

Name of Work_CP-24: Design/Engineering, Construction, Commissioning of Centralized SCADA Centre for Monitoring & Control of Water Treatment Plants and Distribution System, Sewerage SCADA for Monitoring of all Sewerage Facilities of BWSSB with Comprehensive Operations and Maintenance of Seven (7) Years



PREBID REPLY TO BIDDERS QUERY

Sr. No.	Tender In	Location in Document	Page No.	Text in Tender	Query / Suggestion	BWSSB REPLY
01		Vol 1	5	Bids (Technical and Financial) Original - 2 Copies, must be delivered to the address given above (in para 4) on or before the date and time specified in the schedule below	We understand bid can be delivered by hand to the mentioned address before the prescribed time, please confirm	Confirmed
02		Vol 1-Section III Evaluation and Qualification Criteria 1.1.2 Equipment-9	23	Panel Manufacturing facility-CNC punch press/Laser cutting machines, CNC bending machine, Laser welding machine, CNC gasket machine	This facility will not be available with any EPC Contractor. This is available and maintained by Panel manufacturers only. The clause will restrict the competition. We request you to kindly delete this clause.	As per bid conditions
03		Vol 1- 2.3.2 Average Annual Turnover	30	Minimum average annual turnover of USD 11 Million calculated as total certified payments received for contracts in progress and / or completed, within the last 5 years divided by 5 years.	Turn over should be from Water Supply / Sewerage Automation Projects only. We request that the clause be amended accordingly	The Contracts here means relevant contracts
04				Joint Venture	Please mention maximum no of JV members allowed for making JV for this tender	There is no specific restriction on the number of JV members
05		2.4.2 (d) Specific Experience Instrumentation	36	The bidder shall have NABL certified testing & calibration laboratory /Testing & calibration laboratory as per ISO/IEC 17025 for Flowmeter cum transmitter, Pressure Transmitter, and shall demonstrate experience in the role of Prime Contractor (Single entity or JV member for installation & commissioning of minimum 25 Electromagnetic Flowmeters (Instrumentation) in the distribution network in a single project	This is a certification that is needed and taken by the manufacturer / OEM of flow meters, pressure transmitters etc. As the Bidder or EPC procures the same as one of the components the same is not needed to be obtained by the Bidder / EPC as they do not manufacture flow meters. The requirement may kindly be modified as below "The bidder / OEM for flow meters shall have NABL certified testing & calibration laboratory / Testing & calibration laboratory as per ISO/IEC 17025 for Flowmeter cum transmitter and the bidder/OEM shall demonstrate experience in the role of Prime Contractor (Single entity or JV member for installation & commissioning of minimum 25 Electromagnetic Flowmeters (Instrumentation) in the distribution network /sewerage system in a single project"	As per bid conditions
06		Notes for the Applicant	37	The Bidder shall be essentially an original Equipment Manufacturer (OEM) for SCADA software & Automation (PLC) hardware or shall be an Authorized System Integrator/authorized specialist sub-contractor for the OEM for a minimum continuous period for minimum last 10 years period.	This is a restrictive condition and we request the same to be deleted in the interest of healthy competition. In lieu we request that an authorization from the OEM authorizing the Bidder to quote with their products be kindly accepted	As per bid conditions
07		Notes for the Applicant	37	Note: Only one system integrator/authorized specialist sub-contractor per OEM shall be allowed for bidding. If more than one specialist sub-contractor/system integrator for the same OEM shall bid, such bids shall be rejected.	This is a restrictive condition and we request the same to be deleted in the interest of healthy competition. In lieu we request that an authorization from the OEM authorizing the Bidder to quote with their products be kindly accepted	As per bid conditions
08		Section VIII - Particular Conditions of Contract- 4.2 Reductions in Performance Security from the end of	100	40% of Performance Security for the design shall be returned at the end of the Retention Period	Please clarify when the retention period will be completed for this purpose	Retention Period is 1 year from the completion of Design Build period.
09		Section VIII - Particular Conditions of Contract - 9.6 Delay damages	101	0.1 % of the Accepted Contract Amount for the Design-Build Period for every day of delay.	We request force majeure clause to be included in the tender to safe guard contractor and Client	It is already included under GCC Clause No 18, Exceptional Risks
10		Section VIII - Particular Conditions of Contract 13.5 (b)	101	Percentage rate to be applied to Provisional Sums 5%	Please elaborate the meaning of provisional sums and the details of the same for this contract	The same is explained clearly in GCC Clause No 13.5. Bidder to refer the same
11		Section VIII - Particular Conditions of Contract- 14.1 The Contract Price	113	The amount of applicable Goods & Services Tax (GST) will be paid separately to the Contractor with each bill at the time of payment	Please clarify if the Bidder should quote rates inclusive of all taxes and duties or the Client will pay the taxes such as GST etc over and above the quoted rates	Please refer Bid Data sheet Clause No ITB 18.7
12			126-129	Payment schedule	We request you to please elaborate the payment schedule for a. Payment on supply of materials b. Payment on installation of materials c. Payment on commissioning & Go live	As per Bid document
13		Vol 2 - 1.4 Description and Scope of Work	6	The contractor shall co-ordinate with the existing CSC O&M contractor and take complete handover of the existing system including all of its ancillaries systems, hardware, and installed remote wireless GPRS communication equipment from the existing O&M contractor.	It is understood that since the existing contract period is still not over and the existing contractor shall on a "No Cost" basis provide handover of all equipment of the earlier contract in "working condition. In addition the existing contractor shall provide the necessary technical support on a "No Cost" basis for effective and acceptable migration of the old system to the new envisaged system. Please confirm the above is correctly understood	1) Confirmed The existing contractor shall handover of the existing system to BWSSB and return BWSSB shall handover the system to the successful bidder. 2) Confirmed The successful bidder shall co-ordinate with the existing contractor and obtain the necessary information
14		Vol 2 -1.4 Description and Scope of Work	6	Upon taking over of the entire system, the contractor shall operate and maintain the entire system till the old system is migrated to the new centralized SCADA system with required manpower	Please provide the BOQ / Scope of the existing system and status of each component to assess the cost that must be considered towards maintaining the old (nearly ten years old) system	The successful bidder shall operate and maintain the current system till the old system is migrated to the new centralized SCADA system with required manpower. The contractor is encouraged to visit the site and obtain the details as required. The current system architecture of the existing system



15				Water SCADA. The water SCADA system shall integrate all existing water treatment facilities at T K Halli (all stages) & T G Halli locations (currently plant is under construction and data shall be integrated on completion). Water pumping stations at T K Halli, Harohalli and Tataguni locations (all stages), inclusive of the surge vessel locations, all Ground level reservoirs (GLR's) of BWSSB. The above facilities shall be integrated with the centralized SCADA server.	Please provide the expected completion date for the sites which are under construction as on date	The tentative dates are as below 1 CP-02-March 23, 2 CP-03 March 23, 3 CP-04-March 23, 4 CP-07 April 23, 5 CP-08 April 23, 6 CP-09 February 23, 7 CP-10 April 23
16	Vol 2 - 1.4 Description and Scope of Work - 6,7,8	7	6) T K Halli Location. The contractor under this contract shall provide the FOC integration panel, wireless communication modules and integrate the following facilities 7) Harohalli Location. The contractor under this contract shall provide the FOC integration panel, wireless communication modules and integrate the following facilities 8) Tataguni Location. The contractor under this contract shall provide the FOC integration panel, wireless communication modules and integrate the following facilities	We understand that Fiber Optic Cable has already been laid at these locations and contractor has to provide FOC integration Panels and integrate with SCADA System only. Please confirm our understanding is correct	The bidder understanding is "Not Correct". The bidder shall note that only FOC cable ducts/pipes required for laying of the FOC are being laid under various ongoing contracts along the main pipeline route from T K Halli to Vajrahalli. The contractor scope of work shall include design, supply, installation of FOC cables in the FOC ducts, laying of FOC cables and ducts from the main cable duct/pipe up to the individual stations. FOC integration panel and integration with the local control systems and field instruments at these locations with all required hardware to achieve integration of data and equipment.	
17	Vol 2 - 1.4 Description and Scope of Work - 6,7,8	8	Network visualization - shall include both Geographic view and schematic view	Please elaborate methodology to be used for the Geographic Visualization	It shall be with google earth and survey with total station to achieve accurate network visualization. Shall be integrated with BWSSB GIS system.	
18	Vol 2 - 1.4 Description and Scope of Work - 6,7,8	9	The contractor scope of work shall include integration with existing servers (UFW SCADA server, Bulk flowmeter server, etc). The contractor shall integrate all the data from the existing servers at the existing control center	Please provide the details such as system configuration, database used and Please confirm that the same shall be made available to the successful bidder on a "No Cost" basis by the existing solution implementation / maintenance company	The same shall be provided on no cost basis. The current system configuration is attached	
19	Vol 2 - 1.4 Description and Scope of Work - 6,7,8	9	Sewerage SCADA-The contractor scope of work shall include migration & integration of all existing STP which are integrated with the existing sewerage SCADA server	Please provide the details such as system configuration, database used and Please confirm that the same shall be made available to the successful bidder on a "No Cost" basis by the existing solution implementation / maintenance company	The same shall be provided on no cost basis	
20	Vol 2 - 1.4 Description and Scope of Work - 37	14	37) Design, supply installation, testing and commissioning of redundant Fibre optic Communication network from T K Halli to Vajrahalli Junction. Note: The FOC ducts required for laying the FOC cabling are being installed under various pipeline contract	a. Please provide approximate route and quantity required for laying fibre optic cable. b. Please provide the route map of already laid FOC ducts. This will enable the bidders to evaluate and quote for the same.	A. For the route map, please refer drawing ONTB BWSSB(3)-CP24-CSC-008 B. For the route map, please refer drawing ONTB BWSSB(3)-CP24-CSC-008 The FOC ducts laying is currently under progress under various contracts. Please refer to earlier reply to the expected date of completion for various contracts.	
21	Vol 2 - 1.4 Description and Scope of Work - 37	18	Note: Scope of work shall also include construction of flowmeter chambers for all the flowmeters. Contractor shall note that all the flowmeter locations are "LIVE Locations i.e in service condition"	Please provide the drawings and detailed specification of the chamber work (as per the flow meter size) to be done at site for the flow meter installations	Refer Addendum-1	
22	1.5 Ground Level Reservoirs (GLR) to be integrated with Centralized SCADA Center	18	Integration panel comprising of Standalone PLC with 8" touch panel color Human machine interface (HMI),	Kindly keep the size of Touch Panel (HMI) as 7" x 7" is widely manufactured by most of the OEMs	Bidder to consider 10" touch panel HMI if 8" is not available	
23	1.5 Ground Level Reservoirs (GLR) to be integrated with Centralized SCADA Center, 6		UPS system for all field instrumentation and automation, communication equipment installed as part of this contract. Minimum 1 KVA UPS system shall be installed, however if more than 1 KVA load is required, the same shall be provided at no extra cost to BWSSB	Kindly allow DC UPS to be provided as an option	Confirmed	
24	1.7 Online Realtime Flow & Pressure Measurement At Strategic Locations In The Water Distribution Network	18	Flow measuring devices comprising of battery operated Electromagnetic flowmeters cum transmitters and data loggers, pressure transmitters at key locations in the water distribution network pipelines. The output of the same shall be transmitted in real time to the centralized SCADA system.	Please confirm that the accumulated reading of flow from the battery operated flow meter shall be acceptable. We foresee a substantial element of confusion as some reading will be real time while some will be of past (as the battery operated flow meter only send readings once or twice in every 24 hours cycle)	As per bid conditions. In battery powered, though the number of transmission are limited, the data interval for store and forward is envisaged as 15 minutes. Thus effectively the real time data at shorter interval is acquired	
25	Panel Enclosure	16-24 and other locations	IP 68 Panel Enclosure	Please note that IP 68 enclosure panels are not manufactured by any manufacturer of Control Panels and hence we request you to kindly revise the specification to a practically implementable one.	Bidder to consider IP-65	
26	Staffing Requirements	1.9, Page 21	The staffing schedule shall be prepared for operating the centralized SCADA center on a 24 hour per day basis with two equal shifts during the complete 84 month comprehensive O&M contract period	Please note that as per the government guidelines a shift can be a maximum of 8 hours and weekly off must be provided to all employees. For the purpose of receiving bids at par please specify the staff expected to be during the O&M period as a "minimum requirement" with "minimum qualifications" as per government labour guidelines	Staffing during the comprehensive O&M period should be on a 24 hour per day basis. The deployment of manpower will be as per government norms.	
27	1.12, Access for Other Contractors	1.9, Page 21	If the work of the Contractor is delayed because of any acts or omissions of any other contractor, the Contractor shall have no claim against the Employer on that account other than for an extension of time	Please note that no bidder can take responsibility of timely completion of work of other contractors. We would suggest deletion of this requirement.	No delay damages will be levied on the Contractor under such circumstances. However in similar lines no claims will be accepted from the Contractor other than Time Extension.	
28		1.9, Page 21	Details of other contracts taking place on the same Site or adjoining the Site or being simultaneously executed are as follows: Contract No. Existing Raw Water Transmission Main. Contract for the construction of the raw water pipeline to the treatment plant. Contract No-CP-02: Water Treatment Plant at TK Halli (775 MLD output Water Treatment Plant with all necessary Electrical, Mechanical, Instrumentation, SCADA etc.)	Please provide the necessary details of the scope of instrumentation and SCADA system being executed in these contracts so that bidders can get a clear idea of the scope of integration that they must consider as a part of the envisaged contract and bids submitted shall be at par. We would also suggest a site visit to be done at the sites where the work is completed / in progress to get an assessment of integration. This will enable the BWSSB to receive at par bids	The scope of works at each of the mentioned locations comprise of PLC based SCADA systems with field instrumentation for Water treatment plant, pumping station, field instrumentation and automation for Intake structure which shall communicate to the WTP.	
29	Part 2- General Requirement 2.1.3 Specification	44	The contractor shall submit with his bid a detailed and substantive specification of all equipment (in six copies) and shall also give full particulars of the spare parts of the proposed plants & equipment, electric equipment, instruments and other appurtenant	In volume -1 it is mentioned as original bid + 2 copies to be delivered, please confirm how many additional copies to be submitted along with original bid	It is Original + 2 Copies	
30	2.8 Programme Details	56	No extension of time will be granted by the Employer in respect of inclement weather or its effects (such as floods or droughts), fire or industrial disputes, unless such events could not reasonably have been foreseen by an experienced Contractor. All allowances to guard against such delays shall be clearly indicated in his programme	Floods, droughts fire or industrial disputes, are not in the bidders or the client's control. In addition they are impossible to predict. Please include Force Majeure clause to cover the same	The Exceptional Risk Clause is included in GCC 18	
31	Key Milestones to be met by Contractor, 2.2	57	Implementation and GoLive & Android/iOS App	The progress expected is 100% in 03 months as per the chart. There seems to be an error, please rectify	As per bid conditions. This involves design and implementation of project management module and online document system, which is required to be fully implemented to enable BWSSB to monitor and execute the project from the start of the contract award period	



32	2 12 Photographs	62	In accordance with the requirements of the Conditions of Contract the Contractor shall supply negatives of photographs and unmounted positive colour prints not less than 250 x 200 mm of such portions of the Works, in progress and completed, as may be directed by the Engineer and specified herein. The negatives and prints shall not be retouched. The negative of each photograph shall be the property of the Employer and shall be delivered to the Engineer with the prints. No prints of these negatives shall be supplied to any other person without the written permission of the Engineer.	Please accept digital format media for the same	As per Bid conditions
33	2 13 Site Labour and Supervision	63	The Contractor shall not remove any supervisory staff or skilled labour from the Site without the Employer's prior approval	The condition is not practical Please consider deletion of the same	As per Bid conditions
34	2 21 Contractor's Office and Stores	66	The Contractor shall be responsible for the provision and sufficiency thereof of his Site-office and storage facilities as would be necessary throughout the execution of the Works	Please allow for storage at predefined and demarcated BWSSB premises for the equipment related to this work	As per bid conditions Bidder has to make his own arrangements for the same
35	2 24 Delivery, Loading, Unloading and Storing at Site	67	Delivery, Loading, Unloading and Storing at Site	We understand storage facility shall be provided by BWSSB. Kindly confirm	As per bid conditions Bidder has to make his own arrangements for the same
36	3 1 Vendor Qualification Criteria	86	Note-2: The contractor shall note that the approved vendor list indicated in particular requirements elsewhere in the specification, is only for the product make indicated. The contractor shall ensure that the make meets the technical specifications as specified in the technical specifications.	We understand that makes alternate to the ones in the provided Vendor List can be suggested and will be approved by the Client for use in the work Please confirm that our understanding is correct.	The bidder can suggest alternate vendors as per the applicable clause's and requirements in the specifications during detailed engineering stage
37	3 2 Management Information System (MIS)	87	a. The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of not less than Ten Million INR. b. Agency shall also submit bank solvency Certificate of not less than Ten Million INR issued by Nationalized bank	Please confirm if these are qualification conditions and if non compliance will be a reason for rejection of the Bid	The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
38	3 3 Instrumentation (Level, Flowmeters -GLR)-System Integrator	87	The agency should have minimum 15 years of experience in India in the field of instruments supply, installation, testing & commissioning and operation and maintenance of instruments in plants as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing control systems from different manufacturers as well as coordination with multiple agencies for contract execution. The agency shall be an authorized channel partner for the instrumentation equipment for minimum two years. Verification certificates signed not less than the country head of OEM shall be submitted as part of vendor credentials submission.	Please note that the contract may be bid for by an EPC in which case the bidder may not necessarily be a manufacturer for various equipment like instrumentation etc. For such a bidder this condition is irrelevant as he can procure equipment from various OEMs on basis of the technical requirements of individual projects. It may also be noted that all the OEMs as per Vendor List do not appoint any System Integrators / authorized channel partners as a business practice. They do however sell their products to EPC who approach them for the same. We find this a restrictive requirement that will limit fair competition and request you to kindly delete the same.	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
39			The agency shall have executed & completed at least ten individual project's with minimum all of the instruments (Electro-magnetic flowmeter/Insertion Type Flowmeter, Ultrasonic level Transmitter) for GLR or water distribution network within India or outside India during the last five years period, inclusive of supply, installation, testing & commissioning and operation and maintenance period of minimum 1 year within India or outside India with any government organization/utility.	Please note that most OEMs do not execute projects as a business practice. Hence the OEM will not be able to produce the required documentation. It is the EPC who has the experience of having provided the required instruments and maintained the same. We request that this experience be verified from the Bidder than from the OEM.	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
40			The agency shall demonstrate that it has service and calibration facility with trained service engineers (minimum 10 Engineers trained by OEM) available and are full time employees of the agency	Please note that looking at the total quantum of requirement of these products and the expected engineers is very high. The staff trained by OEM will be needed on commissioning of the work and in case of an EPC they will be the employees of the EPC itself. We request that the successful Bidder be allowed to submit an undertaking to provide the suitable number of trained staff.	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
41	3 4 Instrumentation (Flowmeters & pressure - Distribution Network, Sewage Network)- System Integrator	88	The agency should have minimum 15 years of experience in India in the field of instruments supply, installation, testing & commissioning and operation and maintenance of instruments in plants as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing control systems from different manufacturers as well as coordination with multiple agencies for contract execution. The agency shall be an authorized channel partner for the instrumentation equipment for minimum two years. Verification certificates signed not less than the country head of OEM shall be submitted.	Please note that the contract may be bid for by an EPC in which case the bidder may not necessarily be a manufacturer for various equipment like instrumentation etc. For such a bidder this condition is irrelevant as he can procure equipment from various OEMs on basis of the technical requirements of individual projects. It may also be noted that all the OEMs as per Vendor List do not appoint any System Integrators / authorized channel partners as a business practice. They do however sell their products to EPC who approach them for the same. We find this a restrictive requirement that will limit fair competition and request you to kindly delete the same.	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
42			The agency shall have executed & completed at least ten individual project's with minimum all of the instruments (Electro-magnetic flowmeter with data logger, Pressure Transmitter, Wireless communication network) for water distribution network /sewerage network within India or outside India during the last five years period, inclusive of supply, installation, testing & commissioning and operation and maintenance period of minimum 1 year within India or outside India with any government organization/utility	Please note that most OEMs do not execute projects as a business practice. Hence the OEM will not be able to produce the required documentation. It is the EPC who has the experience of having provided the required instruments and maintained the same. We request that this experience be verified from the Bidder than from the OEM.	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
43			The agency shall demonstrate that it has service and calibration facility with trained service engineers (minimum 10 Engineers trained by OEM) available and are full time employees of the agency	Please note that looking at the total quantum of requirement of these products and the expected engineers is very high. The staff trained by OEM will be needed on commissioning of the work and in case of an EPC they will be the employees of the EPC itself. We request that the successful Bidder be allowed to submit an undertaking to provide the suitable number of trained staff.	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.

44		3.5 On-line Real Time Water Quality Multi Parameters Instrument In Water Distribution Network- System Integrator	88	The agency should have minimum 15 years of experience in India or outside India in the field of instruments supply, installation, commissioning and operation and maintenance of instruments in plants and minimum seven years of experience in the field of On-line Real Time Water Quality Multi Parameters Instrument design, supply, installation, testing & commissioning as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing instrument systems from different manufacturers as well as coordination with multiple agencies for contract execution	Please note that the contract may be bid for by an EPC in which case the bidder may not necessarily be a manufacturer for various equipment like instrumentation etc For such a bidder this condition is irrelevant as he can procure equipment from various OEMs on basis of the technical requirements of individual projects It may also be noted that all the OEMs as per Vendor List do not appoint any System Integrators / authorized channel partners as a business practice. They do however sell their products to EPC who approach them for the same. We find this a restrictive requirement that will limit fair competition and request you to kindly delete the same	As per bid conditions The successful bidder upon contract award shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
45			89	The agency shall be an authorized channel partner for the instrumentation equipment proposed for minimum three years from the date of bid. Verification certificates signed not less than the country head of OEM shall be submitted	Please note that most OEMs donot execute projects as a business practice. Hence the OEM will not be able to produce the required documentation It is the EPC who has the experience of having provided the required instruments and maintained the same We request that this experience be verified from the Bidder than from the OEM	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
46				The agency shall submit documentation that its registered with any Government utility within India or outside India The agency shall have executed & completed at least ten individual project with minimum 10 multi parameters instruments within India or outside India during the last five years period, inclusive of supply, installation, testing & commissioning and operation and maintenance period of minimum 1 year within India or outside India with any government organization/utility	1. Please clarify the meaning of "registered with any Government utility within India or outside India" 2. Will it suffice to produce proof that the OEM products have been used in any Government utility within India or outside India? We request that this experience be verified from the OEM instead of Agency or the Bidder	1. Shall read as " approved " 2. As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
47				The agency shall demonstrate that it has service and calibration facility with trained service engineers available and are full time employees of the agency	The staff trained by OEM will be needed on commissioning of the work and in case of an EPC they will be the employees of the EPC itself We request that the successful Bidder be allowed to submit an undertaking to provide the suitable number of trained staff.	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
48		3.6 On-line Real Time Influent & Effluent Sewage Quality Multi Parameters Instrument- System Integrator	89	The agency should have minimum 15 years of experience in India in the field of instruments supply, installation, commissioning and operation and maintenance of instruments in plants and minimum seven years of experience in the field of On-line Real Time Water Quality Multi Parameters Instrument design, supply, installation, testing & commissioning as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing instrument systems from different manufacturers as well as coordination with multiple agencies for contract execution. The agency shall be an authorized channel partner for the instrumentation equipment proposed for minimum three years from the date of bid. Verification certificates signed not less than the country head of OEM shall be submitted. The agency shall submit documentation that its registered with any Government utility within India or outside India The agency shall have executed & completed at least ten individual project with minimum 10 multi parameters instruments within India or outside India during the last five years period, inclusive of supply, installation, testing & commissioning and operation and maintenance period of minimum 1 year within India or outside India with any government organization/utility	Please note that the contract may be bid for by an EPC in which case the bidder may not necessarily be a manufacturer for various equipment like instrumentation etc For such a bidder this condition is irrelevant as he can procure equipment from various OEMs on basis of the technical requirements of individual projects It may also be noted that all the OEMs as per Vendor List do not appoint any System Integrators / authorized channel partners as a business practice. They do however sell their products to EPC who approach them for the same. We find this a restrictive requirement that will limit fair competition and request you to kindly delete the same	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works.
49				The agency shall be an authorized channel partner for the instrumentation equipment proposed for minimum three years from the date of bid. Verification certificates signed not less than the country head of OEM shall be submitted	1. Please clarify the meaning of "registered with any Government utility within India or outside India" 2. Will it suffice to produce proof that the OEM products have been used in any Government utility within India or outside India? We request that this experience be verified from the OEM instead of Agency or the Bidder.	1. Shall read as " approved " 2. As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
50				The agency shall submit documentation that its registered with any Government utility within India or outside India The agency shall have executed & completed at least ten individual project with minimum 10 multi parameters instruments within India or outside India during the last five years period, inclusive of supply, installation, testing & commissioning and operation and maintenance period of minimum 1 year within India or outside India with any government organization/utility	The staff trained by OEM will be needed on commissioning of the work and in case of an EPC they will be the employees of the EPC itself We request that the successful Bidder be allowed to submit an undertaking to provide the suitable number of trained staff.	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
51				The agency shall demonstrate that it has service and calibration facility with trained service engineers available and are full time employees of the agency	The staff trained by OEM will be needed on commissioning of the work and in case of an EPC they will be the employees of the EPC itself We request that the successful Bidder be allowed to submit an undertaking to provide the suitable number of trained staff.	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
52		3.7 Fire Detection, Alarm & Suppression System Integrator.	89	The agency should have minimum 15 years of experience in India in the field of Fire alarm ,detection and suppression equipment for control center as required under this contract for supply, installation, commissioning and operation and maintenance of the same as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing the fire alarm systems from different manufacturers as well as coordination with multiple agencies for contract execution The agency shall be an authorized channel partner for the Fire detection, alarm and suppression system proposed for minimum three years from the date of bid. Verification certificates signed not less than the country head of OEM shall be submitted. The agency shall furnish a brief write-up, backed with adequate data, explaining its available capacity and experience (both technical and commercial) for the execution of the proposed scope of work within the specified time of completion after the meeting all their current commitments	Please note that the contract may be bid for by an EPC in which case the bidder may not necessarily be a manufacturer for various equipment like instrumentation etc For such a bidder this condition is irrelevant as he can procure equipment from various OEMs on basis of the technical requirements of individual projects It may also be noted that all the OEMs as per Vendor List do not appoint any System Integrators / authorized channel partners as a business practice. They do however sell their products to EPC who approach them for the same We find this a restrictive requirement that will limit fair competition and request you to kindly delete the same	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
53				The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of the not less than Five Million INR. Agency shall also submit bank solvency Certificate of not less than Five Million INR issued by Nationalized bank	In our humble opinion as the EPC/ Bidder is taking full responsibility of the contract execution, this may be kindly deleted	As per bid conditions The successful bidder upon contract award,shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works



54	3.8 Interior Design Works for Centralized SCADA Center	91	The contractor shall appoint an agency to carry out all interior design, modification works for the centralized SCADA center as per the requirements of the specification. The agency should have minimum 15 years of experience in India or outside India in the field of interior design works for large control center's required under this contract for supply, installation, commissioning and operation and maintenance of the same and shall demonstrate capability and resources for integrating/interfacing the systems from different manufacturers as well as coordination with multiple agencies for contract execution. The agency shall furnish a brief write-up, backed with adequate data, explaining its available capacity and experience (both technical and commercial) for the execution of the proposed scope of work within the specified time of completion after the meeting all their current commitments. The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of the not less than Ten Million INR. Agency shall also submit bank solvency Certificate of not less than Ten Million INR issued by Nationalized bank	In our humble opinion as the EPC/ Bidder is taking full responsibility of the contract execution, this may be kindly deleted	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
55	3.9 Centralized air conditioning system and Precision air conditioning system	92	The agency on a minimum shall be operating under an accredited ISO 9001:2015 systems. The agency should have minimum 15 years of experience in India in the field of Centralized air conditioning system and Precision air conditioning system for control center as required under this contract for supply, installation, commissioning and operation and maintenance of the same for control center as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing the air conditioning systems from different manufacturers as well as coordination with multiple agencies for contract execution. The agency shall furnish a brief write-up, backed with adequate data, explaining its available capacity and experience (both technical and commercial) for the execution of the proposed scope of work within the specified time of completion after the meeting all their current commitments. The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of the not less than Five Million INR. Agency shall also submit bank solvency Certificate of not less than Five Million INR issued by Nationalized bank	In our humble opinion as the EPC/ Bidder is taking full responsibility of the contract execution, this may be kindly deleted	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
56	3.10 Cyber security of the centralized SCADA center with Software Firewall & hardware firewall	92-93	The agency on a minimum shall be operating under an accredited ISO 9001:2015, 27001:2015 systems. The agency should have minimum 10 years of experience in India in the field of providing Cyber security implementation both IT and OT which shall include supply, installation, commissioning and operation and maintenance of the same for control center's as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing the cyber security system with all systems which are connected (both IT and hardware equipment on field) from different manufacturers as well as coordination with multiple agencies for contract execution. The Agency on a minimum, shall have executed & completed at least five individual contracts of cyber security solution for control center's for a city wide projects, within India or outside India, during the last five years period. Verification end user performance certificates shall be submitted for the same. The agency shall furnish a brief write-up, backed with adequate data, explaining its available capacity and experience (both technical and commercial) for the execution of the proposed scope of work within the specified time of completion after the meeting all their current commitments. The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of the not less than Ten Million INR. Agency shall also submit bank solvency Certificate of not less than Ten Million INR issued by Nationalized bank	In our humble opinion as the EPC/ Bidder is taking full responsibility of the contract execution, this may be kindly deleted	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
57	3.11 Fibre Optic Communication System (FOC)-Data Communication Network provider	93	The agency on a minimum shall be operating under an accredited ISO 9001:2015 systems. The agency should have minimum 10 years of experience in India in the field of providing Fibre optic communication system field of water management which shall include supply, installation, commissioning and operation and maintenance of the same, as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing the control and automation system from different manufacturers as well as coordination with multiple agencies for contract execution. The Agency on a minimum, shall have executed & completed at least ten individual contracts in the areas of water management, within India or outside India, during the last ten years period. The agency should have own splicing and testing equipment and details of the same to be submitted. Verification end user performance certificates shall be submitted for the same. Note: In the event, if the OEM intends to execute (design, supply, program, execute and commission) the works, the OEM shall comply in full to the qualification criteria as required in this clause & specification. The agency shall furnish a brief write-up, backed with adequate data, explaining its available capacity and experience (both technical and commercial) for the execution of the proposed scope of work within the specified time of completion after the meeting all their current commitments. The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of the not less than Five Million INR. Agency shall also submit bank solvency Certificate of not less than Five Million INR issued by Nationalized bank	In our humble opinion as the EPC/ Bidder is taking full responsibility of the contract execution, this may be kindly deleted	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
58	3.12 LED Video wall Display System for both Water & Sewerage SCADA	94	The agency on a minimum shall be operating under an accredited ISO 9001:2015 systems. The agency should have minimum Five years of experience in India in the field of providing Videowall for large control center's which shall include supply, installation, commissioning and operation and maintenance of the same, as required under this contract, within India or outside India and shall demonstrate capability and resources for integrating/interfacing the videowall system with the control and automation system from different manufacturers as well as coordination with multiple agencies for contract execution. The agency shall be an authorized channel partner for the Videowall system proposed for minimum three years from the date of bid. Verification certificates signed not less than the country head of OEM shall be submitted. The Agency on a minimum, shall have executed & completed at least ten individual contracts, within India or outside India, during the last Five years period. Verification end user performance certificates shall be submitted for the same. Note: In the event, if the OEM intends to execute (design, supply, program, execute and commission) the works, the OEM shall comply in full to the qualification criteria as required in this clause & specification. The agency shall demonstrate that it has service facility with trained service engineers (minimum 15 numbers who are trained from the OEM) available and are full time employees of the agency. The agency shall furnish a brief write-up, backed with adequate data, explaining its available capacity and experience (both technical and commercial) for the execution of the proposed scope of work within the specified time of completion after the meeting all their current commitments. The agency shall provide letter from a reputed bank stating the availability of liquid assets and credit facilities of the not less than Twenty Million INR. Agency shall also submit bank solvency Certificate of not less than Twenty Million INR issued by Nationalized bank	In our humble opinion as the EPC/ Bidder is taking full responsibility of the contract execution, this may be kindly deleted	As per bid conditions The successful bidder upon contract award, shall submit the same as part of credential submission of respective agency for review and approval of BWSSB before design and execution of works
59	I Civil Design & Drawings	104	g) Valve chamber construction and Pre-cast slab and associated civil works in the GLR area and distribution network	Please provide the drawings for the same as per the line sizes for a comprehensive deliverable assessment and costing purpose	Refer addendum-1
60	I Civil Design & Drawings	105	i) Fencing, Foundation & chamber drawings for installation of realtime water quality equipment in the distribution network	Please provide the drawings for the same as per the line sizes for a comprehensive deliverable assessment and costing purpose	The bidder is required to provide the same based on the line sizes.

