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NOTICE INVITING e-TENDER

e-Tender are invited from reputed SIs for a SITC work related to sensory devices across the state of West Bengal with data simulation at H.Q under the e-Governance solutioning modalities. Reputed bidders having sufficient experience and credentials for successful completion of "Similar Nature" of work in a Government Department/PSU/Autonomous Body.

1.	Tender No. & Date	WTL/PHE/WC/24-25/013 dated 25.09.2024
2.	Tender Version No.	1.0
3.	Brief description of material	SITC work related to sensory devices across the state of West Bengal with data simulation at H.Q under the e-Governance solutioning modalities.
4.	Tender Fee	Rs.6000.00 (Rupees Six thousand only). The amount to be transferred online through e-tender portal.
5.	Earnest Money Deposit	Rs. 400000.00 (Rupees Four lakh only). The amount to be transferred online through e-tender portal.
6.	Date of Downloading/Sale of Tender document	25.09.2024
7.	Pre-Bid Meeting date & time	03.10.2024 at 12.00 Hrs. (On-Line Meeting) <ul style="list-style-type: none">• Pre-Bid meeting will be organizing online platform only.• Only queries as per format (Section - N) reaching WTL by 01.10.2024 at 15.00 Hrs. will be taken for decision.• Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time, then will inform.• Only queries as per format (Section - L) reaching WTL by 01.10.2024 at 15.00 Hrs. will be taken for decision.• Queries will be sent to Purchase Department (purchase@wtl.co.in)
8.	Bid Submission Start date & time	10.10.2024 at 13.00 hrs.
9.	Last date & time of EMD & Tender Fee submission intimation.	Before Uploading of Tender
10.	Last date & time of Bid Submission	22.10.2024 at 12.00 hrs.
11.	Date & time of Technical Bid Opening	24.10.2024 at 12.00 hrs.
12.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
13.	Contact person	033-23673403-06

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1. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Necessary Tender fee may be remitted online through e-tender portal in favour of “Webel Technology Limited” and also to be documented through e-filing. Necessary Earnest Money Deposit (EMD) may be remitted online through e-tender portal in favour of “Webel Technology Limited” and also to be documented through e-filing.
2. Both Techno Commercial Bid and Financial Bid are to be submitted concurrently duly digitally signed in the website <https://wbtenders.gov.in>.
3. Tender documents may be downloaded from website and submission of Techno Commercial Bid and Financial Bid will be done as per Time Schedule stated in Section – C of this Tender Document.
4. The Financial Bid of the prospective Bidder will be considered only if the Techno Commercial Bid of the bidder is found qualified by the Tender Committee. The decision of the ‘Tender Committee’ will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.
5. All clarifications / corrigenda will be published only on the <https://wbtenders.gov.in>.

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SECTION – A

SCOPE OF WORK

WTL wants to have a pool of agencies who will be responsible for the SITC job and data collation from the devices installed at H.Q. The objective is to have an integrated monitoring solution where the back-end connects to sensory devices at the rural PWSS.

SITC of IoT Deployment including Design, Implementation & Maintenance with Centralized IoT Platform for Water Supply Quality & Quantity Monitoring in State of West Bengal.

It includes all associated activities of Survey, BOM preparation, sizing, customization, installation, integration, training, and go-live with culmination of data feed of the site at the central dashboard.

The cost of material, labour and all associated accessories are part and parcel of I&C along with support of the same for the next 12 months.

Survey:

The selected SI's shall also have the relevant responsibility to map the designated quantity allocated locations for creation of final and accurate BOQ and such there is no additional cost allocated for such survey, it has to be included in the I&C.

Cost of Networking for IoT Devices:

The cost of the network connectivity either via 4G enabled IoT Sim cards as per TRAI regulations including failsafe mechanism of fallback against multiple MSP to ensure real-time data availability and transferability is to be considered as scope of the SI. The same scope includes such connectivity for 12 months from date of Go-live.

Sample layout of one such location attached for understanding of I&C

O&M is to start from Go-live till the end of 12 month - it is comprehensive in nature and does not have any exclusions.

Scope of Work (SOW) for Potable Water Management System Dashboard

1. Overview

This Scope of Work (SOW) outlines the requirements for developing a comprehensive Potable Water Management System Dashboard. The dashboard will support the management, monitoring, and analytics of potable water supply systems across various districts and divisions, enabling stakeholders to make data-driven decisions.

2. Key Objectives

The main objectives of the system include:

Enabling real-time monitoring of water supply parameters.

Providing data analytics and reporting functionalities.

Ensuring data security and role-based access control for various user levels.

Allowing seamless Single Sign-On (SSO) functionality for users.

3. Functional Requirements

3.1 User Authentication & Access Controls

Implement SSO login functionality with role-based access for different user levels.

The system should allow role-based views for the following levels:

State-level Headquarters (HQ) Users

Engineers (Sub, Executive, Assistant, Junior)

3.2 Landing Page & Map Views

The landing page should feature a geotagged map displaying potable water schemes.

Sensor locations, district, division, and scheme data should be shown with appropriate hyperlinks for further details.

3.3 Analytics Dashboard

Provide KPI-based analytics for various water system parameters, including:

Total Water Outflow

Benefitted Households

Power Consumption

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Water Quality Indicators (pH, Turbidity, Residual Chlorine)
Energy Consumption Indicators
Groundwater Level
Users should be able to filter analytics based on location and date ranges.

3.4 Map Views with Pump & Scheme Details

District, Block, Scheme Type, Pump House, and Sensor filters should be available.

Detailed data on pumps, such as operational hours, water pressure, total water outflow, and energy consumption, should be available on clicking specific locations on the map.

4. KPIs for Scheme Monitoring

Key Performance Indicators (KPIs) for monitoring water schemes will include:

Pump Operations: Duration and frequency of operation.

Water Quality: pH, Turbidity, Total Dissolved Solids, and Residual Chlorine.

Water Supply: Litre per capita per day (lpcd), static and pumping water levels, and total water outflow.

5. Alerts & Notifications

The system will generate alerts based on specific thresholds for parameters like pump operations, pH levels, turbidity, and residual chlorine.

Vulnerability matrices will be calculated using severity and probability factors, and displayed at the district, division, and scheme levels.

6. Reporting & Download Features

Users should be able to download reports in PDF and Excel formats.

Scheme vulnerability reports and operational performance reports should be automatically generated and available on a monthly basis.

7. Master Data Management

A master data screen will allow users to view all sensor details, including locations and status.

8. Security & Data Privacy

Ensure secure login through SSO, role-based access control, and adherence to data privacy standards.

All users should have access only to data relevant to their level of authorization.

9. Deliverables

Fully functioning Potable Water Management Dashboard with all the described features.

Complete user and technical documentation.

Training and onboarding for system users.

Ongoing support and maintenance.

1) Cloud Hosting Management and IoT services

- a. Develop, deploy, and maintain a cloud hosted centralized IoT platform to ingest telemetry data from on-field devices and gateways (direct from device).
- b. Define a scalable solution architecture and deploy and maintain key cloud services successfully running IoT service (device to cloud telemetry and cloud to device commands) and an IoT-enabled analytical engine – including ingestion, storage, compute, and IoT services such as device management, bulk device provisioning, security, data processing, analytics etc.
- c. Define data standards (e.g., data payload format) for each type of sensor so that data from every village in the State is consistent and compliant with Centre Cloud
- d. Define standardized and scalable data formats across multiple secure protocols for IoT networking such as MQTT, AMQP, CoAP, HTTPs etc. to support edge devices as well as constrained environments
- e. Develop a framework to ensure data formats are extensible for new sensors to be added over time and supports variations across States
- f. Develop a self-service-based onboarding of device / IoT solution vendors that allows seamless registration, review, and approval of devices to enable a plug-n-play deployment on ground
- g. The SI shall be responsible for deploying the entire Solution on Cloud Service Provider.

2) Application layer

- a. virtual deployment of ICC – Integration of IoT platform with Integrated Command Centre (ICC) / Digital wall to monitor and manage the objectives of the project and long-term monitoring and control
- b. **Build dashboards for different user groups** - State/ District/ Block/ Village level templated front-end applications that include dashboards, remote monitoring interface, alerting mechanism, GIS views, reporting etc.
An indicative (non-exhaustive) list of dashboards / KPIs for different user groups has been provided in the table below

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Note: The above is indicative and the final format will be determined in consultation with the respective division / department

Level	Sample Dashboard Reports / KPIs
State Government	Scheme functionality statistics by Districts (Number of functional vs. non-functional schemes, number of non-functional days); Number of schemes at >=55 LPCD across Districts;
	Average time duration of water supplied per day by District; Number of outages / water contamination incidents over time per District.
District (or Division, Block, Mouza)	Scheme functionality statistics by Blocks / Villages / Habitations (Number of functional vs. non-functional schemes, number of non-functional days); Number of outages / water contamination incidents over time per Village;
	Demand vs. supply by Blocks / Villages;
	Non-revenue water by Blocks / Villages.
Execution layer of government officials	Scheme functionality by Villages/ Habitations/ Schemes (detailed view on individual schemes, number of functional vs. non-functional schemes, number of non-functional days); Service delivery by Villages/ Habitations/ Schemes – LPCD supplied, hours of supply, and quality of water;
	Demand vs. supply by Villages/ Habitations/ Schemes;
	Ground Water level.
Utility and Scheme Operators/ employee of utility (e.g., pump operators, linemen)	Water source level, Daily ground water withdrawal;
	Scheme functionality (status and number of non-functional days);
	Quality of water supplied (pH, Turbidity, Residual Chlorine); Total water supplied per day per habitation (KL);
	Quantity consumed per household (LPCD);
	Time-duration of water supplied per day (Hours); Pump performance (throughput, hours of operation, temperature, electricity consumed, vibrations);
	Process loss due to leakage, Pressure at end-nodes; Water outage (line disruption) / water contamination incidents.
Citizens/ Users	Scheme functionality (status and number of non-functional days);
	Quality of water supplied (pH, Turbidity, Residual Chlorine);
	Total water supplied per day per habitation (KL);
	Quantity consumed per household (LPCD);
	Time-duration of water supplied per day (Hours);
Activists and media professionals	Scheme functionality by States / Districts/ Villages (Number of functional vs. non-functional schemes, number of non-functional days).
	Number of schemes at >=55 LPCD across States;
	Average time duration of water supplied per day by State;
	Number of water quality non-conformance incidents per month at a state level;

- c. **Portal for for IoT solution providers (asset deployment vendors)** – Portal (IT Operations Dashboard with system health and analysis) for IoT solution provider vendors to enable IoT devices for testing, configurations (e.g. Over-the air firmware updates, etc.), fraud detection, and performance management. This would also include SLA tracking that provides a transparent mechanism to both State/District officials and vendors (IoT solution providers / asset deployment vendors) to manage compliance to SLAs (based on which IoT asset O&M payments are made)
- d. **Decision support system with alerting mechanism** - IoT based alerts help improve the efficiency of the water supply scheme (manpower, electricity, water consumption) by supporting the utility and its human resources. Several applications of IoT alerts can be leveraged in the context of water supply scheme in rural India (non-exhaustive):
 - i. Functionality and quantity of water supplied and duration of supply – Based on sensor data, system will provide alerts to ensure that at least 55 LPCD of water is being supplied;
 - ii. Water level in source – Sensor data will be used for
 1. pre-emptive source augmentation steps in the long run
 2. switching off pump to avoid dry-runs and resulting pump failure in the short run
 - iii. Pump operations – Based on sensor data, system will provide alerts to switch the pump on/ off

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basis alerts regarding water level in source, water treatment plant, and service reservoir to avoid dry-runs and overflows;

- iv. Pump health – Based on sensor data, system will provide alerts to operate the pump and/ or undertake repair & maintenance basis parameters like hours of operations, voltage, vibrations etc;
- v. Water quality – Based on sensor data, system will provide alerts on various water quality parameters (e.g., pH, turbidity, chlorine) throughout the water value chain (source to user endpoint);
- vi. Non-revenue water – Based on sensor data, system will provide alerts for leakage/ unauthorized connections (applicable in case water meters are installed at household level also);
- vii. Alerts on mobile for engineers / officials and community.

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- e. **Advanced analytics** - Advanced analytics enable more effective decision making. In case of a rural water supply scheme in India, these can play a critical role in bridging the crunch of trained and skilled manpower.
- f. **GIS (Geographical Information System)** - GIS plays an important role in mapping, monitoring and operations of water supply schemes. Location-based mapping and characterization of the geographic features can be integrated into a Decision Support System (DSS) for planning, execution, and management of the schemes. The areas in which the GIS will be used in the water supply system are mentioned below (non- exhaustive):
 - i. Mapping of Surface and Ground Water Sources and Infrastructure including mapping of IoT sensors
 - ii. Water resources availability estimation and determining carrying capacity through GIS
 - iii. Water budgeting and audit at different levels of hierarchy
 - iv. Planning of Water supply infrastructure up to home Management of System (Resources, Assets, Functionary)
 - v. Real time monitoring of Services using IoT based sensors and analytical tools with GIS linkage for water quantity, quality, operations, and maintenance management. Dissemination of information to beneficiaries/ public and system management group
 - vi. Monitoring of the grievance redressal in relation to KRAs of concerned official
 - vii. Nation, State, District, Mouza, Village level Visualization of Status of Services through GIS enabled Dashboards

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3) Integrations

- a. Internal
 - i. Integrate data from intern IT systems such as // mobile and web applications for holistic dashboards
- b. External
 - i. Developer portal and API gateway - The system needs to be built in a flexible manner allowing States / Central government departments and external partners / ecosystem (academia, start-ups, non-profits, public etc.) to use select data, with appropriate access controls, from the central servers to build add-on applications and innovation.
 - ii. Integrate with multiple APIs (e.g. SMS gateway, location, payment gateway etc.)

Services to be provided

The indicative services to be provided by the System Integrator are listed below:

- A. **Planning and Design** - Conduct user research, develop UI/UX screens basis inputs from for applications, determine technology stack, develop solution architecture including database schema, data model, and define data standards to be provided to States (and IoT solution provider vendors) for sending data in a standardized format and adhering to security protocols
- B. **Development** – Develop codebase for front-end and back-end applications including development of APIs and IoT services (e.g. device provisioning, management)
- C. **Product Management** – Conduct sprint planning, determine timelines for overall scope and targeted features in consultation with WTL, hold daily scrum calls, A/B testing, usability testing

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and incorporating user feedback to improve the platform, provide weekly reporting to DDWS on progress and status

- D. **Quality Testing** – Conduct quality assessment, define test cases, build test plans, develop testing scripts, conduct alpha/beta/user acceptance testing, and bug resolution to ensure high quality and performance (functional and non-functional) of the platform
- E. **Deployment and maintenance** – Setup infrastructure for load testing, monitoring, configuration management, and hosting of platform on test and production environments, ensure continuous integration and continuous deployment (CI/CD) of enhancements and bug fixes, ensure high security, performance and uptime of the platform as per the SLAs
- F. **Training** – Provide training face-to-face / virtual for WTL and State IT teams and other technical/non-technical stakeholders for usage, deployment, hosting, application etc. including creating of necessary user manuals / SOPs / guides etc.
- G. **Security Audit** – Facilitate periodic security audits for application level vulnerabilities and fix issues raised by third party Cert-in empanelled security auditors.

Centralized IoT Platform requirement

- The SI shall ensure functioning of all deployed components smoothly & collaboratively to run 24*7 basis. Platform would serve as the focal point to serve as a decision support engine for administrators in day to day operations as well as during exigency situations.
- Should have Data integration platform
- GIS capabilities of the Platform and Ability to plot various field devices on GIS maps with different layers
- Should have built in capability to integrate and automatically trigger notifications to users (SMS and / or Email). The required Gateway will be procured by the bidder which will be paid extra as per actuals. The users shall have flexibility to add and modify the conditions to trigger the notifications.
- Should have mechanism for Alerts, Notifications generated by other systems/IoT devices. This will improve the efficiency of the water supply scheme (manpower, electricity, water consumption) by supporting the utility and its human resources. The alerts from different IoT can be Water level in source, alert related Pumps operations, health of pumps, alerts related to quantity water supplied to treatment plant and related to purification steps, Health of water treatment plant, water quality, Non-Revenue water.
- Should have options to visualize geo-spatial, operational and metrics data like Maps, Graphs, KPI, Tables, etc
- Should provide an ability to create KPI's, Graphs and Maps from different sources of the data
- Should have Data and Analytics engine
- Should have API repository to integrate with different systems
- Integrate IoT device using their APIs into this platform
- System shall generate Notification, Alert and Alarm messages that shall be visible within the Dashboard/GIS Platform and the Officer Mobile App if required
- Analytics Engine shall support multiple Data Sources. Min below standard data sources shall be supported – CSV, TSV, MS Excel, NOSQL, RDBMS
- Capability for Integration with enterprise system. The system shall provide integration capabilities with multiple enterprise systems and applications. It shall provide a wide variety of tools for to integrate and exchange data with third party systems.

Data Visualization and Reporting

The system shall support an easy-to-use self-service and scalable visualization tool that will enable all users to gain insights into critical operation and processes in real-time.

The tool shall be intuitive, web-based and shall enable users to retrieve, monitor, and analyze data to provide a deep level of operational intelligence.

It shall have ready to use symbol sets to visualize data in the form of trends, tables, values, gauges, and XY plots. It shall also support a rich set of graphical symbol library.

The visualization and reporting tools shall tightly integrate with the rich contextualized, asset-based data models leveraging common asset lexicons, calculations and alerting. Navigation tree to visualize the data hierarchy shall be provided.

The displays or dashboards created shall support symbol collection and context switching eg. A group of symbols or display created for one asset shall be automatically applicable for assets of similar templates without having to recreate the displays.

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The system shall enable choosing one or more data symbols and instantly view their related assets without having to search for each asset separately. In addition, it shall be possible to define selection criteria so that only the assets fulfilling the criteria shall be dynamically displayed eg. If the criteria are defined to display only pumps having efficiency below 75%, then the displays shall dynamically update and display the data symbol for only those pumps whose efficiency is below 75% at the selected point of time or time range.

It shall support configuration of multi-state symbols to create visual alarms for critical process states. Using multi-states, it shall be possible to dynamically hide symbol visibility and change text and symbol colour on display based on real time data update.

Facility shall be available to create ad-hoc displays, analysis and calculations for deep dive analysis directly via the web browser. The ad-hoc displays shall enable creation of summary traces with customizable intervals. Eg. for a given data stream, the system shall be capable of displaying summary traces such as maximum, minimum, average etc. These summary traces shall be dynamically calculated based on the time duration and time interval selected by the user.

Similarly, it shall be possible to create on the fly calculations and use the results for quick visualization and analysis. Feature to categorize, visualize, analyses and compare events shall be available. It shall be possible to overlay similar events and their parameters for comparative analysis. Users shall also be able to acknowledge, annotate, add reason codes and attach files and images to events. It shall be possible to view parent child events in the form of Gantt chart.

It shall enable sharing of displays with other members of a group or anyone with access to system. The tool shall support touch mode for touch enabled devices such as mobiles, tablets, 2in1 hybrid laptops etc. Touch-sensitive device gestures shall support functions such as drag & drop, pan, zoom, select etc using the touch functionalities of the device.

The system shall have provision to write custom symbols and tool panes, including unique or industry-specific ways of visualizing data. An excel add-in tool should be made available to retrieve, monitoring, analyzing, and reporting data directly into excel worksheet. It shall be possible to retrieve raw, calculated and contextual information directly into excel. This shall be used for creating user customizable, free form reports leveraging the combined power of the tool and excel.

The tool shall be used in such a way that a template created in excel shall automatically update based on the time range and asset selected.

Map view mode

This depiction plays an important role in mapping, monitoring and operations of water supply schemes. Location-based mapping and characterization of the geographic features can be integrated into a Decision Support System (DSS) for planning, execution, and management of the schemes. The areas in which the GIS will be used in the water supply system are mentioned below (non- exhaustive):

- i. Mapping of Surface and Ground Water Sources and Infrastructure including mapping of IoT sensors
- ii. Water resources availability estimation and determining carrying capacity through GIS
- iii. Water budgeting and audit at different levels of hierarchy
- iv. Planning of Water supply infrastructure up to home
- v. Management of System (Resources, Assets, Functionary)
- vi. Use in day-to-day effective maintenance management by locating the areas for trouble shooting in pipe network and infrastructure through GIS based simulated hydraulic models
- vii. Real time monitoring of Services using IoT based sensors and analytical tools with GIS linkage for water quantity, quality, operations, and maintenance management. Dissemination of information to beneficiaries/ public and system management group
- viii. Monitoring of the grievance redressal in relation to KRAs of concerned official
- ix. Nation, State, District, Mouza, Village level Visualization of Status of Services through GIS Enabled Dashboards

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Department is intending to implement an Enterprise GIS which will need a state-of-the-art GIS platform to support enterprise-wide GIS, development of web-based GIS applications and desktop-based GIS for smooth editing of GIS data.

The selected bidder should develop a web-based GIS application for the department need. This will cater to the viewing, analyzing, & utilizing the Geographic Information data along with the IOT. This should also become a powerful decision support system for key officials. The SI/ bidder should carry out configuration and

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deployment of GIS based web & mobile apps on need basis as per the requirements of departments/ projects on need basis.

The application shall be at the core of enterprise system providing visual representation of the information, along with, ability to collect, create and maintain spatial and textual information.

This application should provide access of data to authorized persons through intuitive and user friendly application. The bidder should do system study for the actual requirement of the DSS and submit SRS for approval. Also, the selected bidder will have to develop the map view model as per availability of spatial and non-spatial data.

Following are the indicative list of functionalities that will be a part of the generic module.

1. **User Management:** User Management Consist of Rights allocation to various user or stakeholder of the system like internal departmental user, external users, general public or potential user who are interested for accessing data. User management consists of categorization of viewing and analysis of data according to the user group requirement. It also consists the control of data viewing, analysis, querying and GIS based different decision-making system for different user.
2. **Map Viewer:**
 - **Dashboard:**

The basic dashboard will have GIS module links which will be added as a part of post implementations phase. Also, there will be a common GIS module on the dashboard where below mentioned generic GIS functionalities will be available. The application shall provide each user with a dashboard view of all the activities performed/ to be performed by the user in the system.
 - **Layer Management:**

The solution available enterprise wide will be based and shall have capacity to manage layers by switching on or off layers. Also, transparency and visibility scale shall be fixed for each layer.
 - **Attribute Viewer:**

The Attribute Viewer allows you to view the attribute fields of selected features
 - **Query Panel:**

Select features in a layer using a SQL-based expression against their attributes and their locations.
 - **Predefined queries:**

Predefined query to make it easier for users to view particular subsets of a map's data from an end-user perspective, executing the query is simple and is performed with a single button click. It is designed to work on a single layer / multiple layers.
 - **Map Contents:**

Map contents list all the layers on the map and shows what the features in each layer represent. The check box next to each layer indicates whether its display is currently turned on or off.
 - **Navigation:**

Navigating the map (Zoom In, Zoom Out, Pan, Previous Extent, Initial Extent etc.)
 - **Buffer:**

It creates a zone around a map feature (Point & Line) measured in units of distance or time. This buffer is useful for proximity analysis.
 - **Thematic Mapping:** User should able to configure thematic mapping which will help officials to monitor KPIs at multiple levels like districts, taluk, blocks, villages
 - Shall contain admin section where selected users shall be provided authentication for accessing the portal content on the basis of role based access.
 - Shall have multiple options for base map selection need to be provided such as administrative map, google, Openstreet, bhuvan maps, high resolution satellite imagery, etc.

Scalability and Architecture

Should be an integrated Customized or COTS solution having Data Acquisition, Storage, Analysis, Visualization along with integration tools for GIS application.

The SI should provide minimum:

- Products that can be used on-premises or in the cloud.
- Options for installing and using its products in production, development, and test environments.

The SIs data system should meet the following requirements:

- Connect multiple production sites including sites in remote locations.
- Bring data to a central server that is accessible from multiple locations.

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- Support minimum 100 users
- Store metadata that describes millions of assets and the associated real-time data streams for those assets
- Scale horizontally so can increase the number of installations and users.
- Scale vertically so can add new tools and functionality to the system.
- Support an architecture that includes failover, redundancy, backup, and data recovery options.
- Run on standard operating systems and use off-the-shelf hardware.

Layered Approach

The system should follow a layered approach and should broadly consist of following software components. Vendor should demonstrate the key functionality of each of the following component during bid evaluation stage.

Data Acquisition

The SI should have minimum the following requirement.

Support and provide interfaces for standard protocols including OPC DA, OPC HDA, OPC Alarms and Events, OPC UA, BACnet, Modbus, MQTT, OLE DB, SNMP, DNP3, IEC 60870-5-104, IEC-61850, ASCII, XML, and ODBC. Offer a variety of interfaces that can connect to a wide range of distributed control systems, PLCs, RTUs and other data sources, including process control systems manufactured by major SIs such as General Electric, Schneider Electric, Invensys, Foxboro, Wonderware, Emerson, Siemens, Honeywell, Rockwell, Yokogawa, and ABB, among others.

Have a roadmap for acquiring data from new systems, protocols and standards. Provide an open development messaging framework for developing connectors for sensors and devices that are associated with the Industrial Internet of Things

The SI's data system should meet the following requirements:

- Collect data from sites that have different control systems
- Collect data from legacy control systems
- Centralize data into one system that can be accessed by users at multiple locations.
- Buffer data when that data cannot be sent to the server or historian immediately
- Integrate and send data to systems on the control LAN and on the business network
- Automatically configure and populate both an asset hierarchy and a tag database
- Automatically synchronize changes made to tags in the control system
- Trigger a data back-up process that can collect data and send the data to the server when the primary data acquisition process is disconnected
- Enable users to collect data manually from non-instrumented sources using personal devices and handheld terminals
- Offer flexible deployment and streamlined configuration
- No LIMITATION on NUMBER OR TYPE of standard interfaces for current or future requirements for the tag entitlement

Calculation and Analytics

Users should be able to perform the following tasks:

- Download data easily for offline analysis
- Write simple and complex calculations, including roll-up aggregations and summaries, without needing programming skills
- Create calculations that can be applied across multiple assets and easily replicated using templates
- Specify when calculations are triggered, using time-based or event-based scheduling
- Use analytics to detect and mark the start and end of important events
- Perform calculations in real time on millions of data streams associated with assets
- Preview real-time calculations using historical data to assess the accuracy of these calculations
- Backfill the results of calculations to represent new or adjusted calculation routines
- Do recalculations over specified time ranges to represent new or adjusted data or calculation routines
- Use a built-in library of standard engineering calculations
- Create and manage a large number of calculations
- System should have capability to exchange data in standard format with third-party business intelligence

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and machine learning software

Visualization and Reporting

Users should be able to perform the following tasks:

- Visualize data with graphs, trends, symbols, dials, gauges, and other graphics
- Access data from any web browser
- Access data on mobile devices
- Use raw and filtered data, calculations, and events, in reports and displays
- Use Excel functionalities on available data on real time
- View historical and real-time data in the same displays
- See key process measurements in one display
- Create displays that show general and detailed views of data
- View, organize, analyze and share detailed data about assets using templates to easily replicate data organization to similar assets
- Access data, displays, and reports on desktops, tablets, and mobile devices
- Get an overview of all available data to which they have access rights
- Distribute reports by email, via a web portal, and to mobile devices
- Use data with Microsoft Office applications, including Excel
- Create displays using a built-in library of symbols and graphics
- Create dashboards, displays, calculations, and reports without needing coding or programming assistance
- Define the content of notifications and distribute notifications by email and web services
- Specify who can receive notifications
- Specify the conditions for escalating, and acknowledging notifications

- Design a custom web portal to display data from the SI's system and other sources
- Customize software using JavaScript, HTML, CSS, and AngularJS

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SECTION – B

ELIGIBILITY CRITERIA

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder should have their presence in the "State" with own office along with WBGST. Valid proof should be in the form of GST certificate should be submitted along with the bid.
3. The bidder should have valid WBGST Registration Certificate & PAN. Bidder shall have to submit photocopy of the documents.
4. The bidder should have a total turnover of not less than Rs. 10.00 Cr. covering the last five financial years (considering FY 19-20,20-21,21-22,22-23 & 23-24). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
5. The Bidder should have completed a single project of atleast INR 1.0 Cr in the area of IT/ITeS implantation intervention related project for Central Government / State Government / Urban Local Bodies/ PSU in India. Bidder should submit reference order copy with completion certificate/payment certificate with all relevant details for the project to be provided..
6. The bidder/OEM shall have executed IoT based Environmental Monitoring work of single order an amount not less than total Rs.10.00 Cr. In last three financial years and current financial year (considering FY – 2021-22, 2022-23, 2023-24) in Government Department/PSU/Autonomous Govt. Body. References order copy with completion certificate/payment certificate with all relevant details for the project to be provided.
7. The bidder/OEM shall have executed the work of installing Combined Environmental Monitoring & Awareness Solution including Water Quality/ Noise Monitoring Terminals / Ambient Air Quality & Display Board with Mobile App of not less than total Quantity of 200 locations in last the three financial years and current financial year (considering FY – 2020-21, 2021-22, 2022-23) for any State or Central Government department / SPSU / CPSU. References order copy with completion certificate/payment certificate with all relevant details for the project to be provided.
8. Bidder & OEM should have a call centre (toll free or otherwise) in West Bengal. Details to be submitted in respective letter head.
9. Manufacturer's tender specific authorizations for IoT based Water Quality Sensors & Calibrator must be submitted as per format (Section – Q) duly signed by the authorized signatory of the company.
10. OEM should have authorized service center/replacement centers in the State of West Bengal. Service Center details to be submitted as per format (Section – R) duly signed by the authorized signatory of the company.
11. The bidder shall submit Bid Form (Section – E) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
12. Bidder shall submit NIT Declaration (Section – O) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.
13. Manufacturer registration certificate: Must be registered as a manufacturer of that product or equivalent in DGTD/SSI/SIA/Udyam. Certificate copy to be submitted.
14. Manufacturer should be Indian manufacturer with Indian product qualifying for Q1 category of more than 50% indigenous in line with "Atmanirbhar Bharat" as per Government Public

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Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017. The OEM authorization should come from the India based manufacturer. OEM should submit declaration in OEM letter head in adherence to the requirements in the mentioned order number or any linked updates on the said order. Refer Section – U & Section – V for format. Deviation in format may not be accepted..

15. The OEM should have minimum ISO certification of ISO 9001:2015. Certificate to be submitted.
16. The Water Quality Monitoring systems (from the OEM) should have a certified accuracy of at least 85% (higher is always preferred) as compared to reference grade stations or as mentioned in (Section P) of the NIT.
17. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral/multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.
18. The bidder should have a presence in the form of offices or engineers in at least 5 districts of West Bengal (covering the state spread). This should be substantiated via proof of office or proof of permanent staff at West Bengal. Declaration from HR Head in company letter head should be submitted.

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SECTION – C

DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	25.09.2024
2	Documents download/sale start date (Online)	25.09.2024
3	Last Date and time of sending the queries (Offline)	01.10.2024 at 15.00 hrs.
4	Pre-Bid Meeting at WTL Office (Off Line)	03.10.2024 at 12.00 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	10.10.2024 at 13.00 hrs.
7	Last Date & time of submission of Earnest Money Deposit & submission of remittance details	Before Uploading of Tender
8	Last Date & time of submission of Tender Fee & submission of remittance details	Before Uploading of Tender
9	Bid Submission closing date & time (On line)	22.10.2024 at 12.00 hrs.
10	Bid opening date & time for Technical Proposals (Online)	24.10.2024 at 12.00 hrs.
11	Date of uploading the final list of Technically Qualified Bidder (online) after disposal of appeals, if any	-
12	Date for opening of Financial Bid (Online)	-

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SECTION – D

INSTRUCTIONS TO BIDDER

1. DEFINITIONS

In this document, the following terms shall have following respective meanings:

“Agreement” means the Agreement to be signed between the successful bidder and WTL including all attachments, appendices, all documents incorporated by reference thereto together with any subsequent modifications, the RFP, the bid offer, the acceptance and all related correspondences, clarifications, presentations.

“Acceptance Test Document” means a document, which defines procedures for testing the functioning of installed system. The document will be finalized with the contractor within 7 days of issuance of the Letter of Award.

“Bidder” means any firm offering the solution(s), service(s) and /or materials required in the RFP. The word Bidder when used in the pre award period shall be synonymous with Bidder, and when used after award of the Contract shall mean the successful Bidder.

“Contract” is used synonymously with Agreement.

“Contract Price” means the price to be paid to the Contractor for providing the Solution, in accordance with the payment terms.

“Contractor” means the Bidder whose bid to perform the Contract has been accepted by Tender Committee and is named as such in the Letter of Award.

“Default Notice” mean the written notice of Default of the Agreement issued by one Party to the other.

“Installation” means installation of supplied Hardware & Software.

“Fraudulent Practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive WTL and eventually Departments of Gov. of W. Bengal of the benefits of free and open competition.

“GoI” shall stand for the Government of India.

“GoWB” means Government of West Bengal.

“Personnel” means persons hired by the Bidder as employees and assigned to the performance of the Infrastructure Solution or any part thereof.

“Similar Nature of Work” SITC work related to sensory devices (in the segment of environmental parameters) for any Central / Sate Govt.depts/CPSU/SPSU with data simulation at H.Q under the e-Governance solution provisioning.

“Project” SITC work related to sensory devices across the state of West Bengal with data simulation at H.Q under the e-Governance solutioning modalities.

“Services” means the work to be performed by the Bidder pursuant to this Contract, as described in the detailed Scope of Work.

“Interest rate” means “364 days Government of India (GoI) Treasury Bills” rate.

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"**Law**" shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Central Government and/or the Government of West Bengal or any other Government or regulatory authority or political subdivision of government agency.

"**LOI**" means issuing of Letter of Intent shall constitute the intention of the WTL to place the Purchase Order with the successful bidder.

"**Requirements**" shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.

"**Service**" means provision of Contracted service viz., operation, maintenance and associated services for DEPLOYED SYSTEMS along with centralized dashboard as per Section titled "Scope of Work".

"**Termination Notice**" means the written notice of termination of the Agreement issued by WTL.

"**WTL**" means Webel Technology Limited a Govt. of West Bengal undertaking.

2. PRE BID MEETING

Pre Bid Meeting will be held on 03.10.2024 at 12.00 hrs. (On-Line Meeting). Bidder can send their queries as per format (Section - L) to Purchase Department (purchase@wtl.co.in). Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. Interest bidders are requested to send mail to (purchase@wtl.co.in) for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.

3. COST OF BIDDING

The bidder shall bear all costs associated with the preparation and submission of the bid and WTL will no case be responsible for those costs regardless of the conduct or outcome of the bidding process.

4. BID DOCUMENT

Bidder is expected to examine all instructions, forms, terms and requirement in the bid document. The invitation to bid together with all its attachment thereto shall be considered to be read, understood and accepted by the bidder unless deviations are specifically stated in the seriatim by the bidder. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result of the bid.

5. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, WTL reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

6. MODIFICATION AND WITHDRAWAL OF BIDS

The bidder cannot modify or withdraw its bid after submission.

7. LANGUAGE OF BID & CORRESPONDENCE

The proposal will be prepared by the Bidder in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & WTL will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

8. BIDDER'S SOLUTION

The bidders are requested to study the Bill of Material supplied with this document carefully. While working out the solution the bidder has to work with the broad minimum specification provided in the tender documents, conforming to the model, make and Part number (wherever provided). While

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submitting the bid the bidder has to detail out all components needed to complete the system BOM. The bidder is required quote for each item retaining all major components/sub system detailed and specified. As the contractor will be responsible for smooth functioning of the system, availability of spares during the tenure of the warranty period have to be take care by the contractor to maintain the guaranteed uptime.

9. EARNEST MONEY DEPOSIT (EMD)& TENDER FEE

The bidder shall furnish Online Receipt against payment of Tender Fees and Earnest Money Deposit.

10. REFUND OF EMD

EMD will be refunded to the unsuccessful bidders without interest by following guidelines of circular 3975-F(Y) dated 28/07/2016 on final selection of Successful Bidders.

11. FORFEITURE OF EMD

EMD made by Bidder may be forfeited under the following conditions:

If Bidder withdraws the proposal before the expiry of validity period.

During the evaluation process, if a Bidder indulges in any such activity as would jeopardize the process, the decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.

If Bidder violates any of the provisions of the terms and conditions of the proposal.

In the case of a successful Bidder, if Bidder fails to:

- a) Accept the work order along with the terms and conditions.
- b) Furnish performance security.
- c) Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
- d) Submitting false/misleading information/declaration/documents/proof/etc.

The decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances, besides, forfeiture of EMD even the Bidder will be deferred from participating in any job for a period of one year.

12. FORMS AND FORMATS

The various inputs for the Techno Commercial as Financial Bids are to be submitted in the format specified. The bidder shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

13. LACK OF INFORMATION TO BIDDER

The bidder shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the bidder of his responsibility to fulfill his obligation under the bid. If bidder has any queries relating to bid document, then he can send the queries before the Pre Bid Meeting.

14. CONTRACT EXECUTION

On receipt of the Letter of Award the contractor should submit a Performance Bank Guarantee (PBG) equivalent to 10% of the total contract value within three weeks from the date of receipt of Letter of Award/Order. The PBG should be valid for six month more than the warranty period. All delivery of the material will have to be completed within 30 days from the date of acceptance of contract and the contractor has to ensure all activities leading to the commissioning of the contract to be completed within 90 days from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

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15. TIME SCHEDULE FOR DELIVERY & INSTALLATION

Sl No	Activity	Time Line (In Days)
1	Date of Issuance of LOA to the bidder	T
2	Site details from WTL	T+15
3	Supply at site location	T+30
4	Installation & Commission	T+60
5	Data Integration with Central Dashboard	T+70
6	Obtaining go-live / commissioning certificate from site in-charge	T+75

* From the date of awarding the LOA to the Bidder

* The Selected Bidder has to provide all the deliverables strictly as per the schedule. The Service Recipient body will grant approvals to all the deliverables through the valid challans & OEM certification on serial no(s) The time consumed in granting approvals or any delay from the client side, is excluded from above and the Selected Bidder will not be accountable for the same.

16. LIQUIDATED DAMAGE

The job includes the supply and installation of materials mentioned in the tender document. In the event of failure to meet the job completion in stipulated date/time liquidated damage may be imposed on the contractor for sum not less than 0.5% of the contract value for undelivered/installed items, each week or part thereof, subject to a ceiling of 3% of the total contract value (including all taxes & duties and other charges). In the event of LD exceeds 3% of the order value, WTL reserves the right to terminate the contract and WTL will get the job completed by any other competent party. The difference of cost incurred by WTL will be recovered from the contractor and PBG will be invoked.

17. LIABILITY

In case of a default on bidder's part or other liability, WTL shall be entitled to recover damages from the Contractor. In each such instance, regardless of the basis on which WTL is entitled to claim damages from the Contractor (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), Contractor shall be liable for no more than:

- Payment referred to in the Patents and Copyrights clause.
- Liability for bodily injury (including death) or damage to real property and tangible personal property limited to that cause by the Contractor's negligence.
- As to any other actual damage arising in any situation involving nonperformance by Contractor pursuant to or in any way related to the subject of this Agreement, the charge paid by WTL for the individual product or Service that is the subject of the Claim. However, the contractor shall not be liable for
- For any indirect, consequential loss or damage, lost profits, third party loss or damage to property or loss of or damage to data.

For any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contractor hereunder.

18. PATENTS & COPYRIGHT

If a third party claims that a product delivered by the Contractor to WTL infringes that party's patent or copyright, the Contractor shall defend WTL against that claim at Contractor's expense and pay all costs, damages, and attorney's fees that a court finally awards or that are included in a settlement approved by the Contractor, provided that WTL.

- Promptly notifies Contractor in writing of the claim
- Allows Contractor to control and co-operate with Contractor in the defense and any related settlement negotiations.

Remedies: If such a claim is made or appears likely to be made, WTL would permit Contractor to enable WTL to continue to use the product, or to modify it, or replace it with one that is at least functionally equivalent. If Contractor determines that none of these alternatives is reasonably available, WTL agrees to return the product to Contractor on Contractor's written request. Contractor will then give WTL a credit equal to for a machine. WTL's net book value (provided WTL has followed generally accepted accounting principles for a generally available software product produced by Contractor (Program) the amount paid by WTL or 12 months charges (whichever is lesser) and for

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materials the amount paid by WTL for the materials. These will be Contractor's entire obligation regarding any claim of infringement.

19. SUSPENSION OF WORK

WTL shall have the power at any time and from time to time by notice to the Contractor to delay or suspend the progress of the work or any part of the work due to any other adequate reasons and on receipt of such notice the contractor shall forthwith suspend further progress of the work until further notice from WTL. The Contractor shall recommence work immediately after receiving a notice to do so from WTL. The whole or any part of the time lost for such delay or suspension shall, if WTL in its absolute discretion thinks fit, but not otherwise, be added to the time allowed for completion.

20. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from relevant customer.

21. GOVERNING LAWS

This contract should be governed by and interpreted by Arbitration clause in accordance with Laws in force in India. The courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract. The selected vendor shall keep himself fully informed of all current national, state and municipal law and ordinances. The selected vendor shall at their own expense, obtain all necessary permits and license and pay all fees and taxes required by law. These will be selected vendor's entire obligation regarding any claim of infringement. The selected vendor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The selected vendor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

22. CORRUPT OR FRAUDULENT PRACTICES

The Tender Committee requires that the bidders under this Tender observe the highest standards of ethics during the procurement and execution of such contracts. For this purpose, the definition of corrupt and fraudulent practices will follow the provisions of the relevant laws in force. The Tender Committee will reject a proposal for award if it detects that the bidder has engaged in corrupt or fraudulent practices in competing for the contract in question. The Tender Committee will declare a firm ineligible, either indefinitely or for a stated period of time, if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

23. BINDING CLAUSE

All decisions taken by the Tender Committee regarding the processing of this tender and award of contract shall be final and binding on all parties concerned. The Tender Committee reserves the right:

- To vary, modify, revise, amend or change any of the terms and conditions mentioned above and,
- To reject any or all the Tender/s without assigning any reason whatsoever thereof or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

24. WORKMEN'S COMPENSATION

In every case in which by virtue of the provision of the workmen's compensation Act 1923 or any other relevant acts and rules, compensation to a workman employed by the contractor, is payable, then this should be done by the Contractor. If WTL is obliged to make any compensation under the said rules and acts, then the amount shall be recovered without prejudice, from the bills and due of the Contractor. WTL shall not be bound to contest any claim made against the Contractor in respect of workmen's compensation.

25. CONTRACTOR'S EMPLOYEES

The Contractor shall comply with the provision of all labour legislation including the requirement of

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the payment of Wage Act 1936 and the rules framed there under and modifications thereof in respect of men employed by him in carrying out the contract. The Contractor must ensure that he complies with PF, ESI regulation for all his deployed employees. The Contractor shall see that all authorized Sub Contractors under him similarly complied with the above requirement.

26. SAFETY MEASURES

The Contractor shall in the course of execution of the work take all necessary precaution for the protection of all persons and property. The Contractor shall take adequate measures to protect the work and prevent accident during the work. In the event of any accident to any person or persons or damage or injury of any description to any person or property due to failure on the part of the contractor in taking proper precautionary measures the contractor shall be responsible for and must make good the loss the damage at his own cost to the satisfaction of the department and employees of the department shall be indemnified from all claims or liabilities arising there from or any expenses incurred on account thereof.

27. EQUIPMENT

All tools & tackles necessary for the work shall have to be procured by the contractor unless otherwise specified elsewhere in these tender documents. The equipment used by the contractor for a particular work must be appropriate for the type of work. The contractor shall maintain the equipment used on the work properly so that they are in good working condition. In no case shall the contractor use defective or imperfect equipment in the work. The contractor shall arrange to replace or repair all defective equipment so that the progress of the work is not hampered. No defective equipment should be left at the site of work and the department shall not be responsible for any loss or damage to any of these equipments during the course of the execution of the work.

28. SUB-CONTRACT

The purchaser (WTL) does not recognize the existence of Sub-Contractors. The Contractor's responsibility is not transferable. No consortium partner is allowed.

29. TERMINATION FOR DEFAULT

WTL may without prejudice to any other remedy or right of claim for breach of contract by giving not less than 30 days written notice of default sent to the contractor, terminate the order in whole or in part. If the contractor materially fails to render any or all the services within the time period specified in the contract or any extension thereof granted by WTL in writing and fails to remedy its failure within a period of thirty days after receipt of default notice from WTL. If the project (delivery, commissioning as well as warranty maintenance support is not carried out according to specification due to deficiency in service as per terms of the contract. In such case WTL will invoke the amount held back from the contractor as PBG.

30. BANKRUPTCY

If the contractor becomes bankrupt or have a receiving order made against him or compound with his creditors or being a corporation commence to be wound up, not being a voluntary winding up for the purpose only or amalgamation or reconstruction, or carry on their business under a receiver for the benefit of their creditors or any of them, WTL shall be at liberty to terminate the engagement forthwith without any notice in writing to the contractor or to the liquidator or receiver or to any person in whom the contractor may become vested and without any compensation to give such liquidator or receiver or other person the option of carrying out the engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by WTL.

31. FORCE MAJEURE

It is hereby defined as any cause, which is beyond the control of the Contractor or WTL as the case may be, which such party could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as

- War, Hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war.
- Rebellion, revolution, insurrection, mutiny, usurpation of civil or military, government, conspiracy, riot, civil commotion and terrorist area.

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- Confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de facto authority or ruler, or any other act or failure to act of any local state or national government authority.
- Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public **transportation** and communication, industrial dispute, shipwreck, shortage of power supply epidemics, quarantine and plague.
- Earthquake, landslide, volcanic activity, fire flood or inundation, tidal wave, typhoon or cyclone, hurricane, nuclear and pressure waves or other natural or physical disaster.

If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fourteen days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed.

The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upto its or their performance of the Contract and to fulfill its or their obligation under the Contract but without prejudice to either party's right to terminate the Contract.

No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall.

- Constitute a default or breach of the contract.
- Give rise to any claim fro damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

32. INSURANCE COVERAGE

Appropriate insurance to cover all solution components for the transit period and until the time of its acceptance at the respective site is to be taken by the contractor. As the contractor will carry the risk for the material in his books during transit, the contractor should arrange insurance for the total system as period from the dispatch till Acceptance Test is successfully achieved. Further the contractor is to take all required insurance coverage in respect of all its personnel who shall be working on this engagement.

33. WARRANTY

The bidder will provide warranty support of the solution(s) for 12 months from the date of go-live. The Solution provider would be responsible for the up keep and maintenance of the solution under the scope of work during the entire warranty period, i.e., 12 months from the date of final acceptance of the system.

34. WARRANTY SUPPORT

The total system will be warranted against all defects/bugs from the date of acceptance of the system whole or part.

35. PERFORMANCE BANK GUARANTEE (PBG)

As a guarantee for timely delivery, installation and commissioning of equipment as well as performance of on-site warranty support, as mentioned in Bill of Material, from the date of final acceptance of systems and pertaining to proper running of the systems, the bidder will have to submit 10% of the contract value as security in the form of Performance Bank Guarantee from any nationalized bank as per format enclosed (Section - N).

36. SI/BIDDER/CONTRACTOR'S RESPONSIBILITIES

Refer Section - A

37. NO WAIVER OF RIGHTS

Neither the inspection by WTL or any of their agents nor any order by WTL for payment of money or any payment for or acceptance of the whole or any part of the works by WTL, nor any extension of time, nor any possession taken by WTL shall operate as a waiver of any provision of the contract or of

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any power reserved to WTL, or any right to damages here in provided, nor shall any waiver of any breach in the contract be held to be a waiver of any other subsequent breach.

38. ENFORCEMENT OF TERMS

The failure of either party to enforce at any time any of the provision of this contract or any rights in respect thereto or to exercise any option here in provided shall in no way be construed to be a waiver to such provisions, rights or options or in any way to affect the validity of the contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have hereunder.

39. PERIOD OF VALIDITY OF OFFER

For the purpose of placing the order, the proposals shall remain valid till 180 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, WTL may ask for extension of the period of validity and such a request shall be binding on Bidders. WTL's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

40. TAXES & DUTIES

- The prices shall be inclusive of all taxes & levies including GST and other statutory duties as applicable. Rate of taxes should be indicated separately in the Price Bid.
- Contract Price specified in Price Bid should be based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission.
- Statutory deduction, wherever applicable, shall be made from invoice as per government rules. Necessary certificate will be issued for such deductions.
- Bidder submitting a bid shall produce valid statutory documents / certificates with respect to GST, Income Tax, ROC, Prof. Tax, Trade License, etc. All such documents / certificates shall remain valid on the last date of tender submission.
- In case of inter-state transaction, WTL will provide "Waybill". However, statutory charges, if any will be borne by the bidder.
- GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filing on the part of the bidder.

41. DISCREPANCIES IN BID

- Discrepancy between description in words and figures, the rate which corresponds to the words quoted by the bidder shall be taken as correct.
- Discrepancy in the amount quoted by the bidder due to calculation mistake of the unit rate then the unit rate shall be regarded as firm.
- Discrepancy in totaling or carry forward in the amount quoted by the bidder shall be corrected.

42. BID DUE DATE

The tender shall be submitted not later than the due date and time specified in the Important Dates Sheet. WTL may as its discretion on giving reasonable notice by fax, or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the WTL and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

43. LATE BID

Any proposal received after the deadline for submission of proposals may not be accepted.

44. OPENING OF BID BY WTL

Bids shall be opened and downloaded electronically through operation of the process in the e-Tender portal in presence of Tender Committee. Bidders interested to remain present during electronic bid opening may attend the bid opening session at WTL premises at scheduled date & time.

45. CONTACTING WTL

Bidder shall not approach WTL officers beyond office hours and/or outside WTL office premises from the time of the Bid opening to the time of finalization of successful bidder. Any effort by bidder to

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influence WTL office in the decision on Bid evaluation, Bid comparison or finalization may result in rejection of the Bidder's offer. If the bidder wishes to bring additional information to the notice of WTL, it should be in writing.

46. WTL'S RIGHT TO REJECT ANY OR ALL BIDS

WTL reserves the right to reject any bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

47. BID CURRENCIES

Prices shall be quoted in Indian Rupees, inclusive of all prevailing taxes, levies, duties, cess etc.

48. PRICE

- Price should be quoted in the BOQ format only. No deviation is acceptable.
- Price quoted should be firm, inclusive of packing, forwarding, insurance and freight charges.
- Percentage/specified amount of taxes & duties should be clearly mentioned otherwise WTL reserves the right to reject such vague offer.
- Price to be quoted inclusive of supply, installation & commissioning charges.

49. CANVASSING

Canvassing or support in any form for the acceptance of any tender is strictly prohibited. Any bidder doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.

50. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

51. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized signatory(ies) on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. All pages of the proposal, except for un-amended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Bidder, all corrections shall be done & initialed with date by the authorized signatory after striking out the original words/figures completely.

52. WITHDRAWAL OF BID

Bid cannot be withdrawn during the interval between their submission and expiry of Bid's validity period. Fresh Bid may be called from eligible bidders for any additional item(s) of work not mentioned herein, if so required.

53. INTERPRETATION OF DOCUMENTS

If any bidder should find discrepancies or omission in the specifications or other tender documents, or if he should be in doubt as to the true meaning of any part thereof, he shall make a written request to the tender inviting authority for correction/clarification or interpretation or can put in a separate sheet along with his technical bid document.

54. SPLITTING OF THE CONTRACT AND CURTAILMENT OF WORK

WTL reserves the right to split up and distribute the work among the successful technically qualified bidders and to curtail any item of work in the schedule partly or fully based on scheme requirement. As it is a time constrained process, the work may be distributed as mentioned above at L1 rate arrived through the process.

55. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

- a) Tenders shall be submitted in the prescribed forms. Digital signatures shall be used. Where there is conflict between the words and the figures, the words shall govern.

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- b) All notations must be in ink or type written. No erasing or overwriting will be permitted. Mistakes may be crossed out and corrections typed or written with ink adjacent thereto and must be initialed in ink by the person or persons signing the tender.
- c) Tenders shall not contain any recapitulation of the work to be done. Alternative proposals will not be considered unless called for. No written, oral, telegraphic or telephonic proposals for modifications will be acceptable.
- d) Tenders shall be uploaded as notified on or before the date and time set for the opening of tenders in the Notice Inviting Tenders.
- e) Tenders subject to any conditions or stipulations imposed by the bidder are liable to be rejected.
- f) Each and every page of the tender document must be signed with company seal by the bidder.

56. CLARIFICATION OF BIDS

During evaluation of the bids, the Customer/Tender Committee, at its discretion may ask the bidder for clarification of its bid. The request for the clarification and the response shall be in writing (fax/email) and no change in the substance of the bid shall seek offered or permitted.

57. COMPLIANCE WITH LAW

The contractor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The contractor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

58. ERASURES OR ALTERNATIONS

The offers with overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript ions is not only signed by the authorized signatory of the bidder. There should be no hand-written material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. The Customer may treat offers not adhering to these guidelines as unacceptable. The Customer may, at its discretion, waive any minor non-conformity or any minor irregularity in the offer. This shall be binding on all bidders and the Tender Committee reserves the right for such waivers.

59. FINAL INSPECTION

Final inspection may be carried by the authorized representative from WTL. Each site dispatch should have OEM's certification related to slno(s) of the sensory items enclosed.

60. PRE-DISPATCH INSTRUCTION

All materials / equipment's supplied against the purchase order may be subjected to Inspection, check and /or test by the authorized representative from WTL.

61. SITE INSPECTION

Successful qualified Bidder(s) who accepts to work at the accepted rate through the process may inspect (at their own cost) the sites allocated to them, under necessary permission from WTL in writing. WTL will need at least four days to organize such permission.

62. QUALITY CONTROL

- The contractor is obliged to work closely with WTL act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free WTL from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL responsible.

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- The contractor will treat as confidential all data and information about the system, obtained in the execution of its responsibilities in strict confidence and will not reveal such information to any party without the prior written approval of WTL.
- WTL reserves the right to inspect all phases of contractor's operation to ensure conformity to the specifications. WTL shall have engineers, inspectors or other duly authorized representatives made known to the contractor, present during the progress of the work and such representatives shall have free access to the work at all times. The presence or absence of representatives of WTL does not relieve the contractor of the responsibility for quality control in all phases.
- The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

63. SERVICE LEVEL SUPPORT – MATRIX

Purpose

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clarify define the levels of service which shall be provided by the implementation Agency to the Client for duration of this project.

The benefits of these SLAs are to:

1. Trigger a process that applies the Client and the IA's management attention to some aspect of performance when that as pact drops below an agreed upon threshold, or target.
2. Makes explicit the expectations that the Client has for performance
3. Helps the Client control the levels and performance of IA's service

This Service Level Agreement is between the IA and the Client. For purposes of this Service Level Agreement, the definitions and terms as specified in the contract along with the following terms shall have the meanings set forth below:

1. "Availability" shall mean the time for which the services and facilities offered by the Client are available for conducting operations from the Service Recipient Body's Property Tax Module.
2. Days: All working and Non-working days (365 days in a Calander year)
3. 24*7 means three shifts of 8 hours every day. This is applicable for all seven days of the week without any non-working days.
4. Non-working days: Saturday, Sunday and Public Holidays declared by the Management Categorization

The SLA has been logically segregated in the following categories:

1. Implementation phase
2. System Availability
3. System Performance
4. Incident Management

SLA during implementation:

These SLAs shall be used to evaluate the timelines for completion of deliverables. These SLAs will be applicable for commissioning of the project (implementation of the complete project as per scope of the work defined in this RFP document). For delay of every month in completion & submission of the deliverable mentioned in the proposal, the System Integrator would be charged with penalty of 0.5% per month on balance work with maximum of 10% of total value of accepted cost against Part I scope.

During O&M period, following SLA will be followed:

S. No.	Service Description	Measurement parameter	Target	Penalty
1	Attending problem reported for the instrument / equipment supplied by SI	Call Response Time	<= 3 Working Days > 3 Working days	NA Penalty of Rs. 500 per day from 4 th Working day onwards till problem is attended by SI representative.

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2	Repair / Replacement of Failure instrument by SI	Downtime of an equipment	<= 14 Working Days	NA
			> 14 Working days	Penalty of Rs. 750 per day from 15 th Working day onwards till problem is resolved.

Note:

1. Days mean work days as per State Government.
2. The problem will be attended and support will be provided by SI support person through telephone / email / on-site visit.

64. LOCATION DETAILS

The list of locations given in Section – T.

65. GENERAL TERMS

- a) All the pages of the bid document including documents submitted therein must be duly signed and stamped failing which the offer shall be liable to be rejected.
- b) All the documents to be submitted by the bidder along with their offer should be duly authenticated by the person signing the offer and if at any point of time during procurement process or subsequently it is detected that documents submitted are forged/tampered/manipulated in any way, the total responsibility lies with the bidder and WTL reserves the full right to take action as may be deemed fit including rejection of the offer and such case is to be kept recorded for any future dealing with them.
- c) No Technical/Commercial clarification will be entertained after opening of the tender.
- d) Overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript is not only signed by the authorized signatory of the bidder. All overwriting should be separately written and signed by the authorized signatory of the bidder.
- e) Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. WTL reserve the right to increase or decrease the quantity specified in the tender.
- f) WTL reserve the right to reject or accept or withdraw the tender in full or part as the case may be without assigning the reasons thereof. No dispute of any kind can be raised the right of buyer in any court of law or elsewhere.
- g) WTL reserve the right to ask for clarification in the bid documents submitted by the bidder. Documents may be taken if decided by the committee.
- h) No dispute by the bidders in regard to Technical/Commercial points will be entertained by WTL and decision taken by the Tender Committee will be final.
- i) Discrepancy in the amount quoted by the bidder due to calculation mistake, the unit rate shall be regarded as firm and the totaling or carry in the amount quoted by the bidder shall be corrected accordingly.
- j) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- k) The acceptance of the tender will rest with the accepting authority who is not bound to accept the lowest or any tender and reserves the right to reject in part or in full any or all tender(s) received and to split up the work among participants without assigning any reason thereof.
- l) The Customer/WTL at its discretion may extend the deadline for the submission of Bids.
- m) The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

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SECTION – E

BID FORM

(Bidders are requested to furnish the Bid Form in the Format given in this section, filling the entire Blank and to be submitted on Letter Head in original)

To

Webel Technology Limited
Plot – 5, Block – BP,
Sector - V,
Salt Lake City,
Kolkata – 700091.

Sub: SITC work related to sensory devices across the state of West Bengal with data simulation at H.O under the e-Governance solutioning modalities.

Dear Sir,

1. We the undersigned bidder/(s), having read and examined in details the specifications and other documents of the subject tender no. WTL/PHE/WC/24-25/013 dated 25.09.2024, do hereby propose to execute the job as per specification as set forth in your Bid documents.
2. The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 180 (one hundred eighty) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipments and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit & Tender fee: We have transferred EMD & Tender Fee amount online through e-Tender portal.
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to ten percent (10%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Dated, thisday of2024

Thanking you, we remain,

WEBEL TECHNOLOGY LIMITED

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

Signature & Authorized Verified by

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

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SECTION – F

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

1. EVALUATION PROCEDURE

- The Eligibility Criteria (Section - B) will be evaluated by Tender Committee and those qualify will be considered for further evaluation.
- The Tender Committee shall verify the Technical Specification (Technical and Certification Compliance, Section – P) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- The Tender Committee would evaluate the Techno Commercial Evaluation. In order to facilitate the evaluation, the marking scheme presented is an indication of the relative importance of the evaluation. Bidders securing a minimum of 75% marks in the Techno Commercial Evaluation for qualifying technical evaluation.
- Bidders after qualifying in Techno Commercial Evaluation will only be considers for Financial Bid Evaluation.

2. EVALUATION CRITERIA

Techno Commercial Evaluation

The evaluation methodology would take into consideration both the Techno Commercial responsiveness as well as the financial response. During the evaluation process, the evaluation committee will assign each desirable/preferred feature a whole number score for the Techno Commercial Bid as defined in the table below

Sl. No.	Technical Evaluation Criteria	Points
1	Company's Financial Profile	15
1.1	The Bidder should have total annual turnover of minimum Rs. 10.0 Crore for the last 5 financial years (2019-20,2020-21,2021-22, 2022-23 & 2023-24) from the business area of IT/IOT/AIR QUALITY Sensor Hardware supply and installation. Above Rs 50 Cr (Marks -15) ≥ Rs 30 Cr and < Rs 50 Cr (Marks -10) ≥ Rs 10 Cr and < Rs 30 Cr (Marks- 5)	
2	Relevant Experience The Bidder/OEM should have – Case 1 Has completed at least 3 or more similar projects in the last 5 Years AND Completed minimum 2 Similar projects, project cost of each project should not be less than Rs. 5 Cr. in last five year prior to bid due date OR Case 2 Completed/Ongoing minimum 1 Similar project, project cost of each project should not be less than Rs. 10 Cr. in last five year prior to bid due date Similar project: Supply or Design, Implementation, Testing and commissioning project of the IoT/ Sensor based/AIR QUALITY/ IT (Network infrastructure) system along with various analysing equipment's and setting up of online centralized information management system related projects for Central Government / State Government / Urban Local Bodies/ PSU in India. For projects showcased under case 1 OR case 2 - 20 Marks, Additional 5 marks for each additional Similar project (Additional project(s) which are not be less than Rs. 3 Cr), Maximum 10 Marks for additional project(s).	30
3	The Bidder/OEM should have any IT&E related project in Environmental Monitoring System for Central Government / State Government / Urban Local Bodies/ PSUs in India/. Also, should have an IT platform (portal view / APP view / both) which has been deployed for the said customer (whose sensors are considered herein) in the last 5	15

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	years with capacity to handle at least 5K Sensor & Telematics Devices with report engine, analytics engine, cloud connectivity and related device management. Completion Certificate or Payment Proof or Live URL to be provided Above Rs 10K Sensors with dashboard (Marks -15) ≥ 5K Sensors and < 10K Sensors with dashboard (Marks -10)	
4	The Bidder/OEM should have - The below marks is for the quantum of site installed in a single order or maximum of 2 orders of the said "Project" => 200 units (Marks -20) >= 150 units and < 200 (Marks -15) = 100 units and < 150 units (Marks- 10) Completion Certificate or Payment Proof to be provided. Project means: Supply or Design, Implementation, Testing, and commissioning project of Industrial IoT (Internet of Things) based Water Supply system or Environmental Monitoring System for Central Government / State Government / Urban Local Bodies/ PSUs in India.	20
5	Technical Documentation: Proposed Methodology of SITC work, Service Support infrastructure , product details & certifications , work awareness (Depending on the quality and comprehensiveness of the required sub – items mentioned above, the committee shall award marks)	20
	TOTAL	100

All claims to be supported by relevant documents / certificates. Onus of substantiating claims lies with the bidder.

3. FINAL EVALUATION

Financial Proposal of the bidders qualifying in the evaluation of Techno Commercial will be evaluated. The bidder who has qualified in the Techno Commercial and returns with lowest quote (L1) in Financial Bid will normally be awarded the contract subject to Post Qualification.

4. AWARDING OF CONTRACT

An affirmative Post Qualification determination will be prerequisite for award of the contract to the lowest quoted bidder. A negative determination will result in rejection of bidder's bid, in which event the WTL will proceed to the next lowest evaluated bidder to make a similar determination of that bidder's capability to perform satisfactorily. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee.

Order will be given to four bidders at L1 price. The quantity ratio of placement of order will be 40%:30%:20%:10%; provided the technically qualified bidders agree to accepted L1 rate and site allocated. WTL reserves the right to alter the ratio depending upon bidder availability and also revoke the allocation depending upon review of performance during SITC work.

Decision of WTL for site allocation (both quantity and location) will be binding upon the bidder(s) and no change will be accepted at any stage, till otherwise decided by WTL.

5. POST QUALIFICATION

The determination will evaluate the Bidder's financial, technical, design, integration, customization, production, management and support capabilities and will be based on an examination of the documentary evidence of the Bidder's qualification, as well as other information WTL deems necessary and appropriate. This determination may include visits or interviews with the Bidder's client's reference in its bid, site inspection, and any other measures. At the time of post-qualification, Department of Par& e-Governance may also carry out tests to determine that the performance or functionality of the Information System offered meets those stated in the detailed Technical Specification.

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SECTION – G

GUIDANCE FOR E-TENDERING

Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the Bidders to participate in e-Tendering.

1. **Registration of Bidder:**
Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in>. The Bidder is to click on the link for e-Tendering site as given on the web portal.
2. **Digital Signature Certificate (DSC):**
Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated above. DSC is given as a USB e-Token.
3. The Bidder can search & download N.I.T. & BOQ electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.
4. **Participation in more than one work:**
A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If, found to be applied severally in a single job all the applications will be rejected.
5. **Submission of Tenders:**
Tenders are to be submitted through online to the website stated above in two folders at a time, one in Techno Commercial Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats)

The proposal should contain scanned copies of the following in two covers (folders).

Techno Commercial Cover:

Technical Document1

1. Bid Form as per format (Section – E)
2. Other documents, if any

Technical Document2

1. N I T Declaration duly stamped & signed in bidder's letter head, (Section – O)
2. Other documents, if any

Technical Compliance

1. Detailed Technical Specification with required documents, Section – P
2. Manufacturer Authorization Form, Section – Q

Financial Cover:

BOQ (Bill of Quantity) will be downloaded and same will be uploaded with quoted rates. While uploading BOQ file name shall remain unchanged. Absence of this document shall lead to summary rejection of the bid.

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NON-STATUTARY COVER (MY SPACE) CONTAIN FOLLOWING DOCUMENT:

(In each folder, scanned copy will be uploaded with single file having multiple pages)

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none"> • GST Registration Number • PAN • Document as per Section – B
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> • Document as per Section – B • Declaration as per Section – B
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> • Company Profile (Not more than 3 pages) • ISO Certificate as per Section –B
C	CREDENTIAL	CREDENTIAL 1	<ul style="list-style-type: none"> • Order copies as per Section – B
		CREDENTIAL 2	<ul style="list-style-type: none"> • Product brochure • Other documents, if any
D	DECLARATION	DECLARATION 1	<ul style="list-style-type: none"> • List of Clients as per format (Section – M) • Financial Capability of Bidder as per format (Section – J)
		DECLARATION 2	<ul style="list-style-type: none"> • Document as per Section – B • Other documents, if any
		DECLARATION 3	<ul style="list-style-type: none"> • Bidder's Details as per format (Section – K) • Service Centre Details as per format (Section – R) • Declaration as per Section - V
		DECLARATION 4	<ul style="list-style-type: none"> • Details of Order as per format (Section – I) • Documents as per Section – F • Declaration as per Section - U
		DECLARATION 5	<ul style="list-style-type: none"> • Declaration as per Section – B • Eligibility Criteria Documents (Section – S)
F	FINANCIAL INFO	P/L & BALANCE SHEET 2019-2020	P/L & BALANCE SHEET 2019-2020
		P/L & BALANCE SHEET 2020-2021	P/L & BALANCE SHEET 2020-2021
		P/L & BALANCE SHEET 2021-2022	P/L & BALANCE SHEET 2021-2022
		P/L & BALANCE SHEET 2022-2023	P/L & BALANCE SHEET 2022-2023
		P/L & BALANCE SHEET 2023-2024	P/L & BALANCE SHEET 2023-2024

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SECTION – H

BILL OF MATERIAL

Sl. No.	Product Description	Unit	Qty
1	Ground Level Sensor	No	1
2	Cost of Installation & Integration of above	No	1
3	Cost of Support and Maintenance for the first 12 months	No	1
4	Pressure Sensor	No	1
5	Cost of Installation & Integration of above	No	1
6	Cost of Support and Maintenance for the first 12 months	No	1
7	Residual Chlorine Sensor	No	1
8	Cost of Installation & Integration of above	No	1
9	Cost of Support and Maintenance for the first 12 months	No	1
10	Pump Controller	No	1
11	Cost of Installation & Integration of above	No	1
12	Cost of Support and Maintenance for the first 12 months	No	1
13	IoT Module at Plant	No	1
14	Cost of Installation & Integration of above	No	1
15	Cost of Support and Maintenance for the first 12 months	No	1
16	IoT Modules at each cluster/ DMA/ habitation	No	1
17	Cost of Installation & Integration of above	No	1
18	Cost of Support and Maintenance for the first 12 months	No	1
19	Flowmeter (size 80 to 125mm): At entry of each cluster/ DMA/ habitation)	No	1
20	Cost of Installation & Integration of above	No	1
21	Cost of Support and Maintenance for the first 12 months	No	1
22	Flowmeter (80 mm)	No	1
23	Cost of Installation & Integration of above	No	1
24	Cost of Support and Maintenance for the first 12 months	No	1
25	Non-invasive Flowmeter (125 to 350 mm): At outlet of SR	No	1
26	Cost of Installation & Integration of above	No	1
27	Cost of Support and Maintenance for the first 12 months	No	1
28	Village Level Display Unit	No	1
29	Cost of Installation & Integration of above	No	1
30	Cost of Support and Maintenance for the first 12 months	No	1
31	4G IoT Sim Card cost per Location per Year	No	1
32	Cost of Installation & Integration of above	No	1
33	Cost of Private Cloud Hosted Dashboard(based on details as mentioned in Section – P) inclusive of Cert-in Security Audited with Safe to Host Certificate	Job	1

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SECTION – I

DETAILS OF ORDER EXECUTED BY BIDDER

(Tender No. WTL/PHE/WC/24-25/013)

Sl. No.	Order No.	Order Date	Order Value	Brief description of items and job details	Completed (Yes/NO)	Name of the Customer	Contact details of the Customer

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

- a. Type of Project shall indicate the implementation of services (Networking Setup, System Integration).
- b. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- c. Submit Customer Order Copy details of the order indicating the project value, customer contact details, project completion certificate, customer satisfaction certificate etc.

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SECTION – I

FINANCIAL CAPABILITY OF BIDDER

(Tender No. WTL/PHEWC/24-25/013)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)				
		2019 -20	2020- 21	2021-22	2022-23	2023-24
1						

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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SECTION - K

BIDDERS'S DETAILS

(Tender No. WTL/PHE/WC/24-25/013)

1	Name of the Firm	
2	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
	E-mail	
4	Is the firm a registered company? If yes, submit documentary proof	
	Year and Place of the establishment of the company	
6	Former name of the company, if any	
7	Is the firm <ul style="list-style-type: none">▪ a Government/ Public Sector Undertaking▪ a propriety firms▪ a partnership firm (if yes, give partnership deed)▪ a limited company or limited corporation▪ a member of a group of companies, (if yes, give name and address and description of other companies)▪ a subsidiary of a large corporation (if yes give the name and address of the parent organization). If the company is subsidiary, state what involvement if any, will the parent company have in the project.	
8	Is the firm registered with Sales Tax department? If yes, submit valid GST Registration certificate.	
9	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
10	Total number of employees. Attach the organizational chart showing the structure of the organization.	
11	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
12	How many years has your organization been in business under your present name? What were your fields when you established your organization	
13	What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary) <ul style="list-style-type: none">▪ Manufacturer▪ Supplier▪ System Integrator▪ Consultant▪ Service Provider (Pl. specify details)▪ Software Development▪ Total Solution provider (Design, Supply, Integration, O&M)▪ IT Company	
14	Number of Offices in district headquarters in West Bengal	
15	Is your organization having ISO 9001:2015 certificates?	
16	List the major clients with whom your organization has	

WEBEL TECHNOLOGY LIMITED

	been / is currently associated.	
17	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
18	Have you ever been denied tendering facilities by any Government / Department / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – I

PRE-BID MEETING QUERY

(Tender No. WTL/PHE/WC/24-25/013)

Name of the Bidder:

Queries

Sl. No.	Section No.	Clause No.	Page No.	Queries

Note: The filled form to be submitted in XLS and PDF Format. There is a cut off date for receiving of queries before Pre Bid Meeting. Queries received after the cutoff period will not be accepted. The Purchaser reserves the right to respond all queries over e-mail.

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION - M

LIST OF CLIENTS OF SIMILAR ORDERS

(Tender No. WTL/PHE/WC/24-25/013)

Sl. No.	Name of the Client	Address	Contact Person	Designation	Contact Numbers

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION - N

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On non-judicial stamp paper of appropriate value to be purchased in the name of executing Bank)

PROFORMA OF BANK GUARANTEE FOR SECURITY DEPOSIT -CUM-PRFORMANCE GUARANTEE

Ref Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

KNOW ALL MEN BY THESE PRESENTS that in consideration of WEBEL TECHNOLOGY LIMITED, a Government of West Bengal Undertaking incorporated under the Companies Act, 1956 having its Registered office at Plot - 5, Block BP, Sector V, Kolkata-700 091 (hereinafter called "The Purchaser") having agreed to accept from _____ (hereinafter called "The Contractor") Having its Head Office at _____, a Bank guarantee for Rs. _____ in lieu of Cash Security Deposit for the due fulfillment by the Contractor of the terms & conditions of the Work Order No. _____ dated _____ issued by the Purchaser for _____ (hereinafter called "the said work order _____ dated _____"). We _____ (Name & detailed address of the branch) (hereinafter called "the Guarantor") do hereby undertake to indemnify and keep indemnified the Purchaser to the extent of Rs. _____ (Rupees _____) only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the terms and conditions contained in the said Work Order No. _____ dated _____ of which breach the opinion of the Purchaser shall be final and conclusive.

(2) AND WE, _____ DO HEREBY Guarantee and undertake to pay forthwith on demand to the Purchaser such sum not exceeding the said sum of _____ Rupees _____) only as may be specified in such demand, in the event of the Contractor failing or neglecting to execute fully efficiently and satisfactorily the order for _____ Work Order no. , _____ dated _____

(3) WE _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order as laid down in the said Work Order No. _____ dated _____ including the warranty obligations and that it shall continue to be enforceable till all the dues of the Purchaser under or by virtue of the said Work Order No. _____ dated _____ have been fully paid and its claims satisfied or is charged or till the Purchaser or its authorized representative certified that the terms and conditions of the said Work Order No. _____ dated _____ have been fully and properly carried out by the said contractor and accordingly discharged the guarantee.

(4) We _____ the Guarantor undertake to extend the validity of Bank Guarantee at the request of the contractor for further period of periods from time to time beyond its present validity period failing which we shall pay the Purchaser the amount of Guarantee.

(5) The liability under the Guarantee is restricted to Rs. _____ (Rupees _____) only and will expire on _____ and unless a claim in writing is presented to us or an action or suit to enforce the claim is filled against us within 6 months from _____ all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities (thereinafter)

(6) The Guarantee herein contained shall not be determined or affected by liquidation or winding up or insolvency or closer of the Contractor.

(7) The executants has the power to issue this guarantee on behalf of Guarantor and holds full and valid power of Attorney granted in his favour by the Guarantor authorizing him to execute the Guarantee.

WEBEL TECHNOLOGY LIMITED

(8) Notwithstanding anything contained herein above, our liability under this guarantee is restricted to Rs. _____ (Rupees _____) only and our guarantee shall remain in force up to _____ and unless a demand or claim under the guarantee is made on us in writing on or before _____ all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

WE, _____ lastly undertake not to revoke this guarantee during the currency except with the previous consent of the Purchaser in writing. In witness whereof we _____ have set and subscribed our hand on this _____ day of _____.

SIGNED, SEALED AND DELIVERED

(Stamp of the executants)

WITNESS

1) _____

2) _____

(Name & address in full with Rubber Stamp)

WEBEL TECHNOLOGY LIMITED

INSTRUCTIONS FOR FURNISHING BANK GUARANTEE

1. Bank Guarantee (B.G.) for Advance payment, Mobilization Advance, B.G. for security Deposit-cum-Performance Guarantee, Earnest Money should be executed on the Non- Judicial Stamp paper of the applicable value and to be purchased in the name of the Bank.
2. The Executor (Bank authorities) may mention the Power of Attorney No. and date of execution in his/her favour with authorization to sign the documents. The Power of Attorney is to be witnessed by two persons mentioning their full name and address.
3. The B.G. should be executed by a Nationalised Bank/ Scheduled Commercial Bank preferably on a branch located in Kolkata. B.G. from Co-operative Bank / Rural Banks is not acceptable.
4. A Confirmation Letter of the concerned Bank must be furnished as a proof of genuineness of the Guarantee issued by them.
5. Any B.G. if executed on Non-Judicial Stamp paper after 6 (six) months of the purchase of such stamp shall be treated as non-valid.
6. Each page of the B.G. must bear signature and seal of the Bank and B.G. Number.
7. The content of the B.G. shall be strictly as Proforma prescribed by WTL in line with Purchase Order /LOI/ Work Order etc. and must contain all factual details.
8. Any correction, deletion etc. in the B.G. should be authenticated by the Bank Officials signing the B.G.
9. In case of extension of a Contract the validity of the B.G. must be extended accordingly.
10. B.G. must be furnished within the stipulated period as mentioned in Purchase Order / LOI / Work Order etc.
11. Issuing Bank / The Bidder are requested to mention the Purchase Order / Contract / Work Order reference along with the B.G. No. For making any future queries to WTL.

WEBEL TECHNOLOGY LIMITED

SECTION – O

NIT DECLARATION FOR BIDDER

(Bidders are requested to furnish the Format given in this section, filling the entire Blank and to be submitted on Bidder's Letter Head)

To
Webel Technology Limited
Plot-5, Block-BP, Sector-V,
Salt Lake City,
Kolkata-700091.

Sub: SITC work related to sensory devices across the state of West Bengal with data simulation at H.Q under the e-Governance solutioning modalities.

Dear Sir,

We the undersigned bidder/(s) declare that we have read and examined in details the specifications and other documents of the subject Tender No. WTL/PHE/WC/24-25/013 dated 25.09.2023 for SITC work related to sensory devices across the state of West Bengal with data simulation at H.Q under the e-Governance solutioning modalities published by Webel Technology Limited in e-Tender website.

We further declare that we have agreed and accepted all the clauses / sub-clauses / formats / terms & conditions other requirements related to the said tender and we will abide by the same as mentioned in the tender document while participating and executing the said tender.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, this.....day of.....2024

WEBEL TECHNOLOGY LIMITED

SECTION – P

TECHNICAL & CERTIFICATION COMPLIANCE

(Tender No. WTL/PHE/WC/24-25/013)

Minimum Specification of Sensor

Sl. No.	Product Description	Technical Specifications	Compliance (Yes/No)
1	Ground Level Sensor	Measure range (m): 0-30	
		Pressure form: Gauge/ Absolute pressure	
		Nonlinear (%FS): 0.1 10.25 13.5	
		Hysteresis (%FS): .0.1 5..0.25 5_0.5	
		Repeatability (%FS): .0.1 0.25 10.5	
		Zero temperature drift (%FS/°C): .5_0.02	
		Full temperature drift(%FS): 5_0.02	
		Stability (%FS/ Year): 13.25	
		Compensation temperature (°C): 0-60	
		Ambient temperature (°C): -10°C-+60°C	
		Overload capacity (%): 200	
		Life time: >9 million pressure cycles	
		Response time(ms): 51 ms	
		Measuring medium: 316L compatible media;	
		Diaphragm material: 316L stainless steel	
Shell material: 304, 316, titanium, PTFE			
Accuracy: $\pm 0.25\%$ - certified from CSIR-NPL			
Degree of protection: IP68			
2	Pressure Sensor	Measurement Range: -0-0.01MPa	
		Proof pressure: 1.5X rated pressure or 110MPa whichever is less	
		Pressure type: Absolute	
		Accuracy: $\pm 0.25\%$ (Typical) $\pm 0.5\%$ (Max.)	
		Stability: $\pm 0.1\%$ F.S/Year (Typical) $\pm 0.2\%$ F.S/year (Max.)	
		Temperature Error- Zero: $\pm 0.03\%$ F.S/°C (.100KPa) $\pm 0.02\%$ F.S/°C (> 100KPa)	
		Temperature Error -Span: $\pm 0.03\%$ F.S/°C (-100KPa) $\pm 0.02\%$ F.S/°C (> 100KPa)	
		Operating Temperature Range: -10°C-+80°C	
		Housing material: Stainless steel	
		Diaphragm material: 316L/ 304 SS	
		O-ring: Fluororubber	
		Protection: IP65	
		Accuracy: $\pm 0.25\%$ - certified from CSIR-NPL	

WEBEL TECHNOLOGY LIMITED

		Insulation resistance: 100M Ohm 100VDC	
3	Residual Chlorine Sensor	0.01-10 ppm	
		pH: 4-8.2	
		Pressure: 10bar@ 20 C	
		Platinum electrode in glass tube enclosure	
		Accuracy: \pm 5% certified from NABL Accredited Lab	
		Semi-auto calibration	
4	Pump Controller	1 channel sensors	
		Connectivity to IoT Module	
		Communication: RS232 / RS485 / BLE5.0 / LoRAWAN	
		IP67X	
		Battery Powered Controller Option for BLE & LoRAWAN Comm. With battery life of 5 Years	
		24 VDC Power Supply from IoT Master Module	
		Built-in Single Relay Module for Direct Control	
		Built-in PLC Microcontroller Panel Connectivity via SPI / I2C/ TTL / SERIAL / RS232 / RS485	
5	IoT Module at Plant	Industrial Communication Protocols: Secured MQTT	
		Inwards Virtual Sensor Connectivity: LoRAWAN / BLE	
		Edge computing with 600 MHZ Processor	
		1 Channel / 4 channel / 8 Channel – INPUT / OUTPUT (Analog & Digital)	
		Connectivity: 4G LTE with Dual Network e-SIM with 2G & 3G * GSM-GPRS Fallback/ WiFi / Ethernet / Optional: Satellite Communication via BSNL	
		IP65X	
		Visual Display LED for Indicating	
		Mobile App Connectivity via BLE for Real-time Data Monitoring	
		Active Temperature Control & Ventilation for Operating Temp up to 55 Degree C	
		Tamper Detection System	
		GPS – Positioning System	
		110 to 220VAC Supply	
		Optional Battery Back of up to 8 Hours	
		Optional Solar Panel Pack	
		Web Based Device Management System for Remote Maintenance	
		Firmware Over the Air for Remote Control	
6	IoT Modules at each cluster/ DMA/ habitation	1 channel sensors	
		Connectivity to IoT Module	
		Communication: RS232 / RS485 / BLE5.0 / LoRAWAN	
		IP67X	
		Battery Powered Controller Option for BLE & LoRAWAN Comm. With battery life of atleast 5 Years	

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		24 VDC Power Supply from IoT Master Module	
7	Flowmeter (80 mm)	Electro Magnetic Type	
		80-350mm Diameter	
		Accuracy: $\pm 0.5\%$ - certified from CSIR-NPL	
		Instantaneous & Totalizer	
		Supports: RS485 / MODBUS / ETHERNET Communication	
		Isolation Grounding System for outdoor usage	
		Onboard Display System for ease of viewing	
		Externally powered either by 12/24 VDC or 110/220VAC	
		Configurable over the Air	
		IP: 68X	
8	Non-invasive Flowmeter (125 to 350 mm)	Flow meter (Ultrasonic Type) Non-invasive - Clamp on Meter Clamping Feasibility on Cast iron, Steel, alloys Certifications: CSIR-NPL Accuracy: + 1% from CSIR-NPL Communication : Direct IoT Module Transfer with RS485/RS232/MODBUS/ETHERNET Panel Body type: Rated IP68 or better Body type: Water Meter: Ip68, Pipeline size: 125 mm to 350 mm	
		Instantaneous & Totalizer	

Note : OEM Brochure should be submitted in support of the claim

Display Unit Compliance

1	Village Level Display Unit	19 inch or larger LCD/LED Panel (when measured diagonally) 1600 X 900 or 9120 X 1080 Resolution Input Support: HDMI/DVI/VGA/MIPI Wall Mountable - Landscape & Portrait Mode Isolated Power Supply with dedicated Grounding Certification:	
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Sensor Certification

Sl. No.	Product Description	Certification Requirement	Compliance (Yes/No)
1	Ground Level Sensor	CSIR-NPL at an accuracy of $\pm 0.25\%$	
2	Pressure Sensor	CSIR-NPL at an accuracy of $\pm 0.25\%$	
3	Residual Chlorine Sensor	NABL accredited laboratory with accuracy of $\pm 5\%$	
4	IoT Module at Plant	4G LTE CAT 4 Modem with CE/FCC certification	
5	IoT Modules at each cluster/DMA/ habitation	4G LTE CAT 4 Modem with CE/FCC certification	
6	Flowmeter (size 80 to 125mm): At entry of each	CSIR-NPL at an accuracy of $\pm 0.5\%$	

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	cluster/ DMA/ habitation)		
7	Flowmeter (80 mm)	CSIR-NPL at an accuracy of $\pm 0.5\%$	
8	Non-invasive Flowmeter (125 to 350 mm): At outlet of SR	CSIR-NPL at an accuracy of $\pm 1\%$	
9	Village Level Display Unit	BIS & Energy Start Certification	

Note : Self-certified legible and valid certificate should be submitted in support of the claim

Minimum Specification for Dash Board

Sl. No.	Minimum Technical Requirement	Inbuilt Software Module Name	Compliance (Y/N)	Software module details etc.
1	The Centralized IOT Platform shall support an architecture to ensure that there is no data Loss of up to 50K Sensors			
2	The Centralized IOT Platform shall enable real time and historical data monitoring, storage, visualization and analysis. The system shall also have the capability to store and handle future time stamped data such as forecasted or predicted data			
3	The Centralized IOT Platform shall be designed to be highly scalable, reliable, flexible and secure to support a wide variety of uses cases and architecture.			
4	The Centralized IOT Platform shall not be a point solution or specialized application. The Centralized IOT Platform shall be a configurable data infrastructure that will be the foundation for digital transformation and operational & business support throughout the project.			
5	Using the Centralized IOT Platform capabilities, it shall be possible for SWSM to develop a wide variety of operational and business use cases using drag & drop GUI based functionalities without the need for programming or custom development.			
6	The Centralized IOT Platform shall function as an innovation platform where new use cases can be easily configured in the system by users. There shall be no limitation in the number of uses cases that are possible to be configured in the Centralized IOT Platform.			
7	The Centralized IOT Platform shall integrate and consolidate data from a variety of data sources including individual unit DCS, SCADA systems, EMS systems, automation systems, controllers and devices including meters, IIOT sensors with support to standard industry Protocols.			
8	All the above protocols shall be supported out of the box without requiring any external third-party converters or additional development for protocol conversion. It shall be ready to use plug and play type installations requiring only basic settings with protocol related configurations.			
9	There shall be no restrictions in the number of instances of the Centralized IOT Platform interface applications that can be deployed for any of the listed protocols			
10	The Centralized IOT Platform interface application shall support redundancy and failover mechanism. It shall also be capable of handling redundant data sources.			
11	Data buffering shall be available to cater to conditions of connectivity loss/failure between the Centralized			

WEBEL TECHNOLOGY LIMITED

	IOT Platform interface application at site level and Centralized IOT Platform Central servers (at CMS) due to reasons like network failure, upgradation, maintenance, shutdown etc. There shall be no data loss under such scenario and buffering shall be available for a minimum period of 30 days. The buffer shall be automatically pushed into the database once the connectivity is restored.			
12	It shall be possible to distinguish true flatlines in data from disruptions in data collection i.e. the Centralized IOT Platform shall be able to differentiate between stale data and other data status being written by the respective protocol.			
13	The Centralized IOT Platform shall be capable of automatically reading and storing data from ASCII files (.txt, .xml, .csv etc), serial ports, POP3/POP3S servers (email content), batch files (.txt, .csv) and listening and actively executing Rest endpoints (Rest server and client)			
14	The Centralized IOT Platform shall have a built-in time series data archive for storage of process, operational and computed data.			
15	The Centralized IOT Platform shall support storage of different data types viz. Boolean, Byte, DateTime, Single (Float32), Double (Float64), Int16, Int32, Int64, String and Blob			
16	The Centralized IOT Platform shall support storing of millisecond time stamp data.			
17	The Centralized IOT Platform shall support storage of data with future timestamp (predicted, forecasted data)			
18	The implementation of exception and compression mechanisms should no way affect the performance of the overall storage and retrieval process.			
19	The Centralized IOT Platform shall be able to manage out of order data i.e. if the incoming data is not coming in sequence, the data shall be automatically inserted and arranged in the right sequence based on time index.			
20	The data in Centralized IOT Platform shall be available online for retrieval for minimum 10 years.			
21	It shall be possible to further expand the online storage by expanding only the hardware resources at the VM end.			
22	All data shall be backed up periodically during off-peak hours. There shall be incremental, verified backup done each day. It shall be possible to backup all data locally as well as remote external storage drives without manual interventions			
23	The backup shall facilitate recovery after system failure, unintended configuration changes (such as an accidental point deletion) and database corruption.			
24	A graphical user interface tool shall be available to perform administration tasks including configuring security settings, managing archives, building and configuring points, and viewing message logs.			
25	A powerful command-line utility shall also be available for carrying out administration tasks.			
26	An excel add-in shall be available to create, delete, and edit objects, such as points, asset templates, and asset attributes in bulk			
27	A Centralized IOT Platform shall allow users to model physical or logical objects along with the data associated with them. The tool shall identify the components/elements that make up a process, specify relationships between objects, and organize them			

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	based on the use case requirement.			
28	A meta data warehouse shall be used to define all assets, physical or logical.			
29	The Centralized IOT Platform shall provide a user friendly environment for:- a. Building contextual models b. Accessing and integrating data from different sources c. Performing analyses. d. Generation of logical events e. Generation of notifications			
30	The Centralized IOT Platform shall make use of data abstraction model based on templates containing necessary attributes, data references and properties.			
31	The Centralized IOT Platform shall allow unification of data from disparate source systems. In addition to time series data coming from the timeseries data base, the system shall support bringing in the data from external relational database in the form of table lookup. In addition, it shall be possible to manually enter these data into the system.			
32	The Centralized IOT Platform shall facilitate creation of relationships between these assets and create multiple representations of same assets based on hierarchy, role or function. The system shall have the flexibility for creating user configurable hierarchies. There shall be no restrictions on the number of hierarchies that can be created in the system.			
33	It shall be possible to create multiple templates for different type of assets which allow users to create commonalities between different objects. It shall also be possible to create parent and child templates for managing and handling similar type of assets with slight variations.			
34	Creation and managing of the templates shall be user configurable and should not involve any programming or coding.			
35	Whenever the templates are updated or modified, it shall immediately reflect in all instances created from that template.			
36	There shall be no limit on the number of hierarchies, templates, assets or analysis that can be created within the system.			
37	The Centralized IOT Platform shall support a rich set of units of measure libraries using which it shall be possible to easily convert between units without the need to uses additional formulas/calculations for conversion. i.e. if the source data is defined and being recorded in a certain unit (eg. kW) and the template or asset value field is defined using a different unit (eg. MW), the system shall be capable of automatically handling such conversions.			
38	The Centralized IOT Platform shall have a powerful real-time streaming calculation engine that shall enable users to configure, schedule and run calculations using a wide variety of functions and performance equations.			
39	Using the calculation engine, it shall be possible to generate Key Performance indicators and matrices using historical, real time and future data. It shall be possible to calculate equipment availability, equipment and process performance calculations, rate of change calculations, logical expressions, arithmetic, trigonometric and logarithm calculations, steam tables			

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	and enthalpy calculations, linear regression, standard deviations and other first principle-based analysis and calculations.			
40	The Centralized IOT Platform shall be able to run the analysis over an earlier time period to backfill data for the data points mapped to its outputs and stored in the history/archive of the output tag. In case the values for the inputs of a calculation have changed it shall be possible to recalculate update the calculation results accordingly.			
41	The Centralized IOT Platform shall be capable of defining rules for automatically detecting and logging repeatable events that have a start and end time such as process events, downtime, shifts, startups, batch processes etc. The captured events shall automatically create references to process data along with its context so that users can analyze, compare and report similar events.			
42	The Centralized IOT Platform shall have notification functionality where real time alerts of events can be sent to people or systems.			
43	It shall be possible to acknowledge the notifications. Facility shall be available to resend open notifications periodically or even escalate the notification to a different user in case the notification is not acknowledged, or appropriate action is not taken by the user.			
44	Notification to users shall be in the form of SMS and additionally through emails, if required. The Centralized IOT Platform shall integrate with the existing Email exchange server.			
45	Notification to other system shall be in the form of webservices (SOAP and REST). Using this it shall be possible to trigger automatic workorders or workflows in the external system.			
46	The Centralized IOT Platform shall support an easy-to-use self-service and scalable visualization tool that will enable all users to gain insights into critical operation and processes in real-time.			
47	The tool shall be intuitive, web-based and shall enables users to retrieve, monitor, and analyze data to provide a deep level of operational intelligence.			
48	It shall have ready to use symbol sets to visualize data in the form of trends, tables, values, gauges, and XY plots. It shall also support a rich set of graphical symbol library.			
49	The visualization and reporting tools shall tightly integrate with the rich contextualized, asset-based data models leveraging common asset lexicons, calculations and alerting. Navigation tree to visualize the data hierarchy shall be provided			
50	The displays or dashboards created shall support symbol collection and context switching eg. A group of symbols or display created for one asset shall be automatically applicable for assets of similar templates without having to recreate the displays.			
51	It shall support configuration of multi-state symbols to create visual alarms for critical process states. Using multi-states, it shall be possible to dynamically hide symbol visibility and change text and symbol colour on display based on real time data update.			
52	Facility shall be available to create ad-hoc displays, analysis and calculations for deep dive analysis directly on the same environment via the web browser. The ad-hoc displays shall enable creation of summary			

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	traces with customizable intervals. Eg. for a given data stream, the system shall be capable of displaying summary traces such as maximum, minimum, average etc. These summary traces shall be dynamically calculated based on the time duration and time interval selected by the user.			
53	Feature to categorize, visualize, analyze and compare events shall be available. It shall be possible to overlay similar events and their parameters for comparative analysis. Users shall also be able to acknowledge, annotate, add reason codes and attach files and images to events. It shall be possible to view parent child events in the form of Gantt chart.			
54	It shall enable sharing of displays with other members of a group or anyone with access to system.			
55	The tool shall support touch mode for touch enabled devices such as mobiles, tablets, 2in1 hybrid laptops etc. Touch-sensitive device gestures shall support functions such as drag & drop, pan, zoom, select etc using the touch functionalities of the device.			
56	The system shall have provision to write custom symbols and tool panes, including unique or industry-specific ways of visualizing data.			
57	It shall be possible to embed and call other web-based applications so that multiple applications displays can be viewed in the same environment.			
58	An excel add-in tool shall be made available to retrieve, monitoring, analyzing, and reporting data directly into excel worksheet. It shall be possible to retrieve raw, calculated and contextual information directly into excel. This shall be used for creating user customizable, free form reports leveraging the combined power of the tool and excel.			
59	The tool shall be used in such a way that a templated created in excel shall automatically update based on the time range and asset selected.			
60	The Centralized IOT Platform shall provide integration capabilities with multiple enterprise systems and applications. It shall provide a wide variety of tools for to integrate and exchange data with third party systems. There shall be no limitations in the number of systems with which the Centralized IOT Platform can integrate.			
61	The Centralized IOT Platform shall support following technologies for sharing all data and related asset information: a. SQL-based data access (OLEDB Provider, OLEDB Enterprise, JDBC Driver, PostgreSQL) b. OPC specifications (OPC DA/HDA Server) c. Service-oriented architecture (RESTful Services over HTTPS) d. Programmatic access (.NET Framework)			
62	Solution proposed should have pre-built integrator for streaming real time data to GIS for quick implementation.			
63	Should be an integrated COTS solution having Data Acquisition, Storage, Analysis, Visualization along with out of the box integration tools for GIS application integration			
64	Support future data such as predicted or forecasted data which has a future timestamp			
65	Capability to collect and store data for 20,000,000 or more data streams, tags, or points			
66	Sustain inbound data rates of minimum 400,000 events per second to disk			

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67	Capture events at a sub-second rate			
68	Sustain outbound data rates of 500,000 to 2,000,000 events per second at least expected			
69	Product technical support shall be available 24x7 from trained customer support engineers available over call centre (toll free/ non toll free) and web for failure alerts available under the centralized dashboard depiction.			

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – Q

MANUFACTURER’S AUTHORIZATION FORM

Date:

To
Webel Technology limited
Plot-5, Block-BP, Sector-V
Salt Lake
Kolkata-700 091

Ref: Tender No.: WTL/PHE/WC/24-25/013 dated 25.09.2024

WHEREAS _____ who are official producers of _____ and having production facilities at _____ do hereby authorize _____ located at _____ (hereinafter, the “Bidder”) to submit a bid of the following Products produced by us, for the Supply Requirements associated with the above Invitation for Bids.

When resold by _____, these products are subject to our applicable standard end user warranty terms.

We assure you that in the event of _____, not being able to fulfill its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements.

We also confirm that _____ is our authorized service provider/system integrator and can hence provide maintenance and upgrade support for our products.

We also confirm that the products quoted are on our current product list and are not likely to be discontinued within from the day of this letter. We assure availability of spares for the products for the next two years after warranty period.

We also confirm that the material will be delivered within 30(thirty) days from the date of placement of confirmed order.

Name _____ In the capacity of _____

Signed _____

Duly authorized to sign the authorization for and on behalf of _____

Dated on _____ day of _____ 2024

Note: This letter of authority must be on the letterhead of the Manufacturer and duly signed by an authorized signatory.

WEBEL TECHNOLOGY LIMITED

SECTION – S

CHECKLIST FOR ELIGIBILITY CRITERIA

(Tender No. WTL/PHE/WC/24-25/013)

Sl. No.	Eligibility Criteria	Compliance (Yes / No)	Documents Attached at Page No of Technical Bid
1.	The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.		
2	The bidder should have their presence in the "State" with own office along with WBGST. Valid proof should be in the form of GST certificate should be submitted along with the bid.		
3	The bidder should have valid WBGST Registration Certificate & PAN. Bidder shall have to submit photocopy of the documents.		
4	The bidder should have a total turnover of not less than Rs. 10.00 Cr. covering the last five financial years (considering FY 19-20,20-21,21-22,22-23 & 23-24). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.		
5	The Bidder should have completed a single project of atleast INR 1.0 Cr in the area of IT/ITeS implantation intervention related project for Central Government / State Government / Urban Local Bodies/ PSU in India. Bidder should submit reference order copy with completion certificate/payment certificate with all relevant details for the project to be provided.		
6	The bidder/OEM shall have executed IoT based Environmental Monitoring work of single order an amount not less than total Rs.10.00 Cr. In last three financial years and current financial year (considering FY – 2021-22, 2022-23, 2023-24) in Government Department/PSU/Autonomous Govt. Body. References order copy with completion certificate/payment certificate with all relevant details for the project to be provided.		
7	The bidder/OEM shall have executed the work of installing Combined Environmental Monitoring & Awareness Solution including Water Quality/ Noise Monitoring Terminals / Ambient Air Quality & Display Board with Mobile App of not less than total Quantity of 200 locations in last the three financial years and current financial year (considering FY – 2020-21, 2021-22, 2022-23) for any State or Central Government department / SPSU / CPSU. References order copy with completion certificate/payment certificate with all relevant details for the project to be provided.		
8	Bidder & OEM should have local call center number. Call Center details for Bidder & OEM with number & detailed to be submitted.		
9	Manufacturer's tender specific authorizations for IoT based Water Quality Sensors & Calibrator must be submitted as per format (Section – Q) duly signed by the authorized signatory of the company.		
10	OEM should have authorized service center/replacement centers in the State of West Bengal. Service Center details to be submitted as per format (Section – R) duly signed by the authorized signatory of the company.		
11	The bidder shall submit Bid Form (Section – E) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.		
12	Bidder shall submit NIT Declaration (Section – O) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.		

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13	Manufacturer registration certificate: Must be registered as a manufacturer of that product or equivalent in DGTD/SSI/SIA/Udyam. Certificate copy to be submitted.		
14	Manufacturer should be Indian manufacturer with Indian product qualifying for Q1 category of more than 50% indigenous in line with "Atmanirbhar Bharat" as per Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017. The OEM authorization should come from the India based manufacturer. OEM should submit declaration in OEM letter head in adherence to the requirements in the mentioned order number or any linked updates on the said order. Refer Section – T & Section – U for format. Deviation in format may not be accepted.		
15	The OEM should have minimum ISO certification of ISO 9001:2015. Certificate to be submitted.		
16	The Water Quality Monitoring systems (from the OEM) should have a certified accuracy of at least 85% (higher is always preferred) as compared to reference grade stations or as mentioned in (Section P) of the NIT.		
17	The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral/multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.		
18	The bidder should have a presence in the form of offices or engineers in at least 5 districts of West Bengal (covering the state spread). This should be substantiated via proof of office or proof of permanent staff at West Bengal. Declaration from HR Head in company letter head should be submitted.		

Note: Bidder should clearly mention the page no or identification mark for contents of the document. The document submitted should mention all their respective submission as per RFP with proper page no. or identification marking

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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SECTION – T

LIST OF LOCATIONS

Sl. No.	Probable Location List
1	North 24 Parganas
2	Bankura
3	Paschim Midnapur
4	Purba Midnapur
5	Murshidabad
6	Malda
7	Uattar Dinajpur
8	Dakshin Dinajpur
9	Alipurduar
10	Coochbehar
11	Jalpaiguri
12	Darjeeling
13	Jhargram
14	Nadia

Probabilistic count around 400 plus, which may vary based upon scheme addition or deletion. Splitting ratio will be implemented on the actual available site and location distribution will also be entirely rest upon WTL authorities.

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SECTION – U

MAKE IN INDIA CERTIFICATE

In line with Government Public Procurement (Preference to Make in India), Order 2017, P- 45021/2/2017-PP (BE-II) dated 16.09.2020 and subsequent clarification No P-45021/102/2019- BE-II-Part(1) (E-50310) dated 04.03.2021, we hereby certify that we **M/s.....**, is local supplier meeting the requirement of minimum local content _____(in %) as defined in above order for the material against Tender No. WTL/PHE/WC/24-25/013 dated 25.09.24.

Details of location at which local value addition will be made is as follows:

_____ (Place).

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

The above declaration does not include services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc as local value addition.

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, this.....day of.....2024

WEBEL TECHNOLOGY LIMITED

SECTION - V

LAND BORDER DECLARATION CERTIFICATE

Restrictions on procurement from Bidders from a country or countries, or a class of countries under Rule 144(xi) of the General Financial Rules 2017.

Tender Document No: WTL/PHE/WC/24-25/013 dated 25.09.24

Bidder's Name: (Bidder Address & contact details)

Bidder's Reference No. Date:

Restrictions on procurement from Bidders from a country or countries, or a class of countries under Rule 144(xi) of the General Financial Rules 2017.

“We have read the clause regarding restrictions on procurement from a Bidder of a country which shares a land border with India; and solemnly certify that we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed).

We hereby certify that we fulfill all requirements in this regard and are eligible to be considered.”

Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and also undertake to advise any future changes to the above details. We understand that any wrong or misleading self-declaration by us would be violation of Code of integrity and would attract penalties as mentioned in this tender document, including debarment.

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, this.....day of.....2024