

IFB Ref No: BUIDCo/BUDIP-2/NCB/02

Contract Package No: BH/WS/02

Package Name: Improvement of Water Supply System in Bhagalpur Municipal Corporation (BWSP-02)

Response to Bidders' Queries received during Pre-bid Conference held on 05 April 2018 at BUIDCo, Patna

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 1. | ITB/Section 1, Clause 19 / page no. 1-12 to 1-13 | <u>Bid Security</u> | We would like to intimate you that as per RBI Guideline, we have to intimate your Bank's beneficiary details including IFSC Code for preparation of EMD BG. As such, please intimate us your Bank's beneficiary details for preparation of Bid Security. Please arrange. | The Beneficiary's Bank Account details are:- Beneficiary's Name: Managing Director, Bihar Urban Infrastructure Development Corporation Ltd. Bank Name: Allahabad Bank Branch: Main Branch Patna Bank Account No: 50176302533 IFSC Code: ALLA0210003 |
| 2. | BDS/Section 2, Clause No 12.1 | The units and rates in figures entered into the Bill of Quantities and Daywork Schedule should be typewritten or if written by hand, must be in print form. Bill of Quantities and Daywork Schedule not presented accordingly may be considered nonresponsive. | Please understand that filling by handwriting would be very difficult for a BOQ of this size. Bidder requests you to either provide soft copy of BOQ in editable format or accept separately self-filled & printed BOQ, duly signed & stamped. | Uploaded on BUIDCo's website. |
| 3. | BDS/Section 2, Clause No 14.7 | The Employer will assist the Contractor to obtain any lawful exemptions from payment of Goods and Services Tax (GST) notified under Central Goods and Services Tax (CGST) Rules, 2017, if available through any Government Notification. | Please confirm the percentage of exemption available for GST. | The bidder has to confirm themselves with respective manufacturers/suppliers as per prevailing notifications of GOI pertaining to GST exemptions. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|----|---|---|---|---|
| | | <p>The responsibility for obtaining any such exemptions from the Competent Authority will remain with the Contractor and the Employer shall not in any way be responsible for admissibility of the claims or eligibility of the Contractor.</p> <p>The exemption if any availed by the contractor shall be passed on to the employer.</p> | | |
| 4. | ITB/Section 3, Clause 2.4.1 / page no. 3-11 | <p><u>2.4.1 Contracts of Similar Size and Nature:</u></p> <p>Participation in at least one contract that has been successfully or substantially completed within the last Seven(7) years and that is similar to the proposed works, where the value of the Bidder's participation exceeds INR 2029 million or USD 31.44 million. The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in Section 6, Employer's Requirements.</p> | <p>On reviewing of the Bid document and the terms hereof, we presume that the purpose of this particular clause is to ascertain the capability of the bidder to handle similar Water Supply Projects of this magnitude, as to ascertain the bidder's experience of other components of work is mentioned else where.</p> <p>Hence, we propose the following amendment of the clause:-</p> <p>“Participation in at least one contract that has been successfully or substantially completed within the last Seven(7) years and that is similar to the proposed works / any water supply project, where the value of the Bidder's participation exceeds INR 2029 million or equivalent USD 31.44 million. The similarity of the Bidder's participation shall be based</p> <p>on the physical size, nature of works, complexity,</p> | <p>The Clause 2.4.1 of Section-3 stipulates that the similarity of the Bidders participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in section-6, Employers Requirements.</p> <p>It is clarified that the experience of water supply project of similar magnitude having intake structures, water treatment plant and related structures will only be considered for qualification.</p> <p>Bidders may also note that the term “main bidder” means the bidder (Individual or JV) as defined in the Clause 4 of Section-1: ITB.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|----|--|---|--|---|
| | | | <p>methods, technology or other characteristics as described in Section 6, Employer's Requirements.</p> <p>Please Confirm.</p> | |
| 5. | ITB/Section 3, Clause 2.4.2 / page no. 3-12, | <p><u>2.4.2 Construction Experience in Key Activities*:</u></p> <p>1. Design, Construction and Commissioning of Intake well of minimum 45 MLD capacity for Municipal Drinking Water application with minimum one year Operation and maintenance experience (beyond defect liability period) within the last seven years. <i>(This criterion should be met by the main bidder itself)</i></p> | <p>On reviewing of the clause, bidder request employer to amend this clause as follows:-</p> <p>“Design, Construction and Commissioning of Intake well of minimum 45 MLD capacity for Municipal Water Supply application with minimum one year Operation and maintenance experience (beyond defect liability period) within the last seven years.”</p> <p>Please confirm.</p> | Not agreed. The Bidding Document's provision shall prevail |
| 6. | ITB/Section 3, Clause 2.4.2 / page no. 3-12, | <p>4. Design, Construction and Commissioning of one Clear Water Reservoir of minimum 7.0 ML capacity within the last seven years.</p> <p><i>(This criteria should be met by the main bidder itself)</i></p> | <p>On reviewing the clause, bidder request employer to amend it as follows:-</p> <p>“Construction and Commissioning of one Clear Water Reservoir of minimum 7.0 ML capacity within the last seven years.”</p> <p>However, if the client wants the design experience of the Clear Water Reservoir, the bidder may tie up with designer having similar experience, in case the bidder does not have such design experience.</p> <p>Please confirm.</p> | Not agreed. The Bidding Document's provision shall prevail. |
| 7. | ITB/Section 3, Clause 2.4.2 / page no. 3-13, | 8. Successfully carried out the Operation and Maintenance of a | On reviewing of the clause, bidder request employer to amend it as follows:- | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|----|--|---|---|--|
| | | <p>Water Supply Project having intake, water treatment plant and water pipe lines for at least 3years (beyond defect liability period) in the last seven years</p> <p>(This criteria can be met by the main bidder itself or the specialized sub-contractor)</p> | <p>“Successfully carried out the Operation and Maintenance of a Water Supply Project having minimum two of the following three components, such as, intake, water treatment plant and water pipe lines, for at least 1 years (beyond defect liability period) in the last seven years</p> <p>Please Confirm.</p> | |
| 8. | ITB/Section 3, Clause 2.4.2 / page no. 3-12 to 3-13, | <p><u>2.4.2 Construction Experience in Key Activities*:</u></p> <p>Note on Key Activities:</p> <p>1. This criterion should be met by the main bidder itself.</p> <p>2. This criteria can be met by the main bidder itself or the specialized sub-contractor.</p> | <p>On reviewing of both the clauses bidder understand that</p> <p>The respective criteria can be met by either the main bidder, itself if individual or by all partners combined if Joint Ventures, or the specialized sub-contractor as per direction in notes.</p> <p>Please Confirm.</p> | <p>The existing provisions are self-explanatory.</p> <p>Further, bidders may note that the term “main bidder” means the bidder (Individual or JV) as defined in the Clause 4 of Section-1: ITB.</p> <p>Refer Clause 2.4.2 of Section 3: EQC, the criteria at SNo 1, 4, 5 and 7 should be met by the bidder itself and the criteria at SNo 2, 3, 6 and 8 can be met by the bidder itself or specialized sub-contractor.</p> |
| 9. | ITB/Section 3, Clause 2.4.2 / page no. 3-12 to 3-13 | <p><u>2.4.2 Construction Experience in Key Activities*:</u></p> <p>Note on Key Activities:</p> <p>The Applicant will submit copy of work-orders and completion certificates from the client not below the rank of Superintending</p> | <p>You would appreciate that generally the Superintending Engineer of an employer does not issue certificates; it is the Executive Engineer, who is in charge, issues the relevant certificates. Hence bidder request employer to amend the clause as follows:-</p> <p>“The Applicant will submit copy of work-orders and completion certificates from the client not below the</p> | <p>Not agreed. The Bidding Document’s provision shall prevail.</p> <p>If the experience is issued by Executive Engineer, then the bidder is required to get it countersigned by an officer not below the rank of Superintending Engineer or Equivalent.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|-------------------------------|--|---|---|
| | | Engineer in support of all claimed experiences. | rank of Superintending Engineer or Equivalent in support of all claimed experiences.” Please confirm. | |
| 10. | ITB, Section 4, Page no. 4-27 | <u>Form TECH-3: Details of Sub-contractor</u> Similar Work Experience in past ten (10) years (attach work orders and completion certificates from clients) | This is in anomaly from the evaluation criteria; where the construction experience (clause no 2.4.1 of Section 3) asked for last seven (7) years. Hence bidder request employer to look into the same for parity. Please confirm | For the key-activity at 2.4.2 (2) of Section 3, pertaining to Dredging, the similar work experience in past ten (10) years will be considered. For other works seven (7) years shall be considered. Refer Addendum 1. |
| 11. | ITB, Section 4, Page No. 4-29 | <u>Form TECH – 4B: Manufacturer's Authorization</u> | Generally Manufacturer's Authorization is asked from selected vendor for bought out/ fabricated items. Offers are sourced from multiple vendors at the time of bidding. Hence, bidder requests to make it part of the submittals by successful bidder and not to be furnished at the time of bidding. PLEASE CONFIRM | Not agreed. The Bidding Document's provision shall prevail. |
| 12. | ITB, Section 4, Page No. 4-71 | source of index - Wholesale Price Index for grey cement (OPC) issued by Reserve Bank of India | As WPI for grey cement is not being published by RBI bidder understands that for cement cost index for OPC are to be considered. PLEASE CONFIRM | Confirmed. |
| 13. | ITB, Section 4, Page No. 4-71 | Wholesale Price Index for ferrous metal issued by Reserve Bank of India Wholesale Price Index for resin (HDPE / PVC pipes) issued by | Presently no Wholesale Price Index is being published by RBI for ferrous metal, resin and construction machinery. Hence, the bidder requests to provide suitable source of index to be considered for ferrous metal, resin and construction machinery. | It is already available in the list of WPIs published by RBI. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---|--|--|---|
| | | Reserve Bank of India Wholesale Price Index for Construction machinery issued by Reserve Bank of India | PLEASE PROVIDE | |
| 14. | SECTION 8 - Particular Conditions of Contract, Page No 8-3 / Clause No 14.2 | Amount of Advance Payment (percent of Accepted Contract Amount) 10% of the Accepted Contract Amount for Design Build Works payable in two installments in the currencies | Bidder understands that the advance payment is interest free. | It is clearly stipulated in the Clause 14.2 of GCC. |
| 15. | SECTION 8 - Particular Conditions of Contract, Page No 8-3 / Clause No 14.3 | Percentage of Retention : 5% Limit of Retention Money : 5% | Bidder requests to replace retention of 5% of the Accepted Contract Amount with a BG of equivalent amount to be submitted along with Performance Guarantee BG. PLEASE AGREE & ACCEPT | Not agreed. The Bidding Document's provision shall prevail. |
| 16. | Price Bid, Page 4-241, S No 7.9.1 | Providing m.s. plate welded/spirally welded mild steel pipes and specials. Fabricating the same for the pressure 15 Kg/cm ² . mild steel pipes and specials, Tee, bends, reducers, tail pieces, flanges, blank flange etc. as s..... approved quality of electrodes conforming to IS 6916:1978. Item includes providing at site , testing with radiography, as per technical specification and direction of E.I.C. (density of MS Plate assumed as 7850 kg/cum). | Bidder understands that the rate should be exclusive of GST. Kindly confirm the percentage of GST that is not to be considered in the quoted price. | Please refer clarification given at SNo 74 and 3. Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|--|--|---|---|
| | | (Rate is exclusive of excise duty) a) 1321 mm dia (10mm wall thickness) b) 900 mm dia (10mm wall thickness) | | |
| 17. | Volume-1 Page-11 2.4 Construction Experience 2.4.1 Contracts of similar size and nature | Participation in at least one contract that has been successfully or substantially completed within the last seven (7) years and that is similar to the proposed works, where the value of the bidder's participation exceeds INR 2029 million or USD 31.44 million. The similarity of the Bidders participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in section-6, Employers Requirements. | We presume that experience of water transmission project involving water intake, pump house & pipeline will meet the requirement of this clause. Please allow and confirm. | Please refer clarification given at SNo 4. |
| 18. | Volume-1 Page-12 2.4 Construction Experience 2.4.2 Construction Experience in key activities | Dredging/maintaining the raw water approach channel/pipe laying by dredging for any project in the last seven years. (This criteria can be met by the main bidder itself or the specialized sub-contractor) | Please allow the bidders to participate in the tender based on an undertaking that the dredging works will be carried out through an experienced sub-contractor. | Please refer ITB 11.2(g)(iii) which stipulates that In case the Bidder includes a Specialist Subcontractor: a valid subcontracting agreement or a formal Letter of Intent to enter into a subcontracting agreement. Thus bidder is required to submit above document along with experience certificate for relevant key-activity. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|--|---|---|---|
| 19. | Section 3 –Evaluation and Qualification Criteria | | | |
| 20. | 2.4 Construction Experience - 2.4.1 Contracts of Similar Size and Nature | Participation in at least one contract that has been successfully or substantially completed within the last Seven(7) years and that is similar to the proposed works, where the value of the Bidder's participation exceeds INR 2029million or USD 31.44 million | We request you to consider two contract that been successfully or substantially completed within the last seven years and it is similar to the proposed works, where the value of the bidder's Participation exceeds INR 1534million or USD 23.77 million | Not agreed. The Bidding Document's provision shall prevail |
| 21. | 2.4.2 Construction Experience in Key Activities* - Point 2 | Design, Construction and Commissioning of Intake well of minimum 45 MLD capacity for Municipal Drinking Water application with minimum one year Operation and maintenance experience (beyond defect liability period) within the last seven years | We request you to consider Construction and commissioning of intake well of minimum 45 MLD capacity with minimum one year operation and maintenance | Not agreed. The Bidding Document's provision shall prevail. PI refer Addendum 1 |
| 22. | 2.4.2 Construction Experience in Key Activities* - Point 7 | Design, Construction and Commissioning of Water Treatment Plant of minimum output capacity 45 MLD having inclined Plate Settler/Tube settler and PLC including SCADA with minimum one year of operation and maintenance experience (beyond defect liability period) within the last seven years. | We request you consider design, Construction and commissioning of water treatment Plant of minimum 45 MLD of any technology with minimum one year operation & maintenance | Not agreed. The Bidding Document's provision shall prevail. PI refer Addendum 1 |
| 23. | 2.4.2 Construction Experience in Key Activities* - Point 8 | Successfully carried out the Operation and maintenance of a water supply Project having intake, water treatment plant | We request you to consider the Operation and maintenance of a water supply project for at least 3 years beyond DLP Period | Not agreed. The Bidding Document's provision shall prevail. PI refer Addendum 1 |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|--|---|--|---|
| | | and water Pipelines for at least 3 years beyond defect liability Period in the last 7 years. | | |
| 24. | 2.5 Subcontractors | Subcontractors or Manufacturers for the following major items of plant, material and services must meet the following minimum criteria, herein listed for that item. Failure to comply with this requirement will result in rejection of the subcontractor but not the Bidder. | Kindly confirm the List of major Plant, Material & Services for which sub-contractor to be engaged and also PI furnish the list of approved vendors for the major supply materials. | Please refer Addendum 1 . |
| | Section 7 -GCC and Section 8 PCC Part A | | | |
| 25. | Clause 1.1.78 & 8.2& 9.2& 4.2: | <p>The Contract Completion time for Design Build is 900 days (in Section 6 clause 2.1.1 (8.1) Trial run shall be completed within 30 months from the Commencement date. The Period of Operation Service (Clause 8.2) is 3652 days from the initial Take over date defined in Clauses of Section 6. According to Section 6 (Sub Clause 9.7 of Clause</p> <p>2.1.1 the Contract Completion Date shall be 150 months from the Commencement Date, therefore Operation Service period is 120</p> | <p>According to Clause 4.2 of GCC, the 10% performance security BG has to be kept valid and enforceable until the issue of Contract Completion Certificate, which means that the Performance Security BG should be kept valid for 150 months plus 28 days. It is not possible to arrange BG for 151 months. We request the Employer to break the Contract Price into two distinct parts, one for Design Build and another for Operation Service, and accordingly split the Security BG into two parts, one</p> <p>for 10 % of Design Build Price to be submitted within 28 days from LOA, valid till Time of Completion of Design Build, i.e. 30 months from Commencement Date, and the other 10% Security</p> | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|-----------------|--|--|---|
| | | <p>months. Further, as per sub clause 37 of Clause 2.5 of Section 6, the schedule from trial run to O&M is provided, from which it can be understood that the time limit for completion of works is 27 months, trial run is 45 days after trial run, pre handing over date is 45 days after completion of works, handing over date is after completion of pre handing date, DLP is 1 year from Taking over, and O&M is 10 years from date of handing over.</p> | <p>BG for Operation Service Price to be submitted at the time of Completion of Design Build Period valid for the Operation Service Period.</p> | |
| 26. | Clause 2.1: | Site Possession | <p>Kindly provide the full unencumbered site possession for all parts of the site within 14 days of LOA, as the Contract Completion Period is fixed, as well as the Contract Milestones.</p> | <p>The existing provision is self-explanatory.</p> |
| 27. | Clause 10.6(b): | <p>the maximum compensation payable by the Employer for Delays or interruptions caused by the Employer is only 2% of the Accepted Contract Price for Operation Service.</p> | <p>Kindly amend this clause, the compensation % should be the same percentage as that of LD for delay damages imposed on contractor. Further, the definition of Accepted Contract Price is the amount accepted in the LOA for Design Build and Operation Service as stated in FIDIC Clause 1.1.1, which has not been addressed in PCC. So kindly define Accepted Contract Price for Design Build and O&M separately.</p> | <p>If any provision is not elaborated in Particular Conditions of Contract (PCC) then provisions of General Conditions of Contract (GCC) shall prevail.</p> |
| 28. | Clause 10.7: | <p>It is stated in PCC Part A that the performance damages shall be in accordance to Schedule 5- Contractor's Payments,</p> | <p>There is no data in Schedule 5. Kindly provide the same.</p> | <p>Schedule 5: Contractor's Payments is there is Section 8: PCC.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-------------------|-----------------------|---|--|--|
| 29. | Clause 14.2 | The Advance Payment of 10% of Accepted Contract Amount for Design Build is considered in two equal amounts of 5%. | What about advance for Operation Service? | There is no provision for advance payment for Operations Services. |
| 30. | Clause 14.3: | Retention amount is 5% of Accepted Contract Amount. | We presume it is for 5% of the Accepted Contract Amount for Design Build portion only. Kindly clarify. | Yes. The Limit of Retention Money shall be 5% of Accepted Contract Amount for Design-Build as well as EPC component. Refer Addendum 1 for 14.3 of section 8 part A) |
| PCC Part B | | | | |
| 31. | Clause 1.1.66& 14.10: | <p>the retention period has been amended as the period of 365 days after issue of Final Design Build Completion Certificate by the Employer. But Clause 14.10 states that 50% of the retention amount shall be released when the Commissioning Certificate is issued, and the balance 50% in the Final Statement Design Build. Further the following para has been added at the end of the clause: "The proportion of payments retained from each</p> <p>payment under the Design Build Period shall be 5% of the eligible payments. No interest shall be paid on the Retention Money. Upon Completion of DLP period half the</p> | This is totally contradicting and confusing. Kindly clarify | The sub-clause 1.1.66 of Part B of PPC stands deleted. The provision under Sub-clause 1.1.66 of GCC shall prevail. Refer Addendum 1 .(part B 1.1.66 stands deleted) |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|----------------|---|---|--|
| | | Retention Money shall be repaid to the Contractor and the remaining half shall be repaid in three equal tranches to released along with the proportion of the Performance Security in accordance with sub clause 4.2 Performance Security. | | |
| 32. | Clause 1.1.78: | The definition has been amended deleting the last part after Sub Clause 9.3(extension of time for completion of Design Build) starting from "calculated from the Commencement Date". | Kindly amend this clause The time for completion of design build must be calculated from commencement date. | Amended as under:- "TimeExtension of Time for Completion of Design-Build], calculated from Commencement Date." Refer Addendum 1 |
| 33. | Clause 2.1: | <p>In addition to what is commented on this clause under PCC Part A above, PCC Part B has added two paras at the end of this clause. The second para states that the Employer will get all the utilities shifted through the line department to whom these utilities belong using Provisional Sum. It further states that the Employer will get the costs estimate from line department</p> <p>and the Contractor will be asked to make direct payments to the relevant line agencies and BUIDCo will reimburse such amounts to the Contractor in next claim invoice,</p> | We request the Employer to reimburse the Contractor the actual amounts paid by him plus 10% handling fee. | The actual certified amount paid or due to be paid to the agency shall be reimbursed to the contractor along with percentage as mentioned in Clause 13.5 of Part A of PCC. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---|---|---|--|
| | | <p>and Contractor will assist in identifying such utilities.</p> <p>According to PCC Part A Clause 13.5 states that the percentage to be applied to Provisional Sums is 10% which includes statutory deductions on contractor's payment, which may not be sufficient.</p> | | |
| 34. | Clause 6.13: - Resettlement | <p>A new Sub- Clause has been introduced to make the Contractor responsible to comply with the measures and requirements set forth in the updated and approved RP attached in Section 6 Annexure B, and take any corrective or preventative actions as set forth in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the RP, and the Contractor is required to allocate a budget for compliance with these measures, requirements and actions.</p> | <p>Kindly modify the scope of resettlement works in sole responsibility of the Employer.</p> | <p>Not agreed. The Bidding Document's provision shall prevail.</p> |
| 35. | <p>Schedule 5: Contractor's</p> <p>Payments</p> | <p>3. PART B: PAYMENT FOR ITEM</p> <p>RATE COMPONENTS - CONSTRUCTION WORKS</p> | <p>Kindly confirm the Payment terms for civil works</p> <p>like Excavation, Bedding, Backfilling of Pipelines ,Valve chambers</p> | <p>The payment of such items shall be</p> <p>made as per actual quantity executed and certified, subject to other deductions as per contract provisions.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---|---|--|--|
| 36. | Schedule No. 06: | RECOMMENDED SPARE PARTS, Price Schedule | Kindly provide the qty of spares for which rate to be quoted. | The rates quoted in the Price Schedule No 06 shall not form the part of competitive bid. The bidder can make his own assessment for requirement of such spare parts and quote accordingly. |
| | Section-6 ,Employer requirements | | | |
| 37. | 2.1.2 CONTRACT KEY DATES | 9.3. Section 1 shall be completed within 6 months from the commencement date | Since the scope involves detailed survey, design we request you consider the completion period as 9 months from the commencement date. | Not agreed. The Bidding Document's provision shall prevail.. |
| 38. | 2.1.2 CONTRACT KEY DATES | 9.5. Section2,Section3,Section4 shall be completed within 27months from the commencement date | We request you to consider as 30months from Commencement date considering manson etc. | Not agreed. The Bidding Document's provision shall prevail. |
| 39. | 2.1.2 CONTRACT KEY DATES | Trial run shall be completed within 30months from the commencement | Kindly consider Trail run completed within 36 months from commencement date | Not agreed. The Bidding Document's provision shall prevail. |
| 40. | 2.1.3 CONTRACT MILE STONE | 1st year Milestone [1-12 months] | Since the Survey & design and submission of drawing for approval for to start the Execution at site will take 9 months from the commencement date and also approval from BUIDCO will take time. We request you to furnish the time frame for approval of document by BUIDCO for to start the execution activities. SO instead of Ist mile stone duration of 12 months, Pl consider the duration is 24 months | The Bidding Document's provision shall prevail. Also Refer Addendum 1 . The time frame for approval of the documents by BUIDCo can be considered by the bidder/contractor in its work plan. |
| 41. | 2.1.3 CONTRACT MILE STONE | 2ndyear cumulative Milestone[13 - 24 months] | Pl consider the 2nd milestone duration as 6 months | Not agreed. The Bidding Document's provision shall prevail. |
| 42. | 2.1.3 CONTRACT MILE STONE | 3rd mile stone 25 -30 months | Pl consider the 3rd milestone duration as 6 months up to 36 months from commencement date. | Refer Addendum 1 . |
| 43. | 2.7 TRIAL RUN OF THE | The cost of electricity, chemicals | Since the Contractor's responsibility of the Operation | Not agreed. The Bidding |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---------------------------------------|---|--|--|
| | SYSTEM | and other consumables for operation and maintenance of the system during the period of this run will be borne by the contractor. | & maintenance will start from the Handing over of the Scheme for O & M only we request you the electricity ,chemical charges will be borne by client during Trail run. | Document's provision shall prevail. |
| 44. | 2.10 OPERATION AND MAINTENANCE | The Contractor shall be responsible for operation and Maintenance of the system as per part of the contract, along with spares as on required basis for the period of 10 years from the date of commissioning. Contractor shall be required to rectify any deficiencies which are attributable to defects in the workmanship or quality of materials, plant or equipment during the contract period | Since the DLP is one year from the Handing over of the Scheme kindly confirm any replacement, repairing after DLP is payable by client. | The Bidding Document's provision shall prevail. The existing provisions are self explanatory. However if any replacement required due to the condition beyond the control of contractor, it will be decided later on depending upon the merit of the case under relevant contractual provision. |
| 45. | Table 2: Raw Water Quality Parameters | Date of collection of water samples: 10th May 2011. | Kindly provide the raw water quality Parameters of latest date. | The bidder has to make his own assessment/arrangement during bidding stage. The contractor shall carry out all such necessary tests and investigations on his own after award of contract. |
| 46. | 6.3 SCADA | Under the works component of the Contract, bulk flow and pressure measurement devices shall be installed to monitor water distribution at the following locations: At Intake well, jack well, all the pumping stations and | Since Storage reservoirs are not under this contract kindly clarify the Scope of SCADA system | The contractor has to provide Instrumentation and control system complete in all respect with data acquisition and interfacing with the SCADA system for the Storage Reservoirs also. However, the construction of Service |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|--|--|--|---|
| | | <p>WTP components. Flow at delivery pipe of component. · At 19 storage reservoirs (both ground level reservoirs and overhead tanks): o Flow in incoming mains; o Flow in outgoing mains in all the branches at SR location Water level at all the components. Pressure in raw water main, transmission main and in all the component. All the outlet of the Service Reservoirs which are going to DMA shall also be connected to the SCADA System to monitor the out flow of water in all the branch of the Distribution system</p> | | <p>Reservoirs is in the scope of the contractor for the ongoing Package BWSP-01.</p> <p>To sync and commission the SCADA, the BUIDCo will facilitate the Contractor, if any coordination with BWSP 01 Contractor is required,</p> |
| | <p>Schedule & Technical Specification</p> | | | |
| 47. | Schedule No. 02:, item Ref: 2.14.1 | <p>Supply and delivery of underground cable IS:7098 Part-II as per SBPDC specifications and of approved make suitable for working voltage up to and including 33 kV in aluminium conductors XLPE armoured category-I including excavation of 30cm x 150cm size trench as per IS:1255, 24cm thick under layer, refill earth in the remaining portion, making necessary connections including testing etc.</p> | <p>1. Kindly clarify the 33KV tapping point and share substation layout. 2. Kindly quantify in nos/sets as required of size given making heat shrinkable type indoor/outdoor/straight through terminations for 33kV XLPE cables with required components. 3. Kindly provide SLD for all electrical panels.</p> | <p>The 33 KV power will be made available by 33 KV double circuit underground cable from Sabour Grid Sub station to Barari water works by Bhagalpur Electricity Distribution company Pvt. LTD.</p> <p>Since it is Design Build components, contractor has to design the incoming cables depending upon the requirement.</p> <p>For BOQ changes, PI Refer Addendum 1.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | as required of size given below and providing & making heat shrinkable type indoor/outdoor/straight through terminations for 33kV XLPE cables with required components. | | |
| 48. | Schedule No. 02:, item Ref: 2.18, 2.27 | Supply and delivery of Earthing materials for all substation equipment as per IS:3043 as per IEEE Standard 80-2000 (IEEE Guide for safety in AC Substation Grounding) | Kindly provide complete earthing drawings | For details, please refer the related technical specifications. |
| 49. | Schedule No. 02:, item Ref: 2.20 | 1250kVA Transformer (1250KVA capacity of transformer is minimum, however if the design indicates a higher capacity shall be considered). | Kindly indicate rating of transformer to be considered for quoting | Minimum rating has been given in the BOQ. However it may vary depend upon the design. The contractor has to quote the rate accordingly. For change in Technical schedule of section4, (page 4-50) pl refer Addendum 1. |
| 50. | Schedule No. 02:, item Ref: 2.31 | 2000kVA Transformer (2000KVA capacity of transformer is minimum, however if the design indicates a higher capacity shall be considered). | Kindly indicate rating of transformer to be considered for quoting | Minimum rating has been given in the BOQ. However it may vary depend upon the design. The contractor has to quote the rate accordingly. For change in Technical schedule of section4, (page 4-52) pl refer Addendum 1. |
| 51. | Schedule No. 02:, item Ref: 2.21 | Supply and delivery of Automatic | Kindly indicate required KVAR value in BOQ | Refer clarification given at SNo 156. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | Power factor Improvement Panel to improve the power factor up to 0.95 lagging. This will include panel cubical, Microprocessor based intelligent power factor correction relay complete in all respect. | | The design of the Automatic power factor improvement panel is in the contractor's scope |
| 52. | Schedule No. 02:, item Ref: 2.24 | Supply and delivery of Bus Trunking arrangement in convenient sections complete with housing of galvanized sheet steel of minimum 1.5mm thickness, Copper bus bar for use of 3phase-4Wire 415Volt A.C supply with degree of protection ip-42 for the minimum 2000A rating including jointing of Section, flexible joints, expansion joints and earthing with 2 runs of aluminum strips, etc. From Transformer LT to incoming of LT Panel. Qty: 1 Lot | Kindly clarify - lot to be quantified in numbers or Meter etc. | Refer clarification given at SNo 156. The design of the Bus Trunking is in the contractor's scope. The quantity shall be considered as per layout design of the contractor. |
| 53. | Schedule No. 02:, item Ref: 2.25, 2.28.9, 1.31.3 | Supply and delivery of XLPE insulated sheathed cable of 1.1 kV grade with aluminum conductor Armored of IS:7098-I/1554-1 approved make in ground as per IS:1255 - Qty: 1 Lot | 1. Kindly mention required size of cable No of cores and sq.mm.. 2.Kindly quantify the item in Meters | Refer clarification given at SNo 156. The design of the cables is in the contractor's scope. The quantity shall be considered as per layout design of the contractor. |
| 54. | Schedule No. 02:, item Ref: 2.27, 2.28.10 | Supply and delivery of Earthing materials of all equipment as per IS:3043 and requirement of IER. | Kindly provide all types earthing drawings | For details, please refer the related technical specifications. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 55. | Schedule No. 02:, item Ref: 2.33 | Supply and delivery of the SCADA system with the following equipment | Kindly provide PLC system architecture diagram mentioning locations. | Refer clarification given at SNo 156. The design of the SCADA/PLC System is in the contractor's scope. The bidder/contractor shall design the system and accordingly propose the System Architecture for approval of the Employer. |
| 56. | Schedule No. 01:, item Ref: 2.33.2, 2.33.20 | UPS with batteries | Kindly provide all UPS rating and back up period | Refer clarification given at SNo 156. The design of the UPS System is in the contractor's scope. The bidder shall design the UPS system, considering 2 Hours backup and shall propose for approval of the Employer. |
| 57. | Schedule No. 02:, item Ref: 2.33.10 | Cable trays/supports for cable laying of requires size - 1 Lot | Kindly quantity cable tray type, and - qty. should be in Mtrs., tray supports in kgs | Refer clarification given at SNo 156. The design of the cable tray is in the contractor's scope. The quantity shall be considered as per layout design of the contractor. |
| 58. | Schedule No. 02:, item Ref: 2.33.8, 2.33.57 | Control and Instrumentation cables for WTP(includes accessories like glands, lugs, etc) - 1Lot | Kindly quantify the item in Meters, and Number of glands and lugs in numbers | Refer clarification given at SNo 55 and 156. The quantities shall be considered as per layout design of the contractor. |
| 59. | Schedule No. 01:, item Ref: 2.33.58 | Communication Cables inside WTP(fiber optic cable) - 1 Lot | Kindly quantify the item in Meters | Refer clarification given at SNo 58. |
| 60. | Schedule No. 02:, item Ref: 2.33.9 | Instrumentation Earthing materials with accessories - 1 Lot | Kindly provide drawings and qty. | Refer clarification given at SNo 58. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 61. | Schedule No. 01:, item Ref: 2.33.11 | Equipment for Data transmission via Radio frequency - 1 Lot | Kindly provide details and quantity in numbers, Should we consider GPRS/GPS based | Refer clarification given at SNo 58. The data transmission shall be through GPRS. However the bidder/contractor shall ensure the availability of signal strength prior to selection of transmission mode. |
| 62. | Approved makes | | Kindly forward list of approved vendors to be specified for Electrical and Instrumentations items | There is no list of approved makes. Wherever the makes are mentioned for any item in the bidding documents, the same are indicative only. However, the bidders, while preparing the proposals, are advised to consider best quality makes conforming to the prescribed specifications. The vendors shall be approved by the Employer after verifying the eligibility and credentials. |
| 63. | Technical specification Vol-II | Table 94: PLC Technical Parameters - Inputs and Outputs - Refer to the I/O schedule in the respective subsections of this Volume | Kindly provide list of I/O schedule for individual and all PLC system | Refer clarification given at SNo 55 and 156. The I/O Schedule shall be considered as per design of the contractor. |
| | General | | | |
| 64. | BOQ | Soft copy - Excel format | Kindly upload the BOQ in excel format. | Uploaded on BUIDCo's website. |
| 65. | Section 4 - Bidding Forms Part-2 Water Treatment Plant | The Bidder is required to submit a block layout plan of the entire campus of Barari Head Works showing the location of various units of the Water Treatment Plant, clear water reservoir and pumping | We request you to furnish the total layout with existing WTP and dimensions for to Study & prepare the Layout | The details are available in the drawings. However, the bidders are advised to visit site before preparing proposals. The Google map indicating WTP site has been uploaded on BUIDCo's |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---------------|--|--|---|
| | | station, electrical sub-station, boundary walls and internal roadways, etc. The Bidder shall show the space reserved for the future expansion to 135 MLD capacity of the treatment plant, pump stations and reservoir. | | website. |
| 66. | General | PROFILE OF THE INTAKESTRUCTURE BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH ASE II /INT 03 | Kindly Provide the Drawing in PDF format as the dimensions in the tender document is not clear. | The Drawings are already provided in the PDF format |
| 67. | General | Drawing | Please furnish soil investigation report of Intake, Approach, Channel, Jack well, WTP , raw water & clear water Pipe route | The bidder has to make his own assessment/arrangement during bidding stage. The contractor shall carry out all such necessary tests and investigations on his own after award of contract. |
| 68. | 3-11/2.4.1 | Participation in at least one contract that has been successfully or substantially completed within the last 7 years and that is similar to the proposed works , where the value of the Bidder's participation exceeds INR 2029 million or equivalent USD The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in Section 6, Proposed | Please confirm that a Project comprising of WTP (without intake), GSR / CWR, Pump motor, & Transformer along with other allied civil works could be considered as similar work | Please refer clarification given at SNo 4. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|----------------|--|--|--|
| | | works Employer's Requirements. (Note- 2& 3) | | |
| 69. | 3-12/ 2.4.2(1) | Design, Construction and Commissioning of Intake well of minimum 45 MLD capacity for Municipal Drinking Water application with minimum one year Operation and maintenance experience (beyond defect liability period) within the last seven years. | Please confirm that intake well of min 45 MLD capacity done for Municipal sewerage system with minimum O&M of one year (beyond defect liability period) within the last seven years would also qualify. Alternately, we request that this experience could be met through a nominated sub-contractor | Not agreed. The Bidding Document's provision shall prevail. |
| 70. | 3-12/ 2.4.2(2) | Dredging/maintaining the raw water approach channel by dredging for any project in the last seven years | This kind of work is generally not covered in most of water supply projects. Accordingly, we request that the same may be deleted from qualification | Not agreed. The Bidding Document's provision shall prevail. |
| 71. | 3-13/ 2.4.2(6) | Providing, laying, jointing and commissioning of water main of various sizes/lengths as under within the last seven years: Diameter 400mm and above – 10,000m | We request that experience from Wastewater main of similar size and quantity may also be considered. Kindly confirm | Not agreed. The Bidding Document's provision shall prevail. Please refer clarificaion given at SNo 5. |
| 72. | 3-13/ 2.4.2(8) | Successfully carried out the Operation and Maintenance of a Water Supply Project having intake, water treatment plant and water pipe lines for at least 3 years (beyond defect liability period) in the last seven years | O&M experience from a project comprising of WTP(without intake), GSR / CWR, Pump motor, & Transformer along with other allied civil works may be considered for qualification. Please confirm | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|-------------------|-------------------------|---|---|
| 73. | 1-10/ 14.7 | Bid Price and discounts | Please confirm that the price quoted should include GST | For Design-Build components the prices are to be quoted as per prescribed format showing taxes and duties in respective columns. For Items Rate components and Operation Service components, the prices shall be inclusive of all applicable/prevaling taxes and duties. |
| 74. | 6-19/ 67a(ii) | WTP capacity | It is indicated that <i>90 MLD (with provision for future extension of some units to 135 MLD) WTP</i> . Please confirm that provision shall be considered in the layout only. | The Employer's Requirement is very clear. The planning has to be done for 135 MLD considering modular approach with each unit of 45 MLD. The execution for 90 MLD WTP is in scope of the contractor under this contract. Also refer clause 524 of technical specification. |
| 75. | 8-4/ 14.2 | Advance payment | It is mentioned that <i>advance payment taken by the contractor is to be deposited in a separate dedicated Project Bank Account to be opened and maintained at Bhagalpur</i> . We request that a separate account opening at Bhagalpur may not be made compulsory as in the current banking system account can be operated from any place | Not agreed. The Bidding Document's provision shall prevail. |
| 76. | 8-23 / Schedule 5 | Contractor's payment | For most of payment, 10% is payable after testing and 10% on commissioning. Thus 20% of payment shall be held till testing and commissioning. We request that payment on testing and commissioning be limited to 10% and balance 10% could be added to payment made at installation or completion of work as applicable | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 77. | Vol-I/ 3-13/ 4-23/4-34 | 2.4.2 Construction Experience in Key Activities*/ section 4 - Bidding forms | <p>As per the clause, the bidder should have experience for designing, construction and commissioning of Water Treatment Plant on Plate Settler/Tube settler technologies only.</p> <p>However, in section 4 of the bidding forms sludge blanket clarifiers are also allowed for designing the water treatment plants</p> <p>Since there are many advanced water treatment technologies available in the market on the competitive price and better treated parameters (which is also acknowledged in section 4), the global bidders having experience on those advance technologies should be allowed a level-playing field to participate in the tender for better competitiveness which is in public interest.</p> <p>Therefore, please amend the clause as follows: <i>“Design, Construction and Commissioning of Water Treatment Plant of minimum output capacity 45 MLD having inclined Plate Settler/Tube settler/</i></p> <p><i>sludge blanket and PLC including SCADA with minimum one year of operation and maintenance experience (beyond defect liability period) within the last seven years. (This criteria should be met by the main bidder itself)”</i></p> | <p>Not agreed. The Bidding Document's provision shall prevail.</p> <p>The bidders may note that based on the limited land availability, raw water characteristics and detailed design carried out by our Expert Consultants, the best suited technology viz. Plate Settler clarifier, has been proposed. Accordingly the experience criteria has been framed.</p> <p>For WTP design experience pl Refer Addendum 1</p> |
| 78. | Vol-I/ 8-2/ 4.2 | Performance Security | <p>As per the mentioned clause the performance security should be submitted by the qualified bidder on award of LOI, in the form of an unconditional bank guarantee in the amount(s) of Ten (10) percent of the Accepted Contract Amount. Since Operation and Maintenance is also part of the same contract so the bidder need to submit performance security for</p> | <p>Not agreed. The Bidding Document's provision shall prevail.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|----------------------|--|--|--|
| | | | <p>O&M amount also on the award of LOI whereas the O&M will start after design build period of 900 days + defect liability period of 365 days.</p> <p>We request that on the award of LOI the bidder should be required to submit the performance security in the form of an unconditional bank guarantee in the amount(s) of Ten (10) percent of the Accepted Design Build Amount only. Even the advance payment is also 10% of the design build amount. The performance security of Design build amount shall be returnable to the bidder on the successfully completion of defect liability period of 365 days. Before starting of O&M, the bidder should be required to submit another performance security for the 10% of O&M amount. The Performance Security of O&M shall be reduced annually after adjusting the cost of the O&M Contract Price for previous year.</p> | |
| 79. | Vol-I/ 10.6a & 10.6b | Maximum compensation payable by the Contractor | We understand that the maximum compensation payable shall fully discharge the contractor from any other liability. | The existing provisions are self-explanatory. |
| 80. | Vol-I/ 1-11/15 | Currencies of Bid and Payment | Kindly confirm that the currency exchange protection has been given for the imported equipments. | Clause 15.4 clearly stipulates that Bidders should note that for the purpose of payments, the exchange rates confirmed by the source specified in the BDS as the selling rates prevailing 28 days prior to the deadline for submission of Bids shall apply for the duration of the Contract so that no currency exchange risk is |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|----------------------------|-----------------|--|---|
| | | | | borne by the Bidder. |
| 81. | General | | Kindly confirm that there should not be any consequential liability to the contractor except LD and maximum compensation payable. | It will be decided as per the contractual provisions. |
| 82. | General | | We understand, the effective date of work start shall be considered from the date of land hand over to the contractor. Please confirm. | The contract commencement date shall be notified in Notice to Proceed issued after signing of the Contract. |
| 83. | Vol-I/3-13/99 | Section – 6 | In clause 7, bidder is required to furnish proof of a minimum construction experience for specified clarifier technology in the design, construction and commissioning of water treatment plant. Therefore, bidder should be allowed to opt for only that clarifier technology for which the bidder has experience. Please confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 84. | Technical Specification/99 | Section – 6 | <p>The design criterion is provided only for Plate Settler clarifier in the technical specifications of the bid. However, in Section 4 – Technical Parameters for Water Treatment Plant, bidder is allowed to choose one out of five options for clarifier.</p> <p>This is a dichotomy. Moreover, since there are many advanced water treatment technologies available in the market on the competitive price and better treated parameters (which is also acknowledged in section 4), the global bidders having experience on those advance technologies should be allowed a level-playing field to participate in the tender for better competitiveness which is in public interest.</p> <p>Therefore, please confirm that the said technical specifications for plate settler clarifier will not be</p> | <p>The clarifier with Plate Settler technology is only allowed. Thus bidding document's provisions shall prevail.</p> <p>Refer Addendum 1.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|-------------------------------|-----------------|---|--|
| | | | binding if the bidder has opted for any other type of clarifier in Section 4 – Technical Parameters for Water Treatment Plant. | |
| 85. | Technical Specification/ 101 | Section – 6 | <p>The design criterion for only rapid sand filter is provided in the technical specifications of the bid. We understand that each bidder is to compulsorily use rapid sand filters.</p> <p>By making it compulsory, it restricts the wider competition in the bid. We request for better competition the bidder should be allowed to use advance filters, which provide the treated water parameters as per bid document.</p> | Not agreed. The Bidding Document's provision shall prevail. |
| 86. | Clause 2 | Qualification | <p>“It is the legal entity or entities comprising the Bidder, and not the Bidder's parent companies, subsidiaries, or affiliates, that must satisfy the qualification criteria described below.”</p> <p>Since, GOI has promoted lot of BOT project hence kindly confirm that project completed by Bidder by forming a SPV wherein Bidder is Prime Contractor is acceptable.</p> | Not agreed. The Bidding Document's provision shall prevail. |
| 87. | 2.4.2 (1) and 2.4.2 (7) | WTP Experience | <p>Clause 2.4.2 (1) is complete in itself whereas clause 2.4.2 (7) “Design, Construction and Commissioning of Water Treatment Plant of minimum output capacity 45 MLD having inclined Plate Settler/Tube settler” is redundant and restrictive in nature as client is limiting the choice of bidders by asking for a specific technology experience. 90% of the WTP constructed in India are based on Conventional clarification. Incase client intends to design the WTP on Inclined Plate/Tube Settler then the same can be given as option in Technical Specifications of bid.</p> | Not agreed. The Bidding Document's provision shall prevail. Refer clarification given at SNo 78. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---|----------------------|---|--|
| | | | <p>However, asking for specific technology experience restricts the competition during bidding.</p> <p>We request you to keep Clause 2.4.2 (1) and remove redundant clause 2.4.2 (7). Kindly consider and confirm.</p> | |
| 88. | 2.4.2 (8) | O&M Experience | <p>The O&M experience has already been asked in Clause 2.4.2 (1) and thus redundant. However, in case if client still wishes to keep the criteria then we request to please amend the same for Experience of O&M for 1 year after DLP. Please consider and Confirm.</p> | Not agreed. The Bidding Document's provision shall prevail. |
| 89. | 4.2 | Performance Security | <p>Performance Security of 10% of the Contract Amount shall be submitted within 28 days of issuance of LOA. Bidder understands that the 10% of the Contract Amount shall be calculated as Total Contract Amount – Provisional Amount. Please confirm.</p> | The total contract amount shall be inclusive of provisional sum. |
| 90. | General | ROU & ROW | <p>Please confirm that providing all ROU/ROW and encumbrance free site is onus of client.</p> | Provisions under GCC Clause 2.1: Right of Access to the Site, are self-explanatory. |
| 91. | General | Escalation | <p>Please confirm that failure to provide encumbrance free site well in time as per project schedule shall constitute sufficient ground for extension of time and escalation shall be provided for that period.</p> | Refer clarification given at SNo 91. |
| 92. | Section 8 Particular Conditions of Contract Part A – contract data 14.2/ 8-3 | Mobilization Advance | <p>From the referred clause, we understand that 10% of Accepted contract value will be provided as interest free mobilization advance to the contractor. We request you to kindly provide the Mobilization advance in Single instalment after Signing of</p> | <p>GCC clause 14.2 clearly stipulates interest free Mobilization AdvancePayment.</p> <p>The request for releasing advance payment in single installment is not</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---|----------------------------------|---|--|
| | | | Contract. Kindly consider and confirm. | agreed. The Bidding Document's provision shall prevail. |
| 93. | Section 8 Particular Conditions of Contract Part A – contract data 14.2/ 8-4 | Recovery of Mobilization Advance | We request you to kindly recover advance payment commencing when the contractor's billing amount reaches 20% of the contract price and the total recovery shall be effected by the contractors billing amount reaches 80% of the contract price in equal installments. Kindly consider and confirm. | The Bidding Document's Clause No.14.2 section 8 part A shall prevail. |
| 94. | Section 8 Particular Conditions of Contract Part A – contract data 14.2/ 8-3 | Rate of Advance Payment | In order to facilitate better cash flow of the project, we request to consider amount of Advance Payment as 10% of Accepted Contract amount instead of 10% of Accepted contract amount for Design Build Work. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 95. | General | Payment | We request you to kindly certify monthly running bill within 15 days and the payment shall be made within 30 days from submission of bills. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 96. | General | Payment Terms | We understand that it is an Item rate tender and the payment shall be made for the work done on Monthly basis as per the rate quoted by the bidder including escalation amount. Kindly confirm. | Bidders may note that it is a hybrid contract comprising of three parts:- The Part-A is for Design Build Components (Intake, WTP, etc.); Part-B is for Item Rate Components (Raw Water and Clear Water Pipelines); and Part-C is for Operations Service of the entire facilities created under this contract. For Item Rate components, the quantities are tentative only based on our estimates. However, the payments for such items will be made for the actual quantities |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|-----|---|-----------------|--|---|
| | | | | executed and certified under each IPC. The escalation amount, if any, will be governed by the GCC Clause 13.8: Adjustments for Changes in Costs and Clause 5 Price Adjustment for Payment for Design-Build works, of Schedule 5: Contractor's Payments under Section 8 of the Bidding Document. |
| 97. | Section 8; Particular Conditions of Contract; 3.1 Schedule No:7 -Raw water Main 8-26 & 8-27 | Payment Terms | <p>In the referred clause of particular conditions of contract, the payment breakup for Raw water Rising main & Clear water Rising Main is given as</p> <ol style="list-style-type: none"> 1. <i>Supply of pipes - 60%</i> 2. <i>Laying and jointing - 15%</i> 3. <i>Testing - 15%</i> 4. <i>Commissioning - 10%</i> <p>Whereas in the given Bill of Quantities, Supply, Laying & jointing and Testing for pipeline, valves and associated activities, are given as separate line items. Therefore, we request you to kindly provide the payment for the works done as per the quoted price of each line item mentioned in Bill of quantities.</p> | Not agreed. The Bidding Document's provision shall prevail. |
| 98. | Section 8; Particular Conditions of Contract Schedule 5: Contractor's Payments 8-23 to 8-27 | Payment Terms | We understand that the payment for the items not covered in the payment terms shall be paid progressively on monthly basis as per the quoted price. Kindly clarify and confirm. | Yes. The payments for such items will be made for the actual quantities executed and certified under each IPC as per quoted rates. And also refer Addendum 1 |
| 99. | Section 8; Particular Conditions of Contract Schedule 5: Contractor's Payments | Payment Terms | In the given payment terms, 20% of the payment is being held up against testing and commissioning, which on addition of 5% retention from Running | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|--|-------------------------------------|--|--|
| | 8-23 to 8-27 | | bills puts severe financial burden to the contractors and drastically affects the cash flow of contractor. Therefore, we request you to kindly change the payment terms as 2.5% against testing and 2.5% against commissioning. Kindly consider and issue necessary amendments. | |
| 100. | Section 8 Particular Conditions of Contract, & BoQ Schedule 5 Contractor's Payments 8-23 to 8-27 /4-195 to 4-231 | Schedule 4 | For Schedule 04, Payment terms for items 4.1 to 4.6 only are given, Whereas for the other items from 4.7 to 4.12 is not provided. Therefore kindly consider and provide the payment terms for the same. | Refer Addendum 1 . |
| 101. | General | Operation & Maintenance Payment | We understand that the payment for operation and maintenance shall be made on monthly basis on submission of bills. Kindly confirm. | Yes. Payment for operation service will be made on monthly basis, based on actual quantity supplied and certified subject to compliance of other performance parameters, as mentioned in the bidding document. |
| 102. | Section 8 - Particular Conditions of Contract 4.1. Schedule No. 8: Operation and Maintenance/ 8-27 | Operation & Maintenance Payment | In the referred clause it is mentioned as " <i>However the contractor will get maximum of 30% of the quoted rate for shortage of water supply</i> ". This will incur great loss for the Contractor since 70-80% of cost is basically the fixed cost during the operations & maintenance service, therefore we request you to kindly pay the contractor 100% of quoted rate for the days of shortage of water supply due to reason beyond the control of contractor. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 103. | General | Extra Item- Operation & Maintenance | We understand that for any items/ work which is not included in the BoQ, but needs to be done during operation and maintenance period shall be paid as extra at actuals. Kindly confirm. | The operation and maintenance of the facilities created under this contract is the responsibility of the contractor. In such cases during operation |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|---|--|--|
| | | | | services, the decision would be taken as per merit of the case. |
| 104. | General | Operation and maintenance | We understand that the operation and maintenance of existing utilities/ infrastructure is not under scope of contractor and only the assets built under this contract shall be operated and maintained by the contractor. Kindly confirm. | Yes. The contractor shall be responsible for operation services of the facilities created under this contract only. |
| 105. | Section 4 Price Proposals – Part C: Operations Service/ 4-267 | Break-up of Operation Services | It is our understanding that the break-up details of Operation Services shall be provided in case Employer request during evaluation. Please confirm our understanding is correct. | The bidder has to furnish break-up details of Operation Services as part of price proposals. |
| 106. | Section 4 16.1/ 4-82 | Electricity and Raw water Extraction charges | From referred clause, we understand that the operation services cost to be quoted by the bidder is exclusive of Electricity which includes fixed charges, consumed unit charges and Raw water extraction charges if any. Please confirm if our understanding is correct. | The referred clause is self-explanatory only. Also refer SCC clause 4.1.6 of schedule 5 of section 8. |
| 107. | Section 08 - PCC FIDIC Gold Book 14.19 Maintenance Retention Fund/ 8-4 | Maintenance Retention | We understand that there is no retention money deduction from the bills during Operation and maintenance period on submitting bank guarantee for 5% of the Accepted Contract value for operation services as Maintenance Retention Guarantee. Kindly confirm. | The maintenance retention shall be as per provisions of GCC and SCC 14.19. Request for Bank Guarantee as Maintenance Retention Guarantee is not accepted. |
| 108. | Section 08- PCC FIDIC Gold Book Maintenance Retention Fund/ 8-4 | Retention | In the referred clause, it has been stated that 5% of Accepted Contract Value shall be retained from the RA bills. In order to facilitate better cash flow in the project, we request you to consider an upfront Bank Guarantee for the value of 5% of the Accepted Contract Value in lieu of cash retention. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 109. | Section 08- PCC | Maintenance Retention | We understand that the Maintenance retention Fund | It is clearly defined in SCC 14,19 |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|----------------------------------|--|--|
| | FIDIC Gold Book 14.19 Maintenance Retention Fund/ 8-4 | | is 5% of the Accepted Contract price of the Operations Services only. Kindly confirm. | that the Amount of Maintenance The Maintenance Retention Fund would be 5% of the Accepted Contract Amount for OperationServices. |
| 110. | Section 8-PCC Part A – contract data 14.10/ 8-15 | Payment of retention Money | We request you to kindly repay the full amount of retention money on completion of Defect liability Period which in turn helps the cash flow requirements of contractor during Operation and Maintenance services. Please consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 111. | Technical Specifications Sub section – 6.1/277, ix 49 | Utility shifting and restoration | The referred clause states that the separate payment shall be made from the "Provisional Sum" for the pre-identified utility – shifting and restoring the same. We understand that the shifting and restoration of utilities shall be done by Employer and paid to the concerned departments and request you to kindly the details and list of " <i>Pre-identified Utilities</i> " shifting and restoration. | The utility shifting and restoration, as agreed/approved by the Employer, shall be done by the respective line departments/ agencies. As of now, there is not list of pre-identified list of utility-shifting. The contractor shall have to identify the utilities to be shifted during the design-build period and shall submit proposals to the Employer for further action accordingly. Such eligible amount would be reimbursed to the Contractor through provisional sum |
| 112. | General | BoQ | We understand that the quantities given in BoQ are tentative only, and the payment will be made on the actual quantities of work done at the rates quoted by the bidder. Kindly confirm. | For Item Rate components, the quantities are tentative only based on our estimates. However, the payments for such items will be made for the actual quantities executed and certified. If any variation in quantity occurs during |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | | execution, the same shall be dealt as per relevant contract provision. |
| 113. | General | Extra Item | We understand that for any extra item/ work which is not included in the BoQ, but is essential to complete the project will be paid to contractor at actuals. Kindly confirm. | For Design-Build components, there shall be no payments for extra items. For Item Rate components, the extra items, that are essential to complete and commission the entire facilities, shall be carried out by the contractor after approval of the Employer and shall be paid to contractor as per contract variation provisions. |
| 114. | Section 8 – PCC 2.1/8-9 | Right of access to the site & Right of way | We presume that the required right of access to the site, right of way and necessary area of land shall be provided to us by Employer with all permissions and clearances and free from all encumbrances, including payment of necessary charges, depository fees to all the authorities, acquisition from private land owners if required etc. Kindly confirm. | To be read in conjunction with Clause 1.14 of SCC: Compliance with Laws and other contractual provisions. |
| 115. | FIDIC 13.6 Adjustments for Changes in Legislation | Statutory variation | From the referred clause, we understand that the variation in taxes & duties due to change in the Existing taxes and/or introduction of new taxes and duties shall be paid at actuals. Kindly confirm. | Shall be governed with the provisions under referred clause. |
| 116. | Section 8 – PCC 4.2/ 8-2 | Performance Security | We understand that the successful bidder shall submit Performance Security in the form of Bank Guarantee for the value of 10% of the Accepted contract Value. We request you to kindly provide the validity for which the Bank Guarantee should be submitted. | The contractor shall arrange validity of performance security for period not less than the intended date of issue of contract completion certificate, subject to other contractual provisions. |
| 117. | Section 8 – PCC 4.2/ 8-10 | Performance Security | We request you to kindly return the Performance Security after completion of commissioning as the contractor would submit Bank Guarantee for 5% of Accepted Contract Value of Operation Services as | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | Maintenance retention fund. Kindly consider and confirm. | |
| 118. | Section 8 – PCC 4.2/ 8-10 | Release of Performance Security | In the referred Clause, the release of Performance security is given as “ <i>The remaining 50% shall be refunded in three equal tranches with the first tranche released on completion of 2,340 days, the second tranche released on completion of 3,420 days</i> ”. We understand that the days mentioned in this Clause are from the date of commencement. Kindly confirm. | Yes, subject to other contractual provisions like time extension, etc. |
| 119. | Section 06- ERQ 2.3 Preparation Activities S. No 18/ 6-11 | DPR | In the referred clause it is mentioned as “ <i>The Contractor shall acquaint himself the Detailed Project Report (DPR) that have been prepared for the project...</i> ” whereas the same is not provided to the Bidders. Therefore, We request you to kindly provide the DPR for better understanding of the project. | The copy of DPR shall be provided to the successful contractor. However the bidders may go through the DPR for this project available in BUIDCo office. |
| 120. | Section 06-ERQ 2.1.3 Contract Milestones/6-8 to 6-9 | Contract Milestones | In the “ <i>Figure 2.1.1 Schematization of project Implementation</i> ” The duration for Approach channel is given from 4 th to 8 th month (5 months), whereas in Contract Milestone it is given from 4 th to 7 th Month (4 months). We understand that the Bidder should consider the duration for approach channel as 4 th to 8 th month (5 months). Kindly confirm. | Refer Addendum 1. |
| 121. | Section 06- ERQ 2.1.3 Contract Milestones/6-8 to 6-9 | Contract Milestones | In the “ <i>Figure 2.1.1 Schematization of project Implementation</i> ” The duration for Raw water Main is given from 13 th to 18 th month (6 months), whereas in Contract Milestone it is given from 13 th to 16 th Month (4 months). We understand that the Bidder should consider the duration for Raw water main as 13 th to 18 th month (6 months). Kindly confirm. | Confirmed. Refer Addendum 1. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 122. | Section 06-ERQ 2.1.3 Contract Milestones/ 6-9 | Contract Milestones | We understand that the milestones given in the tender document is tentative only and shall be changed and finalized after award of contract on mutual agreement between Employer and contractor. Kindly consider and confirm. | The contractor shall ensure that the contract milestones are adhered strictly. If any slippage occurs, the same shall be treated as per relevant contractual provisions. |
| 123. | Section 06-ERQ 2.1.3 Contract Milestones 9.6 Delay Damages/section 8 | Delay Damages | We understand that the delay damages shall be calculated as 0.05 % of Accepted Contract Value of each section based on the Contract milestones given in the Document limiting to the maximum delay damages of 10% of the Accepted Contract value of that section. Kindly confirm. | Confirmed. |
| 124. | Section 08-PCC 9.6 Delay Damages/8-3 | Delay Damages | We request you to kindly consider 0.05% of the cost of the work remaining incomplete for each section to the maximum of 5% of the Accepted contract value of that section. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 125. | General | Delay damages | We understand that, on accomplishment of overall project and achieving the final milestone within the intended completion date, all the compensation for delay (if any) which was imposed earlier, will be reimbursed to the contractor. Kindly confirm. | It will decided by the employer as per the contractual provisions, once that stage is reached.. |
| 126. | Section 06-ERQ viii. Operation and Maintenance/ 6-58 | Project Duration | In the referred clause it is mentioned as <ul style="list-style-type: none"> • <i>"Time limit for completion of works - 30 months</i> • <i>Trial run - 30/30 days after completion of work,</i> • <i>Defect liability period - 1 year from date of commissioning</i> • <i>Operation and Maintenance - 10 years from</i> | Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|------------------------------------|---|--|
| | | | <p><i>date of commissioning</i></p> <p>We understand that it is a typographical error and the Time for completion of works is 30 months including Trial run period of 3 months. Kindly clarify and confirm.</p> | |
| 127. | Section 06-ERQ 5.3 Activities for work/ 6-29 | Maintain Existing Utility Services | In the referred clause it is mentioned as " <i>The Contractor to maintain existing utility services like electricity, water supply, telephone; oil/gas pipe lines etc. within the project area</i> ". We understand it is an error and the Contractor need not maintain the utility services. Kindly confirm | Refer Addendum 1 . |
| 128. | Section 04-BDF Table of Adjustment data 4-71 & 4-73 | Price adjustment data | <p>We understand that the percentage of components for the Price adjustment during Design build and operation service given in "Table of adjustment date" should be multiplied by 100 to convert to percentage and to be applied in Price Adjustment formula. Kindly confirm.</p> <p>We request you to kindly allow the bidders to propose the Table of adjustment data percentage of components for the Price adjustment. Kindly consider and confirm.</p> | Not agreed. The Bidding Document's provision shall prevail. |
| 129. | General | Bill of Quantities | We request you to kindly provide the soft copy (Excel File) of the bill of quantities for the ease of compilation of the bidder. | Uploaded on BUIDCo's website. |
| 130. | General | Taxes | At present, GST law does not grant exemption to projects funded by Asian Development Bank. Hence, the bidder shall quote price including GST. Kindly confirm | Refer Clause 14.7 of BDS. Also refer clarification given at SNo 3. |
| 131. | Section 8- PCC 19.2 (a) (i)/ 8-5 | Permitted Deductible Limits | The referred clause of Particular Conditions of Contract states Permitted Deductible Limits as | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses | | | | |
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| | | | <p>"None". Please note that policy in respect of insurance for works will carry deductible as specified in All India Engineering Tariff and subsequent circulars issued by General Insurance Council. Hence cannot be considered as "None". Therefore Kindly provide the deductible limits to be considered by the bidder.</p> | | | | | |
| 132. | Section 6 - ERQ 5.1 Design criteria/ 6-20 | Raw water quality Report | <p>In the referred section, the Raw water properties of the sample tested on 10th May 2011 is provided. Kindly provide the recently tested raw water sample report and the raw water quality trend for past 10 years if the same is available with the Department</p> | Please refer clarification given at SNo 45. | | | | |
| 133. | Section 8-PCC Payment for Operation Service/8-27 | Operation service Payment | <p>From the referred clause, we understand that for the water losses of greater than or less than 6%, the</p> <p>Operation and Maintenance payment shall be increased/decreased on the quoted price as per the formula given as follows: <i>"Price (adjusted for performance) = 50% * quoted price * (Total supplied quantity meeting the potable standards in the month/earmarked quantity in the month for particular year) + 50% * quoted price * 100* allowable wastage of water in %/actual wastage of water in%"</i></p> <p>The amount thus arrived shall be Adjusted for escalation and paid to contractor. Kindly confirm.</p> | <p>Payment for escalation during operation service shall be made as</p> <p>per relevant provisions under the GCC Clause 13.8: Adjustments for Changes in Costs and Clause 6- Price Adjustment of payments for Operations, of Schedule 5: Contractor's Payments under Section 8 of the Bidding Document.</p> | | | | |
| 134. | Section 6 - ERQ Table 7.1 Target Performance Standards Schedule 9 - 6-73, 4-265 | Performance Standards | <p>We understand that 90 MLD given in the document is the demand for the year 2032, and the demand during O&M period shall be as follows</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>O&M period</th> <th>Demand</th> </tr> </thead> <tbody> <tr> <td>1st Year</td> <td>60 MLD</td> </tr> </tbody> </table> | O&M period | Demand | 1 st Year | 60 MLD | <p>90 MLD is output demand of WTP. The maximum permissible losses will be 4% upto the outlet of WTP.</p> <p>Refer Addendum 1.</p> |
| O&M period | Demand | | | | | | | |
| 1 st Year | 60 MLD | | | | | | | |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|----------------------------------|--|--|--|
| | | | <p>2nd Year 63 MLD</p> <p>3rd Year 66 MLD</p> <p>4th Year 69 MLD</p> <p>5th Year 72 MLD</p> <p>6th Year 75 MLD</p> <p>7th Year 78 MLD</p> <p>8th Year 81 MLD</p> <p>9th Year 84 MLD</p> <p>10th Year 87 MLD</p> <p>Whereas in the Target Performance Standards, it is given as "<i>Quantity of water to be produced and conveyed to WTP per day 95 MLD. Allowable quantity 90 MLD</i>", we understand it is a typographical error and that the contractor needs to maintain losses of 6% only. Kindly confirm and clarify the quantity to be considered for fulfillment of performance standard 4.1.</p> | |
| 135. | Section 6-ERQ Table 7.1/ 6-73 | Target service level for parameter 4.2 | We request to mention the other quality parameters to be maintained to fulfill target Performance Standard 4.2. | The Bidding Document's provision shall prevail. The parameters to be maintained are PH, turbidity (suspended solids), colors, iron, taste and bacterial count (nil). Refer Addendum 1 . |
| 136. | Section 6-ERQ Table 7.1/ 6-73 | Target service level for parameter 4.2 | In the referred clause it is mentioned as " <i>Measured by Contractor: flow meters installed at Jack well and Entry of WTP and inlet of Service Reservoirs</i> ". We understand that the losses shall be measured | The losses in the raw water main, WTP, and clear water mains shall be measured by providing flow meters |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | between exit point of WTP and inlet of Service Reservoirs. Kindly Clarify and confirm. | Refer Addendum 1 . |
| 137. | Section 6-ERQ Table 7.1/ 6-73 | Target service level for parameter 4.2 | We request to kindly consider losses to be maintained as 8% instead of 6% losses. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 138. | Section 8-PCC Part C : Payment for Operation service 4.1.5/ 8-27 | Price adjustment for Performance Standard 4.1 | As per section-6, Table 7.1, for performance standard 4.1. Combined weightage for Quantity and allowable water losses is 50% and balance 50% Weightage for maintaining Quality. But as per referred clause 50% weightage is considered only for non-maintenance of water losses. Please clarify. | Refer Addendum 1 . |
| 139. | General | Raw water source | We understand that the availability of raw water at source is under scope of the Employer, and non-production of Treated water due to non-availability of raw water shall not be attributed to contractor. Kindly confirm | Not agreed. It is the responsibility of the contractor to extend/dredge/maintain the channel as and when required to ensure uninterrupted adequate quantity of water available at intake site for extraction to meet the clear water demand. However beyond 60 m dredging if required shall be paid additionally for the first time as an extra item .and he has to maintain additional length also in the subsequent years of maintenance period without any additional cost. |
| 140. | Section 4-BDF Form TECH-4B Manufacturer's Authorization/ 4-29 | Manufacturer Authorization | Kindly provide the list of Items for which the " <i>Manufacturer Authorization</i> " should be submitted. | As part of Technical Proposals, the bidder has to provide Manufacturer Authorization for all the Electro-Mechanical, Instrumentation & |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | | Automation items. |
| 141. | Section 4-BDF Form TECH-6 4-31 to 4-40 | Form Tech-6 | We request you to kindly allow the bidders to submit the Form " <i>Tech: 06 Technical Parameters for Intake Pumping Station, Clear Water Pumping Station and Water Treatment Plant</i> " after award of contract as it is difficult to provide all the details during Pre-Tender stage. The Technical details shall be provided during detailed engineering stage. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 142. | General | Drawings | We request you to kindly allow the bidders to submit the necessary drawings and technical details after award of contract during detailed Engineering stage. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail regarding submission requirements as part of technical proposal. |
| 143. | Technical Specification Sub Section 6.1 1331,1382,1404, 1434 & 1569/ 222 to 250 | Technical Details | From the referred clause, We understand that all Drawings, data, Guaranteed Technical Particulars, Temperature rise calculations, Detailed literature, catalogues, Type test certificates shall be submitted after award of contract" Kindly confirm | Not agreed. The Bidding Document's provision shall prevail regarding submission requirements as part of technical proposal. |
| 144. | Section 08-PCC & Section 4 -BDF 1.5 & Preamble to price Schedules S No1.3/ 8-10 & 4-75 | Priority of Documents | In the referred Clause of PCC, the priority of documents is given as <i>"(a) the Contract Agreement,</i> <i>(b) the Letter of Acceptance,</i> <i>(c) the Letter of Tender,</i> <i>(d) the Particular Conditions Part A– Contract Data,</i> <i>(e) the Particular Conditions Part B– Special Provisions,</i> <i>(f) the General Conditions of Contract (FIDIC</i> | Both the provisions are applicable. The PCC provision stipulates the priority of documents between different section of the contract agreement whereas the provision given in Preamble to Price Schedules stipulates the priority of documents between Price Schedules, Technical Specifications and Drawings and in case of conflict among |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p><i>Gold Book),</i> <i>(g) the Employer's Requirements,,</i> <i>(h) the Schedules (Technical and Price, including priced Bill of Quantities),</i> <i>(i) the Contractor's Proposal</i> <i>(j) the Resettlement Plan (RP), Environmental Management Plan (EMP), IEE and any other documents forming part of the Contract”</i></p> <p>Whereas, in the Preamble to Price Schedules the priority of documents is given as “a) Price Schedules and Preamble to the Price Schedules; <i>b) Employer's Requirement and Technical Specifications;</i> <i>c) Drawings;</i> <i>d) Relevant Indian or International Standards.”</i></p> <p>Kindly clarify the Priority of documents to be considered by the bidder.</p> | different sections/heads. |
| 145. | General | Trial run - Electricity & Consumables | <p>We understand that the electricity charges shall be paid by Employer directly to the Department. We request you to kindly change the scope of electricity and consumables during Trial run period to Employer/Client. Kindly confirm.</p> | Clause 2.7/32 and 2.8/34 clearly stipulates that such costs during trial run and commissioning period shall be borne by the contractor. |
| 146. | Section 2-BDS 2.4.2 / 3-12 | Work Experience Time lines | <p>We understand that the Bidder has to comply the construction experience in Key activities from the contracts executed within the last seven years ending up to the last date of bid submission. Kindly</p> | Yes. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | confirm. | |
| 147. | Section 2-BDS 2.4.2 / 3-12 | Certification of Completion Certificates | In the referred clause it is mentioned as " <i>The Applicant will submit copy of work-orders and completion certificates from the client not below the rank of Superintending Engineer in support of all claimed experiences.</i> " We request to consider the copy of Work order / Completion Certificates from the client not below the rank of Executive engineer as the same is being accepted across the contracts and it would be difficult to obtain Experience certificates from Superintending Engineer in the short span of time made available before submission. Kindly consider and confirm. | Refer clarification given at SNo 9. |
| 148. | Section 4- Preamble to Price Schedules 11.1/ 4-82 | Items not covered in price schedule | In the referred clause, it is mentioned as " <i>If the contractor feels that certain items are not covered in the Price Schedules to complete the job he may give them as additional items in the Price Schedules complete with rates and quantities. The cost of this will be included during evaluation</i> " We understand that contractor has the flexibility to incorporate any additional required items in the price schedules and the same shall be considered for financial evaluation. For uniform costing of all bidders and ease of evaluation, we request to delete this clause. Please consider and confirm. | Not agreed. The Bidding Document's provision shall prevail |
| 149. | Section 6 36/6-14 | Spare Parts | For uniform costing of all bidders, request to provide the list of minimum required spare parts for further 10 years to be provided. Please consider and provide the list of spare parts to be supplied during Operation | Refer clarification given at SNo 36. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | & Maintenance period. | |
| 150. | Section 6 50/6-17 | Consent from Bihar State Pollution Control Board | We request you to provide the current status of consent to establish Water Treatment Plant from Bihar state Pollution control board. | The BUIDCo shall apply for consent to establish with BSPCB, based on the designs and process for the plant to be furnished by the successful contractor and approved by Employer. |
| 151. | Section 6 72, Table 3/ 6-22 | Treated Water standards | As there is no separate treatment is proposed for treating Al, Mn, Cl, SO4, F and NO3, the proposed treatment process may not guaranteed for these parameters. The Output quality of water for these elements are purely depends on the Input of WTP which is not under control of the Bidder. So, request to modify the output water standards to be maintained. | The quality parameters indicated in S.No.28 (Parameter 4.2) of Addendum 1 would apply for payment purposes. |
| 152. | Section 6 113/ 6-45 | Compensation for change in Location of Intake well | In case if the location of the Intake well proposed to be changed by the Bidder during detailed Engineering Stage as per studies and recommendations of IIT, then Kindly clarify how the bidder would be compensated for the variations as intake channel, Intake well are under Part A i.e. Design Build Components. Kindly clarify. | Such situation shall be dealt as per relevant provisions under GCC and PCC. |
| 153. | General | Extension of Bid Submission Date | In view of extensive scope of work, time required for pre tender design, site visits and compilation of the bid, is not sufficient. Therefore, we request you to kindly extend the last date of Bid submission by at least by 4 weeks. Please consider and confirm. | Refer Addendum 1 |
| 154. | Section 06 Technical Specifications | Dredging Unit | In the referred clause it is mentioned as " <i>As per the primary calculation, the dredging interval may be</i> | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | 31/ 8 | | <i>around once in 40 days</i> ". Since the Dredging operation is required once in 40 days and deployment of Dredging unit during O&M period will not be cost effective. Therefore we request you to remove the scope of Dredging from Contractor. Kindly Confirm. | As per site condition, the frequency of dredging may increase or decrease. |
| 155. | General | Project Scheme | Since the project is of EPC nature, we understand that the bidder is free to make changes to the proposed concept (eg: type of intake / MS Pipe thickness etc) without altering the intended output of the project. Please confirm. | Refer clarification given at SNo 97. For the items proposed under Part-A, the design responsibility is of Contractor; and for the items proposed under Part-B, the designs have been prepared by the Employer through its Design and Supervision Consultants (DSC). The bidder/contractor can't make any change in the employer's design. However the contractor's designs shall be based on the latest CPHEEO Manual, relevant Codes and Standards and prescribed technical specifications and if the client agrees for change in the design then only it will be considered. |
| 156. | V-1 Bidding Document, Section 4 & V -2 Technical Specification, Sub-Section 6.1 4.6.3.1 944/ 4-201, 164 | River Bank Protection Work | In the referred BOQ item, it's mentioned that, river bank protection works at WTP area on the bank of river ganga is 500m. Whereas in technical specification states that the length of river protection work shall be about 530m at WTP. Hence we request you to clarify the length to be considered. | The length of 500m can be considered for river protection work and work shall be executed as per technical specifications. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|--|--|---|--|
| 157. | V-2 Technical Specification, Sub-Section 6.1 , Annexure A & Drawing 919 (d & e)/ 89 Drawing- no:14/ 161, 30, 14 | River Bank Protection Work | In the referred clause, it's mentioned that, <i>"Providing and constructing toe-beam of concrete to protect the slope of revetment. This toe-beam will rest and will be supported on gabion wall. Constructed on bank and resting on hard rock at the bottom"</i> . Whereas sheet piling is indicated in annexure A (Initial Environmental Examination) and tender drawings instead of gabion wall. We presume that gabion wall need to be considered below toe beam. Kindly confirm. | Yes. The gabion wall shall be provided below the toe beam. For correction in Drawing pl Refer Addendum 1. |
| 158. | V-2 Technical Specification, Sub-Section 6.1 , V-1 Bidding Document, Section 4 919 (d & e) 4.6.3.1/161/4-201 | River Bank Protection Work | From the referred clause, its states that gabion wall to be constructed on bank and resting on hard rock at the bottom. Whereas BOQ it's mentioned that piling instead of gabion wall. We presume that gabion wall need to be considered for the river bank protection. Kindly confirm. | Confirmed. Also refer clarification given at SNo 158 For Change in BOQ pl refer Addendum 1 |
| 159. | V-1 Bidding Document, Section 6 67/ 6-19 | Approach Road | We request you to provide the approach road length and specification to be considered at Intake and WTP locations. | Approach length in intake works shall be 125 m and internal road at WTP shall be 905 m. Pl refer Addendum 1 for drawings. |
| 160. | V-1 Bidding Document, Section 4 4.6.2.11 774 & 775/ 4-200, 134 | Administrative and laboratory building | In the referred BOQ item, it's mentioned that, Administrative and laboratory double storied building with each floor having a plinth area of 250sq.m. Whereas in technical specification states that double storied building with each floor having a plinth area of 350sq.m. Hence we request you to clarify the building area to be considered. | Double storied building with each floor having plinth area of 250 sqm shall be considered. Refer Addendum 1. |
| 161. | V-2 Technical Specification, Sub- | Approach road drawing | In the referred clause, it's mentioned that, <i>"The</i> | Length of approach for intake works |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | Section 6.1 157/ 26 | | <i>approach road shall be constructed as per the drawings showing alignment & cross section.</i> ” but the same is not available in tender document. Hence we request you to provide the drawings showing alignment & cross section. | is 125 m. Difficult drawings will be uploaded. PI refer Addendum 1 |
| 162. | V-1 Bidding Document, Section 6 67/ 6-19 | Boundary Wall | We request you to provide the length of Boundary wall to be considered at Intake and WTP locations. | It shall cover all the plot area of WTP, Jack-well and pump-house of the intake structure. |
| 163. | V-1 Bidding Document, Section 6 63/ 6-18 | Road/River/Railway/Nallah Crossing | We request you to provide the total numbers, width and depth of crossings all along the pipeline route. | The contractor has to assess the total numbers of crossings. For BOQ Refer Addendum 1 . for which the contractor has to quote the rate. |
| 164. | V-1 Section 4 – Clear water rising main Bidding forms | Coarse sand bedding below pipeline | From the referred BOQ, we observed that provision for coarse sand bedding below pipeline is not available in the provided BOQ, hence, we request you to include the same (along with the length) in the BOQ. | Refer Addendum 1 . for which the contractor has to quote the rate. Agreed. coarse sand bedding shall be proposed below the pipes. |
| 165. | V-1 Bidding Document, Section 4 7.10/ 4-243 | Raw water main – Valve Chambers | From the referred BOQ, we observed that the provision for construction of sluice valve chambers are not available in the provided BOQ, hence we request you to include the same in the BOQ. | Refer Addendum 1 for which the contractor has to quote the rate. |
| 166. | V-1 Bidding Document, Section 4 7.11, 7.12 & 7.13/ 4-244 | Raw water main – Thrust blocks & crossings | From the referred BOQ, we observed that, plain/reinforced cement concrete, Reinforcement, Centering and shuttering are given in general. Hence, we presume that the given quantity is inclusive of that required for thrust blocks and crossings. Kindly confirm. | Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|---------------------------------|--|---|
| 167. | V-1 Section 4 – Clear water rising main /Bidding forms/ 4-253 | PCC & Shuttering | From the referred BOQ, we observed that provision for PCC & shuttering of nallah crossing and thrust block are not available in the provided BOQ, hence, we request you to include the same in the BOQ. | Refer Addendum 1 . |
| 168. | V-1 Section 4 – Clear water rising main/Bidding forms | Crossing by pipe pushing method | From the referred BOQ, we observed that provision for crossing by pipe pushing method of road and railway crossing are not available in the provided BOQ, hence, we request you to include the same (along with the length) in the BOQ. | Refer Addendum 1 . for which the contractor has to quote the rate. |
| 169. | V-1 Section 4 – Clear water rising main/Bidding forms | Surge protection | From the referred BOQ, we observed that provision surge protection tank and related arrangements are not available in the provided BOQ, hence, we request you to include the in the BOQ. | Refer Addendum 1 . for which the contractor has to quote the rate. |
| 170. | V-2 Technical Specification, Sub-Section 6.1 963/166 | Seismic zone | In the referred clause, it's mentioned that, " <i>The seismic loading shall be calculated as per IS 1893 and the structures designed in accordance with this standard. The project area falls within India seismic Zone V (five)</i> ". Whereas, as per latest IS 1893 Bhagalpur falls under India seismic Zone IV. We request you to allow the bidder to follow the latest codal recommendation. Kindly consider and confirm. | Bidder/contractor has to follow latest/prevaling IS Codeprovisions for the project region/zone. |
| 171. | V-2 Technical Specification, Sub-Section 6.1 970 (e)/167 | Uplift | In the referred clause, it's mentioned that, " <i>Structures shall be designed for uplift in the empty condition considering the depth of the highest historical water table recorded in the area</i> ". We request you to allow the bidder to consider the depth of water table as per actual site condition. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 172. | V-2 Technical Specification, Sub-Section 6.1 396,397, 992, & 993 66 &170-171 | Reinforcement | As per the clause no.396 & 397 HYSD / TMT of Fe 415 grade steel should only be used for reinforced cement concrete works, Whereas the clause no. 992 & 993 states that for all the major structures TMT Fe 500 should be used. We request you to clarify which grade of steel to be considered. | The referred Clause 993 clearly specifies the use of both the grades of Steel. |
| 173. | V-2 Technical Specification, Sub-Section 6.1 538 (j)/93 | Minimum grade of PCC | In the referred clause, it's mentioned that, minimum Grade of PCC for Liquid retaining structure should be M20. We request you to allow bidder to consider minimum grade of PCC as per IS 456. Kindly consider and confirm. | As per the designs carried out by Consultants, the minimum requirement of PCC is of Grade M20.. Thus the Bidding Document's provision shall prevail. |
| 174. | V-2 Technical Specification, Sub-Section 6.1 990 (iii)/170 | Minimum Cement Content | In the referred clause, it's mentioned that, " <i>The minimum grade of concrete for water retaining structures shall be Class M30 having a minimum cement content of 350 kg/m3 with 20 mm size downgraded coarse aggregates</i> ". We request you to allow bidder to consider minimum cement content of 320 kg/m3 for M30 grade of concrete as per IS 456. Kindly consider and confirm. | For water retaining structures the cement content shall be as per approved design mix. The minimum grade shall be as per technical specifications. |
| 175. | V-2 Technical Specification, Sub-Section 6.1 990 (iv)/170 | Code of Practice | In the referred clause, it's mentioned that, " <i>All design for water retaining structures including roofing shall be based upon limiting the crack width to 0.2 mm as per BS 8007</i> ". We presume that the code to be followed for design of water retaining structures shall be IS 3370 instead of BS 8007. Kindly confirm. | Confirmed. Refer Addendum 1 . |
| 176. | V-2 Technical Specification, Sub-Section 6.1 990 (x)/170 | Code of Practice | In the referred clause, it's mentioned that, " <i>The minimum reinforcement shall be in accordance with BS 8007</i> ". We presume that the minimum | Confirmed. Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | reinforcement of water retaining structures shall be IS 3370 instead of BS 8007. Kindly confirm. | |
| 177. | V-2 Technical Specification, Sub-Section 6.1 538 & 997 93 & 171 | Plinth Level | In the referred clause, it's mentioned that, " <i>The finished floor elevations of the buildings shall be preferably 900 mm above the finished grade level outside of the building</i> ". Whereas the clause no. 997 states that, " <i>Building plinth shall be a minimum of 600 mm above the average finished ground level around the building</i> ". We request you to clarify the minimum plinth level to be considered above the finished ground level. | The finished floor elevations of the building shall be preferably 900 mm above the finished grade level outside of the building. Refer Addendum 1. |
| 178. | General | Survey Details | We request you to provide the Bathymetry survey details at Intake location, if the same is available with BMC. | The contractor has to do the bathymetry survey on his own. Refer Clause 83 and 112 of Section 6: Employer's Requirement. Refer clarification given at SNo 186. |
| 179. | General | Plot Area & Spot levels | We request you to provide the plot area and spot levels at WTP location, if the same is available with BMC. | Refer clarification given at SNo 65. However plot area marked on google map is attached for reference purpose. Refer Addendum 1 |
| 180. | General | Geotechnical investigation report | We request you to provide the Geotechnical investigation report for Intake and WTP, if the same is available with BMC. | It is the responsibility of the contractor to do the test for Geotechnical Investigation. Refer clarification given at SNo 45. |
| 181. | General | Concrete Works | Since the project consists of huge volume of concrete works and the availability of river sand is becoming scarcity, hence we request you to kindly allow us to use manufactured / crushed sand in concrete works which meets the design criteria. | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 182. | Technical Specifications Sub section – 6.1 277, xiii/ 49 | Restoration of structures and properties | From the referred clause, its states that restoration of structures and properties injured and disturbed by the construction activities to as near its original shape. We presume that the cost for same shall be paid at actuals to the contractor since these is no provision provided in BOQ. Kindly consider and confirm. | The cost of any repair to such damaged properties shall be borne by the contractor. |
| 183. | Technical Specifications Sub section – 6.1/ 499, 81 | Standard drawing | We request you to kindly provide standard drawing for road restoration of various types of roads along with chambers which is not available in the tender document. | The contractor has to restore the roads as per the specification already exist in the various roads |
| 184. | V-1 Bidding Document, Section 4 4.3/ 4-196 | Intake well | The referred clause 4.3 states, " <i>Construction of RCC intake well by Sinking of Well capable of receiving raw water 141 MLD on the bank of the River Ganga</i> <i>by Caisson method or any other suitable method up to the required depth below the scour depth with required size and shape and providing the required number of openings at two or more levels with screen for entry of water alone without any silt and fish etc. even during summer and winter and necessary sluice gate arrangement to be provided to close the openings whenever not required</i> ". Hence we presume that the bidder is free to choose the size and shape of the intake well as per our design requirement. Kindly confirm. | The contractor is free to choose suitable size and shape provided the criteria specified in the CPHEEO manual and our requirement are fully complied. The construction method shall comply IRC 78 and IRC 6-2000 or latest publication and without changing the design requirements. |
| 185. | V-1 Bidding Document, Section 6 114 (ii), 75 a. i., 123, 75 a. ii./ 6-45, 6-23, 6-52, 6-24 | Missed out structures/civil works in BOQ | As per the referred clauses the following structures/civil works are in bidder's scope. However provision for the same are not included in BOQ. | Most of the items mentioned in the query are already available in the BOQ description. However for items proposed under scope of contractor and if there is no item in price |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>At Intake & Raw water pumping station:</p> <ul style="list-style-type: none"> i) Constructed channel. ii) Approach road, internal roads, path ways & associated sewerage& drainage. iii) Electrical substation. iv) Administrative building with PLC room, battery room etc. v) Sub-station building. vi) Compound walls with barbed wire protection. vii) Workshop cum store, landscaping & arboriculture and guard room with toilet facilities. <p>At WTP:</p> <ul style="list-style-type: none"> i) Land reclamation. ii) Compound wall. iii) Approach road & associated drainage works. iv) Godown. v) Weighing bridge (30 MT capacity/computerized). vi) Sewerage & drainage. vii) Landscaping, beautification and horticulture of the entire WTP area. <p>Hence, we kindly request you to include the above mentioned structures/civil works in BOQ.</p> | <p>schedule and all other items which are not mentioned elsewhere in the bidding documents but required to be completed to commission the facilities, are required to be executed by the contractor and cost of such items has to be assessed by the bidder and to be incorporated in other items of relevant price schedule.</p> |
| 186. | V-1 Bidding Document, Section 4 4.5/ 4-198 | Jack well | The referred clause 4.5 states, " <i>Construction of RCC Jack well with required shape and size to hold the water of 141 MLD and to accommodate the pumps for operation by well sinking method or any other</i> | Refer clarification given at SNo 185 |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <i>suitable method up to the depth below the scour depth and 2 to 3 m below the invert level of the connecting pipe</i> ". Hence we presume that the bidder is free to choose the size and shape of the Jack well as per requirement. Kindly confirm. | |
| 187. | V-1 Bidding Document, Section 4 4.5/ 4-198 | Jack well – internal roads | We kindly request you to provide the internal road length to be considered at Jack well location. | Intake work approach road length will be 125 m Refer Addendum 1 for drawings |
| 188. | V-1 Bidding Document, Section 4 & Drawing 4.6.2.10, Drawing no:11 4-200/12 | Chlorine Building | In the referred clause 4.6.2.10, two numbers of chlorine building are given whereas in drawing no: 11 (General Arrangement of WTP work) only one number is given. Hence, we kindly request you to clarify. | Two numbers of chlorine buildings are required each for pre-chlorination and post-chlorination. Refer Addendum 1 . |
| 189. | V-2 Technical Specification, Sub-Section 6.1 916 /161 | Garages | In the referred clause 916 in technical specifications states, " <i>Covered garages of 150 m2 area each shall be constructed at 2 different locations within the WTP campus</i> ", but provision for the same is not included in BOQ. Kindly clarify | Refer clarification given at SNo 186. Refer Addendum 1 |
| 190. | V-1 Bidding Document, Section 6 75 a. iv./ 6-24 | Guard's barrack | As per referred clause 75 a (iv) in bidding document Guard's barrack is in bidder's scope but provision for the same is not included in BOQ. Kindly clarify | At the entry of WTP premises one Guard room of 10' x12' shall be provided. Pl refer BoQ item 4.6.4.1 |
| 191. | Volume 1 Section 6 i. 117. / 6-48 | Bypass during Monsoon | It is mentioned that during low turbidity, pre-settling tanks shall be bypassed to feed the sedimentation tanks. We presume that head of VT pump is designed to cater the variation in head due to shift in delivery point location. Kindly confirm. | The contractor shall account these static variations due to bypassing of the primary settling tank. The river water variation shall also be accounted while designing the pumps. The variable frequency drives shall be proposed for the pumps. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 192. | Volume 1 Section 4 1.6 & 1.28.6/ 4-90 & 4-105 | EOT Crane Capacity | We request you to kindly provide the capacity of EOT crane required to be installed along with the necessary lift required, if the same is available with the department. | The contractor has to provide EOT cranes of sufficient capacity as per the design requirement. |
| 193. | Volume 1 Section 4 2.29.1/ 4-159 | Configuration of Pumps | The Configuration of clear water pumps is mentioned as 5 W + 2 S. We presume that it shall be 4 W + 2 S to supply 90 MLD of water at intermediate stage considering 23 hours of operation. Also in Page 187 of technical specifications, it is given as 4W+2S. Kindly clarify and confirm. If our presumption is correct, we request you to kindly change the delivery line valves to 6 Nos instead 7 Nos in Item 1.29.1.2 – page 4-107 & Item 2.29.2.2 – Page 4-159. | 4W +3S is the correct configuration for clear water pumps Refer Addendum 1 . |
| 194. | Volume 1 Section 4 7.9.2.3/ 4-242 | MS Specials | We request you kindly elaborate the details such as item and diameter wise quantities of MS specials rather than quantities in kg. | Not agreed. Bidder has to make his own assessment. The Bidding Document's provision shall prevail. |
| 195. | Volume 1 Section 4 | Air valves for Presetting tank pump house and clear water pump house | We understand that there is no provision for air valves considered in the delivery header line of pre-settling tank pump house and clear water pump house. As a good engineering practice, we request you to consider and include it in BOQ. | Air valves provision has been given in Price Schedule Item No.8.13.1.3. |
| 196. | IEE & BWSP 02 - Drawings 6.Connecting pipe / 26 & 3 | Length of Connecting pipe | In page 38 of Annexure-A_BWSP2-IEE , length of connecting pipe between Intake and jack well is mentioned as 50 m. However the same is indicated in page no 3 of BWSP 02 - Drawings as 40 m. Kindly provide us with the accurate length and request you to itemize it in BOQ. | The estimated length of connecting pipe is 50m. However it may vary as per the layout of intake well and jack well. Refer clarification given at SNo 156. Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 197. | IEE 3.Design of approach channel /26 | Silt pocket allowance and design of approach channel | We presume that silt pocket of 2 m is included in 7 m depth provided below RL 25m. In addition to this, we request you to allow the bidders to size intake channel and silt pocket based on their own to suit the requirement which shall facilitate design optimization. | Refer clarification given at SNo.156. |
| 198. | Volume 1 Section 4 4-32 & 4-33 | System resistance curve | It is mentioned that bidders shall provide system resistance curve for pumping mains. Generation of system resistance curve of the system against different flows is difficult at this stage. We request you to kindly allow the bidders to provide the same during detailed engineering i.e., after award of contract. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. The bidder is required to submit system resistance curve for pumping mains along with the bid as part of technical proposal. |
| 199. | IEE & Volume 1 Section 4 79 & 2.29.1 28 & 4-159 | Configuration of clear water pumps | In Annexure-A_BWSP2-IEE , page no 28, configuration of clear water pumps is mentioned as 4 W + 2 S. However, the same is mentioned as 5 W + 2 S in page 194 of Volume 1 Section 4 . We presume that 4 W +2 S is the correct configuration. Kindly confirm | Refer clarification given at SNo. 194. |
| 200. | Drawings General Arrangement of Intake Works 3 | Inconsistency in Channel dimensions | We understand width of channel with bottom width as 5m at 18m RL and side slope of 1:3, at 25 m RL shall be $((5+2*3*(25-18)) = 47$ m). However from drawings (Cross Section at B- B @ 30m RL), it is inferred that width of channel at 25 m RL is $((30+5+30)-(2*12.75)) = 39.5$ m). Kindly confirm the same as 47m or request you to allow the bidders to size intake channel on their own to best suit the requirement. Kindly consider & confirm. | It shall be 47 m. The bidder/ contractor may also give alternative based on the stability of slopes in the river water and on the bank best suiting the requirement. However the invert level of approach at the start position shall be 18.00 m only. Refer clarification given at SNo. 156. |
| 201. | Volume 1 | Intermediate and Ultimate year | Assuming commissioning of the project by 2020, | Confirmed. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | Intermediate and Ultimate years for the project would be 2035 and 2050 respectively. However, throughout the document it is mentioned as 2032 and 2047. In addition to this, capacities of structures are designed for 2047 and that of pumps are designed for 2032. We presume that capacities & demands of the project shall be unaltered during the course of detailed engineering and 2032 & 2047 shall remain the intermediate and ultimate years for the project. Kindly confirm. | |
| 202. | Volume 1 | Pump parameters | Since OHTs are not in the scope of the project, assessing the duty conditions of pumps at this stage is difficult. Hence, we presume that any increase in the head/flow or power during execution shall not be penalized. Kindly confirm. | The construction of service reservoirs is in progress under ongoing contract BWSP-01. The referred conditions are unlikely to occur. Otherwise, the Bidding Document's provision shall prevail. Also refer Clarification given at SNo 46. |
| 203. | Technical Specification & IEE Table 1 & Design of approach channel 1 /3 & 26 | Bottom width | In technical specifications, page 3, bottom width of channel is mentioned as 10m whereas the same is mentioned as 5 m in IEE, page 26 . Kindly confirm the same as 5 m. | The bottom width is 5 m only at 18 m RL at the start of the approach channel. Suitable grade shall be provided to have RL 17.50 m at the intake location. Minimum side slope be 1: 2.5(v to H) are required in the embankment portion.(from LWL of river 25 m). Refer Addendum 1. |
| 204. | General | Priority of documents | It is found that there are many mismatches in technical specification of project component in | Provision for priority of documents is there in GCC and SCC. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | various documents given along with tender. We request you to list the priority of documents so that correct details shall be considered for costing of project. | Refer clarification given at SNo 145. |
| 205. | Volume 1, Technical Specification & Drawings Part A: Design-Build Components Name-4.1, 4.2, 4.3 & 4.4 Subsection-6.1 & GA of Intake Works/ 4-195 to 197, 1 to 23 & 3/20 | Water Intake Arrangement | <p>From the tender BOQ schedule, technical specifications and drawing given along with tender, we would like to modify some technical parameters given in tender.</p> <ol style="list-style-type: none"> 1. Bed level at start of approach channel shall be 18m, whereas low water level given in document is 24m. We are constructing channel at 6m below low water, which is very high. In view of this, we request you to allow bidder to consider invert level of channel as per hydraulic design requirement, which will optimize cost of the project. 2. We request you to allow bidder to consider side slope of channel wall as per design requirement. 3. Intake well shape is considered as twin D type. We request you to allow bidder to consider shape of well as per design requirement and ease in execution. 4. Jack well shape is considered as twin D type. We request you to allow bidder to consider shape of well as per design requirement and ease in execution. <p>Kindly consider and confirm.</p> | <p>The bidder may note as under:-</p> <ol style="list-style-type: none"> 1. Bed level of approach channel shall be 18 m only. 2. Side slope of the channels shall be based on the stability design requirement of river water and bank of river. These shall conform to IRC and IS codes provisions. Refer clarification given at S.No 204 for minimum side slope to adopted in the embankment portion. 3. Agreed. However relevant Design code provision shall be complied. 4. Agreed. However relevant Design code provision shall be complied. |
| 206. | Volume 1 & Tech Specification | Duty Condition of raw water and settled water sump | <p>Duty condition for raw water and settled water pump given as per volume 1 is,</p> <ol style="list-style-type: none"> 1. 1027m³/hr @ 29m & 1027m³/hr @ 8m | 1027 m ³ /hr @ 29m & 1027m ³ /hr@8m is the correct configuration. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | 1.1.1, 1.28.1, Table 74 & 75 4-88, 4-103 & 186 | | <p>respectively.</p> <p>Duty condition for raw water and settled water pump given as per technical specification is,</p> <p>2. 1120m³/hr @ 29m & 1120m³/hr @ 7.5m respectively.</p> <p>Since bidder has to furnish power guarantee, we request you to kindly confirm correct pump details.</p> | Refer Addendum 1 . |
| 207. | General | Hours of operation of raw water and clear water pump | <p>Considering 1027m³/hr and four working pump as correct configuration, we presume that raw water pump, clear water pump and WTP shall be designed to operate for 23 hours. (1027 x 4 x 23 = 95 MLD)</p> <p>Kindly confirm.</p> | <p>The raw water shall designed for 23 hours with four working pump with each having the capacity of 1027 m³/hr (4W+2S). Clear water shall be designed for 23 hours with four working pumps with each having the capacity of 978 m³/hr (4W+3S).</p> <p>Also refer clarification given at SNo. 194.</p> <p>Refer Addendum 1.</p> |
| 208. | Volume 1 Section 4 2.29.1/ 4-159 | Clear Water Duty Pump Configuration | <p>From tender drawing and technical specifications, we presume that there are two different sets of pumping machineries supplying water to western and southern transmission system having demand of 56 & 44 MLD respectively.</p> <p>But as per technical BOQ schedule only one set of pump is provided having duty parameters as 978m³/hr @ 38m (5W+2S). We request you to clarify on above mentioned ambiguity.</p> | Only one set of pumping machineries will supply water through common main to western and southern transmission system. |
| 209. | Volume 1 | Battery limit of the project | <p>We presume that project scope terminates by providing connection to the inlet of service reservoir. Kindly confirm.</p> <p>In addition to this, we presume that scope shall be restricted to following works at 19 existing service</p> | The scope shall restrict to the inlet of 19 service reservoirs and existing 4 reservoirs. |

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| | | | reservoir. 1. Supplying and installing isolating valve and flow meter at inlet. 2. Providing TEE connection at the inlet pipe of each service reservoir. Kindly confirm. | |
| 210. | Resettlement Plan Fig 4. & 2.29.1/11 & (4-159) | Number of rising mains | From the figure, we understand that three rising mains arise from the WTP campus (Southern, western and housing board OHT). However in tender drawing and technical specifications, the same is given as two different sets of pumping mains arising from the WTP (only southern and western). We request you to clarify on the scope of rising mains. | Refer clarification given at SNo. 209. |
| 211. | Volume I | Clear water Pump house | We presume that all clear water pumps shall be replaced after the intermediate year and hence no provision for sizing of clear water pump house to be provided to accommodate additional pumps for future provision. Kindly confirm. | The pump-house shall be designed for future requirement of additional pumps. Refer item 4.6.2.13 of Price Schedule 4 which clearly stipulates that the pump-house shall be designed for future requirement also. |
| 212. | Technical Specification and Resettlement Plan 4 & 26 | Side slope of channel upto 25 m RL | In technical specifications, side slope of intake channel is mentioned as 1 (V): 5 (H). However, the same is mentioned in Resettlement Plan as 1 V: 3 H or flatter up to 1:5. We presume that bidder has the flexibility to choose any slope between 1:3 and 1:5, whichever best suits the requirement. Kindly consider and confirm. | Agreed. However stability of slope design shall be provided. Refer clarification given at SNo. 156 and S.No204 |
| 213. | Volume I | Hours of working | In page 324, it is mentioned that " <i>Operation and</i> | Confirmed. The transmission system |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | Section 6 6-20 b. & 6-44 (5.5) 6-20 & 6-44 | | <i>Maintenance of intake works, raw water pumping station, raw water pumping main, all units of WTP and transmission network and electrical and mechanical works 24x7 of potable water for a period of 10 years</i> ". However, in page, it states the hours of operation of Raw water rising mains and clear water rising mains to be 23 Hours. We presume that all transmission mains shall operate for 23 Hours for our pumps to be able to cater a demand 90 MLD of water. Kindly confirm. | shall be designed and operated for 23 hours to supply 90 MLD of water to the reservoirs. However the water from service reservoirs shall be fed to the distribution system on 24x7 uninterrupted supply basis. |
| 214. | Volume 1 Section 4 & Technical Specification 7.9.5 & XXX. 4-243 & 31 & 37 | Specification for internal coating | As per Volume 1 -page 278, internal lining and external coating is given as cement mortar, whereas in tech specifications page 31 & 37, MS pipe shall have internal epoxy lining and external tape coating. We presume that details regarding coating and lining given in Volume 1,page 4-243 are correct. Kindly confirm if our presumption is correct. | Technical specification provision mentioned on page 32 and 37 shall be used.Refer Addendum 1 . |
| 215. | Volume 1 7.9.1 & i-117 4-241 & 6-48 | Thickness of MS Pipe | From Clause 7.9.1 of tender price schedule, thickness of MS pipe for 1321mm diameter pipe is given as 10mm while as per clause-117 in page 6-48 thickness of MS pipe is given as 12mm. We presume that thickness of MS pipe shall be 10mm. Kindly confirm. | Refer Addendum 1 . |
| 216. | Volume 1 Section 6 i-118/ 6-48 | Cathodic protection of raw water rising main | Since at bidding stage, it is difficult to conduct soil resistivity test, hence we presume that entire raw water rising main from intake to WTP shall have impressed current cathodic protection. Kindly confirm. Request you to kindly elaborate and itemize it in BOQ. | Refer Addendum 1 |

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| 217. | Volume 1 Section 4 Part 1 to Part 5 / 78 -88 | Data sheets | As many parameters provided in the data sheet can be revealed by the vendors during detailed engineering, we request you to allow bidders to submit the data sheets of Pumps, Pipeline Coating, and Water treatment plant and Electrical equipment after award of contract. Kindly consider and confirm. | Please refer clarification given at SNo 144. |
| 218. | Volume 1 Section 4 7.10/ 4-243 | Valve | In the referred BOQ item terminology of class II valves is used for gun metal valves as per IS 778, Hence we request you to kindly amend or remove the same as it is irrelevant for the mentioned valves. | Refer Addendum 1 . (Class II standsreplaced with pressure rating of PN 1.0 class) |
| 219. | Volume 1 Section 4 | Dismantling Joints | As per good engineering practices, dismantling joints has to be provided for valves of diameter 300 mm and above, we request you to kindly provide the same in Bill of quantities. | All the valves shall be provided with Dismantling joints as prescribed in the Price Schedule item 8.13. |
| 220. | Volume 1 Section 4 & Section 6 1.29.7 / 2.29.7 &/ 4-109 & 6-52 | EOT Crane | In section 4, it is mentioned as EOT crane of 10 T to be installed in clear water pumping station whereas in section 6, it is given as 15 T. Kindly clarify the capacity of EOT crane to be provided. | 10 T EOT crane has to be provided in the clear water pumping station. Refer Addendum 1 . |
| 221. | Volume 1- Section 6 & Technical Specifications 126 & 258/ 6-53 & 258 | DI pipe coating | As per IS 8329, minimum thickness of external coating shall be 50 microns whereas as per the referred clauses it is given as 75 microns. We understand bidder has to supply as per relevant IS Standards. Kindly confirm. | Confirmed. IS 8329 provision shall prevail. |
| 222. | Technical Specifications 138/ 23 | Bellows | From the referred clause, we understand that the bidder has to consider bellows in raw water pump header. Hence, we request you to kindly provide the item in Bill of quantities. | Refer clarification given at SNo 186. |
| 223. | Technical Specifications xxxiii. Supply of Ductile Iron Pipes | Experience | Since the project scope comprises of DI Pipe of diameter ranges from 150mm to 900mm, hence | Not agreed.The Bidding Document's provision shall prevail. |

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| | 2.4.1 c)/ 43 | | request you to kindly modify the referred clause as "Should demonstrate experience in manufacturing and production of D.I pipes of Diameter 100mm to 900mm class K9 as per IS 8329:2000 at least 5 years from date of issue of such license". | |
| 224. | General | MOC for Valves | As many of the reputed vendors prefer to offer ductile iron valves, we request to kindly allow the bidders to consider Ductile iron valves and we also request you to provide the relevant specifications for the same. | Not agreed.The Bidding Document's provision shall prevail. |
| 225. | Vol 1- Section-4 1.15.1.1 & 1.15.1.2/ 1.30.3 & 1.30.4/ 4-92 & 4-96, 4-110, 4-113 | Incoming Power Substation | As per the referred clauses 1.15.1.1 & 1.30.3, "36kV VCB Panel of Indoor Type" has been specified in the BOQ. Whereas, as per clauses 1.15.1.2 & 1.30.4, "36kV C&R Panel of Indoor Type" has also been specified in the BOQ. Hence the above clauses are contradicting each other. Kindly clarify whether bidder has to consider 33kV outdoor substation with C&R panel or only indoor 33kV VCB Panel located inside pump house. | Control and Relay panel shall be mounted in the VCB indoor panel and C&R panel is not an outer panel For changing capacity from 36 KV to 33 KV Pl Refer Addendum1 . |
| 226. | General | DG Selection | We understand that the Supply of DG set is not part of this contract. Kindly confirm. | There is no requirement of DG Set. However, if the bidder/contractor feels its requirement during operational service period, may take provision for the same in his proposals along with the cost which will not be considered in price evaluation |
| 227. | General | Motor Starter Selection | Selection and Rating of Motor Starter is not found in NIT. Hence Its presumed that 1. Motor Rating up to 3.7kW shall be considered | Refer Section-6, Page 239, Para 1467. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>with DOL Starter.</p> <p>2. Motor Rating up to & Including 90 kW shall be considered with Star-Delta Starter</p> <p>3. Motor rating beyond 90kW shall be considered with FCMA SS.</p> <p>Kindly confirm</p> | |
| 228. | Volume 1 Price Proposals; Part – A; Item no. 1.33.13/19/24/31/37/43 157-162/424 | Common Centralized controller for WTP | <p>In the referred clauses, it has been mentioned to provide individual PLCs in Settle water pumping, clarifier, filter, chemical, sludge handling, Chlorinator building & clear water pump house.</p> <p>We herein proposing for a Common controller for complete water treatment plant and for central monitoring system (at admin building) for remote monitoring of complete water distribution scheme.</p> <p>Kindly confirm.</p> | Common controller is not acceptable. The bidder shall provide individual PLCs for local control of the plant units and a centralised control center as per the contract specifications and BOQ items at section 4 item 1.33 (Automation and Equipment) Bidding forms (price) |
| 229. | Volume 1 & BWSP_ Drawings 6.3 SCADA; Item no.:127 & Alignment network of CW transmission mains 359/424, 165/424, & 15/20 | OHT details | <p>As per referred clause, it has been mentioned that there are 19 Service Reservoirs (both ground & elevated).</p> <p>But as per Tender drawings, total 23 OHTs are available (17 proposed + 6 existing).</p> <p>As per BOQ item no 1.33.64 & 4.7.7.6, PLC Panel and Electromagnetic Flow Meter quantities are given as 48 nos.</p> <p>These clauses are contradictory. Kindly clarify & confirm on the exact scope requirement and amend in the specification.</p> | Refer clarification given at SNo 46. It shall cover all existing (4 Nos) as well as newly built (19 Nos) reservoirs. |
| 230. | Volume 1 6.3 SCADA; Item no.:127 359/424 | BWS – Package I details for synchronization | As per referred clause, it has been mentioned to synchronize the proposed SCADA system with the BWS-Package I water supply system. But details on the same are not available. | The contractor shall design and provide the SCADA system as per the requirement. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>Kindly provide us the following details of BWS Package I Water supply system:</p> <ol style="list-style-type: none"> P&ID Instrument list with working condition details SLD Operation & Control Philosophy Existing system architecture & mode of communication. | <p>The contractor shall coordinate with the contractor for ongoing BWSP-01 Contract and accordingly design the system.</p> <p>Refer clarification given at SNo 156.</p> |
| 231. | General | Future 45 MLD WTP integration | <p>From tender document, it is clear that WTP with 90 MLD Capacity shall be established as per the proposed tender and 45 MLD plant shall be established in future.</p> <p>And it has been asked to establish a centralized SCADA system for remote monitoring of complete water supply system. But details on integration of 45 MLD Plant with central SCADA System, mode of communication establishment, additional provisions to be considered in the proposed system for integration etc. are not provided.</p> <p>Kindly clarify on the requirements, provide details on the same and amend in price proposals for further consideration.</p> | <p>Provisioning for integration of future additional unit for 45 MLD shall be there in SCADA. The SCADA system shall be with open protocol for future interfacing. The bidder has to propose the prices accordingly.</p> <p>Also refer Clause 127 of Section 6: Employer's Requirements.</p> <p>Refer clarification given at SNo 156.</p> |
| 232. | General- | Scope of Work | <p>From Tender Documents, We understand that Instrumentation & Automation scope of work is limited to the following:</p> <ol style="list-style-type: none"> Field Instrumentation & PLC based control system (with 175mm HMI) at raw water intake pump house Field Instrumentation & PLC based control system (with 175mm HMI) at Settled water | <p>The Instrumentation and Automation is not limited to as mentioned in the bidding documents. The contractor shall consider all the instrumentation and automation equipment required to integrate all the components, complete system and process requirements.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>pump house</p> <p>c. Field instrumentation & Automation in WTP – 90 MLD (Clarifier, Filter, Sludge, chemical house, chlorination & clear water pumping system)</p> <p>d. Flowmeters at inlet of service reservoir</p> <p>e. Provision for Integration of BWS package I system.</p> <p>Works in area other than above specified applications shall not be in our scope of supply. Kindly confirm.</p> | Refer clarification given at SNo 156. |
| 233. | Volume 1- Section 6; Clause 5.0 (iii) & 6.3 SCADA; Item no.:127 328/424 & 359/424 | OHT Operation details | <p>As per Section 6, clause 5.iii, it has been mentioned that the scope of work ends at inlet of service reservoir, whereas as per clause 6.3 SCADA Specification, it has been mentioned to control valve remote operation which shall be established in Central SCADA system.</p> <p>From the above referred clauses, we understand Electrically operated valves are already available in the inlet and outlet of the reservoirs. Kindly clarify and confirm.</p> | <p>The control and operation of the entire scheme and further interface to the SCADA system is under the scope of current contract. The proposed SCADA system will interface/protocol for master/central control for operations of facilities under the ongoing contract BWSP1-01.</p> <p>Also refer Clarification given at SNo 46. &156</p> <p>Electrically operated valves shall be provided. Refer Addendum 1</p> |
| 234. | Volume 1- Section 6, Clause 5, point 72 (Table 3) & Table 7.1, Point 4.2 325&326/424 & 377/424 | Analyzers for measuring water quality | <p>From specification, we presume that turbidity, pH, Chlorine shall be monitored online and the other water quality parameters like Residual Aluminium, Manganese, Iron, Sulphate, fluorides, nitrates, faecal coliforms, and colour shall be monitored in laboratory through collected water samples. Kindly confirm.</p> | Confirmed. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 235. | Volume 1 -6.3 SCADA; Item no.:127 359/424 | Existing Distribution system details | As per referred clause, it has been mentioned to connect all DMA flowmeters (Instrumentation signals) with the central monitor system (Central SCADA). But the details on same are not available. Kindly provide us the details of DMA (including quantity, no. of instruments, type of communication, related drawings / documents etc.) and distribution system details for our consideration. | Refer clarification given at SNo 120. The bidder shall design the system and accordingly consider the instruments and interface to the Central SCADA system.. |
| 236. | Volume 1- 6.3 SCADA; Item no.:127 359/424 | Historian system requirements | In the referred clause, it has been mentioned to consider a Historian / archive in central SCADA system for Database Management. Kindly provide us the details of the following for our necessary consideration: a. No. of months of history / archive b. No. of alarm / soft points to be considered | The contractor shall design the system and accordingly consider the number of alarm/soft points for the Central SCADA system. At least six months history / archive shall be considered. 1000 Number of alarm/soft points may be considered. |
| 237. | Volume 1 Technical specification Price proposal, Schedule 4, 4.6.2.5 & Price proposal, Schedule 2, 2.33.26 & Section 2, clause p, 580 5235/424 & 212/424 & 103/381 | No. of filter beds | As per referred clause, it has been mentioned that 12 filter beds are available. In clause 2.33.26, it has been mentioned that only 2 remote filter PLC consoles are to be provided. In Technical specification, it is specified that only 9 filters are available. Tender clauses are contradictory with each other. Kindly clarify & confirm on the exact requirement and details & amend in the price proposals. | 12 Nos of the filter beds to be provided under this contract. The bidder may propose PLC accordingly. Refer Addendum 1 . |
| 238. | Volume 1 Price Proposal, Schedule 4, Item 4.1/ 230/424 | Pinger Instrument Specification | In the referred clause, it has been specified to consider sufficient no. of Pinger Instruments to keep Dolphins away from the intake area. Kindly provide us the basic technical specification including the Acoustic frequency range, pinging | The Bidding Document's provision shall prevail. The contractor shall get it approved during detailed engineering/design. Refer clarification given at SNo 156. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | frequency and the area of coverage for estimating the quantity & for further consideration. | |
| 239. | Volume 1 & Technical Specification Section 6, Clause 5 (ii) & Section 2, clause p, 584 323/424 & 104/381 | Central Monitoring Unit location | As per referred clause, it has been mentioned to establish a Central Monitoring System / Unit in Administrative Building. But in technical specification, it has been specified to consider Central Monitoring / HMI in filter house building. Both clauses are contradictory. Kindly clarify & confirm on finalized location. | Provision given in Section 6 shall prevail. Refer Addendum 1 . |
| 240. | Volume 1 1.1.1/ 6-4 | Scope of Work | As per referred clause 1.1.1, It is mentioned about rehabilitation of existing 3 no's WTP under package BWSP1. As per our understanding WTP rehabilitation work under BWSP1 is not in scope of this tender. Kindly confirm | Confirmed. |
| 241. | Vol I, Vol II, Vol I Table 3, Table 35 71/6-21, 91/6-21 | Treated Water Quality | As per referred table 3," Turbidity of the effluent of the Clarifier unit: Not more than ≤ 10 NTU & Suspended solids in the effluent of the Clarifier: Not more than 2 mg/l." As per table 35, "Turbidity of the effluent of the Clarifier unit: Not more than ≤ 10 NTU & Suspended solids in the effluent of the Clarifier: Not more than 5 mg/l." As per referred clause 71, "The turbidity of minimum 300 NTU shall have to adopt for design purpose of WTP with ratio of 2 for calculating suspended solids." Since mentioned TSS to turbidity ratio is not | The outlet parameter values for clarifier shall be as per CPHEEO manual. The removal efficiency of existing pre-settling tank shall be calculated and accordingly the suspended solids load at inlet of WTP shall be considered. The raw water turbidity shall be 300 NTU for design purpose with ratio of 2 (Turbidity to suspended solids) for calculating the suspended solids. For correction in Table 35 and Table 3, Pl refer Addendum 1 |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>appropriate, We presume that Clarifier outlet parameter values shall be considered as follows. Turbidity of the effluent of the Clarifier unit: Not more than ≤ 15 NTU & Suspended solids in the effluent of the Clarifier: Not more than 30 mg/l. Kindly confirm.</p> | |
| 242. | Vol I, Vol I, Vol I, Vol II, Vol I 65, 66(a), 67 (a-ii), 524, 122 / 6-18, 6-18, 6-19, 90/6-51 | Scope of Work | <p>As per referred clause 65, "The water supply system is proposed to be implemented for water demand for year 2047 except WTP, which is to be designed for intermediate requirement of 2032. However requirement of ultimate stage for WTP has to be designed and the components have to be proposed for implementing in II stage."</p> <p>As per referred clause 66(a), "90 MLD Capacity WTP (Treated water capacity), Clear Water Pumping Stations, Clear Water Reservoir and allied works. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement."</p> <p>As per referred clause 67 (a-ii), "90 MLD (with provision for future extension of some units to 135 MLD)."</p> <p>As per referred clause 524,"Pre Settling Tank, aerator, channel upto flash mixer to be designed for ultimate phase."</p> <p>As per referred clause 122, following process units like aeration, inlet channel, pre chlorination, chemical dosing, backwash water tank etc., is mentioned to design for ultimate year 2047.</p> <p>We understand WTP of 135 MLD output capacity shall be considered for aeration, inlet channel, chlorine building, chemical house & backwash</p> | <p>Confirmed.</p> <p>Also refer clarification given at SNo 75.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | overhead tank. Process units like flash mixer, Clariflocculator, Filter House, Chlorine contact tank & Sludge treatment units shall be considered for 90 MLD with space provision in layout plot shall be considered for future expansion. Kindly confirm. | |
| 243. | Vol I Table 3/ 6-21 to 6-22 | Treated Water Quality | As per referred table 3, Treated water parameters has mentioned as- "pH 7-8.5 , Total Iron as Fe mg/l : ≤ 0.1 , Manganese as Mn mg/l : ≤ 0.05 " Since treated water quality for drinking purpose shall meet IS 10500. We presume that bidder to consider water quality parameters values as per IS 10500 as mentioned below. Kindly confirm. "pH 6.5-8.5 , Total Iron as Fe mg/l : ≤ 0.3 , Manganese as Mn mg/l : ≤ 0.1 " | Not agreed. The Bidding Document's provision shall prevail |
| 244. | Vol I, Vol II 7.5(a-ii), 541/ 6-23, 94 | Sedimentation Tank | As per referred clause 7.5 (a-ii), "It is mentioned about improvement of existing sedimentation tank." As per referred clause 541, "Existing Presetting tank shall be used during high turbidity period." We understand that existing Pre settling tank shall be utilize when raw water turbidity is high & turbidity in WTP inlet shall be maximum 500 ppm. Kindly confirm. | The Bidding Document's provision shall prevail.- Refer Addendum 1 . |
| 245. | General | Sludge treatment | Kindly confirm the TSS value to be consider to design the sludge treatment system. | TSS value of 300 mg/l may be considered for designing the sludge treatment system. Refer Addendum 1 . |
| 246. | General | Filter Bed | We understand filter bed shall be open to sky. | The Filter Beds shall be covered by |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | Kindly confirm. | roof. Refer Clause 614 of Technical Specification. |
| 247. | General | Price Bid Quantity | Kindly confirm whether WTP equipment's quantity/sizes as mentioned in Price schedule (Section 4) are minimum requirement. | Confirmed. Refer clarification given at SNo 156 and 186. |
| 248. | General | Drawings | We presume that quantity/sizes of WTP process units & Hydraulic levels of WTP as mentioned in tender drawings are indicative only & bidder is free to choose same as per bidders design. Kindly confirm. | Confirmed. Refer clarification given at SNo 156 and 186. |
| 249. | Vol I, Vol I, Vol I Table 7.1/68, 4.1.4 6-73, 6-20, 8-27 | WTP Inlet Capacity | <p>As per referred table 7.1, "Quantity of water to be produced and conveyed to WTP per day 95 MLD. Allowable quantity 90 MLD. Maximum Water losses shall be 6%."</p> <p>As per referred clause 68, "The overall plant water loss (net) from the system shall be kept to the minimum and not exceeding 5% of output (considering recovery and recycle scheme)."</p> <p>As per referred clause 4.1.4, "The total wastage of water in particular month shall not exceed 6% (Including losses in raw water main, Water treatment plant (4%) and Transmission mains (2%)).If the total wastage exceeds more than the specified, then price shall be adjusted as specified by the given formula."</p> <p>Since all the clause are unlike we presume that WTP inlet capacity to be considered as 95 MLD. WTP output capacity shall be 90 MLD & losses in the WTP shall not more than 5%. Kindly confirm.</p> | Refer clarification given at SNo 135. Refer Addendum 1 . |

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| 250. | Vol I Drawing No- BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH ASE II/WTP/11 122 /6-51 | Aeration System | As per referred tender layout, Aerator for WTP is not shown. As per referred clause 122, It is mentioned to consider aeration for ultimate stage requirement. Since both the clauses are unlike Kindly confirm whether cascade aerator to be consider for WTP or not. | It is not the obligatory requirement. However if the bidder/contractor proposes for this as per designs, the Employer will consider the same. |
| 251. | Vol II Drawing No- BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH ASE II/WTP/14 740/126 | Dirty backwash holding tank | As per referred HFD, Dirty backwash water from Filter is shown as drain. As per referred clause 740, it is mentioned to discharge Dirty backwash water from dirty backwash holding tank to river and also it is mentioned to recycle back to WTP inlet. Since both the clauses are unlike we presume that dirty backwash water from filter backwash holding tank shall be recycled back to inlet of WTP only without discharging in river which considering environmental concerns. Kindly confirm. | Confirmed. Refer Addendum 1 . |
| 252. | Vol I, Vol II Drawing No- BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH ASE II/WTP/14 2.3.3(6), 581 8-24/101 | Filter Bed | As per referred tender HFD, It is shown filter house with 6 no's filter bed. As per referred clause 2.3.3(6) of payment schedule, It is written to consider 12 no's filter bed. As per referred clause 581, "About 9 no's of filter units shall be provided." Since all the clauses are unlike, Kindly confirm the no's of twin bed filters to be considered. | Refer clarification given at SNo 238. |
| 253. | Vol II Drawing No- BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH | Flocculator & Plate Settler | As per referred tender HFD, It is shown flocculator & plate settler-2 no's. As per referred tender layout, it is mentioned 4 no's | 4 numbers of flocculators and 2 nos of plate settlers shall be considered. |

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| | ASE II/WTP/14 Drawing No- BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH ASE II/WTP/11 577/101 | | flocculator& 2 no's plate settler. As per referred clause 577, 4 no's of IPS for intermediate stage to be considered. Since all the clauses are unlike, Kindly confirm the no's of flocculator& plate settler to be considered. | Refer Addendum 1 . |
| 254. | Vol II Drawing No- BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH ASE II/WTP/11 563/ 98 | Flash Mixer | As per referred clause 563, "Flash mixer shall be considered 4 for intermediate stage & 2 additional for ultimate stage." As per referred layout 2 no's of flash mixer is given. Since both the clauses are unlike, Kindly confirm the no's of flash mixer to be considered. | Flash mixers shall be - 4 numbers for intermediate stage and additional 2 numbers for ultimate stage. Refer Addendum 1 . |
| 255. | Vol II 534(viii), 524/ 92, 90 | Clarifier | As per referred clause 534(viii), "Bypass arrangement shall be provided to bypass filter and Clariflocculator." As per referred clause 524, IPS is written as clarifier. Since both the clauses are unlike, Kindly confirm the type of clarifier to be considered. | The type of clarifier shall be plate settler only. Refer Addendum 1 . |
| 256. | Vol II 575, 524/ 99, 90 | Flocculator | As per referred clause 575 for flocculator, It is mentioned as 4 units for intermediate stage and additional 2 units for ultimate stage. As per referred clause 524, flocculator shall be considered for intermediate stage flow only. As per our understanding 4 no's of flocculator to be constructed for intermediate stage & space provision in layout for 2 additional flocculator shall be considered for ultimate stage flow. Kindly confirm. | 4 numbers of flocculators for immediate stage and space for 2 flocculators for ultimate stage shall be considered. Refer Clause 524 of Technical Specification. Refer Addendum 1 . |
| 257. | Vol II 581, 609, 101, 105 | Filter gallery | As per referred clause 581, "The gallery shall have a minimum width of 10.0 meter" As per referred clause 609, "The gallery shall have a | Agreed. Gallery width of 7 meter is adequate. Refer Addendum 1 . |

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| | | | <p>minimum width of 7 meter”</p> <p>Since both the clauses are unlike, We presume that gallery with shall be minimum 7 meter. Kindly confirm.</p> | |
| 258. | Vol II 641/Table 40/ 109-110 | Blower RPM | <p>As per referred clause 641, “The speed of the blowers shall not exceed 1000 rpm.”</p> <p>As per referred table 40 for Blower, “Speed of Compressor/Blower < 750 rpm.”</p> <p>Since the clauses are unlike, We presume that twin lobe blower with RPM < 1500 shall be considered for filter air scouring. Kindly confirm.</p> | <p>The speed of the blowers shall not exceed 1000 rpm.</p> <p>Refer Addendum 1.</p> |
| 259. | Vol II 697,701,712,712/ 119,120,122,123 | Chlorination System | <p>As per referred clause 697, “A chlorine dose of max 3 mg/l for pre chlorination and max 3 mg/l for post chlorination shall be provided.”</p> <p>As per referred clause 701, “Separate arrangements shall have to be made to accommodate 30 days requirement of chlorine for pre chlorination of maximum 3 mg/l and a post-chlorination of max 3 mg/l together. The storage area shall have minimum area of 550 m2 to accommodate 30 tonners.”</p> <p>As per referred clause 712, “Two numbers (1W + 1S) vacuum type chlorinators of 12 kg/h each shall be provided for pre-chlorination at Intermediate stage. Similarly 2 numbers (1W + 1S) Chlorinators of 12 kg/h each shall also be provided for post-chlorination at intermediate stage.”</p> <p>As per referred clause 712, It is mentioned average prechlorination-2 ppm, post chlorination-1 ppm, Tonner total-30 no's for ultimate stage flow.</p> | <p>Refer Addendum 1.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>Since above clauses are unlike, kindly confirm the</p> <ol style="list-style-type: none"> 1. Chlorinator dosage ppm. 2. Chlorinator capacity. 3. Area required to accommodate the <p>chlorine tonners and</p> <ol style="list-style-type: none"> 4. No. of days to be considered for storage. | |
| 260. | Vol II 670/Table 43/115-119 | Alum dosing | <p>As per referred clause 670, It is written to consider 5% solution strength for alum.</p> <p>As per referred table 43, 10% solution strength for alum shall be considered.</p> <p>Since both the clauses are unlike, We presume that 10% solution strength for alum shall be considered. Kindly confirm.</p> | <p>It shall be as per Clause 670 that is 5 % solution strength</p> <p>Refer Addendum 1.</p> |
| 261. | Vol II 662, 667/ 112, 115 | Chemical dosing | <p>As per referred clause 662, Chemical Solution Pump and Dosing Room in chemical house to be considered.</p> <p>As per referred clause 667, "The alum dosing shall be made by gravity dosing."</p> <p>Since the clauses are unlike, Kindly confirm the dosing is by gravity or pumping for alum, lime & poly.</p> | <p>Gravity dosing will be preferred by providing chemical dosing system on the first floor of the building.</p> <p>Pumping will be required if it is provided in the ground floor. It depend on the layout of the design.</p> <p>Hence both the provisions are mentioned in the specification.</p> |
| 262. | Vol II 740, 741/ 126, 127 | Dirty backwash holding /Sludge Buffer Tank | <p>As per referred clause 740, approx. capacity of dirty backwash holding tank shall be considered as 450 m3.</p> <p>As per referred clause 741, approx. capacity of sludge buffer tank shall be considered as 450 m3.</p> <p>We presume that, mentioned capacities are tentative</p> | <p>Confirmed.</p> <p>Refer clarification given at SNo 156.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | bidder can choose the capacities as per the design. Kindly confirm. | |
| 263. | Vol II 553/97 | Parshall Flume design | As per referred clause 553, "The flume shall be designed according to the IS 6063 amended up to date." Kindly allow the bidder to design Parshall flume as per IS 14371 amended up to date. | The Bidding Document's provision shall prevail. |
| 264. | Vol II 563/98 | Flash Mixer | As per referred clause 563 for flash mixer agitator, "Mixing Energy (G value): At least 500 to 800 s ⁻¹ ." Since the mentioned velocity gradient appearing very higher side, We presume that bidder to consider G value as 300-450 s ⁻¹ . Kindly confirm. | The Bidding Document's provision shall prevail |
| 265. | Vol II 525/90 | WTP Plot Area | As per referred clause 525, "The land available for the WTP campus for Bhagalpur WTP is about 2.5 ha." The available plot area of 2.5 hectare for 90 MLD intermediate demand plus space for additional 45 MLD for ultimate demand is not sufficient. We presume that bidder can consider area of minimum 3.5 hectare for WTP Plot. Kindly confirm. Also provide the WTP contour survey in CAD format. | With the plate settlers, 90 MLD WTP can be accommodated in 2.5 ha land. Including proposed expansion of the additional 45 MLD capacity. |
| 266. | Vol II Vol I 528/91 110/6-44 | WTP Operating Hours | As per referred clause 528, "Plant shall be designed to give desired output in each Stage per day working on 24-hour basis." As per referred clause 110, "The work shall comprise the provision of abstraction, conveyance & treatment process for 90MLD/135 MLD (output of WTP) raw water abstractions in 23 hours, for Intermediate stage & ultimate stage respectively." | Working hours shall be 23 hrs. Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | Since both the clauses are unlike, Kindly confirm the exact WTP working hour to be considered for the design. | |
| 267. | Vol II Table 39/ 106 | Filter Media depth | As per referred table the filter media depth of sand and graded gravel is provided as at least 750mm and at least 500m. The considered values are the maximum values. Kindly allow the bidder to consider the media depths as per the ranges of CPHEEO manual instead of the maximum values. Please confirm. | Not agreed. The Bidding Document's provision shall prevail.. |
| 268. | Vol II & Price proposals 639 & 2.35.4 109 | Blower quantity | As per referred clause 639,"Three blowers shall installed, one duty, two standbys in a filter house." Whereas in the price schedule 2.35.4 it is mentioned as 2nos. Both the quantities are controversy. Allow the bidder to consider blower configuration as (1W+1S). Kindly confirm. | Confirmed. Refer Addendum 1 . |
| 269. | Vol II 577/ 100 | Lamella plates MOC | As per referred clause 577, "Material of the plate shall stainless steel (SS 304) or materials suitable for service required and approved by the Employer". We request you to consider the material of the plate shall be UPVC/FRP. Kindly confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 270. | Vol II 637/ 108 | Back wash pump | As per the referred clause 637, "The Contractor shall provide vertical turbine pumps (1W+1S)". We request you to consider the horizontal centrifugal pump instead of vertical turbine pump. Kindly confirm. | Confirmed. Refer Addendum 1 . |
| 271. | Vol II | Pipes and valves in Chemical | As per the referred clause 674, "The entire piping and the fittings shall be in SS 316 Sch 80 rating or of | The Bidding Document's provisions allows for the same. The Bidding |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | 674 & 677/ 116 | dosing plant | <p>material suitable for the respective service, of suitable diameter”.</p> <p>As per the referred clause 677, “The solution pipes to the injection point in the inlet chamber shall be of SS 316 Sch 80 or of material suitable for the</p> <p>respective service, of suitable diameter.</p> <p>We request you to allow the bidder to consider the piping and fittings in UPVC/HDPE of suitable diameter. Kindly confirm.</p> | Document’s provision shall prevail. |
| 272. | Vol II, Vol II, Vol I 524 /90 541/ 94 177/ 6-48 | Pre- Sedimentation Tank | <p>As per the referred clause 524, “The present scope includes the construction for the intermediate requirement work and provision for the Ultimate requirement work. However units such as Pre-Sedimentation Tank, cascade aerator, Parshall flume and channel up to flash mixer and clear water pumping station shall be designed for total flow of Intermediate and ultimate requirement”.</p> <p>As per referred clause 541, “Existing Presetting tank shall be used during high turbidity period.”</p> <p>As per the referred clause 177,” The primary settling tank is located at WTP near Barari water works at about 2500 m from proposed intake and will be operated especially during monsoon period when the turbidity of water is high. When water contains low turbidity, the PST will be by passed and water will be directly pumped to Sedimentation Tank of WTP.</p> <ol style="list-style-type: none"> 1. The terminology used as primary settling tank and pre-sedimentation tank, both are same or different units. Kindly confirm. 2. Also existing pre-settling tank shall be upgraded | <p>Existing pre-settling tank shall be used during high turbidity. (Refer Clause 541).</p> <p>Pre-settling tank can be bypassed during low turbidity.</p> <p>Primary settling tank is not required since existing pre-settling tanks to be used.</p> <ol style="list-style-type: none"> 1. Both The primary settling tank and pre sedimentation tank are same. 2. Confirmed. The existing pre-settling tank shall be upgraded and utilized |

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| | | | and utilized, there is no scope of pre-sedimentation tank in the proposed system. Kindly confirm. | |
| 273. | Section 8: Particular Conditions of Contract; Schedule 5 -Contractor's Payments 8-23 to 8-27 | Payment Terms | We understand that the payment terms given in the tender document is indicative only and shall be finalized on mutual agreement between contractor and Employer after award of contract. Kindly confirm. | Please refer clarification given at SNo 97. |
| 274. | Vol II 532/ 92 | Water Quality | In the referred clause, in treated water quality, it is mentioned "if, at any time during O&M period, any of the quality and process parameters cannot be reached, the Contractor shall at his expenses carry out all necessary modifications to the civil structures, mechanical, hydraulic, electrical and other components of the plant, or modify the operation procedures and alter the chemicals/ Chemical dosing parameters in order to achieve the required performance of the plant". Since required WTP for this tender is conventional type, surface water is as a source, We presume that water quality shall be considered for parameters like iron, colour, pH, turbidity, Taste and Odour, Total suspended solids, & total Coliform only. Other parameters in the water will pass through the treatment plant. Kindly confirm. | Confirmed. Refer Addendum 1 . |
| 275. | Tech Specification Sub Section 6.4 H. 2215/ 367 | Replacing pump Impellers and Bearings | In the referred clause it is mentioned as " <i>shall have their impellers (or bowls), mechanical seals and their bearings replaced near the end of the 5th year of the O&M Period</i> ". We would like to bring to your kind notice that the pump parts shall be replaced as | No separate/additional payment shall be made for such items of repair and maintenance during operation service period. The bidder has to make its own assessment for the cost |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | and when required and suggested by the manufacturer and the payment for the same shall be paid by the employer. Kindly consider and confirm. | of such replacements needed from time to time and load the prices in operation service component. |
| 276. | General | Replacements during Operation & Maintenance Period | We understand that during operation & Maintenance period, any repairs/replacements which needs to be done for proper functioning of the system shall be done by contractor and payment for the same shall be made by Employer at actuals. Kindly confirm. | Please refer clarification given at SNo 276. |
| 277. | Section 8; Particular Conditions of Contract; Schedule 5 - Contractor's Payments 8-23 to 8-27 | Payment Terms | From the referred clause, the payment terms given for Raw water main & Clear water main works is found to be very stringent. Kindly change and amend as follows: 1 Supply of pipes - 95% 2 Laying and jointing - 3% 3 Testing - 1% 4 Commissioning - 1% | Not agreed. The Bidding Document's provision shall prevail. |
| 278. | Section 8; Particular Conditions of Contract; Schedule 5 - Contractor's Payments 8-23 to 8-27 | Payment Terms | From the referred clause, the payment terms given for Water Treatment works is found to be very stringent. Hence, request you to kindly change the payment terms and amend as follows: 1. Up to basement - 30% 2. Up to super structure - 20% 3. On completion entire structure - 40% 4. On completion other amenities such as Electrification, Sanitation, pipe connection etc whichever is applicable - 5% 5. On commissioning - 5% | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses | | | | | | | | | |
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| | | | Kindly consider and issue necessary amendments. | | | | | | | | | | |
| 279. | Section 8; Particular Conditions of Contract; Schedule 5 - Contractor's Payments 8-23 to 8-27 | Payment Terms | From the referred clause, the payment terms given for Electro Mechanical items and Automation Equipment is found to be very stringent. Hence, request you to kindly change the payment terms and amend as follows: 1 Supply - 95% 2 On completion of Installation - 3% 3 On completion of Testing – 1% 4 On completion Commissioning – 1% | Not agreed. The Bidding Document's provision shall prevail. | | | | | | | | | |
| 280. | Section 8; Particular Conditions of Contract; Schedule 5 - Contractor's Payments 8-23 to 8-27 | Payment Terms | From the referred clause, the payment terms given for Intake well is found to be very stringent. Hence, request you to kindly change the payment terms and amend as follows: <table border="1"> <thead> <tr> <th>Description</th> <th>Part Payment</th> <th>Final Payment</th> </tr> </thead> <tbody> <tr> <td>On completion of each 1 m well sinking</td> <td>4.95%</td> <td>99%</td> </tr> <tr> <td>On commissioning</td> <td>1%</td> <td>1%</td> </tr> </tbody> </table> Kindly consider and confirm. | Description | Part Payment | Final Payment | On completion of each 1 m well sinking | 4.95% | 99% | On commissioning | 1% | 1% | Not agreed. The Bidding Document's provision shall prevail. |
| Description | Part Payment | Final Payment | | | | | | | | | | | |
| On completion of each 1 m well sinking | 4.95% | 99% | | | | | | | | | | | |
| On commissioning | 1% | 1% | | | | | | | | | | | |
| 281. | | 2.4.1 Contracts of Similar Size and Nature. 1. Participation in at least one contract that has been successfully or substantially completed within the last Seven(7) years and that is similar to the proposed works, where the value of the Bidder's participation exceeds INR | 1. Participation in at least one contract that has been successfully or substantially completed within the last Seven (7) years and that is similar to the proposed works, where the value of the Bidder's participation exceeds <i>INR 1300 million</i> or equivalent USD The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity, methods, technology or other | Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 4. | | | | | | | | | |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | <p>2029million or equivalent USD</p> <p>The similarity of the Bidder's participation shall be based on the physical size, nature of works,</p> <p>complexity, methods, technology or other characteristics as described in Section 6, Employer's Requirements.</p> | <p>characteristics as described in Section 6, Employer's Requirements.</p> | |
| 282. | | <p>2.4.2 Construction Experience in Key Activities*</p> <p>2. Design, Construction and Commissioning of Intake well of minimum 45 MLD capacity for Municipal Drinking Water application with minimum one year Operation and maintenance experience (beyond defect liability period) within the last seven years. (This criterion should be met by the main bidder itself)</p> | <p>2.) Design, Construction and Commissioning of Intake well of minimum 45 MLD capacity for Municipal Drinking Water application with minimum one year Operation and maintenance experience (<i>including</i> defect liability period) within the last seven years.</p> <p>(This criterion should be met by the main bidder itself <i>or the specialized sub-contractor</i>)</p> | <p>Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 5.</p> |
| 283. | | <p>4. Design, Construction and Commissioning of one Clear Water Reservoir of minimum 7.0 ML capacity within the last seven years. (This criteria should be met by the main bidder itself .)</p> | <p>4. Design, Construction and Commissioning of one Clear Water Reservoir of minimum 7.0 ML capacity within the last seven years.</p> <p>(This criteria should be met by the main bidder itself <i>or the specialized sub-contractor</i>)</p> | <p>Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 6.</p> |
| 284. | | <p>5. Design, supply and erection of VT pump with HT motor of minimum discharging capacity1000 m3/hr within the last</p> | <p>5 Design, supply and erection of VT pump with HT motor of minimum discharging capacity1000 m3/hr within the last seven years. (This criteria should be met by the main bidder itself</p> | <p>Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 5.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | seven years. (This criteria should be met by the main bidder itself) | or <u><i>the specialized sub-contractor</i></u>) | |
| 285. | | 6. Providing, laying, jointing and commissioning of water main of various sizes/lengths as under within the last seven years: Diameter 400mm and above – 10,000m. (This criteria can be met by the main bidder itself or the specialized sub-contractor) | 6 Providing, laying, jointing and commissioning of water main of various sizes/lengths as under within the last seven years: Diameter 400mm and above – 10,000m. <u><i>(This criteria can be met by the main bidder itself)</i></u> | Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 5. |
| 286. | | 7. Design, Construction and Commissioning of Water Treatment Plant of minimum output capacity 45 MLD having inclined Plate Settler/Tube settler and PLC including SCADA with minimum one year of operation and maintenance experience (beyond defect liability period) within the last seven years. (This criteria can be met by the main bidder itself) | 7. Design, Construction and Commissioning of Water Treatment Plant of minimum output capacity 45 MLD having inclined Plate Settler/Tube settler and PLC including SCADA with minimum one year of operation and maintenance experience (beyond defect liability period) within the last seven years. (This criteria can be met by the main bidder itself or <u><i>the specialized sub-contractor</i></u>) | Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 5. |
| 287. | | 8. Successfully carried out the Operation and Maintenance of a Water Supply Project having intake, water treatment plant and water pipe lines for at least 3 years (beyond defect liability period) in | 8. Successfully carried out the Operation and Maintenance of a Water Supply Project having intake, water treatment plant and water pipe lines for at least <u><i>1 year (including</i></u> defect liability period) in the last seven years) | Not agreed. The Bidding Document's provision shall prevail. Also refer clarification given at SNo 5. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | the last seven years. (This criteria can be met by the main bidder itself or the specialized sub-contractor) | (This criteria can be met by the main bidder itself or the specialized sub-contractor) | |
| 288. | 2. Vol 1. Part A: Design- Build Components 4.6.1.2/ 4-199 | Connection of existing sedimentation tank to settle water sump | Based on site visit, we understand that settled water sump of capacity 1200 KL shall be constructed adjacent to existing sedimentation tank. Kindly provide the connection details (either by channel or pipe) to be considered for connection from sedimentation tank to settled water sump. In addition to this, we presume that connecting arrangement and settled water sump and pump house is designed for ultimate year (year-2047) demand. Kindly confirm. | This is the scope of the contractor based on the site condition. Connecting arrangement, settled water sump and pump house has to be designed for ultimate year 2047 demand. |
| 289. | 2. Vol 1. Part A: Design- Build Components | WTP Site | During Site visit, we observed that land available is of 2.5 hectare only as against the requirement of 3.5 Hectare which is the minimum area required for construction of 135 MLD WTP (90MLD present + 45MLD future).So we request you to provide exact plot plan including layout of proposed WTP boundary area which will act as common basis to all the bidders. Kindly provide. | The details are available in the drawings. Also refer reply of S.No 266 |
| 290. | Section 4 Bidding Forms (Price) 4-84 to 4-268 | Valves | From the given Bill of Quantities, we understand that the bidder has to provide CI valves in Raw water Pump house and DI valves elsewhere. We request to kindly allow bidders to choose DI valves in Raw water pump house as most of the vendors supply DI valves as it is superior to CI and can take higher surge compared to CI. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 291. | V-1 Bidding Document, Section 6, 80/6-25 | Approach | From the referred clause, we understand that the construction of approach to the intake well is in | Pl refer schedule 4.5 of section 4 where in road provision is available |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | bidder's scope whereas there is no provision for Same in the BOQ. Hence, we request you to include the same (along with the length) in the BOQ and issue necessary amendments. | in the BOQ. Refer clarification for S.No 160 |
| 292. | V-1 Bidding Document, Section 4 & V-2 Technical Specification, Sub-Section 6.1 4.2/945, 4-196/164 | Bank Protection works at Intake | We observe that the Specifications for bank protection works at intake location as per Clause: 4.2 of Vol-1&Clause: 945 of Vol-2 are different. Kindly clarify the specifications for Bank protection works that the bidder needs to consider. | BoQ specification has to be followed. For change in Technical specification Pl Refer Addendum 1. |
| 293. | Drawing Drawing no:14/ 14 | River Bank protection | In the referred tender drawing, we observed that "Concrete block of 1000mm x 1000mm x 300mm is to be provided for WTP bank protection". We presume that this would be a typographical error and the bidder needs to consider stone pitching with lean concrete filling. Kindly clarify and confirm. | Not agreed. The Bidding Document's provision shall prevail. The concrete blocks shall be provided randomly to increase the weight. |
| 294. | General | FGL for Proposed WTP | As per site visit, we observed that natural ground level of the proposed WTP area is in the sloped terrain. Kindly clarify whether the bidder can propose WTP structures as per the available NGL or the bidder has to fill the area and maintain same floor level for all the structures. Please confirm. | The bidder/contractor has to design the structures considering the NGL available keeping in mind the hydraulics such as that there are minimal head-loss and power requirement in various units so as to economise the design. |
| 295. | Section 8 Particular Conditions of Contract 14.2/ 8-4 | Advance Payment | In the referred clause it is mentioned as "The advance payment taken by contractor is to be deposited in a separate dedicated Project Bank Account to be opened and maintained at Bhagalpur". We request you to kindly remove the clause and as it is not a general practice. Kindly consider and confirm. | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 296. | Section 3 –Evaluation and Qualification Criteria 2.4.2/ 3-12 | Construction Experience in Key Activities | The qualification requirement in Sl. No 1, 7 and 8 of the referred clause request to consider the experience in the key activities inclusive of Defect Liability Period. Kindly consider and confirm. | Agreed. Refer Addendum 1 |
| 297. | General | Commissioning | We request you to consider the sectional commissioning of each component as per the milestone. Kindly consider and confirm. | Sectional testing of each section is admissible but the sectional commissioning shall be of no use to the Employer. Thus request not agreed. The Bidding Document's provision shall prevail. |
| 298. | Section 8 - Particular Conditions of Contract Schedule 5 – Contractor's payments 8-23 to 8-27 | Payment terms | We understand that the payment terms given for Schedule No 7 and 8 are for Supply items only and for the remaining items given in the schedules shall be paid as per the quoted rates based on the progress of work. Kindly confirm. | Yes. Confirmed. Refer Addendum 1 . |
| 299. | Section 8 - Particular Conditions of Contract Schedule 5 – Contractor's payments 8-23 to 8-27 | Payment terms Schedule 4 | We understand that payment terms given for Schedule No 4 for the items 4.1 to 4.6.1 of Price Schedule and for the other items given in the schedule shall be paid as per the quoted rates based on the progress of work. Kindly confirm. | Refer Addendum 1 . |
| 300. | NIT_ Volume 1 Price Proposals; Part – A; Schedule No.2. item no. 2.33.64/ 4-182 | Plc panels at OHT's | In the referred BOQ Item, bidder has to provide "PLC Panel with required hardware & software - 48 Lots" at service reservoirs (Distribution system). We presume that the required rooms for installation of PLC panels are already available adjacent to the service reservoirs. If not, kindly request you to include the same in the price schedule. | Refer Addendum 1 . |
| 301. | Section 4 Bidding Forms (Price) Schedule 8 | Specials | In the referred BoQ items, it is mentioned as "Ductile Iron K - 12 specials suitable for push on jointing and Laying in position S&S or flanged C.I. | Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | 8.14.1 & 8.14.2/ 4-236 | | special". We understand that the mention of flanged CI special is a typographical error and request to amend the same as DI special. | |
| 302. | Section:6 Technical Specification Clause 25 & 32/P 4 | Technical Specification of CSD units: Dredging Equipment | We understand that the list of equipments and the duration of dredging works provided in the referred clauses are indicative only and the contractor is free to select suitable equipment/methodology and duration for dredging work to ensure the availability of raw water in the approach channel, without altering the intended output of the project. | Confirmed. But the contractor shall adopt suitable equipment/methodology as per approval of Employer. |
| 303. | Queries Based on Site Visit, During our official Site visit we have understood in Package -1 out of 19 reservoirs so far only in 7 reservoir, work is in progress and remaining 12 nos not yet Started. As package 2 in interlinked with Package 1 once Package 1 gets commissioned only Package 2 gets commissioned | The Major scope of the Package-1 is as follows 1. Rehabilitation of 3 existing water treatment plant, 2. Construction of new overhead storage tanks - 19Nos & Rehabilitation of 4 Existing Storage tanks 3. Construction of 33KV sub stations, 4. Construction of distribution pipelines and providing all authorized connections with water meters, as well as the operation, maintenance and management of the entire water supply system | During our official Site visit we have understood in Package -1 out of 19 reservoirs so far only in 7 reservoir, work is in progress and remaining 12 nos not yet Started. As package 2 in interlinked with Package 1 once Package 1 gets commissioned only Package 2 gets commissioned. As we can complete the sectional testing in package2, trail run 3 months which is not possible as the storage system may not be ready for to store the water when package-1 components not get completed. In our RA bills Retention 5% shall be retained and will be released after DLP Period and final 12 % on commissioning which is not viable unless Package-1 completed. So about 27% of the bill value shall be retained including PBG even if we complete our scope. As we are eager to bid the Project with minimum margin we have incurred a heavy cash flow burden during execution | . |
| | | | In this Scenario we request from your end the following to be confirmed from your end | |
| | | | 1. Permission for to lay the Clear water Pipe till the inlet flow chamber of each Reservoir even though | Clear water pipelines shall be laid in confirmation from the Employer |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | <p>distribution system & reservoir of package-1 not completed and any damage caused during Distribution Pipe laying after our clear water Pipeline has to be compensated by you</p> <p>2. Once the Pipe Laid if the water reached up to the inlet chamber during flushing 100% Payment shall be released.</p> <p>3. Encroachment in Intake, jack well, raw water & clear water area to be cleared by your end when you handed over the site.</p> <p>4. Similarly for intake, Approach channel, Jack well, connecting Pipe, up gradation of Sedimentation tank, WTP works . 100% Payment shall be released on completion of testing.</p> | <p>about the Reservoir sites. The damage done by the contractor for BWSP-01 during the distribution pipeline laying to the pipelines laid under this contract (BWSP-02) shall be rectified by the contractor of BWSP -01.</p> <p>However if the contractor for BWSP-02 damages any structure of BWSP-01, the contractor for BWSP-02 shall rectify the same at its own cost.</p> <p>Not agreed. The Bidding Document's provision shall prevail.</p> <p>The encroachment-free site shall be handed over to the Contractor.</p> <p>The Bidding Document's provision shall prevail.</p> |
| 304. | Payment Terms | | <p>We are proposing the genuine, following Payment terms.</p> <p>Kindly consider our genuine request of change for Payment terms due to delay in commissioning because of if any expected Package-1 completion delay</p> <p>2.1.1 Electro Mechanical Items</p> | <p>Not agreed. The Bidding Document's provision shall prevail.</p> |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | 1. Supply 75% | |
| | | | 2 On completion of Installation 15% | |
| | | | 3 On completion of Testing 10% | |
| | | | 2.1.2 Automation Equipment | |
| | | | 1 Supply 75% | |
| | | | 2 On completion of Installation 15% | |
| | | | 3 On completion of Testing 10% | |
| | | | 2.2.1 Electro Mechanical Items | |
| | | | 1 Supply 75% | |
| | | | 2 On completion of Installation 15% | |
| | | | 3 On completion of Testing 10% | |
| | | | 2.2.2 Automation Equipment | |
| | | | 1 Supply 75% | |
| | | | 2 On completion of Installation 15% | |
| | | | 3 On completion of Testing 10% | |
| | | | Final completion AS Built Drawings 10% | |
| | | | 2.4.1 Approach Channel | |
| | | | 1 For every 2500 cubic metre earth work 64% | |
| | | | 2 on completion Bank protection for every 10m 8% 24% | |
| | | | 3 After commission and final 12% 12% | |
| | | | 2.4.2 Intake well | |
| | | | 1 On completion of each 1 m well sinking 100% | |
| | | | 2.4.3 Jack well cum Pump House | |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | 1 On completion of each 1 m well sinking 3.4% 84% | |
| | | | 2 On Completion of Super Structure 16% | |
| | | | 2.4.4 Connecting Pipe | |
| | | | 1 Supply of pipe 70% | |
| | | | 2 Laying and jointing 15% | |
| | | | 3 Testing of pipe 15% | |
| | | | 2.4.5 Up-gradation of Sedimentation Tanks | |
| | | | 1 Cleaning of silt 10% | |
| | | | 2 Demolition of wall 20% | |
| | | | 3 Construction works 52% | |
| | | | 4 Pipe connection 18% | |
| | | | 2.4.6 Other Civil works in WTP | |
| | | | 1 Up to basement 20% | |
| | | | 2 Up to super structure 22% | |
| | | | 3 On completion entire structure 40% | |
| | | | 4.On completion other amenities such as | |
| | | | 3. PART B: PAYMENT FOR ITEM RATE COMPONENTS - CONSTRUCTION WORKS | |
| | | | 3.1. Schedule No. 7: Raw Water Main | |
| | | | 1 Supply of pipes 70% | |
| | | | 2 Laying and jointing 15% | |
| | | | 3 Testing 15% | |
| | | | 3.2. Schedule No. 8: Clear Water Rising Main | |
| | | | 1 Supply of pipes 70% | |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | 2 Laying and jointing 15% | |
| | | | 3 Testing 15% | |
| 305. | Drawing | All drawings in Auto cad format. | As discussed & agreed by you during the Pre-bid meeting kindly upload all drawing in Auto cad format. | Uploaded on BUIDCo's website. AutoCAD drawing for Intake arrangement shall alone will be uploaded in AutoCAD format as agreed. |
| 306. | Site Condition | Raw water & clear water Pipeline | Since Most of the streets & road having drains on both sides kindly provide the drawing for drain crossing for Pipelines. | The bidder/contractor has to make site visits and conduct necessary surveys, for preparation of proposals. |
| 307. | WTP site condition | Basement level of structures | Considering the level difference in the site is it is necessary to keep uniform level of existing WTP and new WTP or it may vary. Pl clarify | Existing WTP will not be used after commissioning of new WTP |
| 308. | BOQ | Soft copy - Excel format | Kindly upload the BOQ in excel format. | Uploaded on BUIDCo's website. |
| 309. | TECHNICAL SPECIFICATION Volume II- page No. 28, xxv. Electrical Substation | 152. A high voltage (33 kV) dedicated feeder, as determined by the Bihar State Electricity Board (the local utility), Substation and switch yard will be provided at the Raw Water Pump House and Water Treatment Plant (WTP) site. A description of these is given in elsewhere in bid documents. | WTP (HT 33KV) SLD/Diagram: SLD/Diagram required for 33KV tapping point from dedicated feeder at WTP a) Existing pole tapping point provision already available, please indicate. b)33KV new poles arrangements to be provided for tapping c) From tapping point existing location to proposed WTP sub-station distance to mentioned for requirement transmission works d) New proposed WTP - Type of 33KV pole structure and isolators, LA and other requirements to be specified e) 33KV tapping point provision from proposed WTP to intake/raw water substation. f) 33KV UG cable 3C X 300 sq.mm termination provision details must be provided at start end tail end. | This is under Design-build component thus the design is in the scope of the contractor. Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | substation at Raw Water Intake works: | Substation area layout drawings, SLD for HT 33KV side receiving from clear water, Pole type, road crossing, Panels, Transformers, LT side, indoor/outdoor type mentioned in SLD. | |
| 310. | Schedule No. 02:, item Ref: 2.30.1 | 33kV Single Circuit Lattice Structure | Specifications and drawings required (as approved By DISCOMs) | Refer clarification given at SNo 310. |
| 311. | Schedule No. 02:, item Ref: 2.33.67 | Equipment for Data transmission via Radio frequency | All equipment for Data transmission via GSM/GPRS can be considered | Refer clarification given at SNo 61. |
| | | PLC room at Distribution System: A separate control room for the instrument control panel (ICP) and SCADA interface. The room shall be air conditioned. The room shall be furnished in accordance with relevant subsection. | PLCs for Distribution system (OHSR) locations and other specified locations for placing the PLC panel, Instruments panel, Electrical Power connection, Cabling, Internal lighting arrangement, Air Conditioning provision for PLCs, Earthing system and other required details must be specified in BOQ | Refer clarification given at SNo 301, 310, 156 and 186. Refer Addendum 1 |
| | | Providing lighting fixtures along with cabling, a separate lighting single phase low voltage panel, switches, starters, and other accessories for indoor and outdoor areas. | Lighting arrangement for WTP all locations, WTP sub-station, Raw water sub-station, Jack well area, panel room, other area must be specified in Boq | Refer clarification given at SNo 310, 156 and 186. |
| 312. | Schedule No. 02:, item Ref: 2.33 | Supply and delivery of the SCADA system with the following equipment | Kindly provide PLC system architecture diagram mentioning locations. | Refer clarification given at SNo 156 and 186. The contractor shall design the System Architecture for PLC system and shall submit for review and approval by the Employer. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 313. | Technical specification Vol-II | Table 94: PLC Technical Parameters - Inputs and Outputs - Refer to the I/O schedule in the respective subsections of this Volume | Kindly provide list of I/O schedule for individual and all PLC system | Refer clarification given at SNo 156 and 186. The contractor shall design the Instrumentation & Automation system and shall submit for review and approval by the Employer. |
| 314. | Schedule No. 01:, item Ref: 2.33.2, 2.33.20 | UPS with batteries | Kindly provide all UPS rating and back up period | Refer clarification given at SNo 156 and 186. The contractor shall design the UPS system, considering 2 Hours backup and shall submit for review and approval by the Employer. |
| 315. | Schedule No. 01:, item Ref: 2.33.11 | Equipment for Data transmission via Radio frequency - 1 Lot | Kindly provide details and quantity in numbers, Should we consider GPRS/GPS based | Refer clarification given at SNo 312, 156 and 186. |
| 316. | | | We bring to your kind notice about the dredging/maintaining the raw water approach channel for which, as per clause 2.4.2(2) of construction experience in key activities, ref page 3-12, bidder should have carried out dredging work by itself or the specialized sub-contractor. Please note that such dredging for new facilities will be required after 2-3 years of commencement of their operation after completion of intake works construction i.e. after about 4 years. we therefore request that this bid qualification for dredging work be not insisted alongwith bid submission and instead, contractor will mobilize specialized sub-contractor for the said work after approval from the employer before commencement of dredging work. | Not agreed. The Bidding Document's provision shall prevail |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 317. | Section 8 5/8-28 | Price Adjustment for Payment for Design-Build works: The price Adjustment formula are provided for Labour, Cement, Bitumen, Ferrous Metal, HDPE/ PVC Pipes and Specials, Plant Machinery and Spares etc. | We would request you to kindly provide the price adjustment formula for Diesel also. | There is no provision for price adjustment for diesel. It may be covered under Other Materials (O). |
| 318. | Section 8: Part-A Table 14.2/8-3 | Amount of Advance Payment The first installment of 5% will be released immediately after signing the Contract. The second installment of 5% will be released on demand by the contractor upon the approval of the Construction Plan and submission of utilization certificate for first installment certified by Employer's representative. | We understand that the interest free advance of 10% of the contract value will be provided to the contractor. Since the time is the essence of the contract, and the contractor has to mobilize the equipment, labour and manpower at site quickly, we would request to kindly consider the payment of one time 10% interest free advance against an Advance Bank Guarantee of equivalent amount. | Please refer clarification given at SNo 93. |
| 319. | Section 8: Part-A Table 14.10/8-15 | The proportion of payments retained from each payment under the Design-Build Period shall be 5% (five percent) of the eligible payments. No interest will be paid on the Retention Money. Upon completion of the Defect Liability Period, half the Retention Money shall be repaid to the Contractor and the remaining half shall be repaid in three equal tranches to be released along with the proportion of the Performance Security in | We would request you to kindly accept the Bank Guarantee of 5% along with the Performance Bank Guarantee and not to deduct the retention amount from the RA Bill to maintain healthy cash flow for the project. The BG value can be reduced from time to time in line with the time line for return of the retention amount specified | Not agreed. The Bidding Document's provision shall prevail. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | accordance with sub- Clause 4.2 | | |
| 320. | Section 8: Schedule 5 /8-23 | In the payment break down provided in the NIT we find that almost 10 -12%of the payment is being made on completion of commissioning. Moreover 5% is being retained from each running bill. | To maintain a healthy cash flow for the project we would request you to kindly modify the payment terms so that not more that 5% of cash is withheld with the client on completion of commissioning. | Not agreed. The Bidding Document's provision shall prevail. |
| 321. | Section 8: Schedule 5 /8-26 | Schedule no 7: Raw Water Main Schedule no 8: Clear Water Rising Main We find that the payment against supply of the pipes is only 60% whereas Payment against all supplies for Electro Mechanical Items is 70% as mentioned in 2.1 Schedule no 1. | We would request you to kindly provide the payment of 70% against the supply of the pipes in line with the supply of other electro mechanical items to maintain positive cash flow for the project. | Not agreed. The Bidding Document's provision shall prevail. |
| 322. | General | Measurement of Electricity for Penalty Purpose during O&M | Please confirm that the electricity will be measured at the motor input terminals. If not kindly delineate where it shall be measured. | It shall be measured at MMF provided at every panel. Refer Addendum 1. |
| 323. | General | Power / Diesel Cost for testing and commissioning, trial run, O&M period | Please confirm that the power/ Diesel cost during the testing and commissioning, trial run, O&M period will be borne by the employer and paid directly by to the relevant electricity authorities | Please refer clarification given at SNo 146. During operation service period, the power cost shall be paid to the electricity authorities by Bhagalpur Municipal Corporation. |
| 324. | General | Chemical for testing and | Please confirm that the Chemicals will be supplied | Please refer clarification given at |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | commissioning, trial run. | free of cost by Employer during the testing and commissioning trial run. | SNo 146. Not agreed. The contractor has to bear the cost of chemical during testing and commissioning, trial run period also. |
| 325. | General | Document for Bid Submission | We understand that the stamped and signed tender document is not to be uploaded/ submitted along with the tender. Please confirm | Yes, the stamped and signed bidding document is to be submitted as part of technical proposal. |
| 326. | General | Dumping of Sludge | We understand that the dumping of dewatered sludge cake will be in the scope of the client. If it is in bidder's scope, please provide the location of dumping site and charges for the same during the trial run and O&M Period. | Sludge handling and disposal is in the scope of contractor. The designated site will be handed over to the successful contractor. |
| 327. | General | General Deposits | We presume that the required deposits for obtaining permissions from NH /Road / railway crossing will be borne by the client. Kindly confirm | Please refer clause 1.14 of SCC: Compliance with Laws and other contractual provisions. The amount to be deposited with or paid to any line departments/ agencies for getting permissions/NOC, for laying pipe line and other structures under this contract, shall initially be done by the contractor and shall be reimbursed from provisional sum. |
| 328. | General | Applicable Permits: | We understand that obtaining consent for construction of plant, O&M of the same and sludge disposal site from Pollution Control Authority will be responsibility of the client. Kindly confirm | Please refer clarification given at SNo 328. Also refer Clause 1.14 of Section 8: SCC. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 329. | Vol -1, Section – 4 1.9/4-91 | S S Air line for Air compressor50mm | We presume that only compressed air pipe line moc shall be stainless steel(SS304). Please confirm. | Confirmed. |
| 330. | General | | We presume that the bidder shall select the pipe sizing for WTP based on good engineering practices. Please confirm | Confirmed. |
| 331. | Section – 4 Part 3: MS Pipeline and Specials /4-35 | The Bidder shall describe the proposed Pipe Manufacturing Process and expected results insufficient details so that the Employer can assess the suitability of the Bidders proposal. | In the scope of this tender there is only2.5 KM MS Pipe and 28.5 KM DI Pipes. We understand that the detail as requested for the pipe line can be provided after award of the contract and before finalization of the Pipe suppliers and not required along with the submission of technical Bid. Kindly confirm | Not agreed. The Bidding Document's provision shall prevail. |
| 332. | General | | We could not locate any BoQ detail in price bid for railway / NH crossing. Kindly confirm whether the same is there in scope of this bid or not. If yes, please provide separate BoQ for the same | Refer Addendum 1 . |
| 333. | General | | We believe all permission, expenses and securities to be deposited for laying of pipe through road cutting, railway crossing, NH Crossing will be deposited and arranged by the client. Kindly confirm | Please refer clarification given at SNo 328. |
| 334. | General | | We understand that the right of way for laying of the pipe line would be provided by client. Kindly confirm that our understanding is correct. | Please refer clarification given at SNo 115. |
| 335. | General | | The NIT provides the specifications for Pressure Release Valves (PRV).However no items of PRV are | PRVs are not required to be installed on clear water and raw water mains. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | included in the BoQ. Kindly clarify if the bidders are to supply the PRVs and provide separate BoQ for the same. | Since the both the mains are pressure mains and no need for PRVs |
| 336. | Drawings 13 of 20 | Reference drawing : BUDIP/REVISED PROJECT/BHAGALPUR/WS/PH A SE – II /WTP / 12INLET OUTLET DETAILS OFSETTLING TANK | With reference to the drawing of the settling tank, kindly provide the sectional elevation drawing for the settling tank also for the bidders to conceptualize the same | It is a design-build component. The bidder has to carry out designs and propose accordingly. |
| 337. | Drawings 13 of 20 | Reference drawing :BUDIP/REVISEDPROJECT/BH AGALPUR/WS/PHA SE – II /WTP / 12INLET OUTLET DETAILS OFSETTLING TANK | Kindly provide the plan and sectional elevation drawing of the SETTLINGWATER PUMP HOUSE | It is a design-build component. The bidder has to carry out designs and propose accordingly. |
| 338. | | | The dredging /maintaining the raw water approach channel which, as per clause 2.4.2(2) of construction experience in key activities, ref page 3-12,bidder should have carried out dredging work by itself or the specialized sub-contractor. Please note such dredging for new facilities will be required after 2-3 years of commencement of their operation after completion of intake works construction i.e after 4 years. We therefore request that this id qualification criteria for dredging work be not insisted along with bid submission and instead, contractor wo;; mobilize specialized sub-contractor for the said dredging wok after approval from the employer before commencement of the dredging work. | Not Agreed. Bid conditions shall prevail |
| 339. | Vol. 1 Section 4 - Bidding Forms (Price) 4-84 | Price Schedules(Price Proposals) | As per the price schedule the quantity and rating of the Electrical Equipment are mentioned. Please | The ratings given are the minimum ones and the bidder/contractor shall |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | clarify if bidder has to consider the same quantity and ratings as given in the price schedule or ratings and quantities have to be decided as per bidder's estimation. | design the system and submit for approval of the Employer. |
| 340. | Vol. 1 Section 4 - Bidding Forms (Price) | Motors & Starters | Request you to clarify the type of starter for various ratings of the motor. Also please provide the voltage classification of motors (i.e. up to which kW a motor will be LT and above which kW it will be HT). | Please refer Section-6, Page 239, Para 1467 of technical specifications. |
| 341. | Annexure-B Appendix-1/ 41 | Switch yard at Intake | We understand that the power will be supplied at the boundary of the Intake Area by Client. Bidder's scope starts from tapping the power supply at the boundary and further distribution. Please confirm and clarify. Also provide the distance between existing point of supply and the proposed plant for Bidder's reference. | Please refer Section-4, Page 4-91 Sl. No. 1.14 & Page 4-143 Sl. 2.14. |
| 342. | Annexure-B Appendix-1/ 41 | Switch yard at WTP | We understand that the power will be supplied at the boundary of the WTP Area by Client. Bidder's scope starts from tapping the power supply at the boundary and further distribution. Please confirm and clarify. Also provide the distance between existing point of supply and the proposed plant for Bidder's reference. | Refer Addendum 1 . |
| 343. | Annexure-B Appendix-1/ 41 | Electric Transmission line from Intake to WTP | We understand the Electrical Transmission Line of 2550m as per the tender is in Client's scope and Bidder's scope of work starts from tapping the power at the boundary of the WTP. | Please refer Section-4, Page 4-91 Sl. No. 1.14 & Page 4-143 Sl. 2.14. |
| 344. | Annexure-B& SLD CWPS & WTP Appendix-1/ 42 | Transformer / E Sub Station with CWR | Please clarify the requirement of the 1500kVA – 2 Nos. The transformers are not mentioned in the SLD. Request you to confirm the requirement and SLD for the same. | Refer Addendum 1 . |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 345. | Vol. 1 4-40 | Battery and Battery Charger | Kindly confirm the back-up time required for DC system. | Please refer Section-4, Page 4-121 Sl. No. 1.32.4. |
| 346. | Vol. 1 4-50, 4-52 | Bus-duct | Kindly confirm whether non segregated type Al. bus duct shall also be considered for interconnection between transformer & LTPMCC panel. | Please refer Section-4, Page 4-102 Sl. No. 1.24. |
| 347. | | Type-test certificates | Only routine test for all the offered electrical equipment's shall be carried out. However typical type test certificate (not less than five years) for the electrical equipment's shall be provided. Kindly confirm. | Please refer Section-6, Page 239, Para 1467 of technical specifications. |
| 348. | Vol. 1/ Section 4 - Bidding Forms (Price) | UPS | Bidder shall consider UPS of non-redundant type, VRLA battery & back up time of 30 minutes since the same is not mentioned in tender. Kindly confirm. | pl refer Para 1867 of technical specifications. |
| 349. | | Interconnections | Bidder understands that there will not be any electrical interconnection with any of the existing plant | Confirmed. |
| 350. | | | Material for cable trays shall be of GI/FRP and without cover, since the same is not indicated in the tender. Kindly confirm. | Please refer Section-6, Page 247, Para 1537 of technical specifications |
| 351. | | Requirement of DG sets | Request Whether any DG set is required for plant operation. If required please clarify if it will be for critical loads. | Refer clarification given at SNo 227. |
| 352. | | Lighting Transformer | We understand that there is no lighting transformer required for this bid. Kindly confirm | Confirmed. |
| 353. | Vol. 1/ 5. DESIGN PHASE/ 6-19 | 33 kV Dedicated power line from Barari to Intake | We understand that the Power line mentioned will be in Client's scope. The power supply will be provided at the boundary of both intake and WTP. | The power line for WTP shall be obtained by the employer. The power line from WTP to intake works shall be under the scope of the contractor as Schedule item No.1.14.1. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | Bidder's scope starts from tapping the power supply at boundary limit and further distribution. Please confirm. Also request you to provide the distance of the Power line mentioned in the referred clause. | |
| 354. | Vol. 1; Technical Particulars/ 4-50 | Type-test certificates | Typical type test certificates, as applicable (not less than five years) for the electrical equipment's shall be provided after the award of contract. Please confirm. | Not agreed. The Bidding Document's provision shall prevail. |
| 355. | Vol. 1; 5.4.1.4 Bid Drawing and Details/ 6-32 | Technical Schedules – V for Electrical works | We find that the technical schedules are very detailed one for Bidding stage. We request you to let us provide these documents only after the award of contract. Please confirm | Not agreed. The Bidding Document's provision shall prevail. |
| 356. | Section – 4 : Bidding forms/ 4-34 | Check-List: The Bidder shall submit the following information. He is required to opt for only one out of the five options permitted for the clarifiers and one of the two options of filters and provide information of the same. | It is stated that 2 options for filters will be provided in the check-list, but none is given in the filters row. Please confirm and provide the options for filters. | Plate settler clarifier and rapid sand filter shall be provided. Refer Addendum 1 . |
| 357. | Section 6 – employer's requirement – Clause 95 – Mechanical (i)/ 6-31 | Process Air Blowers | We understand that the process air blowers are filter air scouring blowers. Please confirm. | Air valve system is proposed to effective scrubbing action of the filter sand by compressed air. |
| 358. | Section – 6 : Employer's Requirement – 2.7 Trial Run of the System Clause 32 and Section – 6 : Employer's Requirement 6.4 Part C: O&M – V. Trial Run of the system Clause 142/ 6-13 and 6-57 | Clause 32: Continuous operation of each component for a period of 15 days, to the satisfaction of the Employer's Representative will be deemed to demonstrate satisfactory completion of the trial run for that individual component. | The trial run mentioned in the Clause 32 (15 days) and Clause 142 (30 days) are different. Please confirm the trial run period. | Refer clarification given at SNo.127. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | Clause 142: A continuous operation of each component for a period of 30 days for intake, WTP, clear water pump house and 30 days in case of the transmission networks of each sub-zone, to the satisfaction of the Employer's Representative will be deemed to demonstrate satisfactory completion of the trial run for that Individual component. | | |
| 359. | Section – 6 : Employer's Requirement – 2.10 Clause 37/ 6-14 | Defect liability period certificate – 1 after issue of take over | The bidder understands that the defect liability period is of duration 1 year. Please confirm. | Confirmed. |
| 360. | Section – 6 : Employer's Requirement – 3 Environmental and Social Safeguards Clause 60/ 6-17 | Back wash water should be reused and finally disposed in the cake form at the selected site | The bidder understands that the backwash water has to be recycled and the sludge has to be disposed off in cake form at the selected site. Please confirm. | Confirmed. |
| 361. | Section – 6 Employer's Requirement – 5.1 Design Criteria Clause 68 (b) and Clause 72/ 6-21 | Table 2: Raw water quality parameters Table 3: Quality of Treated Water Process Guarantees | As per the treated water quality specifications, Taste & odour, Faecal coliforms number/100ml, Coliform organisms number/100 ml total iron as (Fe), Residual aluminium as (Al), Manganese as (Mn), Chloride as (Cl), Sulphate as (SO ₄), Fluorides (F), Nitrates as (NO ₃) and alkalinity have to be treated. Please provide the inlet values of the above parameters. | Contractor shall assess inlet parameters of river water near the proposed Intake site. Also refer clarification given at SNo 45. |
| 362. | Section – 6: Employer's Requirement – 5.1 Design Criteria – Clause 66/ 6-18 | Clause 66: (a) Part – A: Design-Build Works: Intake Works of 141 MLD, Raw Water Pumping Machinery, Electrical Substation, 90 MLD Capacity WTP (Treated | We understand that the single structure units like inlet, Parshall flume have to be designed for 135 MLD and other units have to be designed for 90 MLD with provision for expansion to 135 MLD. Please confirm. | Confirmed. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | water capacity), Clear Water Pumping Stations, Clear Water Reservoir and allied works.. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement. | | |
| 363. | Section – 6: Employer's Requirement – 5.1 Design Criteria – Clause 66/ 6-18 | Clause 66: (a) Part – A: Design-Build Works: Intake Works of 141 MLD, Raw Water Pumping Machinery, Electrical Substation, 90 MLD Capacity WTP (Treated water capacity), Clear Water Pumping Stations, Clear Water Reservoir and allied works.. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement. | We understand that the sludge treatment system has to be designed for 90 MLD with provision for expansion up to 135 MLD. Please confirm. | Confirmed. |
| 364. | Section – 6: Employer's Requirement – 5.1 Design Criteria – Clause 66/ 6-18 | Clause 66: (a) Part – A: Design-Build Works: Intake Works of 141 MLD, Raw Water Pumping Machinery, Electrical Substation, 90 MLD Capacity WTP (Treated water capacity), Clear Water Pumping Stations, Clear Water Reservoir and allied works.. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement. | We understand that Chemical and Chlorine building have to be designed for 135 MLD. Please confirm. | Confirmed. |
| 365. | Section 4 – Bidding Forms – Form TECH: technical Parameters for Intake Pumping Station, clear | Staff Quarters/Contractors Office | We understand that staff quarters is not to be provided and is same as administrative building. Please confirm. | Staff quarters shall be provided separately than administrative building as per the bid provisions. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|--|--|---|--|
| | Water pumping Station and Water treatment Plant – Part 2: Water Treatment plant /4-34 | | | |
| 366. | Section 4 – Bidding Forms (Price) – Clause 1.35.2 /4-134 | Flocculation and sludge scrapping arrangement for Plate Settler and Flocculation/Clarifier Units | Sludge scraping will be provided for plate settler and clarifier. For flocculators slow speed mixers will be provided. Please confirm. | Confirmed. Bidding Document's provision shall prevail. |
| 367. | Annexure – A Initial Environmental Examination and Bidding Document | Treatment scheme and design values given in both the documents | We understand that Annexure – A Initial Environmental Examination document is for bidder's information and the Bidding document is to be followed for design purpose. Please confirm. | Bidding Document's provision shall prevail. The contractor has to follow the IEE report also while designing the system. |
| 368. | Section – 4 : Bidding forms 4-34 | Check-List: The Bidder shall submit the following information. He is required to opt for only one out of the five options permitted for the clarifiers and one of the two options of filters and provide information of the same. | It is stated that 2 options for filters will be provided in the check-list, but none is given in the filters row. Please confirm and provide the options for filters. | Rapid sand filters and plate settlers clarifier is the only option to be considered by the bidder. This shall comply with the CPHEEO manual provision. |
| 369. | Section 6 – employer's requirement – Clause 95 – Mechanical (i) /6-31 | Process Air Blowers | We understand that the process air blowers are filter air scouring blowers. Please confirm. | Refer clarification given at SNo.358. |
| 370. | Section – 6 : Employer's Requirement – 2.7 Trial Run of the System Clause 32 and Section – 6 : Employer's Requirement 6.4 Part C: O&M – V. Trial Run of the system Clause 142/ 6-13 and 6-57 | Clause 32: Continuous operation of each component for a period of 15 days, to the satisfaction of the Employer's Representative will be deemed to demonstrate satisfactory completion of the trial run for that individual component. Clause 142: A continuous operation of each component for a period of 30 days for intake, WTP, | The trial run mentioned in the Clause 32 (15 days) and Clause 142 (30 days) are different. Please confirm the trial run period. | Refer clarification given at SNo.127. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | clear water pump house and 30 days in case of the transmission networks of each sub-zone, to the satisfaction of the Employer's Representative will be deemed to demonstrate satisfactory completion of the trial run for that Individual component. | | |
| 371. | Section – 6 : Employer's Requirement – 2.10 Clause 37/ 6-14 | Defect liability period certificate – 1 after issue of take over | The bidder understands that the defect liability period is of duration 1 year. Please confirm. | Confirmed. |
| 372. | Section – 6 : Employer's Requirement – 3 Environmental and Social Safeguards Clause 60/ 6-17 | Back wash water should be reused and finally disposed in the cake form at the selected site | The bidder understands that the backwash water has to be recycled and the sludge has to be disposed off in cake form at the selected site. Please confirm. | Confirmed. |
| 373. | Section – 6 Employer's Requirement – 5.1 Design Criteria Clause 68 (b) and Clause 72/6-21 | Table 2: Raw water quality parameters Table 3: Quality of Treated Water Process Guarantees | As per the treated water quality specifications, Taste & odour, Faecal coliforms number/100ml, Coliform organisms number/100 ml total iron as (Fe), Residual aluminium as (Al), Manganese as (Mn), Chloride as (Cl), Sulphate as (SO ₄), Fluorides (F), Nitrates as (NO ₃) and alkalinity have to be treated. Please provide the inlet values of the above parameters. | Raw water parameters shall be assessed by the bidder. The bidder may carry out the sample testing of river water near proposed Intake site and assess the parameters. |
| 374. | Section – 6: Employer's Requirement –5.1 Design Criteria – Clause 66/ 6-18 | Clause 66: (a) Part – A: Design-Build Works: Intake Works of 141 MLD, Raw Water Pumping Machinery, Electrical Substation, 90 MLD Capacity WTP (Treated water capacity), Clear Water | We understand that the single structure units like inlet, Parshall flume have to be designed for 135 MLD and other units have to be designed for 90 MLD with provision for expansion to 135 MLD. Please confirm. | Confirmed. Refer clarifications given at SNo 75 and 243. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | Pumping Stations, Clear Water Reservoir and allied works.. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement. | | |
| 375. | Section – 6: Employer's Requirement – 5.1 Design Criteria – Clause 66/ 6-18 | Clause 66: (a) Part – A: Design-Build Works: Intake Works of 141 MLD, Raw Water Pumping Machinery, Electrical Substation, 90 MLD Capacity WTP (Treated water capacity), Clear Water Pumping Stations, Clear Water Reservoir and allied works.. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement. | We understand that the sludge treatment system has to be designed for 90 MLD with provision for expansion up to 135 MLD. Please confirm. | Confirmed. |
| 376. | Section – 6: Employer's Requirement – 5.1 Design Criteria – Clause 66/ 6-18 | Clause 66: (a) Part – A: Design-Build Works: Intake Works of 141 MLD, Raw Water Pumping Machinery, Electrical Substation, 90 MLD Capacity WTP (Treated water capacity), Clear Water Pumping Stations, Clear Water Reservoir and allied works.. Module of 45MLD WTP has to be designed for implementing in 2nd stage for 2047 requirement. | We understand that Chemical and Chlorine building have to be designed for 135 MLD. Please confirm. | Confirmed. |
| 377. | Section 4 – Bidding Forms – Form TECH: technical Parameters for Intake Pumping Station, clear | Staff Quarters/Contractors Office | We understand that staff quarters is not to be provided and is same as administrative building. Please confirm. | Staff quarters shall be provided as per provision in Employer's Requirements. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | Water pumping Station and Water treatment Plant – Part 2: Water Treatment plant 4-34 | | | |
| 378. | Section 4 – Bidding Forms (Price) – Clause 1.35.2/ 4-134 | Flocculation and sludge scrapping arrangement for Plate Settler and Flocculation/Clarifier Units | Sludge scraping will be provided for plate settler and clarifier. For flocculators slow speed mixers will be provided. Please confirm. | Confirmed. |
| 379. | Annexure – A Initial Environmental Examination and Bidding Document | Treatment scheme and design values given in both the documents | We understand that Annexure – A Initial Environmental Examination document is for bidder's information and the Bidding document is to be followed for design purpose. Please confirm. | IEE report is also a part of Bidding document. The contractor has to follow the IEE report also while designing the system. |
| 380. | BDS-ITB 14.7 / 2 of 3 | <p>The Employer will assist the Contractor to obtain any lawful exemptions from payment of Goods and Service Tax (GST) notified under Central Goods and Services Tax (CGST) Rules 2017, if available through any Government Notification.</p> <p>The responsibility for obtaining any such exemptions from the Competent Authority will remain with the Contractor and the Employer will not in any way be responsible for admissibility of the claims or eligibility of the Contractor.</p> <p>The exemption if any availed by the contractor shall be passed on to</p> | Please confirm whether the Employer issue required certificate/declaration to avail Custom Duty exemption as per Notification No:84/1997 dated 11.11.1997 as amended time to time for the execution of projects funded by Asian Development Bank. | Refer clarification given at SNo.3 and ITB/BDS Clause 14.7. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|--|---|--|
| | | the employer. | | |
| 381. | Sec 4 – Bidding Forms (Price) 1.33 / 4 of 78 | The Bidder shall satisfy himself/herself as to the meaning of every item in the Price Schedules by the Bidder shall be deemed to cover all costs, taxes, customs and import duties, levies, profit, risks, liabilities, transit insurance and obligations set forth or implied in the bid. | Please clarify whether the employer required considering any project specific exemptions in the quoted Price and the employer will furnish the required certificate if any in due course. | Refer clarification given at SNo.3 |
| 382. | BDS-ITB 2.1/ 2 of 1 | The name of the project is: Bihar Urban Development Investment Program. Project 2 (ADB Loan 312-(IND) | It is our understanding from the clause that this Project being fully funded by Asian Development Bank. PI confirms our understanding. | The IFB clearly stipulates that the project is funded by Asian Development Bank with proportionate share of Government of Bihar. |
| | III rd set of queries from WABAG | | | |
| 383. | Section 6 – Employer's requirement – Clause 60 Page 6-17 | Backwash water should be reused and finally disposed in the cake form at the selected site | Please mention about recycling of the centrate from centrifuge and supernatant from sludge thickeners | It is the scope of the contractor, since it is design and build component. |
| 384. | Section 6 – employer's requirement – Clause 34 – Commissioning of the system Page 6-13 | The commissioning of the system shall be considered as fully achieved after the entire system has run continuously for a period of 15 days without any breakdown to the satisfaction of the employer's representative | Please mention how the sampling will be done during the commissioning period | Sampling procedure and duration adopted for O&M period shall also be adopted for commissioning period also. |
| 385. | General | | The sludge pipe line moc is not available in tender document. Hence we presume that DI pipe shall be used for sludge line. Please confirm. | Confirmed. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 386. | | | We understand that there is existing WTP , we request employer to share the inlet quality parameter of existing WTP for the last 2 years | It is the responsibility of the contractor to assess the raw water quality. |
| | 3 rd set of query from Triveni | | | |
| 387. | General | | Which method of design for water retaining structures shall be allowed? Whether limit state method or working stress method. Again in limit state method 0.20 mm or 0.10 mm crack width will be permitted. | Either the limit state method or working stress method can be followed. In limit state method, 0.20 mm crack width shall be permitted. |
| 388. | General | | Kindly provide soil report with SBC at different depth/nearby areas with GWT information with respect to depth. As this is a time consuming activity for a bidder. | It is the scope of the contractor. He has to conduct Soil bearing capacity test to assess it value. |
| 389. | General | | Kindly provide the technical specifications related to loading, analysis and design of structures | Relevant IS specifications shall be followed. |
| 390. | General | | Kindly provide material specifications for plain concrete, Reinforced concrete, reinforcement, structural steel etc., | Relevant IS specifications shall be followed. |
| 391. | General | | Kindly provide protection painting for WTP units structures | Relevant IS specifications shall be followed. |
| 392. | General | | Kindly provide building works including brick work, plaster, roof water proffing, RWP pipes, building finishes for painting, flooring etc., | It is design build components and the contractor has to propose the structure as per relevant IS specifications. |
| 393. | General | | Kindly provide the water level variations of the Ganga River | It is design build components and the contractor has to assess all the details required for the design. |
| 394. | General | | Kindly provide Transmission Network drawings with standard drawings for Chambers, booster pumping | It shall be provided to the successful bidder during execution |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| | | | stations. | |
| 395. | General | | Please provide Transmission network design details "carried out through Water GEM software". | Transmission network design is not in the scope of the contractor. |
| 396. | General | | Kindly provide DPR of the project. | The copy of DPR shall be provided to the successful contractor. However the bidders may go through the DPR for this project available in BUIDCo office. |
| | Technofab Engineering Ltd, Delhi | | | |
| 397. | Section 6 - Employer's Requirement 3. Environmental and Social Safeguards Page 6-17 | 53. Protection of Trees and Vegetation The contractor shall protect trees and vegetation from damage to the satisfaction of the Engineer. No trees shall be removed without the prior approval of the Engineer and any competent authorities. | We also understand that all statutory clearance shall be arranged by client. Please also specify the scope of work for tree cutting in bidder scope or done by other agencies. | All the statutory clearance shall be arranged by the employer. However the contractor shall be assist the employer to get the clearance. Tree cutting is in the scope of the contractor. |
| 398. | Section 6 - Employer's Requirement 5. Design Phase Page 6-19 | a. Intake & WTP i. Intake Electrical sub-station including supply and installation of electrical equipment, transformers cables etc. for supply of power to raw water pumping station. | Transformer & DG Size for Intake & WTP will be design for 95 MLD during Intermediate stage or 141 MLD in Ultimate stage. Please Confirm. | Transformer shall be designed for 95 MLD for intermediate stage. However provision for future expansion shall be made in the proposal. |
| 399. | Section 6 - Employer's Requirement 5. Design Phase Page 6-19 | ii. WTP Electrical sub-station including supply and installation of electrical equipment, transformers cables etc. | We understand that power supply up to substation at WTP shall be arranged by client /other. Kindly confirm | Power supply upto the substation at WTP shall be arranged by the Employer. However the contractor shall assist the employer to get such power supply connections. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
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| 400. | Section 6 - Employer's Requirement 5. Design Phase Page 6-19 | a. Intake & WTP ii. WTP Boundary wall with barbed wire fencing at WTP area with proper gate & guard room | It is our understanding that Boundary wall will be constructed For Whole Site or only for 95 MLD during Intermediate. Please Provide Boundary Wall Drawings. | Boundary wall for WTP site alone shall be constructed. |
| 401. | Intake &WTP | | Please provide the soil investigation report for Intake & WTP Site. | It is the scope of the contractor. |
| 402. | Section 6 - Employer's Requirement 5.1.2 Major Components and Conceptual Treatment Scheme Page 6-23 | a. Part A i. Intake Works: Brief description of civil & EMI works up to commissioning Construction of approach road from Jack well site at Vikramshila Bridge | Please provide approach road Length and Specification. Kindly confirm. | Approach road length shall be 125 m Pl refer Addendum 1 for drawings IRC |
| 403. | Section 6 - Employer's Requirement 5.2 Scope of Work Page 6-27 | b. Activities to be performed Storm water drainage plan at WTP premises and further disposal up toRiver. | Please confirm drainage From WTP to river by Pipe or Channel and distance between WTP Site and Disposal point at River. | It is the scope of the contractor. |
| 404. | Section 4 - Bidding Forms (Price) Page 4-81 | 7.0 Valve Chambers | Please provide the detail drawing of valve chamber and details of existing structure that has to be dismantled. | Valve chambers drawings shall be provided to the successful contractor during construction. No dismantling required for any existing structures. |
| 405. | Section 2 - Bid Data Sheet Page 2-6 | The deadline for bid submission is Date: 18 May 2018 Time: 15:00 Hrs | Preparation for a comprehensive and competitive bid for such a huge project needs intense route survey, detail designing for each & every component & as well as development of vendors etc. for which the time allocated is inadequate. We are requests to extend the submission of last date by Five(5) Weeks as schedule 12.03.2018 after pre-bid replies. | Pl refer Addendum 1 |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|--|--|--|
| | | | Please confirm. | |
| 406. | Annexure A Proposed project Serial page no.-1 | The preliminary design, as specified in BWSP2 detailed project report, is the conceptual design of the project worked out to certain detail to verify their technical feasibility (i.e. whether an experienced contractor would be able to construct it), and estimate the costs. The BWSP2 contractor will prepare the detailed design in such manner that it meets the functional and structural criteria. | We are considering that tender drawings are only for costing purpose and it can be modified as per actual requirement to meet the functional and structural criteria at the time of detailed engineering. Kindly confirm. | Confirmed. Refer Clause 235; Employer's Drawings of Section 6: Employer's Requirements. |
| 407. | Technical Specification of civil & Electro -Mechanical work | Table 1: Design criteria for Approach Channel in River | There is a discrepancy between Drawings and Design Criteria .Drawing indicates 5.0 M bottom width of channel at 18 RL with side slope of 1:3 while Design criteria describes it is 10 m in bottom with side slope of 1:5 .we request you to please confirm which one is correct. | Refer clarification given at SNo. 201. |
| 408. | Annexure A River Bank Protection at WTP Site | Sheet pile – Providing and constructing sheet piles below scour depth. The sheet piles shall be driven below the anticipated scour depth plus grip length. | We request you to please provide the scour depth of river near the WTP premises. | The bidder/contractor has to arrange this data on his own. Refer clarifications given at SNo 156 and 186. |
| 409. | General | General | It is not possible to us to calculate the length of boundary wall in intake site as well as WTP site because both site are irregular shape .we request you to please provide dimensioning layout for both | Refer clarification given at SNo 163. The Google map indicating WTP site has been uploaded on BUIDCo's website. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|--|--|---|
| | | | sites. | |
| 410. | General | General | Item boundary wall is not mentioned anywhere in the bill of Quantities but mentioned in detailed scope of work for Intake site as well as WTP site .Is it required? Please confirm . | Refer clarification given at SNo 163. Also refer clarifications given at SNo 156 and 186. |
| 411. | Bid Document– Section – 6: Technical Specification of bwsp6 | i. Lime Dosing System 688. A lime dosing system shall be provided to enable pH correction both at the inlet chamber and Rapid Mixer for ensuring effective coagulation and achieving stipulated limits of pH in water. The system shall be provided as per the relevant Standards and Good Engineering Practices. The plant shall consist of the following but shall also incorporate any other requirement for its satisfactory performance: | For lime dosing please provide the latest raw water parameter report. So we can calculate the consumption of lime and also make optimum costing. Please confirm. | Refer clarification given at SNo 45. |
| 412. | Bid Document– Section – 6: Technical Specification of bwsp4 | 667. The alum dosing shall be made by gravity dosing. The solution tanks and dosing devices have to be installed at a level to be in a position to feed into the inlet chamber. Duplicate dosing solution lines with isolation valves shall be provided between the gravity dosers and the dosing point such that dosing of chemical need not be stopped to do maintenance on the solution lines. Isolation and flow regulating | As per the hydraulic flow diagram the flash mixer height is about 4 meters above from ground level and the chemical house height is about 3.5-4.0 meter, it means the gravity dosing of alum and polymer will be difficult. We request you to add pumping system or either clarify the height of gravity dosing system with respect to flash mixer. Please confirm. | The bidder/contractor has to design the system. Refer clarifications given at SNo 156 and 186. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|---|--|--|---|
| | | valves shall be provided at both the gravity dozers and dosing point ends. The diameter of the pipes in the chemical plant and to the injection points shall be designed and provided as per practice. | | |
| 413. | Section 2 - Bid Data Sheet | The deadline for bid submission is Date: 18 May 2018 Time: 15:00 Hrs | Preparation for a comprehensive and competitive bid for such a huge project needs intense route survey, detail designing for each & every component & as well as development of vendors etc. for which the time allocated is inadequate. We are requests to extend the submission of last date by Five(5) Weeks as schedule 18.05.2018 after pre-bid replies. Please confirm. | Refer Addendum 1 . |
| 414. | Volume1: Section 6 – Employer's requirement – Clause 71 6-21 | The turbidity of minimum 300 NTU shall have to adopt for design purpose of WTP with ratio of 2.00 for calculating suspended solids. c | Please provide clarity on the ratio used – is it Turbidity to Suspended Solids or vice-versa | Refer clarification given at SNo 242. |
| 415. | Volume 2 918. River bank protection at WTP 161 | Top of embankment (Revetment top layer) - 36.0m Top of beam at the toe of revetment - 26.00 m | As per the drawing of river bank protection the top of embankment level is shown as 54.20 and end level as 26. Kindly clarify what will be the top and bottom level for the WTP river bank protection. | Top level of embankment shall be 36.0 m and top of Toe beam shall be 26.00 m . For drawings correction pl refer Addendum 1 |
| 416. | Volume 2 – 920 161 | Length of revetment - 530 m (Approx.) | As per the Price Bid BOQ item no. 4.6.3.1, the length of river bank protection is given as 500 mtrs. Kindly clarify the actual length of the river bank protection needed to be executed in WTP. | Refer clarification given at SNo 157. |
| 417. | Drawing | River Bank Protection drawing | The drawing shows “ Sheet pile 300 mm thk”. Please | Refer clarification given at SNo 158. |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|------|----------------------|---|--|---|
| | | | clarify this item (type of sheet pile and thickness) as sheet piles are not normally 300 mm thk. Moreover whether this sheet pile will be a permanent arrangement or only during construction. Kindly clarify | For correction in Drawing pl refer Addendum 1 |
| 418. | Drawing | General Arrangement of Intake Works | The section A-A of Intake Well and Jack well after bottom plug anchor bars are shown. We believe anchor bars are required here and bidders are free to construct as per their own approved design. Kindly confirm. | Confirmed subject to IRC -78 and IRC -6-2000 or latest publication conditions. . Refer clarification given at S.No.156 |
| 419. | Drawing | General Arrangement of Intake Works | In the plan drawing of Intake Well kindly provide the distance from right bank of river up to the bank protection line. | The bidder/contractor has to his own assessment as per site visit/conditions. |
| 420. | Drawing | General Arrangement of Intake Works | The section B-B at 30 RL of approach channel shows ghat inside the two sides of the channel kindly clarify where the Ghats are to be made (as ghats cannot enter the earthen part of the channel) and how many numbers of ghats are to be made. | Refer Addendum 1 |
| 421. | Drawing | INLETE OUTLET DETAILS OF SETTLING TANK | The drawing shows the settling tanks as RCC structure whereas at site we observed that the settling tank is brick lined. Kindly clarify. Also please provide the BOQ (with dia length, m3. M2 etc) or details of the work to be done for modification of the settling tanks (pipeline, Civil, RCC, brickworks, etc.). Kindly clarify | Refer clarifications given at S.No 156 and 186. |
| 422. | Volume 2 – 213 35 | xxxi. Specification for External Coating to MS pipes and Specials 213. External coating shall be provided using following method: | As per specification MS pipes are to be tape coated externally and 400 micron epoxy lined internally. But as per Price Bid BOQ item no. 7.9.5, 7.9.6, 7.9.7 it is seen that gunniting as well as encasing is asked for external protection of the MS Pipeline. | Refer clarification given at S.No215 Also PI refer Addendum 1 |

| SN | Clause Ref No | Existing Clause | Clarification Sought | BUIDCo's Reponses |
|----|---------------|--|---|-------------------|
| | | <p>a. External Coating with Pre-fabricated Polyolefin Tape to MS pipes and Specials or 3 LPE external coated pipe preferably factory made (conforming to DIN-30670,1991 and DIN-30678, 1992).</p> | <p>Moreover what (coating/painting) is to be done for the 1600 dia pipe from Intake well to Jack well is not mentioned? Kindly clarify.</p> | |