability, interoperability and user experience.

6.8 Data Cleansing and De-duplication

The Consultant shall undertake a detailed assessment of the existing OCMMS database to identify duplicate, incomplete, inconsistent and erroneous records prior to migration. The Consultant shall define, oversee and validate the implementation of a comprehensive data cleansing and de-

duplication methodology, in coordination with TNPCB and the System Integrator, including identification of duplicate industry records, matching criteria, validation rules, master-record selection, merging of duplicate records, preservation of historical information and treatment of exceptional cases.

The Consultant shall ensure that de-duplication and cleansing are completed prior to/following migration, as applicable, so that the revamped OCMMS contains clean, consistent, accurate and non-duplicated master and transactional data. Appropriate reconciliation, audit trail and verification mechanisms shall also be prescribed to ensure that no valid historical data is lost during the cleansing and de-duplication process.

6.9 Data Migration and Database Management

Complete and accurate migration of legacy OCMMS data to the revamped system shall be treated as a critical project requirement. The Consultant shall assess the existing OCMMS and related databases and prepare a detailed data migration and synchronization strategy.

- a. Inventory of all legacy databases, schemas, masters, documents and historical records;
- b. field-level source-to-target mapping and transformation rules;
- c. data quality assessment, cleansing, deduplication and validation;
- d. migration of historical applications, processing history, Consent Orders, Authorizations, documents and audit records;
- e. database synchronization during transition and cut-over;
- f. reconciliation and acceptance criteria for completeness/accuracy;
- g. migration rehearsal, rollback, backup and recovery mechanisms;
- h. audit trail for migrated data; and
- i. linkage/integration of relevant OLGPRS, OLMMS, LIMS, OCEMS, GIS and other databases with the new platform.

6.10 Automated Consent Fee Calculation

The Consultant shall study the existing Consent fee calculation methodology followed by TNPCB and define the requirements for an automated Consent Fee Calculator to be incorporated in the revamped OCMMS.

The fee calculator shall automatically determine the applicable Consent fee based on the relevant parameters and fee rules applicable to the particular application, including, wherever applicable, industry category/classification, capital investment, type of Consent application, validity period, expansion/revision/renewal requirements and other parameters prescribed by TNPCB.

The Consultant shall:

- a. identify all fee-calculation rules and dependencies;
- b. prepare the detailed calculation logic and formulae;
- c. map the calculation with applicable Government Orders, Board Proceedings and fee schedules;
- d. provide for automatic recalculation where relevant application parameters are modified;

- e. provide appropriate validation/error messages;
- f. provide for display of the fee breakup to the applicant and Board officials;
- g. ensure auditability of the fee calculation; and
- h. provide for configurable fee rates/rules through the Admin module, wherever feasible, so that future changes can be incorporated without source-code modification.

6.11 Technical Architecture and Non-Functional Requirements

The Consultant shall define appropriate vendor-neutral and technology-neutral requirements, to the extent practicable, covering application architecture, database architecture, modularity, APIs, interoperability, scalability, performance, high availability, audit trails, role-based access control, cyber security, data security, privacy, logging, monitoring, backup, disaster recovery, business continuity, accessibility, responsiveness, deployment, hosting, environment segregation, source-code management, version control and other non-functional requirements.

6.12 Preparation of FRS

The Consultant shall prepare comprehensive FRS document based on the approved To-Be system. The documents shall unambiguously define every module, workflow, role, field, form, validation, report, dashboard, integration, interface, data requirement, security requirement, non-functional requirement and acceptance criterion necessary for development by the System Integrator.

The FRS shall include suitable process maps, use cases/user stories, role matrices, screen/field specifications, validation matrices, report catalogue, interface catalogue, data dictionary, integration requirements and traceability between TNPCB requirements and System Integrator deliverables.

6.13 Preparation of System Integrator RFP / Tender Documents

The Consultant shall prepare a complete, procurement-ready RFP/tender package for selection of the System Integrator. The package shall include, inter alia:

- a. detailed scope of work and technical specifications;
- b. FRS and approved architecture/integration requirements;
- c. data migration and database requirements;
- d. infrastructure/hosting and cybersecurity requirements;
- e. testing and acceptance requirements;
- f. implementation methodology, deliverables, milestones and schedule;
- g. manpower/team requirements;
- h. qualification, pre-qualification and technical evaluation criteria;
- i. financial bid structure and evaluation methodology;
- j. payment milestones;
- k. SLAs, KPIs, penalties/liquidated damages and acceptance criteria;
- l. training, documentation and knowledge-transfer requirements;
- m. source-code, intellectual property, escrow/repository, handover and exit-management requirements;

- n. warranty, support and Operation & Maintenance requirements; and
- o. contractual clauses required for successful implementation.

6.14 Support During System Integrator Procurement

The Consultant shall support TNPCB during the SI procurement process, including preparation of responses to pre-bid queries, corrigenda/amendment inputs, participation in pre-bid discussions, technical clarifications, bid compliance review, technical evaluation support, presentations/demonstrations, technical evaluation reports and other procurement-stage assistance required by TNPCB. Final procurement decisions shall remain with TNPCB.

6.15 Project Management and Implementation Support till Go-Live

The Consultant's engagement shall continue after selection of the System Integrator. The Consultant shall act as TNPCB's technical/project management consultant and shall monitor implementation against the approved RFP, FRS, SI proposal, contract, project plan, milestones and SLAs until successful Go-Live.

- a. Review the SI's project plan, architecture, detailed design, module designs, workflows, forms, UI/UX and technical documents.
- b. Ensure development is carried out in accordance with the approved RFP, FRS and contractual requirements.
- c. Monitor milestones, schedules, dependencies, risks, deliverables and resource deployment.
- d. Conduct/coordinate periodic review meetings and maintain issue, risk, action and decision trackers.
- e. Review SI deliverables and recommend acceptance/rework to TNPCB.
- f. Oversee and verify integrations with OLGPRS, OLMMS, LIMS, OCEMS, GIS and other identified systems.
- g. Oversee legacy-data migration, reconciliation, validation and synchronization.
- h. Verify implementation of automated checks, validations, dashboards, reports and workflow requirements.
- i. Review test strategy, test plans, test cases and results covering functional, integration, performance, security and regression testing.
- j. Assist TNPCB in User Acceptance Testing and maintain requirement-to-test traceability.
- k. Monitor closure of defects, observations and non-compliances.
- l. Review training plans, user manuals, administrator manuals, technical documentation and knowledge transfer.
- m. Review deployment, cut-over and rollback plans and production readiness.
- n. Carry out Go-Live Readiness Assessment and provide a formal recommendation to TNPCB. Final approval for Go-Live shall rest with TNPCB.

7. MILESTONES AND INDICATIVE TIMELINE

The Consultant shall carry out the assignment in a time-bound manner in accordance with the milestones indicated below. "T" shall denote the date of commencement of the consultancy services as specified in the Work Order/Agreement.

The timelines prescribed for Phase-I activities, including study of the existing systems, requirement finalization, benchmarking, BPR, preparation of FRS and preparation of the System Integrator RFP/Tender Document, shall be adhered to by the Consultant.

The timelines relating to System Integrator procurement and Phase-II implementation/PMC support shall depend on the tendering, selection and implementation schedule of the System Integrator. The Consultant shall continue to provide the required support during these stages until successful Go-Live of the revamped OCMMS.

Table 1: Milestone and Indicative Timeline

S No.	MILESTONE	Indicative Due Date
PHASE - I		
1	Inception Report, detailed work plan and stakeholder consultation plan	T + 1 week
2	As-Is Study, application/database assessment and Gap Analysis	T + 2 weeks
3	GPCB and other SPCB/PCC Benchmarking Report	T + 3 weeks
4	BPR recommendations and approved To-Be workflows/framework	T + 4 weeks
5	Draft FRS, integration architecture, data migration strategy and non-functional requirements	T + 5 weeks
6	Final FRS and technical specifications after TNPCB comments	T + 6 weeks
7	Draft SI RFP/Tender Document and cost-estimation framework	T + 7 weeks
8	Final SI RFP/Tender Document after TNPCB approval/comments	T + 8 weeks
PHASE - II		
9	SI procurement support	From SI RFP issue until award/contract execution
10	Implementation/PMC support	From SI commencement until

S No.	MILESTONE	Indicative Due Date
		successful Go-Live
11	Go-Live Readiness Assessment and Final Consultancy Report	At Go-Live

TNPCB will require interim presentations, working papers, module-wise reviews and revised versions of deliverables without additional cost where such revisions are necessary to incorporate comments or ensure completeness of the assignment.

8. CONSULTANT TEAM AND KEY PERSONNEL

The Bidder shall propose the Key Personnel specified below for carrying out the assignment. Each proposed Key Personnel shall satisfy the minimum educational qualification, total experience and specific experience requirements prescribed in this RFP. The qualifications, relevant experience and competence of the proposed Key Personnel shall also be considered as part of the Technical Evaluation under Section 12.

All Key Personnel proposed for the assignment shall be regular employees/on the payroll of the Bidder for a minimum period of six (6) months as on the last date of bid submission. Documentary evidence confirming the employment status of the proposed personnel shall be furnished as part of the Technical Proposal.

NIRF Ranking Requirement: The institution from which the proposed Key Personnel has obtained the prescribed qualifying degree shall have been ranked within the Top 100 institutions as per the National Institutional Ranking Framework (NIRF), Ministry of Education, Government of India, in any one of the years 2023, 2024 or 2025.

The Bidder shall furnish documentary evidence of the educational qualification of each proposed Key Personnel along with proof of the corresponding NIRF ranking of the institution.

The proposed Key Personnel shall possess adequate knowledge and experience relevant to their assigned roles and shall work in close coordination with TNPCB throughout the consultancy assignment.

Table 2: Consultant Team and Key Personnel

S.No	Role	Minimum qualification	Total experience	Specific experience required
1.	Team Leader	B.E./B.Tech/MCA in IT/CS from top 100 Engineering Colleges or top 50 universities in NIRF (2025, 2024, 2023)	15 years	Led at least 2 Similar Assignments as Team Leader / Project Director, including RFP preparation and PMC
2.	Solution / Technical Architect	B.E./B.Tech/MCA from top 100 Engineering Colleges or top 50 universities in NIRF (2025, 2024, 2023)	12 years	Designed at least 2 large web-based e-Governance or enterprise applications with API integration and legacy modernisation
3.	Functional / BPR / e-Governance Expert	B.E./B.Tech/MCA from top 100 Engineering Colleges or top 50 universities in NIRF (2025, 2024, 2023)	12 years	At least 2 assignments involving BPR, functional requirement analysis/FRS and workflow redesign for Government/e-Governance applications
4.	Data Architect and Migration Lead (Data Engineer)	B.E./B.Tech/MCA/M.Sc from top 100 Engineering Colleges or top 50 universities in NIRF (2025, 2024, 2023)	10 years	Led at least 2 large legacy data migration or data architecture assignments (RDBMS, ETL, data quality, master data, reconciliation)

S.No	Role	Minimum qualification	Total experience	Specific experience required
5.	AI/ML Engineer (AI and Automation Lead)	B.E./B.Tech/MCA/M.Sc from top 100 Engineering Colleges or top 50 universities in NIRF (2025, 2024, 2023)	10 years, of which 4 years in AI/ML	Delivered at least 2 production AI/ML, rules-engine or document-intelligence (OCR/NLP) solutions for validation, scrutiny or risk scoring; knowledge of explainability and responsible AI

The Bidder shall propose an appropriate deployment schedule for the Key Personnel commensurate with the activities and deliverables under each phase of the assignment. All Key Personnel need not necessarily be deployed on a full-time basis throughout the entire contract period; however, the Bidder shall ensure their availability in TNPCB's Corporate Office, Guindy, Chennai, at all stages where their respective expertise is required.

The Team Leader / Project Director shall remain responsible for the assignment throughout the contract period and shall ensure coordination among all experts and timely delivery of the assignment.

The Bidder shall furnish, as part of the Technical Proposal, a phase-wise staffing and person-month deployment plan for each Key Personnel. The deployment proposed in the Technical Proposal shall be binding on the selected Consultant, subject to modifications approved by TNPCB.

TNPCB may require the concerned Key Personnel to participate in meetings, technical reviews, presentations, System Integrator evaluation, design reviews, testing, UAT, data migration, security reviews and Go-Live readiness assessments, as applicable to their respective areas of expertise.

The Consultant shall ensure continuity of key personnel. Replacement of key personnel after award shall require prior written approval of TNPCB and shall be permitted only with personnel having equal or superior qualifications/experience, subject to contractual provisions.

9. ELIGIBILITY / PRE-QUALIFICATION CRITERIA

The Bidder shall satisfy all the eligibility and pre-qualification criteria specified below as on the last date for submission of bids. The criteria are mandatory and shall be evaluated on a Pass/Fail basis.

Only those Bidders who meet all the eligibility/pre-qualification requirements and submit the prescribed documentary evidence shall be considered for further Technical Evaluation.

The Bidder shall submit documentary proof in support of each criterion along with the Technical Proposal. TNPCB reserves the right to verify the credentials and supporting documents submitted by the Bidder directly with the concerned client organizations/authorities. Failure to meet any of the mandatory eligibility criteria or failure to furnish adequate supporting documents may render the bid liable for rejection.

Table 3: Eligibility/ Pre-Qualification Criteria

Sl. No.	Criterion	Requirement	Evidence
1	Legal Status	Bidder shall be a company/LLP/partnership/other eligible legal entity registered in India. No Joint venture/ tie-ups allowed.	Registration / incorporation documents
2	Years of Operation	Minimum 10 years in IT/e-Governance/technology consulting.	Certificate/organization profile
3	Financial Capacity	Average annual turnover from consulting/IT services of at least Rs. 10 crores during the last 3 financial years.	Audited financial statements / CA certificate
4	Similar Government / e-Governance Assignment Experience	The Bidder shall have completed/ongoing at least one assignment during the last 10 years for a Central Government/State Government Department, PSU, Statutory Body or Government Agency involving study/revamping/modernization of a Government portal or large e-Governance application. The assignment shall include substantial experience in As-Is study, Business Process Re-engineering (BPR), preparation of functional/technical requirements, preparation of RFP/tender documents for selection of a System Integrator, system integration planning, legacy data/database migration planning and project management/implementation monitoring of the System Integrator.	Work orders / contracts / completion or client certificates
5	Data Migration	The Bidder shall have experience in at least	Supporting

Sl. No.	Criterion	Requirement	Evidence
	Experience	one large IT/e-Governance assignment involving migration of legacy application/database data to a new or revamped system, including source-to-target mapping, data cleansing, validation, reconciliation, historical data migration and migration verification.	documents
6	NICSI Empanelment	The Bidder shall, as on the last date of bid submission, be a valid NICSI empaneled agency under the Consulting & Strategy service category relevant to the scope of this assignment.	Supporting documents
7	Blacklisting	Bidder shall not be blacklisted/debarred by any Central/State Government Department/PSU/Statutory Body.	Self-declaration
8	Conflict of Interest	Bidder and its affiliates shall disclose conflicts and shall comply with SI participation restrictions specified in this RFP.	Declaration
9	Tax Registration	Valid PAN, GST and other applicable registrations.	Certificates

Other conditions:

- a. The Bidder has not been blacklisted by any government authority in any jurisdiction to undertake its business operations.
- b. No insolvency/ bankruptcy proceedings have been initiated against the Bidder.
- c. The Bidder has not been subject to an administrative sanction in the past 5 years for fraud, corruption or for any other offense committed during a procurement process or performance of a contract.
- d. The Bidder has never failed to fulfil its obligations under any agreement it may have entered into, nor its contractual term has been terminated on account of quality of services rendered.
- e. The Bidder undertakes that there is no conflict of interest that may be likely to impact its obligations while submitting its Bid or fulfilling subsequent terms of agreement in furtherance of this RFP.
- f. The Bidders agree to submit Bids in format annexed as Annexure - K along with requisite documents/ information along with declarations in the format annexed as Annexures - I & J to ensure compliance with the Eligibility Criteria.

- g. No other information including any financial quotes or details are to be shared in the Technical Bid failing which the Bid shall stand cancelled.

10. CONFLICT OF INTEREST AND INDEPENDENCE

The Consultant will prepare the functional/technical specifications and the procurement documents for the System Integrator and will subsequently supervise/monitor the System Integrator. Accordingly, the selected Consultant shall maintain independence and avoid actual or potential conflicts of interest.

The selected Consultant, its parent/subsidiary/affiliate entities and personnel materially involved in this assignment shall not participate as the System Integrator or as a consortium member/subcontractor/key implementation partner of the selected SI for the same project. Any existing or potential conflict shall be disclosed immediately.

11. PROPOSAL SUBMISSION REQUIREMENTS

11.1 Cover 1 - Technical / Pre-Qualification Proposal

1. Letter of Proposal as per Annexure A;
2. Bidder profile and legal documents as per Annexure B;
3. Eligibility compliance statement and supporting evidence as per Annexure C;
4. similar assignment details as per Annexure D1 and Annexure D2;
5. Government/e-Governance project experience as per Annexure D;
6. proposed team composition and CVs as per Annexure F;
7. Approach & Methodology as per Annexure G;
8. work plan, schedule and staffing plan as per Annexure H;
9. presentation deck;
10. declarations/undertakings required under this RFP as per Annexure I and J; and
11. EMD/Bid Security and tender-fee proof, as applicable.

The Technical Proposal shall be properly indexed and paginated, and all documents, forms, supporting credentials and annexures shall be arranged and submitted in the same sequence as prescribed above. The Bidder shall provide a detailed index indicating the section/document name and corresponding page number for ease of verification and evaluation. The Technical Proposal shall not contain any financial information. Inclusion of price information in the Technical Proposal may render the bid liable for rejection.

11.2 Cover 2 - Financial Proposal

The Financial Proposal shall be submitted only in the prescribed BOQ on the e-Procurement portal. Prices shall be quoted in Indian Rupees and shall clearly indicate applicable taxes as required by the bid format.

12. TECHNICAL EVALUATION

Only Bidders who satisfy all the mandatory Eligibility / Pre-Qualification Criteria specified in this RFP under Section 9, shall be taken up for Technical Evaluation.

The Technical Proposals of the qualified Bidders shall be evaluated for a maximum of 100 marks based on the criteria specified below, covering the Bidder's relevant experience, proposed Key Personnel, Approach and Methodology, and Technical Presentation/Interaction.

The evaluation shall be based on the information, documents and supporting evidence submitted along with the Technical Proposal and the Technical Presentation made before the Committee constituted by TNPCB. TNPCB may seek clarifications or additional supporting information, wherever necessary, without permitting any material alteration of the Technical Proposal.

Marks shall be awarded only where the Bidder has submitted adequate documentary evidence demonstrating compliance with the respective evaluation criterion. Claims not supported by appropriate documentary evidence may not be considered for scoring.

The minimum qualifying technical score shall be 70 marks out of 100. Only the Financial Proposals of Bidders who obtain the prescribed minimum technical score shall be opened and considered for further evaluation under the Quality and Cost Based Selection (QCBS) methodology specified in this RFP.

Table 4: Technical Evaluation

Ref.	Evaluation Criterion	Max. Marks
A	Firm Experience and Similar Assignments	20
A1	Similar Government / e-Governance Assignment Experience (As per Sl.no 4. of Table 3 in Section 9)	10
	3 or more qualifying assignments	10
	2 qualifying assignments	8
	1 qualifying assignment	5
A2	Legacy Data Cleansing, De-duplication and Migration Experience (As per Sl.no 5. of Table 3 in Section 9)	10
	3 or more qualifying assignments	10
	2 qualifying assignments	8
	1 qualifying assignment	5
B	Key Personnel and Team Composition	25
B1	Team Leader / Project Director	5
B2	Functional / BPR / e-Governance Expert	5
B3	Solution / Technical Architect	5
B4	Data Architect & Migration Lead	5
B5	AI/ML Engineer (AI and Automation Lead)	5
C	Approach and Methodology	35
C1	As-Is Study, To-Be Process, BPR and refinement of TNPCB-proposed	4

Ref.	Evaluation Criterion	Max. Marks
	workflows/forms/requirements	
C2	GPCB/MSPCB/other SPCB benchmarking methodology	4
C3	Integration architecture including OLGPRS, OLMMS, LIMS, OCEMS, GIS, SSO, unified access and role management	7
C4	Data cleansing, de-duplication, legacy data migration, synchronization and reconciliation methodology	7
C5	Automated validations, regulatory checks and data-quality methodology using AI technology and automated consent fee calculation	7
C6	FRS, technical requirement specifications, SI-RFP preparation and implementation/PMC methodology till Go-Live	6
D	Technical Presentation / Interaction	20
	TOTAL	100

The minimum technical qualifying score shall be 70 marks out of 100. Financial Proposals of only technically qualified bidders shall be opened.

13. TECHNICAL PRESENTATION

Technically responsive bidders shall be required to make a Technical Presentation before a Committee constituted by TNPCB. The presentation shall comprehensively cover the Approach and Methodology submitted by the bidder under Annexure G, including all the proposed methodologies, strategies, work plans, staffing arrangements and implementation approaches forming part of the Technical Proposal.

The bidder shall specifically present its understanding of the assignment, As-Is study methodology, review and refinement of TNPCB requirements, BPR and To-Be process design, GPCB/other SPCB benchmarking approach, regulatory validations, integration and SSO architecture, data cleansing and de-duplication, legacy data migration, FRS and technical requirement preparation, SI-RFP preparation, SI procurement support, implementation supervision till Go-Live, quality assurance, risk management, governance and deployment of key personnel.

The presentation shall be consistent with and shall form part of the bidder's submitted Technical Proposal. Any material deviation from the Approach and Methodology submitted in the Technical Proposal shall not be considered during evaluation.

14. FINANCIAL PROPOSAL AND QCBS EVALUATION

The Financial Proposal shall be evaluated in accordance with the QCBS methodology specified below, subject to confirmation of the weightages before issue of the RFP.

For financial evaluation, the lowest evaluated financial proposal (Fm) shall receive a Financial Score (Sf) of 100. Other proposals shall be scored as: $Sf = 100 \times Fm / F$, where F is the evaluated price of the proposal under consideration.

The normalized Technical Score (St) and Financial Score (Sf) shall be combined using the approved QCBS weights. For a Technical:Financial weightage of 80:20, the Combined Score (S) shall be: $S = 0.80 \times St + 0.20 \times Sf$.

The bidder achieving the highest Combined Score shall be ranked first, subject to due diligence, approval and applicable procurement rules. In the event of a tie, the bidder with the higher Technical Score shall rank higher unless otherwise prescribed by applicable rules.

15. FINANCIAL BID STRUCTURE

The Bidder shall submit the Financial Proposal in the format specified below, quoting the applicable fees for each component of the assignment.

Table 5: Financial Bid

Item	Component	Price Basis
A	As-Is study, benchmarking, BPR, To-Be framework, FRS, architecture, integration and data-migration specifications (Phase – I)	Lump Sum
B	Preparation/finalization of SI RFP/tender package and SI procurement support up to award (Phase – I)	Lump Sum
C	Implementation/PMC support after SI commencement until Go-Live (Phase – II)	Monthly professional fee
D	Total Evaluated Financial Proposal	A + B + (C monthly rate x assumed evaluation months), exclusive/inclusive of taxes as specified in BOQ. Assumed evaluation months shall not exceed 6 months.

The Bidder shall quote the professional fee and applicable GST separately in the prescribed BOQ.

16. PROPOSED PAYMENT MILESTONES

The final payment schedule shall be linked to acceptance of deliverables. An indicative structure is provided below for internal finalization:

Table 6: Payment Milestones

Sl. No.	Milestone	Indicative Payment
1	Acceptance of Inception Report	5%
2	Approval of To-Be/BPR framework	20%

SI. No.	Milestone	Indicative Payment
3	Acceptance of Final FRS, architecture, integration and data migration documents	10%
4	Acceptance of Final SI RFP/Tender Package	30%
5	Completion of SI procurement support up to award/contract signing	20%
6	Implementation/PMC support	10%
7	Go-Live	5%

No payment shall be due merely upon submission of a deliverable. Payment shall become due only after acceptance/approval by TNPCB in accordance with the Contract.

17. PERFORMANCE SECURITY

The successful bidder shall furnish Performance Security of 5% of the contract value, in the form and validity prescribed by TNPCB and applicable procurement rules, within the period specified in the Letter of Award/Contract.

18. CONTRACT PERIOD AND DEPLOYMENT

The initial period of engagement of the Consultant shall be eight (8) months from the date specified in the Letter of Award/Agreement. The engagement shall cover the stages of Study → Requirement Finalization and BPR → Finalization of To-Be Processes → FRS and Technical Specifications → SI RFP Preparation → SI Procurement and Selection → SI Solution Design and Development → Integration → Data Cleansing and Migration → Testing → User Acceptance Testing (UAT) → Deployment and Go-Live.

The Consultant shall remain responsible for providing the required technical and project management support until successful Go-Live of the revamped OCMMS and submission and acceptance of the Final Consultancy Report.

19. GOVERNANCE AND REPORTING

The Consultant shall work under the direction of TNPCB and shall coordinate with the Committee/Working Group/nodal officers nominated by TNPCB. The Consultant shall maintain a structured governance framework including weekly/fortnightly progress reporting as directed, meeting minutes, requirement trackers, risk register, issue log, action tracker, decision log, deliverable register and requirement traceability matrix.

All significant recommendations, scope changes and technical decisions shall be documented and submitted for TNPCB approval. The Consultant shall not independently alter approved project scope or commit TNPCB to any commercial/contractual position.

20. CONFIDENTIALITY, SYSTEM ACCESS AND DATA SECURITY

The Consultant may be provided access to TNPCB systems, test logins, technical documents, databases, sample records and other information necessary for the assignment. Such access shall be strictly need-based and subject to TNPCB approval.

1. All information accessed during the assignment shall be treated as confidential and used solely for the purposes of the assignment.
2. Credentials provided by TNPCB shall not be shared with any unauthorized person.
3. The Consultant shall implement appropriate security safeguards and comply with TNPCB security instructions.
4. No TNPCB data shall be copied, transferred, hosted or processed outside approved environments without prior written approval.
5. Any actual or suspected security incident shall be reported immediately to TNPCB.
6. Confidentiality obligations shall survive completion/termination of the Contract.

21. INTELLECTUAL PROPERTY AND OWNERSHIP OF DELIVERABLES

All reports, workflows, requirement documents, FRS, data models, integration specifications, migration strategies, diagrams, tender documents, evaluation templates, monitoring reports and other deliverables specifically prepared under the Contract shall vest in TNPCB upon payment/acceptance, subject to the detailed Contract provisions. Pre-existing proprietary tools/materials of the Consultant, if any, shall be identified in the proposal and shall not restrict TNPCB's use of the project deliverables.

22. DELAY, NON-PERFORMANCE AND LIQUIDATED DAMAGES

The Consultant shall adhere to the approved project schedule. Delay attributable to the Consultant may attract liquidated damages/penalties at the rate and ceiling specified in the final Contract. Delay attributable to TNPCB, the System Integrator, force majeure or approved change requests shall be dealt with through documented schedule adjustments.

23. CHANGE CONTROL

Any material change to approved scope, deliverables, timelines, staffing or commercial terms shall be processed through a documented change-control mechanism and shall require prior written approval of TNPCB/competent authority. The Consultant shall assess the functional, technical, schedule and cost impact of proposed changes before approval.

24. TERMINATION

TNPCB may terminate the Contract for default, material breach, persistent non-performance, conflict of interest, confidentiality/security breach, insolvency or other grounds specified in the Contract, after following the prescribed procedure. Termination for convenience, if permitted, and consequences of termination shall be specified in the final Contract.

25. FORCE MAJEURE

Force majeure shall be governed by the provisions of the final Contract. The affected party shall promptly notify the other party and take reasonable steps to mitigate the effect of the event.

26. DISPUTE RESOLUTION AND JURISDICTION

Dispute resolution, arbitration if applicable, governing law and jurisdiction shall be specified in the final Contract. The procurement and Contract shall be governed by applicable laws of India and the State of Tamil Nadu. Courts at Chennai shall have jurisdiction, subject to the finalized contractual provisions.

27. GENERAL BID CONDITIONS

1. The bidder shall submit a complete proposal in the prescribed formats.
2. Bids received after the deadline or through modes not permitted by the tender notice shall be dealt with in accordance with applicable e-procurement rules.
3. TNPCB may seek clarifications without permitting material alteration of the bid.
4. Misrepresentation, suppression of material facts or submission of forged documents may result in rejection, forfeiture of security and other action under applicable rules.
5. TNPCB reserves the right to verify credentials directly with client organizations.
6. The selected Consultant shall comply with applicable laws, taxes, labour requirements and professional obligations.
7. No consortium/sub-consultant arrangement shall be permitted except as expressly allowed in the final RFP. Any proposed specialist sub-consultant shall require prior disclosure and approval.
8. The Consultant shall not assign the Contract without prior written approval of TNPCB.
9. TNPCB may require the successful bidder to enter into a formal agreement containing detailed terms consistent with this RFP and accepted proposal.

28. ANNEXURES / PROPOSAL FORMS

The Bidder shall be required to furnish documents/ information (including those stated in Annexures (A-L), previous work orders and assignment completion reports, CVs of the proposed team members, etc.) in support of each evaluation parameter for the purpose of validation of the Bids submitted under this RFP. The TNPCB may ask for any other documents/ information if needed during evaluation of Bids. Acceptance of any document/ Bid does not mean acceptance of the offer of the Bidder or the selection of the Bidder as Consultant under this RFP.

ANNEXURE A - LETTER OF PROPOSAL

To
The Member Secretary
Tamil Nadu Pollution Control Board
76, Mount Salai, Guindy, Chennai - 600 032

Sub: Proposal for Selection of Consultancy Firm to Provide Project Management Support, Functional and Technical Study, Preparation of Functional Requirements Specifications (FRS) and Preparation of System Integrator Tender Documents for the Revamping and Integration of Tamil Nadu Pollution Control Board's Online Consent Management & Monitoring System (OCMMS) - Reg.

Sir/Madam,

Having examined the RFP and all addenda/corrigenda, we hereby submit our proposal for the above consultancy assignment. We confirm that the information furnished is true and complete, that our proposal shall remain valid for the prescribed period, and that we shall comply with the terms of the RFP and Contract if selected.

We confirm that no financial information has been included in the Technical Proposal and that we have disclosed all actual/potential conflicts of interest.

Yours faithfully,
Authorized Signatory

Name:

Designation:

Bidder:

Date:

ANNEXURE B - BIDDER PROFILE

Sl. No.	Particular	Bidder Response
1	Legal Name of Bidder	
2	Registered Office Address	
3	Year of Incorporation/Registration	
4	Legal Status	
5	PAN	
6	GSTIN	
7	Authorized Signatory	
8	Contact Person	
9	Email / Phone	
10	Website	
11	Number of Employees / Consultants	
12	Key Practice Areas	

ANNEXURE C - ELIGIBILITY COMPLIANCE

Sl. No.	Criterion	Compliance (As per the Requirement specified in Table 3 of Section 9)	Reference to Supporting Document
1	Legal Status	Yes/No	
2	Years of Operation	Yes/No	
3	Financial Capacity	Yes/No	
4	Similar Government / e-Governance Assignment Experience	Yes/No	
5	Data Migration Experience	Yes/No	
6	NICSI Empanelment	Yes/No	
7	Blacklisting Declaration	Yes/No	
8	Conflict of Interest Declaration	Yes/No	
9	Tax Registrations	Yes/No	

ANNEXURE D1 - Similar Government / e-Governance Assignment Experience

Sl. No.	Client	Assignment	Scope / Relevance	Contract Value	Period	Evidence
1						
2						
3						

ANNEXURE D2 - Data Migration Experience

Sl. No.	Client	Assignment	Scope / Relevance	Contract Value	Period	Evidence
1						
2						
3						

ANNEXURE E - TEAM COMPOSITION

Sl. No.	Name	Proposed Role	Qualification / Experience	Indicative Deployment
1				
2				
3				
4				
5				

ANNEXURE F - FORMAT FOR CV OF KEY PERSONNEL

Sl. No.	Particular	Details
1	Name	
2	Proposed Position	
3	Educational Qualification	
4	Professional Certifications	
5	Total Experience	
6	Relevant Experience	
7	Current Employer/Position	
8	Relevant Assignments	
9	Role in Proposed Assignment	
10	Availability / Deployment	

ANNEXURE G – APPROACH AND METHODOLOGY

The Bidder shall submit a concise but comprehensive technical note explaining its proposed approach and methodology for undertaking the assignment. The technical note shall cover, at a minimum, the following:

1. Understanding of TNPCB's Existing OCMMS and Revamping Objectives:

Understanding of the existing OCMMS, associated applications, current challenges, TNPCB's proposed requirements and the objectives of the proposed revamping exercise.

2. As-Is Study and Stakeholder Consultation Methodology:

Proposed methodology for detailed study of the existing OCMMS and connected systems from both Industry/User and Board/Engineer perspectives, including stakeholder consultations and documentation of existing workflows, forms, fields, processing stages and system functionalities.

3. Business Process Re-engineering (BPR) and To-Be Process Design:

Methodology for simplification and redesign of processes, reduction of repetitive data entry, auto-population of available data, workflow optimization, improvement of transparency and user experience, and preparation of finalized To-Be processes.

4. Regulatory Alignment and Automated Validation Methodology:

Approach for identifying and incorporating automated checks and validations using recent AI technologies based on applicable Acts, Rules, Waste Management Rules, statutory forms, Government Orders, Board Proceedings, revised industry categorization, siting criteria, standards, guidelines, timelines and other regulatory requirements.

5. Benchmarking of GPCB and Other SPCB/PCC Systems:

Methodology for detailed study of the OCMMS/digital regulatory system implemented by the Gujarat Pollution Control Board as the priority reference, along with suitable systems implemented by other SPCBs/PCCs, and identification of features/best practices suitable for adoption by TNPCB.

6. System Integration, Single Sign-On and Unified Access Architecture:

Proposed approach for integration of OCMMS with OLGPRS, OLMMS, LIMS, OCEMS, GIS and other identified systems, including:

- a. API/data-exchange architecture;

- b. Single Sign-On (SSO);
- c. centralized identity and access management;
- d. role-based access;
- e. unified OCMMS dashboard/access point;
- f. synchronization of user roles and privileges; and
- g. seamless access to relevant activities and information of connected systems without separate logins.

7. Data Cleansing and De-duplication Methodology:

Approach for assessment of the existing OCMMS database to identify duplicate, incomplete, inconsistent and erroneous records, including duplicate-detection criteria, data matching, master-record selection, merging/de-duplication, preservation of historical records, validation, reconciliation and audit trail.

8. Legacy Data Migration, Database Integration and Synchronization:

Approach Methodology for complete migration of legacy OCMMS data to the revamped OCMMS, including source-to-target mapping, transformation, cleansing, validation, reconciliation, migration testing, rollback, historical data preservation and verification. The approach shall also cover migration/linking/synchronization of relevant data from OLGPRS, OLMMS, LIMS, OCEMS, GIS and other identified databases.

9. Automatic Consent Fee calculation:

The Bidder shall describe its methodology for studying the existing Consent fee structure and for designing an Automated Consent Fee Calculator in the revamped OCMMS. The proposed methodology shall provide for automatic calculation of Arrear Consent Fee, Current Consent Fee and Advance Consent Fee based on the applicable Gross Fixed Assets (GFA) of the industry, the number of years of Consent validity applied for / applicable, industry category/classification, type of Consent application and other relevant fee rules prescribed by TNPCB. The methodology shall also cover mapping of applicable Government Orders, Board Proceedings and fee schedules; automatic determination of the applicable fee slab; year-wise fee computation; automatic recalculation whenever relevant parameters such as GFA or validity period are modified; display of a clear breakup of arrear, current and advance fees to the applicant and Board officials; audit trail of the calculation; and provision for configurable fee rates/slabs through the Admin module to accommodate future revisions without source-code modification.

10. Functional Requirement Specification and Technical Requirement Preparation:

Methodology for preparation of the comprehensive Functional Requirement Specification (FRS) and associated technical requirement documents, including workflows, roles, forms, fields,

business rules, validation matrices, report catalogue, interface catalogue, data dictionary, integration requirements, security requirements, migration requirements, non-functional requirements and acceptance criteria.

11. Technical Architecture, Security and Non-Functional Requirements:

Approach for defining system architecture, interoperability, scalability, performance, API architecture, authentication, authorization, cybersecurity, audit logs, data security, backup, disaster recovery, business continuity, hosting/deployment and other non-functional requirements.

12. System Integrator RFP/Tender Preparation Methodology:

Methodology for preparation of the complete procurement-ready RFP/tender package for selection of the System Integrator, including eligibility criteria, technical specifications, evaluation methodology, deliverables, milestones, payment terms, SLAs, acceptance criteria, testing requirements, data migration requirements, security requirements, contractual conditions and O&M/support requirements.

13. System Integrator Procurement Support Approach:

Proposed methodology for supporting TNPCB during the SI procurement process, including pre-bid clarifications, technical responses, bid evaluation, compliance assessment, presentations/demonstrations and technical evaluation reporting.

14. Project Management and Implementation Supervision Methodology till Go-Live:

Approach for monitoring and supervising the System Integrator after award, including review of:

- a. project plan;
- b. detailed solution architecture;
- c. SRS prepared by the System Integrator;
- d. module designs and workflows;
- e. integrations and SSO;
- f. data cleansing and migration;
- g. automated validations;
- h. security implementation;
- i. testing and UAT;
- j. defects/non-compliances;
- k. training and documentation;
- l. deployment and cut-over; and
- m. Go-Live readiness.

15. Quality Assurance, Requirement Traceability and Acceptance Methodology:

Approach for ensuring traceability of TNPCB requirements from FRS through SI SRS, development, testing and final acceptance, including requirement traceability matrix, deliverable reviews, quality checks and acceptance criteria.

16. Project Governance, Risk Management and Change Control:

Proposed governance framework, reporting mechanism, review meetings, issue/risk/action tracking, escalation mechanism, change-control methodology and coordination with TNPCB and the System Integrator.

17. Staffing and Phase-wise Deployment Methodology:

Proposed deployment of the Team Leader and Key Personnel across the study, FRS/RFP preparation, SI procurement and implementation phases, including person-month deployment at TNPCB Corporate Office, Guindy, Chennai and availability of specialist experts at critical stages.

ANNEXURE H - WORK PLAN AND STAFFING SCHEDULE

Sl. No.	Activity / Deliverable	Start	Finish	Key Personnel
1				
2				
3				
4				
5				

ANNEXURE I - BLACKLISTING / DEBARMENT DECLARATION

We hereby declare that the bidder is not blacklisted/debarred as on the bid due date by any Central Government/State Government Department, PSU or statutory body, except as specifically disclosed below:

We understand that any false declaration may result in rejection/termination and other action under applicable rules.

Authorized Signatory: Date:

ANNEXURE J - CONFLICT OF INTEREST DECLARATION

We have reviewed the conflict-of-interest requirements of the RFP and disclose the following actual/potential conflicts, if any:

We undertake to immediately disclose any conflict arising during the assignment and to comply with TNPCB's directions for mitigation.

Authorized Signatory: Date:

ANNEXURE K - FINANCIAL PROPOSAL FORMAT

Financial Proposal shall be submitted only through the prescribed financial bid/BOQ on the e-Procurement portal. The structure below is indicative and shall be aligned with the final BOQ.

Item	Component	Price Basis
A	As-Is study, benchmarking, BPR, To-Be framework, FRS, architecture, integration and data-migration specifications (Phase – I)	Lump Sum
B	Preparation/finalization of SI RFP/tender package and SI procurement support up to award (Phase – I)	Lump Sum
C	Implementation/PMC support after SI commencement until Go-Live (Phase – II)	Monthly professional fee
D	Total Evaluated Financial Proposal	A + B + (C monthly rate x assumed evaluation months), exclusive/inclusive of taxes as specified in BOQ. Assumed evaluation months shall not exceed 6 months.

Taxes shall be quoted/treated as specified in the e-Procurement BOQ and Bid Data Sheet. In case of discrepancy, the e-Procurement financial bid shall prevail.

ANNEXURE L - INDICATIVE MONTHLY PMC REPORT CONTENTS

- Executive summary and overall project status;
- progress against approved baseline schedule and milestones;
- deliverables submitted/reviewed/accepted/rejected;
- requirement compliance and traceability status;
- integration status;
- data migration status and reconciliation results;
- quality/testing/UAT status;
- security/compliance status;
- open issues, risks, decisions and actions;
- delays/dependencies and corrective action;
- SLA/KPI status, where applicable;
- planned activities for next reporting period; and
- matters requiring TNPCB decision/approval.