Addendum-1

Name of Work : Begusarai Sewerage Network and STP Project

Ref. NIT No : BUIDCo/Yo-881/2017-68, Date-25.09.2018

S. No.	Section Reference Condition as per Bid Document	To be Read as
1	Section 2. JOINT VENTURES 2.1 Qualification Criteria a) One of the Joint Venture partners shall satisfy the criteria specified in Section 1.4 (a) (1) and the same or other Joint Venture partner(s) shall satisfy the criteria specified in Sections1.4(a) (2) and1.4 (a) (3). Each JV partner shall have experience of building & commissioning either an STP or a Sewerage Network during the last 7 years (i.e. FY 2011-12 to FY 2017-18.). b) The Joint venture partners or nominated sub-contractor(s)shall satisfy the requirements specified in Sections 1.4(a) (4) and 1.4 (a) (5). c) The Joint Venture partners shall jointly satisfy all the requirements specified in Section1.4 of Qualification Criteria. d. For the purpose of satisfying the qualification criteria set out in Section 1, Joint Venture (all partners combined) must satisfy the following qualification criteria : 1. financial soundness as stated in Section 1.5(a) and 1.5 (c)in respect of each partner of the JV; 2. adequate sources to meet financial commitments as set out in Section 1.5 (b)for all partners jointly; 3. personnel capabilities as stated in Section 1.6for all partners jointly; and 4. legal disclosure as stated in Section 1.7 for each partner of the JV. e. Each partner of a joint venture Bidder shall provide the information to evidence compliance with the criteria set out in Sections0(a) to (d).	Section 2. Joint Ventures, 2.1 Qualification Criteria a) One of the Joint Venture partners shall satisfy the criteria specified in Section 1.4 (a) (1) and the same or other Joint Venture partner(s) shall satisfy the criteria specified in Sections1.4(a) (3) and1.4 (a) (5). Each JV partner shall have experience of building & commissioning either an STP or a Sewerage Network during the last 7 years (i.e. FY 2011-12 to FY 2017-18.). b) The Joint venture partners or nominated sub-contractor(s) shall satisfy the requirements specified in Sections 1.4(a) (2),1.4 (a) (6) and 1.4 (a) (7). c) The Joint Venture partners shall jointly satisfy all the requirements specified in Section1.4 of Qualification Criteria. d. For the purpose of satisfying the qualification criteria set out in Section 1, Joint Venture (all partners combined) must satisfy the following qualification criteria : 1. financial soundness as stated in Section 1.5(a) shall be met jointly and 1.5 (c) in respect of each partners of the JV. ; 2. adequate sources to meet financial commitments as set out in Section 1.5 (b); 3. personnel capabilities as stated in Section 1.6; and 4. legal disclosure as stated in Section 1.7 for each partner of the JV. e. Each partner of a joint venture Bidder shall provide the information to evidence compliance with the criteria set out in Sections2.2 (a) to (d).
2	1.4 (b) for the purpose of demonstrating compliance with sections 1.4 (a)2, 1.49a)6, 1.4(a)7, the Bidder, whether a single entity or a joint venture Bidder may claim the experience of its sub-contractors and sub-consultants nominated in the information forms. Bidder having experience of works issued directly from government departments shall only be considered, works executed as sub contractor from non-government agencies shall not be considered. The bidder shall submit with its bids, details of the qualification and experience of the nominated sub-contractors and sub-consultants in the prescribed information forms in acceptance with Section 1.2 (b)	1.4 (b) for the purpose of demonstrating compliance with sections 1.4 (a)2, 1.49a)6, 1.4(a)7, the Bidder, whether a single entity or a joint venture Bidder may claim the experience of its sub-contractors and sub-consultants nominated in the information forms. The bidder shall submit with its bids, details of the qualification and experience of the nominated sub-contractors and sub-consultants in the prescribed information forms in acceptance with Section 1.2 (b)

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3	ARTICLE 2. Scope of Work For STP 2.1. Operate the STP, for a period of 15 yearsas specified below: 2.1.1. General Scope d. Collecting samples of influent and effluent and analyzing & testing them on a daily basis (inhouse) and getting tests done at weekly basis from laboratory of Bihar PCB to determine the quality of sewage and performance of the treatment plant. Minimum 3 grab samples representative of different flow conditions (quantum and quality wise) in the day of the treated effluent shall be drawn every week jointly by the Owner and the Operator and the results of the test report shall be binding on both the parties.;	ARTICLE 2. Scope of Work For STP 2.1. Operate the STP, for a period of 15 yearsas specified below: 2.1.1. General Scope d. Collecting samples of influent and effluent and analyzing & testing them on a daily basis (inhouse) and getting tests done at weekly basis from laboratory of Bihar PCB to determine the quality of sewage and performance of the treatment plant. Minimum 3 composite samples to analyzed daily in house or weekly in NABL certified laboratory, representative of different flow conditions (quantum and quality wise) in the day of the treated effluent shall be drawn every week jointly by the Owner and the Operator and the results of the test report shall be binding on both the parties.; The parameters to be monitored are as follows 1 PH value 2 BOD mg/L 3 COD, mg/L 4 Total suspended solids, mg/L 5 VSS mg/L
4	**Section 13 . Technical SpecificationsFOR ELECTRO-MECHANICAL WORKS OF SEWAGE TREATMENT PLANT** **4 Process Instrumentation, Control. and SCADA System** The instrumentation shall include online measurement of influent and effluent parameters for sewage, sludge and sludge gas. Process Instrumentation, Control. and SCADA System shall include continuous monitoring the process parameters, process flow, tank level and other equipment protection devices. These measurements shall be connected to a network of Programmable Logic Control (PLC) based unit process controllers that shall generate pre-programmed monitoring and control actions for process, equipment and other control devices. A Supervisory Control and Data Acquisition (SCADA) system, networked to the PLC unit process controllers shall acquire and display process parameters, process flow, tank level, etc., monitor and issue remote control actions for maintaining process control. The SCADA system shall also achieve pre-determined process parameters and originate custom performance reports for management reporting.	**Section 13. Technical SpecificationsFOR ELECTRO-MECHANICAL WORKS OF SEWAGE TREATMENT PLANT** **4 Process Instrumentation, Control. and SCADA System** The instrumentation shall include online measurement of influent and effluent parameters for sewage. Process Instrumentation, Control. and SCADA System shall include continuous monitoring the process parameters, process flow, tank level and other equipment protection devices. These measurements shall be connected to a network of Programmable Logic Control (PLC) based unit process controllers that shall generate pre-programmed monitoring and control actions for process, equipment and other control devices. A Supervisory Control and Data Acquisition (SCADA) system, networked to the PLC unit process controllers shall acquire and display process parameters, process flow, tank level, etc., monitor and issue remote control actions for maintaining process control. The SCADA system shall also achieve pre-determined process parameters and originate custom performance reports for management reporting. The online parameters to be monitored for influent and effluent are as follows 1 PH value 2 BOD mg/L 3 COD, mg/L 4 Total suspended solids, mg/L 5 VSS mg/L

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5	**53 ELECTRO-MECHANICAL WORKS OF SEWAGE PUMPING STATION** **6 Process Instrumentation, Control. and SCADA System** The instrumentation shall include online measurement of influent and effluent parameters for sewage, sludge and sludge gas. Process Instrumentation, Control. and SCADA System shall include continuous monitoring the process parameters, process flow, tank level and other equipment protection devices. These measurements shall be connected to a network of Programmable Logic Control (PLC) based unit process controllers that shall generate pre-programmed monitoring and control actions for process, equipment and other control devices. A Supervisory Control and Data Acquisition (SCADA) system, networked to the PLC unit process controllers shall acquire and display process parameters, process flow, tank level, etc., monitor and issue remote control actions for maintaining process control. The SCADA system shall also achieve pre-determined process parameters and originate custom performance reports for management reporting.	**53 ELECTRO-MECHANICAL WORKS OF SEWAGE PUMPING STATION** **6 Process Instrumentation, Control. and SCADA System** The instrumentation shall include online measurement of influent and effluent parameters for sewage. Process Instrumentation, Control. and SCADA System shall include continuous monitoring the process parameters, process flow, tank level and other equipment protection devices. These measurements shall be connected to a network of Programmable Logic Control (PLC) based unit process controllers that shall generate pre-programmed monitoring and control actions for process, equipment and other control devices. A Supervisory Control and Data Acquisition (SCADA) system, networked to the PLC unit process controllers shall acquire and display process parameters, process flow, tank level, etc., monitor and issue remote control actions for maintaining process control. The SCADA system shall also achieve pre-determined process parameters and originate custom performance reports for management reporting. The online parameters to be monitored for influent and effulent as follows 1 PH value 2 BOD mg/L 3 COD, mg/L 4 Total suspended solids, mg/L 5 VSS mg/L