# ADDENDUM-1

A Pre-Bid meeting was held under the chairmanship of Director Engineering-I on 04th July 2024 at 3:00 PM at "Manthan Hall" JDA, Jaipur regarding the work of **"Engineering Procuring Construction Commissioning EPC and Performance run followed by O&M of Sewerage Treatment Plant of 30 MLD capacity at Swarn Vihar Sanganer of Jaipur City based on Sequential Batch Reactor SBR Technology".** Addenda to the bid document in the context of queries raised by Participants are as follows:

| Sr. No. | Reference to Clause and Context | Existing Provision | As Amended |
|---|---|---|---|
| 1. | 4.0 Sludge Handling Units<br>4.1 COTDM Feed Sump & Pump House<br>Hydraulic Retention Time<br>pg. no. 204<br><br>4.2 COTDM&COTDM House<br>Pg. no 206 | 4.1 COTDM Feed Sump & Pump House<br>Hydraulic Retention Time : 24 hrs. min. of Average Daily Sludge Production<br><br>4.2 COTDM&COTDM House<br>Maximum Operation Hours per day 12 hours (6 days a week) | 4.1 COTDM Feed Sump & Pump House<br>Hydraulic Retention Time : 12 hrs. min. of Average Daily Sludge Production<br><br>4.2 COTDM&COTDM House<br>Maximum Operation Hours per day 12 hours (7 days a week) |
| 2. | Vol-II, Technical Schedules: Schedule-VIII, Guaranteed Power Requirement & Power Cost, Pg. No. 552 | Table: Present Value of Total Cost of Power for STP<br>Column "B"- Year wise inflow of sewage (Percent of design capacity)<br>1st year – 25<br>2nd year – 40<br>3rd year – 50<br>4th year – 60<br>5th year – 70<br>6th year – 80 | Refer **Annexure-A1** enclosed with Addendum-1 |
| 3. . | General Scope of work, pg. no. 569 | It is to be noted that all costs during the O&M period, excluding the cost of power and chlorine are to be borne by the Contractor. | It is to be noted that all costs during the O&M period of (1+5) year, excluding the cost of power only are to be borne by the Contractor. The cost of chlorine during O&M shall be in the scope of bidder. |
| 4. | GUIDE LINES FOR BREAK-UP (B-1), pg. no. 576 | The successful bidder on acceptance of LOA shall quote break-up of prices as Percentage of lump sum cost within the following range:<br>1 Civil Works 45%<br>2 Inter connecting piping 7% | The successful bidder on acceptance of LOA shall quote break-up of prices as Percentage of lump sum cost within the following range:<br>1 Civil Works 45%<br>2 Inter connecting piping 7% |

| Sr. No. | Reference to Clause and Context | Existing Provision | | | As Amended | | |
|---|---|---|---|---|---|---|---|
| | | | works | | | works | |
| | | 3 | Mechanical works | 23% | 3 | Mechanical works | 23% |
| | | 4 | Electrical works | 10% | 4 | Electrical works | 10% |
| | | 5 | Instrumentation | 5% | 5 | Instrumentation | 5% |
| | | 6 | 03 months Trial run, Testing & commissioning of entire plant etc. complete | 5% | 6 | 03 months Trial run, Testing & commissioning of entire plant etc. complete | 10% |
| | | 7 | O&M of 1 year | 5% | | | |
| | | | Total | 100% | | Total | 100% |

## Annexure-A1

### SCHEDULE –VIII
### TECH 1 : Guaranteed Power Requirement & Power Cost

The bidder shall quote the Total Guaranteed Power Requirement for operation and maintenance of the Sewage Treatment Plant (STP).

**Table : Present Value of Total Cost of Power for STP**

| Year of Operation Services | Presumed year wise Inflow of Sewage (Percent of design capacity) | Total Guaranteed Power Requirement to be quoted by the Bidder (KWH/day) | Annual cost of power (Rs) = Col C x 365 X 10.00 | Escalation Factor @ 7 % for power tariff | Discount Factor @ 10 % for PV | Evaluated Annual Power Cost (Rs) =Col D X Col E X Col F |
|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G |
| 1st Year | 25 | | | 1.16 | 0.81 | |
| 2nd Year | 40 | | | 1.25 | 0.73 | |
| 3rd Year | 55 | | | 1.33 | 0.67 | |
| 4th Year | 70 | | | 1.43 | 0.61 | |
| 5th Year | 85 | | | 1.53 | 0.55 | |
| 6th Year | 100 | | | 1.63 | 0.50 | |
| Evaluated Power Cost (Sum total of Column G) | | | | | | |

**Note :**

1. **1. The guaranteed power requirement (in KWH per day) to be quoted by the bidder shall be sum of power consumption for process & non process units considering 5% line losses (as per Schedule-VI). In case, any benefit is considered due to power generation due to any source, like DG set, Solar etc, then his bid shall be rejected.**
2. **The evaluated power cost shall be used for determining evaluated Price Bid of the Bidder.**
3. **In case there is any ambiguity in guaranteed power consumption quoted by bidder in Schedule-VI, VII & VIII then his bid shall be rejected.**
4. **The bidder must fill the power guarantee formats schedule-VI,VII, VIII.**

**Signature of the Bidder** **Seal of the Company**

A pre-bid meeting for the work of "**Engineering Procuring Construction Commissioning EPC and Performance run followed by O&M of Sewerage Treatment Plant of 30 MLD capacity at Swarn Vihar Sanganer of Jaipur City based on Sequential Batch Reactor SBR Technology**" was held on 04.07.2024 at 3:00 PM in "Manthan Hall" of JDA. Following are the clarifications on the queries raised by the various participants:

| S. NO. | ISSUE NO. | CLAUSE NO. CHAPTER NO. | AS PER TENDER DOCUMENT | PARTICIPANT'S QUERY | RESPONSE/ CLARIFICATIONS |
|---|---|---|---|---|---|
| **1** | **Online queries :** | | | | |
| 1. | | Clause 2, pg.32, SPECIAL CONDITION OF THE CONTRACT FORPRE QUALIFICATION OF CONTRACTORS | Qualification Criteria: | Details of Joint Venture is not provided. Please provide the qualification criteria of Joint Venture. | JV conditions are as per tender document annex. G & special conditions - schedule H. |
| 2. | | S.No. 34, pg.13, SPECIAL CONDITIONS SCHEDULE 'H' | If qualifying work of STP as per qualification condition/ criteria 2(b) is executed by JV firm and both the firms participated in this bid either individually or in JV with other firms, then the experience of only that firm with higher sharing in original JV will be considered. Working experience of the same STP will not be considered separately. Experience of other items excluding STP can be used by both the firms as per their share. | Since all partners of JV is responsible for proper execution of the project works, so we request please modified the qualification condition as -<br><br>If qualifying work of STP as per qualification condition/ criteria 2(b) is executed by JV firm and both the firms participated in this bid either individually or in JV with other firms, then **the experience of all the JV partners / firms will be considered based on the percentage sharing of the works in original JV.** | Bid condition prevails. |
| 3. | | SECTION – I Pg.179 Volume-II, SCOPE OF WORK & TECHNICAL SPECIFICATIONS | Installation of DG Set and its O&M including diesel cost: Each load center shall be provided with a silent DG Set as a standby power backup for 100% load. DG sets up to 1000 KVA capacity are required to be supplied with acoustic enclosure as per CPCB norms. | Cost of Diesel for operation of STP during power failure will be reimburse by the client on actual basis in monthly bill.<br>Please confirm. | Not agreed, Bid condition prevails. |

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| | | | **Cost of diesel will be borne by agency itself.** | | |
| 4. | | Clause 2.3.2, pg.186 Volume-II | Raw sewerage characteristics:<br><br>BOD – 600 mg/l<br>COD – 1100 mg/l<br>TSS – 600 mg/l<br>TKN – 70 mg/l | Raw Sewage Characteristics seems on higher side compared to municipal sewage characteristics specified in CPHEEO manual. Is industrial effluent mixed in raw sewage feed to STP?<br>If yes, please provide the type of industries whose effluent is mixed in the sewage. | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 5. | | Volume-II, Drawings, pg.600 & 601 | Layout | There are two pathways/Roads showing in proposed layout, which are connected to nearby residential house. If these roads remain exist than land proposed for STP is insufficient. Please check & confirm the availability of land. | No change, as per enclosed layout |
| **2** | **Online queries** | | | | |
| 6. | | Pg. No. 5 &228 | Completion period of work-24 Months & Trial Run 3 Months | We understand that a period of 24 months is exclusive of 3 months trial run period. Please Confirm. | Time period includes construction Period of 24 Months (including Monsoon) from the commencement date and followed by 03 months trial run & commissioning period followed by performance guarantee test (O&M for 1 year) and Operation & Maintenance (O&M) for 60 months their after, including **36** months defect liability period. |
| 7. | | Pg. No. 13 | 33. Price Escalation: Clause of agreement no. 45& 45A for Price Escalation variation is not applicable/payable so **deleted.** | As total contract period including operation & maintenance is about 8 years (24 Months Const. + 6 Years O&M) and WPI and CPI | No change |

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| | | | | are increasing at the rate @ 8 to 10% per year. We request you to incorporate the standard price variation clause. Please Confirm | |
| 8. | | Pg. No. 179 | **1.2 Vehicle**: -The contractor will provide 1 no. AC SUV vehicle along with driver for use of JDA supervisory staff on full time basis……completion of construction phase. | We presume that one SUV will be provided during the construction period only and not for 6 years of O&M. Please Confirm. | The contractor will provide 1 no. AC SUV vehicle along with driver for use of JDA supervisory staff on full time basis **from the stipulated date of commencement mentioned in work order upto issuance of commissioning certificate on completion of construction phase (upto 3000 km running per month). Scope of diesel, toll fee payment during this period is in contractor's scope.** |
| 9. | | Qualification Criteria, Note (ii) (b) Pg. No. 33 | MOU/Technology tie up agreement shall be uploaded as a part of technical bid. Technical bid without MOU/Technology tie up agreement shall be rejected. Date of signing of agreement shall be after the date of publishing of tender notice. **Technology provider can tie up with multiple bidders however; he cannot participate directly in the bidding as a Main bidder or as JV Partner.** Otherwise, his bid will be rejected. | We have completed many STP projects on SBR Technology as a ***Technology Provider cum Turnkey Contractor*** and are willing to participate in the said tender as a bidder cum Technology Provider as we are fulfilling the pre-qualification criteria given for the bidder as well as Technology Provider.<br><br>However, the said clause of *"…technology Provider can tie up with multiple bidders however, he cannot participate directly in the bidding as a Main bidder or as a JV partner. Otherwise, his bid will be rejected" is* restricting us to participate in the said tender as a bidder cum Technology Provider. | No change |

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| | | | | We wish to inform you that the criterion mentioned in the tender for a company to be considered as a Technology Provider is highly restrictive and at best can be said to be inserted in the Tender conditions as an oversight.<br><br>In view of the above, we request you to **please delete the note below the Technology Provider criteria** which states that *"…technology Provider can tie up with multiple bidders however, he cannot participate directly in the bidding as a Main bidder or as a JV partner. Otherwise, his bid will be rejected"* | |
| 10. | | Qualification Criteria, Note (ii) (b) Pg. No. 33 | MOU/Technology tie up agreement shall be uploaded as a part of technical bid. Technical bid without MOU/Technology tie up agreement shall be rejected. Date of signing of agreement shall be after the date of publishing of tender notice. **Technology provider can tie up with multiple bidders however; he cannot participate directly in the bidding as a Main bidder or as JV Partner.** Otherwise, his bid will be rejected. | If a **bidder** is capable enough that he satisfies the *technology provider* criterion, he must not be mandated to tie up with some other company. Further, please note that many government organizations in India have already floated tenders of & completed much bigger STPs than this project and have not insisted on such restrictive clauses.<br><br>In view of the above, we request you to **please delete the note below the Technology Provider criteria** which states that *"…technology Provider can tie up* | No change |

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| | | | | *with multiple bidders however, he cannot participate directly in the bidding as a Main bidder or as a JV partner. Otherwise, his bid will be rejected"* and accept that **if the bidder himself satisfies the criteria of the Technology Provider in addition to the criteria of the bidder, he shall sign Technology Tie Up agreement with himself; rather than signing MOU with another company.** | |
| 11. | | Qualification Criteria, Note (ii) (b) Pg. No. 33 | It shall be mandatory for the bidders to submit a MOU/Technology tie up agreement duly signed and notarized on a Rs.500.00 non judicial stamp paper with a technology provider who must have a registered company in India fully equipped with trained manpower to extend services as and when required. The technology provider shall have experience of providing SBR technology and technology equipment for at One (1) no STP of 24 MLD capacity or Two (2) STPs each of 15 MLD capacity in India during last seven years and are working satisfactorily for at least three years as on Date and meeting outlet quality as required for proposed STP. | As per the qualification criteria specified in the tender, the SBR technology provider needs to submit the required STP experience certificates that meet the outlet quality as required for the proposed STP.<br><br>We presume that the SBR Technology Provider needs to submit the experience certificate from the client for the outlet quality only.<br><br>Kindly confirm. | Bid specification is self-explanatory. |

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td>12.</td><td></td><td>Clause: 2.3 Detailed Scope of Work,<br><br>Pg. No. 185</td><td>2.3.1 Design Basis:<br>Average Flow: 30 MLD<br>Peak Factor: - 3<br>Peak Flow: 90 MLD</td><td>Considering 108 lpcd sewage generation; population equivalent for 30 MLD average flow is<br><br>Table 3.2 Peak factor for Contributory Population<br><table><tr><th>Contributory Population</th><th>Peak Factor</th></tr><tr><td>up to 20,000</td><td>3.00</td></tr><tr><td>Above 20,001 to 50,000</td><td>2.50</td></tr><tr><td>Above 50,001 to 7,50,000</td><td>2.25</td></tr><tr><td>above 7,50,001</td><td>2.00</td></tr></table>Source: CPHEEO, 1993<br><br>around 2,77,780. As per CPHEEO Manual CHAPTER 3: Design And Construction of Sewers, table 3.2, page 3-3, peak factor for above equivalent population Should be 2.25<br><br>Also, with reference to previous tenders of JDA i.e.30 MLD STP at Nevta& 43 MLD STP at Sanjhariya which are under execution, peak factor of 2.25 was specified in the tender.<br><br>Hence, we understand that, for 30 MLD average flow the bidder needs to consider peak factor of 2.25 for process design.</td><td>No change</td></tr>
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<tr><td>13.</td><td></td><td>Clause: 2.3 Detailed Scope of Work<br>Pg. No.<br>185 & 186</td><td>2.3.2 Raw Sewage Quality:
<table>
<tr><th>Sr. No.</th><th>Parameters</th><th>Values</th><th>UOM</th></tr>
<tr><td>1</td><td>pH</td><td>6.5 to 8.0</td><td></td></tr>
<tr><td>2</td><td>Biochemical Oxygen Demand (BOD5)</td><td>600</td><td>mg/l</td></tr>
<tr><td>3</td><td>Chemical Oxygen Demand (COD)</td><td>1100</td><td>mg/l</td></tr>
<tr><td>4</td><td>Total Suspended Solids (TSS)</td><td>600</td><td>mg/l</td></tr>
<tr><td>5</td><td>Total Kjeldahl Nitrogen (TKN)</td><td>70</td><td>mg/l</td></tr>
<tr><td>6</td><td>Total Phosphorous (TP)</td><td>5</td><td>mg/l</td></tr>
<tr><td>7</td><td>Fecal Coliform</td><td>1 x 106</td><td>MPN/100 ml</td></tr>
<tr><td>8</td><td>Total Coliform</td><td>1 x 107</td><td>MPN/100 ml</td></tr>
<tr><td>9</td><td>Sewage Temperature to design biological system</td><td>Min. 18 0C & Max. 30 0C.</td><td></td></tr>
</table></td><td>On comparing with the previous tenders of JDA that are currently under execution; there is a significant increase in the values of BOD & COD that have been specified in tender (Refer below table).
<table>
<tr><th colspan="4"><u>Inlet Parameters for 20 MLD STP at Sushilapura/30 MLD STP at Nevta/ 43 MLD STP at Sanjhariya</u></th></tr>
<tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Raw Sewage Quality</th></tr>
<tr><td>1</td><td>Biochemical oxygen Demand ($BOD_5$ at $20^0$ C)</td><td>mg/l</td><td>330</td></tr>
<tr><td>2</td><td>Chemical Oxygen Demand (COD)</td><td>mg/l</td><td>700</td></tr>
</table>
Hence, we request you to kindly recheck and confirm the sewage characteristics.</td><td>Bid condition prevails.</td></tr>
<tr><td>14.</td><td></td><td>Pg. No. 189</td><td>Pumping machinery shall be designed for 30 MLD average flow and a peak factor of 3.0 & No. of Pumps for present Flow: 1250 m3/hr with Suitable Head (2 working + 2 Standby) + 625 m3/hr with Suitable Head</td><td>Considering the peak factor of 3, the capacities of pumps will be very much higher than actual flow. We request to consider the</td><td>No change</td></tr>
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| | | | (1 working + 1 Standby) | peak factor as 2.25 as per CPHEEO Provisions. Also, we request that pumping machinery will be provided 4 Working + 2 Standby for peak flow/4 flow capacity as per standard practice adopted for other tenders | |
| 15. | | Pg. No. 195 | Cycle times shall be selected adequately by the Bidder considering min. 12 hrs/day Basin of aeration and not exceeding decanting of 2.40 m liquid depth at any time with preferred cycle times containing max. 50% notaerated portion | The tender specifies a maximum decanting depth of 2.4 m. Kindly allow decanting depth as per CPHEEO manual Page 5-198, Table 5.57: -*Typical process parameters for SBR configurations (for unsettled sludge).* Please Confirm. | No change |
| 16. | | Pg. No. 198 | Air Blower shall be Single Stage, Direct Drive, CE/UL certified, Centrifugal type Turbo Blower | It has been witnessed that ***Turbo Blowers are not suitable*** for SBR Technology due to its frequent on/off in each cycle (on account of achieving preset D.O. values) during aeration. Moreover, its capital cost and maintenance cost are huge. Many times, spares are not easily available. In view of the above we request Twin/Tri lobe/ Centrifugal type air blowers shall be allowed for aeration in addition to turbo blowers. Please confirm. | No change |
| 17. | | Pg. No. 206 | 4.2 The dewatering facility shall comprise of: Mechanical Belt Thickener + Belt Filter Press Machine or Volute Press +Polyelectrolyte Dosing System Sludge | In addition to Belt Press we request to allow screw type arrangement for sludge dewatering. Please Confirm. | No change |

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| 18. | | Pg. No. 206 | 4.2 i) Sludge Dewatering Units using COTDM - Maximum Operation Hours per day--12 hours (6 days a week) | We request to allow operating hours for sludge dewatering machine up to 16 hrs per day. Please Confirm. | No change |
| 19. | | Pg. No. 539 | Approved makes; | There is an ambiguity in the type of air blowers to be supplied. from the list of Approved makes, it seems that Twin/Tri Lobe/Centrifugal type air blowers are only accepted. However, in the specifications, Turbo Blowers are also accepted.<br><br>In view of the above, we presume that the bidder may propose Twin/Tri Lobe/Turbo Bower as per his choice. The make for Twin/Tri Lobe Blowers are mentioned in the list and for Turbo Blower Turbomax, Turbowin, Neuros, Aerzon, Howden, siemens may be accepted. Please Confirm. | No change. Bidder may opt. change of make/ provider in unavoidable conditions and with prior approval of EIC. |
| 20. | | Pg. No. 550 | Power Guarantee: - No alternate source like DG Set, Solar etc. for power supplies other than JVVNL shall be entertained for the calculation of guaranteed power requirement and power cost | We request to allow solar power for the operation of the Plant, this will save electricity costs. Please Confirm. | Not agreed |
| 21. | | General | Buildings constructed under contract | As the O & M period is 6 years, the buildings i.e. administrative buildings, workshops, etc. constructed under contract will be allowed for use of the contractor during the O & M period without | May be accepted with due prior approval of EIC. |

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| | | | | any extra cost. Please confirm. | |
| 22. | | General | Site office / Contractors' office provided during the execution of contract | As the O & M period is 6 years, we request the site office/contractor's office provided during construction will be used during the O & M period without demolishing the same | May be accepted with due prior approval of EIC. |
| 23. | | General | Date of Submission: - | Looking at the volume of work involved, we request an extension to the date for submission by 3-4 weeks after receipt of the reply to queries | No change |
| **3** | **Online Queries** | | | | |
| 24. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 4.1 COTDM Feed Sump & Pump House,Page 204 & 4.2 COTDM&COTDM House page 206** | Hydraulic Retention Time: 24 hrs. min. of Average Daily Sludge Production &<br><br>Maximum Operation Hours per day : 12 hours (6 days a week) | The given HRT for Sludge sump is very high. Considering the space provided in tender, kindly allow COTDM running hours as maximum 20 hrs a day and retention time of Sludge sump as minimum 4 hrs.<br><br>Kindly Confirm. | Refer Addendum No.-1, sr. no. 1 |
| 25. | | **VOLUME – II SCOPE OF WORK & TECHNICAL 3.0 DISINFECTION (CHLORINATION) UNITS, page no. 202** | The secondary treated sewage shall be led to Chlorination system for disinfection. Chlorination Units shall consist of Chlorine Contact Tank and Chlorine House & Tonner Room. | Bidder can propose the alternative disinfection system like UV disinfectioninstead of Chlorination system in their process scheme for space saving at site.<br><br>Kindly Confirm. | No change |

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| 26. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS**<br><br>**5.2 HT Panel Room & Transformer Yard Page 209** | Transformer shall be of outdoor type and installed outdoor on RCC platform & provided with fencing. | We understand that the bidder can also propose more compact and safer- dry type - Indoor transformer instead of outdoor type .<br><br>Kindly confirm. | No change |
| **4** | **Online Queries :** | | | | |
| 27. | | Bid Documents, P-33, Clause_2-a & b of Qualification Criteria | MOU/Technology tie up agreement | As per referred tender clause, "It shall be mandatory for the bidders to submit a MOU/Technology tie up agreement duly signed and notarized on a Rs.500.00 non judicial stamp paper with a technology provider who must have a registered company in India fully equipped with trained manpower to extend services as and when required. The technology provider shall have experience of providing SBR technology and technology equipment for at One (1) no STP of 24 MLD capacity or Two (2) STPs each of 15 MLD capacity in India during last seven years and are working satisfactorily for at least three years as on Date and meeting outlet quality as required for proposed STP. The SBR Technology provider shall submit evidence / certificate signed by | No change |

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| | | | | client, not below the rank of Executive Engineer.**"**<br><br>Since as per clause 2-a (Page No.-32) we will provide same type of STP experience as you are required with technology provider, in view of the above you are requested to delete the requirement of MOU/ Technology Tie up agreement with SBR technology provider.<br><br>Please confirm. | |
| 28. | | Bid Documents, P-179, Clause 2.3.1 Design Basis | Peak Factor | As per referred tender documents,<br>• Plant Average Flow – 30 MLD<br>• Peak Factor – 3.0<br>• Peak Flow – 90 MLD<br>Since in tender also mentioned to consider CPHEEO guidelines, and we got an ambiguity to consideration of peak factor, as per CPHEEO guidelines Peak factor should be 2.25 but as per tender document peak is 3.0.<br><br>In view of the above, we are considering 3.0 peak factor to design STP 30 MLD (average flow) plant. Please confirm. | No change |

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| 29. | | Bid Documents, P-179-180, Clause 2.3.2 Design Basis | Raw Sewage Quality | As per referred tender documents,<br>• BOD – 600 mg/l<br>• COD – 1100 mg/l<br>• TSS – 600 mg/l<br>• TKN – 70 mg/l<br>• TP – 5 mg/l<br>Stipulated inlet sewage parameter value is seeming higher than domestic sewage range. we understand that it's a planned scheme in which sewage to be collect from house connections and there is no mix any industries influent in STP.<br>Please confirm. | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 30. | | Bid Documents, P-179, Clause 2.3.1 Design Basis | Incoming Sewer | Please confirm Raw sewage collection from household by sewerage pipe line or by open channel/ drain/ Nallah. | Raw sewage collection is through sewerage pipe line. |
| 31. | | Bid Documents, P-692, Preamble to Price Schedule | O&M | As per referred tender clause, "The Contract is of lump sum turnkey nature on single responsibility basis for conceptualization, design, supply, construction, commissioning, testing, 03 months trial run followed by O&M of 1year and operation and maintenance and repairs for five years thereafter."<br>In view of the above we understand, that total operation and maintenance is for 6 years (1 year cost include in construction & 5 Years cost will be separate) | Time period includes construction Period of 24 Months (including Monsoon) from the commencement date and followed by 03 months trial run & commissioning period followed by performance guarantee test (O&M for 1 year) and Operation & Maintenance (O&M) for 60 months their after, including **36** months defect liability period. |

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| | | | | and contractor can not bill for 1st year operation and maintenance.<br>Please confirm. | |
| 32. | | Bid Documents, P-182, Raw Sewage Sump/ Wet Well | Screw conveyor | As per referred tender clause, "Wet well is to be provided with two compartments so that grit/sand coming along with sewage can be settled in the first compartment, necessary arrangement such as screw conveyor, portable sand dredging pump (with cutter) etc"<br>Please provide technical specification for screw conveyor, portable sand dredging pump (with cutter). | Bid specification is self-explanatory. |
| 33. | | Bid Documents, P-549-550,<br>Power Guarantee Schedule–VI | Power Guarantee | With reference of referred tender clause, "Power Guarantee Schedule–VI".<br>We understand, here bidder will provide guarantee power for 30 MLD Flow.<br>Please confirm. | Bidder's understanding is correct.<br>Also Refer **Annexure-A1** enclosed with Addendum-1 |
| 34. | | Bid Documents, P-548, Clause 2.2<br>Electrical Energy Usage | Functional Guarantees | With reference of referred tender clause, "2.2 Electrical Energy Usage".<br>We understand, here bidder will consider Grand Total of Schedule VI of column Power Consumption (Kw.Hrs./day) X 30 (30 days in a month).<br>Please confirm. | Bidder's understanding is correct.<br>Refer **Annexure-A1** enclosed with Addendum-1 |

<table>
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<tr><td>35.</td><td></td><td>Bid Documents, P-552, Power Guarantee Schedule–VIII</td><td>Power Guarantee</td><td>As per referred table:Present Value of Total Cost of Power for STP, Column A & B.
<table>
<tr><th>Year of Operation Services</th><th>Pres Infl of d</th></tr>
<tr><td colspan="2">A</td></tr>
<tr><td colspan="2">1st Year</td></tr>
<tr><td colspan="2">2nd Year</td></tr>
<tr><td colspan="2">3rd Year</td></tr>
<tr><td colspan="2">4th Year</td></tr>
<tr><td colspan="2">5th Year</td></tr>
<tr><td colspan="2">6th Year</td></tr>
</table>
We understand percentage of design capacity against 30 MLD Flow as mentioned below.
<table>
<tr><th>Year of Operation Services</th><th>Presumed year wise Inflow of Sewage (Percent of design capacity)</th><th>Our Understanding for Column B in Flow against 30 MLD.</th></tr>
<tr><td>A</td><td>B</td><td></td></tr>
<tr><td>1st Year</td><td>25</td><td>30 x 25% = 7.5 MLD</td></tr>
<tr><td>2nd Year</td><td>40</td><td>30 x</td></tr>
</table></td><td>Refer Annexure-A1 enclosed with Addendum-1</td></tr>
</table>

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| | | | | <table><tr><td></td><td></td><td>40% = 12.0 MLD</td></tr><tr><td>3rd Year</td><td>50</td><td>30 x 50% = 15.0 MLD</td></tr><tr><td>4th Year</td><td>60</td><td>30 x 60% = 18.0 MLD</td></tr><tr><td>5th Year</td><td>70</td><td>30 x 70% = 21.0 MLD</td></tr><tr><td>6th Year</td><td>80</td><td>30 x 80% = 24.0 MLD</td></tr></table><br>Please confirm we are taking correct flow for power Guarantee. | |
| 36. | | Bid Documents, P-552, Power Guarantee Schedule–VIII | Power Guarantee | As per referred tender clause, "Example: The value of "C" Column" in above table for 6th year (80% Flow) will be same as Guaranteed Power in ScheduleVII for 80% Flow. The value of "C" column for another year shall be calculated accordingly." Although in Schedule VII is different flow rate means. | Refer **Annexure-A1** enclosed with Addendum-1 |

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| | | | | • Upto 10 MLD<br>• More than 10 &upto 20 MLD<br>• More than 20 MLD<br><br>Both schedule flow is not in same value/ format than how we can provide same power guarantee in both schedules. In Schedule VII Part A & Part B format also differ that can't not match with Schedule VIII.<br>Please provide a common flow rate in both Schedule VII & Schedule VIII. | |
| 37. | | Bid Documents, P-551, Power Guarantee Schedule–VII | Excess power consumption | As per referred tender clause, "2. Excess power consumption in the month shall be recovered from the contractor @ two times of prevailing power rates."<br>Since it`s a Lumsum tender and detailed design will be possible after award of work and there is possibility to change some pumps flow and head and machine operation due to sludge consistency.<br>In view of the above, you are requested, please change above clause and recover by same power rate instead of two times. | No change |

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| 38. | | Bid Documents, Power Guarantee Schedule–VI, VII & VIII | Power Guarantee | As per our understanding, Schedule VI, VII & VIII are common for Sewage Pumping Station and STP and bidder will put both load in a common sheet. Please confirm. | Bid conditions prevails. |
| 39. | | Bid Documents, P-13, Special Condition, Clause No. 33 | Price Adjustment | As per referred tender clause, "Price Escalation: Clause of agreement no. 45 & 45A for Price Escalation variation is not applicable/ payable so deleted." Since there is a lot of price fluctuations in market, and also the contract period is covering 24 months execution we request to incorporate Price adjustment for Construction period. | No price variation is admissible. |
| 40. | | Bid Documents, P-13, Special Condition, Clause No. 33 | Price Escalation | As per referred tender clause, "Price Escalation: Clause of agreement no. 45 & 45A for Price Escalation variation is not applicable/ payable so deleted." You are requested, please allow price variation if construction period extend beyond construction period of tender due to department/ client side. | No price variation is admissible. |
| 41. | | | Land Requirement | As per tender documents, we understand that Government land is available with approachable right of way and department will provide the land to contractor immediately after agreement. | Yes it is available |

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| | | | | Please Confirm. | |
| 42. | | Bid Documents, P-65, Clause 1.16.5.b O&M Cost | Sludge Disposal | Please clarify the distance of sludge disposal from STP Site. | Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies. |
| 43. | | BOQ | O&M Duration and its cost consideration in BOQ sheets. | **According to BOQ Sheet-1,** the scope of work includes design, construction, supply, erection, testing, and a 3-month trial run, as well as one year of operation and maintenance (O&M). **Additionally, BOQ Sheet-2** specifies the operation and maintenance of the entire sewage treatment facilities (excluding electricity) at the site for 5 years after successful commissioning and trial run, including O&M of the entire STP system, including plant acceptance.<br><br>**Therefore, we understand that a total of 6 years of O&M is required. The cost for the first year of O&M is included in BOQ Sheet-1, while the costs for the remaining 5 years of O&M are considered in BOQ Sheet-2. Please Confirm** | Bidder understanding is correct |
| 44. | | VOLUME - II SCOPE OF WORK & TECHNICAL SPECIFICATIONS | DG Capacity (1000 KVA ) | As per the referred tender clause 1.2 Location and plant as mention highlighted in bullet on page no 179 of 601 that " DG sets up to 1000 KVA capacity are required to be supplied with acoustic enclosure as per CPCB norms. Cost of diesel will be borne by agency itself."<br>**We understand that capacity of DG(1000KVA ) is Tentative. We** | Bid conditions prevail |

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| | | | | **shall propose DG as per actual load as per process requirement. Please Confirm** | |
| 45. | | VOLUME - II SCOPE OF WORK & TECHNICAL SPECIFICATIONS | Cost of diesel For O&M period | As per the referred tender clause 1.2 Location and plant as mention highlighted in bullet on page no 179 of 601 that " DG sets up to 1000 KVA capacity are required to be supplied with acoustic enclosure as per CPCB norms. **Cost of diesel will be borne by agency itself.**"<br>**Therefore, please confirm the average daily power cut time required for plant operation.** | Bidders are advised to assess such data. |
| 46. | | VOLUME - II SCOPE OF WORK & TECHNICAL SPECIFICATIONS | Incoming HT Power Supply Nearby Source to the STP and voltage level | As per tender page 215 of 601 under scope of electrical and instrumentation work as mention that "A 33 KV HT Power Supply from State Electricity Authority (Jaipur Vidyut Vitaran Nigam) based on the maximum demand load from nearby Source to the entrance of STP Site shall be arranged by Employer. Permanent power connection shall be in the name of Secretary, JDA-Jaipur. The Employer will pay the charges for obtaining the above connection including necessary liasoning for the same. Contractor scope shall start from outgoing of energy meter.<br>**We Understand that Incoming Volatge level is 33 KV and our scope start from energy meter. Please confirm** | 33 KV Power shall be made available near the entrance and the bidder's scope shall start from outgoing of the meter. |
| 47. | | VOLUME - II SCOPE OF WORK & TECHNICAL SPECIFICATIONS | Method of starting Clarification | Motor Starting method which mention on Page no 523 of 616 under Motor technical parameter Read as per By variable speed drive (For | Bid Conditions prevail and VFDs shall be provided to meet the process requirements. |

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| | | | | Blower/compressor /Return Sludge Pumps, Compressor)<br>Direct on line- for motors upto 3.7kW.<br>Star-Delta (Close transition type) –For motors above 3.7kW and upto 75kW,<br>Soft Starter – For motors above 75kW or as per process requirements<br>**Please Confirm** | |
| 48. | | VOLUME - II<br>SCOPE OF WORK & TECHNICAL SPECIFICATIONS | Existing OCEMS Server Detail Required for CPCB and RSSPCB servers | As per the referred tender clause 1.2 Location and plant as mention highlighted in bullet on page no 179 of 601 "The OCEMS suppliers have to provide central server at cloud operational on 24x7 basis and to provide online data connectivity with CPCB and RSSPCB servers"<br>**Kindly confirm the existing server detail**<br>**Please Confirm** | Integration shall be with CPCB/RSPCB as per bid stipulations. |
| 49. | | cl-7.2.1.2 | Material Clay Brick | As per referred clause, it is mentioned that "Common burnt clay building bricks shall conform to the requirements of IS 1077 and shall be of quality not less than class 50 with moisture absorption rate not exceeding 15% as defined in IS :1077. The bricks shall be chamber burnt and shall not be damaged in any manner and sizes shall conform to the works sizes specified with tolerance as given in 6.2 of IS:1077.<br>We request you to kindly allow Fly ash bricks also in all building works. | No change |

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| 50. | | Cl 1.7.9 | Approach Road | **Please Confirm which type of approach Road will be make ( BT OR CC)** | Bid condition prevails. |
| 51. | | **General** | Trenchless crossing | Trenchless crossing not mentioned anywhere in the Document. Please clarify. | As per site conditions and requirement. |
| 52. | | cl-3.3.12 | Steel MATERIALS IN GENERAL | Requested you to confirm the approved make of TMT BAR (TATA, SAIL, RINL, JINDAL or etc). | As per approved makes in bid document. |
| 53. | | 2.7 page 226 | Disposal of sludge | As per referred tender clause, "Transportation and disposal of screening, grit and dewatered sludge cake as specified in Employer's Requirements. Contractor to identify the land for disposal or any means of disposal". As plant is existing so please mention in tender documents maximum distance for sludge disposal point to keep all bidders at par.<br>Please confirm. | Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies. |
| 54. | | 2.7 page 226 | Disposal of sludge | As per referred tender clause, "Transportation and disposal of screening, grit and dewatered sludge cake as specified in Employer's Requirements. Contractor to identify the land for disposal or any means of disposal". We understand that department will provide land approval at free of cost for sludge | Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies.<br>Contractor shall strictly note that sludge shall be safely disposed off to disposal site **in a vehicle having provision of suitable coverings** at his own arrangements & cost**.** |

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| | | | | disposal. Also we understand that disposal fee (if any) for disposal of sludge at identified site will be in the scope of Employer.<br>Please confirm. | |
| 55. | | cl-3.3.1 | Materials – Cement -Approved Brand | As per referred clause, it is mentioned that "Unless otherwise called for by the Engineer, cement shall be ordinary Portland cement conforming to IS: 269. Where Portland pozzolana or slag cements are used, it shall be ensured that consistency of quality is maintained, there will be no adverse interactions between the materials and the finish specified is not marred.<br>We request you to kindly confirmed approved Brand of Cement from reputed manufacturers such as Ultratech, J.K. L&T, ACC, Gujarat Abuja, Cement Corporation of India, Vikram, J.P. etc." | As per approved makes in bid document. |
| 56. | | ANNEXURE '1'-page 14 | | As per referred tender clause, "The Contractor shall obtain all permits required for carrying out works such as excavation on public roads and shall liaise with | Bid condition prevails. |
| **5** | **Online queries :** | | | | |
| 57. | | At page no. 185 | | Inlet Parameters like BOD, COD and TSS is very high Aprox just double as per standard General | Bid conditions prevails. |

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| | | | | Sewage Parameters Clarify it. | |
| 58. | | At page no. 186 | | Inlet parameters of raw sewage at page no. 186 like BOD (600), COD (1100) and TSS (600) are given very high it is Aprox just double as General/Standard raw sewage parameters Clarify it. | No change |
| 59. | | | | Please provide AutoCAD drawings of land to know the dimensions (width & length) | Drawings given in bid document are indicative only. Bidder shall develop his own drawings based on actual site conditions. |
| 60. | | | | If bidder is bidding in joint venture than is it compulsory for both members to be registered in AA Class or equivalent in other Govt. Department or Lead member solely having AA Class registration is sufficient? | Both members should be registered in AA class or equivalent. |
| 61. | | | | Out Question under section 2 (a) (page 32) of Qualification Criteria is –<br>"The works which have been completed during the period mentioned above, (last seven financial years) though may have commenced earlier, shall be considered for experience under section 2.<br>"The work which consists of Designed, Constructed, Erected and Commissioned sewage treatment plants based on SBR Technology in India which was commenced/started before last seven financial years and completed/commissioned during | No change, bid condition prevails |

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| | | | | last seven financial year can be considered under qualification criteria? | |
| 62. | | | | For affidavit, undertaking, bank guarantees, etc non judicial stamp paper of any state will work? | Non judicial stamp paper should be of Rajasthan state only. |
| **6** | **Online queries :** | | | | |
| 63. | | **SPECIAL CONDITION OF THE CONTRACT FOR PRE-QUALIFICATION OF CONTRACTORS, 2. Qualification criteria, ii(b), Page 33.** | It shall be mandatory for the bidders to submit a MOU/Technology tie up agreement duly signed and notarized on a Rs.500.00 non judicial stamp paper with a technology provider who must have a registered company in India fully equipped with trained manpower to extend services as and when required.<br><br>The technology provider shall have experience of providing SBR technology and technology equipment for at One (1) no STP of 24 MLD capacity or Two (2) STPs each of 15 MLD capacity in India during last seven years and are working satisfactorily for at least three years as on Date and meeting outlet quality as required for proposed STP. | As per the qualification criteria specified in tender, SBR technology provider needs to submit the required STP experience certificates that meet the outlet quality as required for proposed STP.<br>We understand that the said plants also needed to be designed for the outlet quality. To establish that the Plant is designed for the required treated outlet quality, relevant pages of tender document shall also be attached along with experience certificates.<br>Kindly confirm. | No change |
| 64. | | **Volume-II Scope of Work & Technical Specifications, Clause : 2.3 Detailed Scope of Work, Page 185** | 2.3.1 Design Basis:<br>Average Flow: 30 MLD<br>Peak Factor: - 3<br>Peak Flow: 90 MLD | Considering 108 lpcd sewage generation ; population equivalent for 30 MLD average flow is around<br><br>Table 3.2 Peak factor for Contributory Population<br>Contributory Population \| Peak Factor<br>up to 20,000 \| 3.00<br>Above 20,001 to 50,000 \| 2.50<br>Above 50,001 to 7,50,000 \| 2.25<br>above 7,50,001 \| 2.00<br>Source: CPHEEO, 1993 | No change |

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<tr><td></td><td></td><td></td><td></td><td>2,77,780. As per CPHEEO Manual CHAPTER 3: Design And Construction of Sewers, table 3.2, page 3-3, peak factor for above equivalent population Should be 2.25<br><br>Also, with reference to previous tenders of JDA i.e 30 MLD STP at Nevta&43 MLD STP at Sanjhariya which are under execution, peak factor of 2.25 was specified in the tender .<br><br>Hence, we understand that, for 30 MLD average flow the bidder needs to consider peak factor of 2.25 for process design.<br><br>Kindly Confirm.</td><td></td></tr>
<tr><td>65.</td><td></td><td>Volume-II Scope of Work & Technical Specifications, Clause : 2.3 Detailed Scope of Work, Page 185</td><td>2.3.2 Raw Sewage Quality:<br><table><tr><td>Sr. No.</td><td>Parameters</td><td>Values</td><td>UOM</td></tr><tr><td>1</td><td>pH</td><td>6.5 to 8.0</td><td></td></tr><tr><td>2</td><td>Biochemical Oxygen Demand (BOD5)</td><td>600</td><td>mg/l</td></tr><tr><td>3</td><td>Chemical Oxygen Demand (COD)</td><td>1100</td><td>mg/l</td></tr></table></td><td>On comparing with the previous tenders of JDA that are currently under execution; there is a significant increase in the values of BOD & COD that have been specified in tender (Refer below table).<br><br><u>Inlet Parameters for 20 MLD STP at Sushilapura/30 MLD STP at Nevta/ 43 MLD STP at Sanjhariya</u><table><tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Raw Sewage Quality</th></tr><tr><td>1</td><td>Biochemical</td><td>mg</td><td>330</td></tr></table></td><td>No change</td></tr>
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| | | | | <table><tr><td></td><td>Oxygen Demand ($BOD_5$ at $20^0$ C)</td><td>/l</td><td></td></tr><tr><td>2</td><td>Chemical Oxygen Demand (COD)</td><td>mg /l</td><td>700</td></tr></table> Hence, we request you to kindly recheck and confirm the sewage characteristics. | |
| 66. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.2 Sequential Batch Reactor (SBR) Units/ Process Design,Page 195** | Cycle times shall be selected adequately by the Bidder considering min. 12 hrs/day Basin of aeration and not exceeding decanting of 2.40 m liquid depth at any time with preferred cycle times containing max. 50% not aerated portion. | Tender specifies maximum decanting depth of 2.4 m.<br>Kindly allow decanting depth as per CPHEEO manual Page 5-198, Table 5.57 :- *Typical process parameters for SBR configurations (for unsettled sludge)*<br><br>Please confirm | No change |
| 67. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.4 Aeration System,Page 198** | Air Blower shall be Single Stage, Direct Drive, CE/UL certified, Centrifugal type Turbo Blower consisting of Air Bearings, Impeller, high-speed PMSM Motor, Inverter, Controller and Cooling System…… Control panel for air blower shall be separate from blower assembly and be placed in separate air-conditioned room. | As per tender control panel of air blower shall be placed in separate air – conditioned room.<br>However, considering the continuous improvements in blower designs, please allow the bidder to offer integrated blower and control panel unit which will be placed in single room as per vendor design.<br><br>Kindly confirm. | No change |

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| 68. | | **6. Approved makes; Page 539** | | We understand that, the tender calls for turbo blowers. However, the aforesaid clause only provides approved makes for roots blower and not for Turbo blowers.<br><br>Hence, we understand that Turbo blowers of reputed makes like Turbomax, Howden, Siemens are acceptable.<br><br>Kindly Confirm. | No change. Bidder may opt. change of make/ provider in unavoidable conditions and with prior approval of EIC. |
| **7** | **Online queries :** | | | | |
| 69. | | 173 | Plot Size | Plot size of 9870 sq. m can be insufficient for 30 MLD STP (since the land is in trapezoidal form), considering the inclusion of mandatory units as per tender and the capacity of the plant | No change |
| 70. | | 180 | Raw sewage parameters | The values of BOD, COD, TSS, TN are very high compared to normal sewage, so there may be chances of infiltration of industrial waste. In this case normal biological treatment scheme as proposed in tender volumes might not be feasible to achieve the treated water parameters. Hence request to confirm the values or give liberty to the contractor to adopt treatment scheme as per his design | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 71. | | 197 | Gas Chlorination | Gas chlorination with all leak absorption system is mentioned in tender which can be hazardous & fatal in case of accidents is not taken | No change |

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| | | | | care properly, so we request to allow other means of disinfection like Sodium hypochlorite dosing which is much easier & non fatal | |
| 72. | | 200 | COTDM | Combined thickening & dewatering is mentioned, however we request to allow bidder to choose the thickening & dewatering machine, like Volute Press (which works as a combined equipment for both thickening and sludge dewatering) based on the process design | No change |
| **8** | **Online queries :** | | | | |
| 73. | | 101 | Price variations Clause: Deleted | We request you to consider price variation for this work. | No change |
| 74. | | | Mobilization Advance | We request you to kindly provide interest free mobilization advance 10% of contract value, as it benefits to client for faster mobilization and execution of project. | Not Agreed |
| 75. | | - | General | Please specify distance of terminal manhole from STP site and also mark the location of manhole so that pumping station can be placed accordingly. | Drawings given in bid document are indicative only. Bidder shall develop his own drawings based on actual site conditions |
| 76. | | 185 | Design basis chart | Please confirm the length of incoming sewer line from last manhole chamber to inlet chamber of MPS. | Drawings given in bid document are indicative only. Bidder shall develop his own drawings based on actual site conditions |

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| 77. | | 180 | Providing SS Hand Railing (min. 2 Rows) along all the Stairs and Walkways of all Process Units. | Please provide details and specification of typical hand railing | It shall be as per bidder's design approved by Employer Representative during execution of the project. |
| 78. | | - | General | Request you to provide the contour drawing of STP area. | Drawings given in bid document are indicative only. Bidder shall develop his own drawings based on actual site conditions |
| 79. | | 182 | Raw sewage pumping station of 30 MLD capacity<br><br>Wet well is to be provided with two compartments so that grit/sand coming along with sewage can be settled in the first compartment, necessary arrangement such as screw conveyor, portable sand dredging pump (with cutter) etc. for removal of grit/sand from well with motor and other accessories for periodical clearing should be provided with standby arrangement. | We kindly request you to clarify that provision of screw conveyor, portable sand dredging pump (with cutter) is mandatory. If it is mandatory provide Specification & MOC details for the same. | No change |
| 80. | | 178 | Disposal of treated sewage into nearby channel/ Nallah leading to Nevta Dam. The work of outfall treated water line of 1200mm dia & approx. 1.50 km length from the STP to the channel/ Nallah leading to Nevta Dam shall be in the scope of contractor. | Please provide Invert level of Nallah / channel. | Bidder shall develop his own drawings based on actual site conditions. |
| 81. | | 222<br><br>459 | Screw pumps will be used to feed sludge to Centrifuge. These will operate as per level in sludge sump.<br><br>1.8.19 COTDM (Combined Thickening & Dewatering Machine)<br>A combination of sludge thickener mechanism and mechanical sludge dewatering using belt filter press shall be provided for sludge dewatering. | We request you to kindly clarify on whether COTDM (Combined Thickening & Dewatering Machine) is mandatory or bidder has freedom to choose as per his consideration. | No change |

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| 82. | | 173 | Landscaping / plantation for entire plot of the STP (area approx. 9870 Sqm). | We kindly request your consideration to increase the area allocated for the proposed STP plant. The current area is insufficient to accommodate the plant using SBR Technology. | No change |
| 83. | | 188 | Size of grit particle : 0.10 mm and above<br>Maximum Surface Overflow Rate : 250 m3/m2/day | We kindly request clarification on the Surface Overflow Rate as stated in the CPHEEO manual specifies 1555 m3/m2/day for particles of 0.15 mm grit size. | No change |
| 84. | | - | Electrical panels | We request you please accept CPRI / ERDA certified vendor & OEM authorized system house for electrical panels. | Bid Conditions prevail. |
| 85. | | - | Electrical panel | We request you please accept authorized system house vendor for HT panel. | Bid Conditions prevail. |
| 86. | | 74 | Local issue | We presume that any local issue occurs while executing the work, it will be the responsibility of client to resolve the same. | Bid Conditions prevail. |
| 87. | | 74 | Availability of Land for STP & Allied works | We understand that land required for STPs and<br>allied works is in possession of JDA. Any delay in accounts of acquisition of land/sites will allow extension of time limit without any penalty.<br>Please confirm | Bid Conditions prevail. |

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| 88. | | 179 | The statutory payments or fees made to local/statutory bodies shall be reimbursed by on production of proof of such payments. | We understand that the security deposit, all statutory fees pertain to NOCs from various departments such as Electricity Department, Pollution Control Board, Fire Department, Environmental Clearance or any other department related to this project, shall be in the employer scope.<br>Please confirm. | The Employer will pay the charges for obtaining the above NOC's/ connection as per bid conditions. |
| 89. | | 207 | Solar system | We request you please provide selection criteria & technical specification of solar system. Also confirm how much load will have to cater on solar system out of our total plant load. | Bid Conditions prevail. |
| 90. | | 214 | Power supply charges | We understand that the security deposit, all statutory fees pertain to main electric connection, shall be in the employer scope. Please confirm. | The Employer will pay the charges for obtaining the above NOC's/ connection as per bid conditions. |
| 91. | | 533 | **DC Equipment-**<br>Battery & Battery Charger.<br>One no. 110 V Nickel Cadmium type Battery (Minimum capacity of Battery– 200AH)<br>Two nos. Float-cum-boost chargers for 110 V battery. | Inbuilt Power pack can be considered for HT<br>Panels in Place of Battery & Battery charger to<br>avoid High Maintenance & Low life of battery &<br>battery charger.<br>Please confirm. | No change |

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| 92. | | 539 | **Variable Frequency Drives (VFD)**<br>Each drive must have a soft starting feature and a bypass arrangement for DOL starting of motors. All frequency dives shall be suitable for data connectivity with PLC/SCADA system and shall have suitable for data connectivity with PLC/SCADA system and shall have communication port and protocol compatible to PLC. The drives must be easily programmable. The drives shall be provided with surge protection, programmable lockable code. The Frequency drive shall have following characteristics: | Any VFD Manufacturer does not have this inbuilt feature of by-pass, Also motor manufacture does not allow to operate VFD driven motor over DOL starter and DOL driven<br>motor over VFD.<br>Therefore, Kindly allow VFD without any bypass arrangement. | Bid conditions shall prevail and plant operational scheme shall be decided during detail engineering,<br>A bypass arrangement for star delta starter starting of motor in place of DOL is applicable. |
| 93. | | 560 | Diesel charges | we understand that diesel charges is in Employers scope for DG set running in operation and maintenance period, if diesel charges is not in employers scope in o&m period then please confirm the daily power cut hours to be considered, so that we can calculate the diesel consumption for DG set.<br>Please confirm. | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 94. | | 560 | DG Set | Kindly confirm the DG Set as a standby power backup for 100% load & capacity up to 1000 KVA, or bidder has the freedom to select the DG set's capacity based on the engineering design and actual load list. | No change |

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| 95. | | 620 | Electricity charges | We understand that Electricity charges is in Employer's scope in commissioning and trial run period.<br>Please confirm. | No, Employer shall only provide power during (1+5) year of O&M period after 3 months trial run & commissioning. |
| **9** | **Online queries :** | | | | |
| 96. | | 05 of 601 | Amount (INR) : 2% (Rs. 1,16,32,180/-) for AA Class contractor registered in other department and 0.5% (29,08,045.00/-) for AA Class contractor enlisted in JDA. In case of JV 2% shall be deposited by bidder (Joint Venture Firm).<br>Eligibility: Bidder who is AA Class or equivalent contractor registered in other Govt. Department and Bidder registered as contractor in AA in JDA. | Bid Security requested is on a higher side in compared to the other tenders in Govt. of India and State Govt. Tenders wherein adopted in leading municipalities EMD sought is @ 1% of Estimated works Contract.<br>Thus, we request bidder who already registered / enlisted with other state Govt. needs to deposit the Bid Security of 1% of Estimated works of contract.<br><br>Please confirm. | No change |
| 97. | | 11 of 601 | Special Condition (Schedule – H)<br><br>11. The rates provided in the Bidding documents are inclusive of all Taxes and royalties otherwise specified. | As on the page no. 571 of 601 ("Payment shall be reimbursed for any new Tax or any increase in Tax during execution of the work")<br><br>Tax rates fluctuation is not admissible, thus request you to kindly ask the price of work without GST and at the time of payment employer can pay to bidder at the rate of current tax slab.<br><br>Please consider. | The Bidder shall include in his Price Bid, Trade Tax, Income Tax, GST, any surcharge and all other Central Govt. and State Govt. Taxes and Duties as applicable. Any payment will not be reimbursed for any new Tax or any increase in Tax during execution of the Works. |

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| 98. | | 13 of 601 | 33. Price Escalation: Clause of agreement no. 45& 45A for Price Escalation variation is not applicable/payable so deleted. | Being the said project completion timeline is 24 months and Price escalation must be introduced in this contract due to escalation in goods rate.<br><br>Please consider. | No change |
| 99. | | 17 of 601 | Specified Bank Guarantee Performa for Bid Security (Section – 6) | Kindly provide the completed **BENEFICIARY NAME & BANK DETAILS** for making Bank Guarantee for EMD.<br><br>Account Holder's Name<br>Account Number<br>Bank Name and Address with Area Pin code<br>IFSC Code<br>MICR Code | It is as per "Specified Bank Guarantee Performa for Bid Security" (form of bank guarantee, section 6) annex. 2A, pg. no. 17-18 of bid document.<br><br>**JDA accounts details:**<br><br>Secretary, Jaipur Development Authority, Jaipur<br>ICICI Bank, JDA Campus, Jaipur through ISFC code No ICICI 0006754.<br>Bank Account No. 675401700518 |
| 100. | | 17 of 601 | The amount covered under the above **Bank Guarantee shall be automatically credited** in the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through ISFC code No ICICI 006754. Bank Account No. 675401700518 on the date of expiry or its validity, unless the agencies get it re-validated well before its expiry date or produce NOC from JDA in writing for its release. | It seems automatically credited clause is not fair to unsuccessful bidder. Should be applicable only for those who wouldn't submit the required PBG of awarded value.<br>For the automatically credited clause Bidders have to deposit hard cash for the required EMD amount which is very difficult to arrange resulted many of bidder can't participate in the bidding and competition would be less.<br><br>Keeping in the mind, we request kindly delete the said clause and enable the bidders to participate in the bidding. | No change,<br><br>**JDA accounts details:**<br><br>Secretary, Jaipur Development Authority, Jaipur<br>ICICI Bank, JDA Campus, Jaipur through ISFC code No ICICI 0006754.<br>Bank Account No. 675401700518 |

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| 101. | | 32 of 601 | 2. Qualification Criteria:<br>Criteria for Pre-Qualification would be as follows: -<br>(a) The bidder must have completed following STPs work based on SBR technology in last Seven financial year. However, the bidder may opt. current year in the said financial assessment period. | We understand if the work's execution part started before last 7 years and successfully completed within the last 7 Years. Said project will be considered for qualification.<br><br>Please confirm. | Not agreed, it should be within last 7 year duration as per bid conditions. |
| 102. | | 58 of 601 | 1.3 Site Visit | For the Site specified in the tender document, we understand that the Specified Land at Site is under possession of JDA and is free from all legal hindrances and CTE is already taken by the JDA. Same shall be handed over to the contractor within 15 days of execution of contract agreement.<br><br>Please Confirm. | Confirmed |
| 103. | | 34 of 601 | **SPECIAL CONDITION OF THE CONTRACT FOR – 2. G (Litigation History)**<br><br>Bidder should provide accurate information on any litigation orarbitration resulting from contracts completed or under execution by him over the last Sevenyears. The maximum value (updated at the present price level) **of disputed amount claimed in the litigation/arbitration resulting from contracts executed in last Seven years shall be deducted from the calculated Bid Capacity of the bidder.** The details shall be furnished inSchedule VI. | As per General Practice in tender for calculating Bid capacity through Existing Commitments and Ongoing work– only remaining amount of work is considered.<br><br>Any such penalty imposed and settled in regards to arbitration proceedings in past seven years can never be the criteria to adjust the current bid capacity calculated as on date.<br><br>It is thus requested you to kindly remove this unnecessary<br>clause to calculate the Bid Capacity. | No change |

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| 104. | | 40 of 601 | **SCHEDULE-IV**<br>**(Reference clause 3(e)**<br>DETAILS OF MAXIMUM VALUE OF CIVIL WORKS EXECUTED IN ANY ONE YEAR DURING LAST SEVEN YEARS. | Schedule – IV is not correct as in this format requests "Value of Civil work done during the each F.Y. for particular work."<br><br>Request you to kindly amend this schedule – IV and in place a "CA Certified Format" to be used where Yearly based Civil work done in each F.Y. must be asked from the bidder. | No change |
| 105. | | 44 of 601 | Schedule- VIII (Reference clause 3(J)<br>Details Regarding Evaluation Criteria<br><br>5. The bidder should have completed at least one similar nature work in last seven financial year (including current year, if opted by the bidder) of value not less than 50% of the estimated cost of the work (Bid cost) updated to present price level. | It seems this clause is an irrelevant for qualification point of view, please delete the said clause and update the Schedule – VIII.<br><br>Please do. | No change |
| 106. | | 65 of 601 | | In the said contract there are contradiction Electricity & Chemical consumption in whose scope.<br><br>We und | Refer Addendum No.-1, sr. no. 3 |
| 107. | | 76 of 601 | Memorandum | Is this Memorandum need to be submitted with Bid?<br><br>Please confirm? | Confirm |
| 108. | | 78 of 601 | Performance Guarantee & Security Deposit<br><br>Security Deposit – 3% | As (Page no. 99 of 601) Clause 37 (g) clearly mentioned (SD for O&M period shall be deducted as 10% per running bills) and no need to submit Bank Guarantee for the same. | Bid conditions prevails. |

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| | | | | As per the Finance (G&T) Department GOR Notification Dated 18.12.2020 (Page no. 78 of 601) and same Notice is still applicable for this contract.<br><br>Above notice stated Security Deposit for work is 3% for Capex work.<br><br>Therefore, we understand that required Security Deposit for this work is 3% of Capital Cost only. If the bidder submitted 3% of Capital cost Bank Guarantee in that case there will not be any deduction from running Bill.<br><br>Please confirm. | |
| 109. | | 580 of 601 | Liquidated Damages for failure in performance<br>During **Retention Period of 12 months** and O&M period of 5 years, The Employer will impose following penalties/liquidated damages for not maintaining the guaranteed parameters, as described below: | What is the Retention Period of 12 Months?<br><br>Kindly Elaborate? | It is 1 year of O&M after 3 months trial run and commissioning. |
| 110. | | 571 of 601 | Any payment will not be reimbursed for any new Tax or any increase in Tax during execution of the Works. | Please amend this clause as<br><br>"Payment shall be reimbursed for any new Tax or any increase in Tax during execution of the work" | No change |
| 111. | | 577 of 601 | Price Schedule – B<br><br>Summary of Schedule of Price | We understand that an unpriced price bid letter can be<br>Submitted with Technical Bid.<br><br>Please confirm. | Not change |

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| 112. | | 669 of 601 | It is to be noted that all costs during the O&M period, excluding the cost of power and chlorine are to be borne by the Contractor. | We understand Power and Chlorine consumption during Trial run and OPEX period in the scope of Employer.<br><br>Please confirm. | Refer Addendum No.-1, sr. no. 3 |
| 113. | | 222 of 601 | Clause no. 2.13 (O&M Cost)<br>Diesel cost in Bidder's scope | Please update the Total running hours in a Day, so that cost of diesel can be calculated and Bidder shall be entitled for reimbursement for the same.<br><br>Please confirm. | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 114. | | 566 of 601 | Parat – 3<br>The power bills shall be refunded by the Employer as per actual after check for the power guarantee compliance. | Both Clause about Electricity Payment are contradicted from each other.<br><br>We understand during O&M Period Electricity bill payment shall be paid by the Contractor to Electricity Authority and same shall be refunded to Contractor up to the Guaranteed Electricity consumption.<br><br>Kindly update after paying the Electricity Bill within how much time period Contractor will get the reimbursement.<br><br>Please confirm. | It shall be responsibility of the contractor to liaison with JVVNL for power bills and other issues. Monthly power supply charges to JVVNL for (1+5) year O&M period shall be paid by JDA.<br>Late fee/power factor/power guarantee recovery shall be on part of the contractor. |
| 115. | | - | Non-Judicial Stamp Paper | As in the Tender documents required stamp papers for MOU/Affidavit/POA etc. we understand bidder can use the stamp paper of that origin where | Non judicial stamp paper should be of Rajasthan state only. |

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| | | | | the company is registered.<br><br>Please confirm. | |
| 116. | | - | Sludge Disposal | Please update the exact distance and place to dump the sludge and grit generated from the plant.<br><br>Please update. | Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies. |
| 117. | | 12 of 601 | **Clause 25 of Special Conditions:**<br>"All the applicable permits/NOC's/Traffic diversion permission shall have to be arrange and borne by the bidder at their own cost." | We believe that CTE is an employer scope of work and has already been in place and all compliances with to the same are completed by the Employer.<br><br>Please confirm. | Bid condition prevails. |
| 118. | | 12 of 601 | **Clause 30 & 33 of Special Conditions:**<br>The rates quoted/negotiated shall be firm. No price variation is admissible.<br><br>**&**<br><br>**Price Escalation:** Clause of agreement no. 45& 45A for Price Escalation variation is not applicable/ payable so deleted | Keeping in mind to fluctuations in the market for the contract period in the bid price, so we understand escalation would must be granted for Capex work into account of (Steel, Cement etc & Opex work into account of Labour cost escalation.<br><br>Please Confirm. | No change |
| 119. | | 69 of 601 | **Clause 23 of Contract Agreement:**<br>**Standing committee for settlement of disputes**<br><br>"…the dispute arising out of the contract be referred to a Standing Committee upon payment of nonrefundable prescribed fee, (the fee would be two percent of the amount in dispute, not exceeding Rs. One lac) from the contractor & the Engineer shall refer the disputes to the committee within a period of three months from the date of receipt of application". | Dispute settlement committee fee at rate of 2 % and not exceeding Rs. One Lakh. As mentioned, the whole amount would be recovered from Contractor which is unfair clause.<br><br>We may request you to kindly delete the said clause or the fee of dispute settlement should be equally divided between Employer & Contractor. | No change |

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| | | | | Please amend. | |
| 120. | | 90 of 601 | **Clause 13 of the Conditions of Contract:**<br>**No compensation for alteration in or restriction of work to be carried out**<br><br>If at any time after the commencement of the work the Jaipur Development Authority shall, for any reason, whatsoever, not require the whole work, thereof, as specified in the bid, to be carried out, the Engineer-in-charge shall give notice, in writing of the fact to the contractor, who shall have no claim to any payments or compensation, whatsoever, on account of any profit or advantage, which he might have derived from the execution of the work in full | This clause is a unfair to contractor, if such circumstances comes during the execution then contractor is eligible for compensation.<br><br>Please confirm. | Bid conditions prevails. |
| 121. | | 101 of 601 | **Clause 46 of the Conditions of Contract:**<br>**Force Majeure** | In this Clause, "force majeure" means an event beyond the control of the Employer and the Contractor, which makes it impossible or illegal for a party to perform, Including but not limited to:<br>(a) Act of God;<br>(b) War, hostilities (whether war be declared or not), invasion, act of foreign enemies, mobilization, requisition, or embargo;<br>(c) Rebellion, revolution, insurrection, or military or usurped power, or civil war;<br>(d) Contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous | No change |

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| | | | | properties of any explosive nuclear assembly or nuclear component of such assembly;<br>(e) Riot, commotion or disorder, unless restricted to employees of the Contractor or of his Subcontractors.<br><br>Payment to contractor If, in consequence of force majeure, the Works shall suffer loss or damage, the Contractor shall be entitled to have included, in an Interim – Payment Certificate, the Cost of work executed in accordance with the Contract, prior to the event of force majeure. If the Contractor incurs additional Cost in complying with the works, such Cost shall be determined by the Employer's Representative in accordance with the provisions.<br><br>Please consider. | |
| 122. | | 103 of 601 | **Clause 51 of the Conditions of Contract: Jurisdiction**<br><br>In the event of any dispute arising between the parties hereto in respect of any of the matters comprised in this agreement the same shall be settled by a competent court having jurisdiction over the place where agreement is executed and by no other court after completion of proceeding under clause 23 of this contract | It seems the tender doesn't have the Arbitration as a process of dispute resolution.<br><br>Thus, request kindly include Arbitration clause before approaching to court for adjudication.<br><br>Please consider. | Bid conditions prevails |

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| 123. | | 124 of 601 | **Clause 3.10 of the Other Conditions of Contract: Delay**<br>Failure or delay by the Employer or the Engineer, to hand over to the Contractor the Site necessary for execution of Works, or any part of the Works, or to give necessary notice to commence the Works, or to provide necessary Drawings or instructions or clarifications or to supply any material, plant or machinery, which under the Contract, is the responsibility of the Employer, shall in no way affect or vitiate the Contract or alter the character thereof; or entitle the Contractor to damages or compensation thereof but in any such case, the Engineer shall extend the time period for the completion of the Contract, as in his opinion is / are reasonable. | We request kindly do the modification in the said clause. "if the work got delay due to Employer's reason in that case Bidder will be entitled to claim necessary amount for delay instead of extension of time by Employer.<br><br>If the delay occurred and Employer extend the timeline in that case all Work schedule would be hampered and resulted which the whole work will be delayed.<br><br>Please do the necessary changes. | Bid conditions prevails |
| 124. | | 222 of 601 | **Contract Period**<br>The total Contract Period shall be as follows:<br>Construction Period : 24Months (including Monsoon)<br>Trial Run & Commissioning Period: 03 months<br>O&M Period (by bidder ) : 1 year<br>O&M Period : 60 Months including 36 months defect liability period | In the general practices most of the tender DLP period is 12 months from the date of construction work completion.<br><br>Thus, request you to kindly keep it 12 months instead of 36 months which is appropriate time duration to examine the work quality and should be affect immediate after the completion of the construction period.<br><br>Please consider. | No change |
| 125. | | - | **Limitation of Liability & Consequential Damages** | **Limitation of Liability**<br>The Contractor shall in no event be liable to the Employer, by way of indemnity or by reason of any breach of the Contact or in tort or otherwise, for loss of use of any | Bid conditions prevails |

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| | | | | part (or all) of the Works or for loss of production, loss of profit or loss of any contract or for any indirect special or consequential loss or damage which may be suffered by the Employer in connection with the Contract. The total liability of the Contractor to the Employer under the Contract shall not exceed the Contract Price.<br><br>**Consequential Damages**<br>If the Contractor suffers delay and/or incurs Cost in following the Employer's Representative's instructions and in resumption of the work, and if such delay and/or Cost was not (by the Base Date) foreseeable by an experienced contractor, the Contractor shall give notice to the Employer's Representative, with a copy to the Employer. After receipt of such notice the Employer's Representative shall proceed in accordanceto agree or determine any extension of time to which the Contractor is entitled and shall notify the Contractor accordingly. Except that the Contractor shall not be entitled to such extension and payment of Cost if the suspension is due to a cause attributable to the Contractor, or is necessitated by a Contractor's risk as defined.<br>The Contractor shall not be entitled | |

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| | | | | to extension of time for making good any deterioration, defect or loss caused by faulty design, workmanship or materials, or by the Contractor's failure.<br><br>Please Do. | |
| 126. | | - | **Advance Payment** | There's no provision for Advance Payment, being a huge cost involvement project in CAPEX and OPEX. Thus, we request you to kindly keep @10% interest free Advance Payment provision of Tender awarded Value.<br><br>Please Do. | No change |
| 127. | | 184 of 601 | Combined Thickening & Dewatering Machine (COTDM) | Only CODM is allowed, please allow us to consider Belt Filter Press/Screw Press/Centrifuge. | No change |
| 128. | | 185 of 601 | 2.3.1 Design Basis | Peak Factor is given 3, kindly reconfirm. | Confirm, no change |
| 129. | | 185 of 601 | 2.3.1 Design Basis | BOD – 600, COD-1100 values are very higher side, kindly reconfirm the inlet parameters. | Confirm, no change |
| 130. | | 600 of 601 | 8. DRAWINGS | Available area is very less to provide the 30 MLD SBR, please increase the available area for STP. | No change |
| 131. | | 211 of 601 | 5.12 Disposal of Plant Residuals &Treated Sewage Sludge Disposal | Please reconfirm the distance of Sludge Disposal. | Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies. |
| **10** | **Online queries :** | | | | |

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td>132.</td><td></td><td>SPECIAL CONDITION OF THE CONTRACT FOR PRE-QUALIFICATION OF CONTRACTORS, 2. Qualification criteria, ii(b), Page 33.</td><td>It shall be mandatory for the bidders to submit a MOU/Technology tie up agreement duly signed and notarized on a Rs.500.00 non judicial stamp paper with a technology provider who must have a registered company in India fully equipped with trained manpower to extend services as and when required.<br><br>The technology provider shall have experience of providing SBR technology and technology equipment for at One (1) no STP of 24 MLD capacity or Two (2) STPs each of 15 MLD capacity in India during last seven years and are working satisfactorily for at least three years as on Date and meeting outlet quality as required for proposed STP.</td><td>As per the qualification criteria specified in tender, SBR technology provider needs to submit the required STP experience certificates that meet the outlet quality as required for proposed STP.<br><br>We understand that the said plants also needed to be designed for the outlet quality. To establish that the Plant is designed for the required treated outlet quality, relevant pages of tender document shall also be attached along with experience certificates.<br><br>Kindly confirm.</td><td>Bid condition prevails</td></tr>
<tr><td>133.</td><td></td><td>Volume-II Scope of Work & Technical Specifications, Clause : 2.3 Detailed Scope of Work, Page 185</td><td>2.3.1 Design Basis:<br>Average Flow: 30 MLD<br>Peak Factor: - 3<br>Peak Flow: 90 MLD</td><td>Considering 108 lpcd sewage generation ; population equivalent for 30 MLD average flow is around<br><br>Table 3.2 Peak factor for Contributory Population<br><table><tr><th>Contributory Population</th><th>Peak Factor</th></tr><tr><td>up to 20,000</td><td>3.00</td></tr><tr><td>Above 20,001 to 50,000</td><td>2.50</td></tr><tr><td>Above 50,001 to 7,50,000</td><td>2.25</td></tr><tr><td>above 7,50,001</td><td>2.00</td></tr></table>Source: CPHEEO, 1993<br><br>2,77,780. As per CPHEEO Manual CHAPTER 3: Design And Construction of Sewers, table 3.2, page 3-3, peak factor for above equivalent population Should be 2.25</td><td>No change</td></tr>
</table>

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<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td></td><td></td><td></td><td></td><td>Also, with reference to previous tenders of JDA i.e 30 MLD STP at Nevta&43 MLD STP at Sanjhariya which are under execution, peak factor of 2.25 was specified in the tender .<br><br>Hence, we understand that, for 30 MLD average flow the bidder needs to consider peak factor of 2.25 for process design.<br><br>Kindly Confirm.</td><td></td></tr>
<tr><td>134.</td><td></td><td>Volume-II Scope of Work & Technical Specifications, Clause : 2.3 Detailed Scope of Work, Page 185</td><td>2.3.2 Raw Sewage Quality:<br><br>
<table>
<tr><td>Sr. No.</td><td>Parameters</td><td>Values</td><td>UOM</td></tr>
<tr><td>1</td><td>pH</td><td>6.5 to 8.0</td><td></td></tr>
<tr><td>2</td><td>Biochemical Oxygen Demand (BOD5)</td><td>600</td><td>mg/l</td></tr>
<tr><td>3</td><td>Chemical Oxygen Demand (COD)</td><td>1100</td><td>mg/l</td></tr>
</table>
</td><td>On comparing with the previous tenders of JDA that are currently under execution ; there is a significant increase in the values of BOD&CODthat have been specified in tender (Refer below table).<br>
<table>
<tr><td colspan="4"><u>Inlet Parameters for 20 MLD STP at Sushilapura/30 MLD STP at Nevta/ 43 MLD STP at Sanjhariya</u></td></tr>
<tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Raw Sewage Quality</th></tr>
<tr><td>1</td><td>Biochemical Oxygen Demand ($BOD_5$ at $20^0$ C)</td><td>mg/l</td><td>330</td></tr>
<tr><td>2</td><td>Chemical Oxygen</td><td>mg/l</td><td>700</td></tr>
</table>
</td><td>No change</td></tr>
</table>

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| | | | | <table><tr><td></td><td>Demand (COD)</td><td></td><td></td></tr></table><br>Hence, we request you to kindly recheck and confirm the sewage characteristics. | |
| 135. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 1.2 Location of plant , Page 179** | Landscaping / plantation for entire plot of the STP (area apprx. 9870 Sqm). | As per the layout dimensions of the STP plot provided in tender, the area measures to 9028 sqm . Please recheck and confirm. | No change |
| 136. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.2 Sequential Batch Reactor (SBR) Units/ Process Design,Page 195** | -- | As per the allotted STP plot size and contours, biological treatment units i.e SBR basins will be needed to be placed one over the other in G+1 configuration due to less space availability.<br><br>If SBR basins are to be planned in G+1 configuration due to space constraint, minimum clear height between two floors (that is excluding any beams, pipes, etc.) shall be 4.5m as per CPHEEO manual<br>Please confirm.<br><br>Please confirm. | Design of RCC structures/ Floor height shall be provided as per site conditions.<br><br>Design & specification for the same shall be vetted by reputed and specialist firm such as NIT/IIT and cost for the same shall be borne by contractor. |
| 137. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.2 Sequential Batch Reactor (SBR) Units/** | Cycle times shall be selected adequately by the Bidder considering min. 12 hrs/day Basin of aeration and not exceeding decanting of 2.40 m liquid depth at any time with preferred cycle times containing max. 50% not aerated portion. | Tender specifies maximum decanting depth of 2.4 m.<br>Kindly allow decanting depth as per CPHEEO manual Page 5-198, Table 5.57 :- *Typical process parameters for SBR configurations (for unsettled* | No change |

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td></td><td></td><td>Process Design,Page 195</td><td></td><td>sludge)<br><br>Please confirm</td><td></td></tr>
<tr><td>138.</td><td></td><td>VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.4 Aeration System,Page 198</td><td>Air Blower shall be Single Stage, Direct Drive, CE/UL certified, Centrifugal type Turbo Blower consisting of Air Bearings, Impeller, high-speed PMSM Motor, Inverter, Controller and Cooling System…… Control panel for air blower shall be separate from blower assembly and be placed in separate air-conditioned room.</td><td>As per tender control panel of air blower shall be placed in separate air – conditioned room.<br>However, considering the continuous improvements in blower designs, please allow the bidder to offer integrated blower and control panel unit which will be placed in single room as per vendor design.<br><br>Kindly confirm.</td><td>No change</td></tr>
<tr><td>139.</td><td></td><td>VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 5.8 Roads, Pathways & Vehicular Parking Area, Page 210</td><td>All Roads shall be minimum 5.5 m wide of bitumen with RCC kerb stone & drain on both side of 350 mm RCC pipe of class NP-3with manhole at suitable intervals.</td><td>Considering the space constraint at site, please allow minimum width of roads to be 3.75m.<br><br>Kindly confirm.</td><td>Bid condition prevails</td></tr>
<tr><td>140.</td><td></td><td>POWER GUARANTEE SCHEDULE –VII<br>The Electricity Consumption guaranteed by the bidder (to be filled by the bidder), page no. 551</td><td>For Part 'A'<table><tr><td>Incoming sewage flow<br>(Average flow per day in the month)</td><td>Guaranteed Power KwH/MLD</td></tr><tr><td>upto 10 MLD</td><td>(to be filled)</td></tr><tr><td>More than 10 & upto 20 MLD</td><td>(to be filled)</td></tr><tr><td>More than 20 MLD</td><td>(to be filled)</td></tr></table></td><td>We understand that "More that 20 MLD" needs to be read as "More than 20 MLD and up to 30 MLD".<br><br>Kindly Confirm.</td><td>As per bid document, also Refer Addendum No.-1, sr. no. 2</td></tr>
<tr><td>141.</td><td></td><td>POWER GUARANTEE SCHEDULE –VIII<br>TECH 1 : Guaranteed</td><td></td><td>In Power guarantee schedule VIII, at</td><td>Refer Annexure-A1 enclosed with Addendum-1</td></tr>
</table>

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr>
<td></td>
<td></td>
<td>Power Requirement & Power Cost<br>The bidder shall quote the Total Guaranteed Power Requirement for operation and maintenance of the SewageTreatment Plant (STP), Page 552<br>.</td>
<td>
Table : Present Value of Total Cost of Power for STP
<table>
<tr><th>Year of Operation Services</th><th>Presumed year wise Inflow of Sewage (Percent of design capacity)</th><th>Total Guaranteed Power Requirement to be quoted by the Bidder (KWH/day)</th><th>Annual cost of power (Rs) = Col C x 365 X 10.00</th><th>Escalation Factor @ 7 % for power tariff</th><th>Discount Factor @ 10 % for PV</th><th>Evaluated Annual Power Cost (Rs) =Col D X Col E X Col F</th></tr>
<tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td></tr>
<tr><td>1st Year</td><td>25</td><td></td><td></td><td>1.16</td><td>0.81</td><td></td></tr>
<tr><td>2nd Year</td><td>40</td><td></td><td></td><td>1.25</td><td>0.73</td><td></td></tr>
<tr><td>3rd Year</td><td>50</td><td></td><td></td><td>1.33</td><td>0.67</td><td></td></tr>
<tr><td>4th Year</td><td>60</td><td></td><td></td><td>1.43</td><td>0.61</td><td></td></tr>
<tr><td>5th Year</td><td>70</td><td></td><td></td><td>1.53</td><td>0.55</td><td></td></tr>
<tr><td>6th Year</td><td>80</td><td></td><td></td><td>1.63</td><td>0.50</td><td></td></tr>
<tr><td colspan="6">Evaluated Power Cost (Sum total of Column G)</td><td></td></tr>
</table>
Example:- The value of "C" Column" in above table for 6th year (80% Flow) will be same as Guaranteed Power in Schedule-VII for 80% Flow. The value of "C" column for another year shall be calculated accordingly.<br><br>
3. In case there is any ambiguity in guaranteed power consumption quoted by bidder inSchedule-VI, VII & VIII then his bid shall be rejected.
</td>
<td>the end of O&M duration i.e 6 years, the bidder needs to quote for 80 % of the flow received at Site. This value will be then used to calculate the evaluated power cost. However, since the tender is based on 30 MLD average flow, the flow arriving at 6th year needs to be 100 % of incoming sewage flow. The same was specified in previous tenders of JDA i.e 30 MLD STP at Nevta&43 MLD STP at Sanjhariya which are under execution.<br><br>Also if there is any ambiguity in the guaranteed power consumption in the three schedules i.e. Schedule-VI, VII & VIII ; the bid will be rejected. In case , 100 % power requirement is not mentioned in Schedule VIII, then there will be ambiguity with schedule VI and schedule VII.<br><br>Hence, we feel that the bidder shall be required to fill power consumption at 100 % of incoming flow in the 6 th year of O&M period in schedule VIII<br><br>Kindly confirm.</td>
<td></td>
</tr>
<tr>
<td>142.</td>
<td></td>
<td>6. Approved makes; Page 539</td>
<td></td>
<td>We understand that, the tender calls for turbo blowers. However, the aforesaid clause only provides</td>
<td>No change. Bidder may opt. change of make/ provider in unavoidable conditions and with prior approval of EIC.</td>
</tr>
</table>

| S. NO. | ISSUE NO. | CLAUSE NO. CHAPTER NO. | AS PER TENDER DOCUMENT | PARTICIPANT'S QUERY | RESPONSE/ CLARIFICATIONS |
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| | | | | approved makes for roots blower and not for Turbo blowers.<br><br>Hence, we understand that Turbo blowers of reputed makes like Turbomax, Howden, Siemens are acceptable.<br><br>Kindly Confirm. | |
| 143. | | **VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS**<br><br>2.13 Operation and Maintenance Cost<br><br>Page No. 228 | All the cost for Operation and Maintenance of the Plant such as Chemicals and Consumables, Disposal of Screenings, Grit and Dewatered Sludge, Manpower, Spares, Repair and Maintenance of Civil, Mechanical, Electrical, Instrumentation Items including all other major/minor repairs, breakdowns, replacements, Diesel cost for DG etc. excluding Cost of Electricity shall be in the scope of the Bidder | As per tender , the cost of diesel shall be in bidder's scope during O&M period of the plant. In the previous tenders of JDA i.e. **30 MLD STP at Nevta&43 MLD STP at Sanjhariya** which are under execution, the diesel required for DG set was in employer's scope. The required diesel quantity was to bereimbursed to the contractor during O&M period as per prevailing rate of diesel for which contractor had to produce original invoices of diesel.<br><br>Hence we request you to kindly include the cost of diesel for DG set in employer scope as per previous JDA tenders. Please confirm. | No change |
| 144. | | 4) TECHNICAL SPECIFICATION FOR ELECTRICAL & INSTRUMENTATION WORK (SEWAGE TREATMENT PLANT) (PART C) **Page 488 of** | System Description-Electrical Works<br>Each STP with 33 kV power sub-station shall be constructed and single power source shall be feed to MPS & STP's.<br><br>AND<br>The 33kV indoor switchboard shall consist of two incomer VCBs (with line VTs), a bus coupler VCB and VTs on both | Referring to these clauses, both are contradictory one clause refers to consider 3 VCB Panel (1 Incomer +2 Outgoing) and otherone referes to consider 5 VCB Panels (2 Incomer + 1 Bus coupler + 2 Outgoing) . | One VCB Incomer with 2 outgoing VCB Feeders along with one Bus Coupler as per the requirements |

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| | | **722** | the bus sections along with two nos of outgoing VCB feeders. One VCB incomer with 2 outgoing VCB feeders along with one Bus coupler as per requirements. | For our previous experience We understand that Single Source, 33 KV,3 Phase, 50 Hz, Electrical Power Shall be made available at the premises of the proposed site upto the metering panel.<br><br>Kindly confirm. | |
| **11** | **Online queries :** | | | | |
| 145. | | CONDITIONS OF CONTRACT<br>Clause 37: Refund of Performance Guarantee and Security Deposit:<br>Page 99 | The Security Deposit will be released in the following stages after satisfactory<br>performance certificate issued by Engineer-In-Charge :--<br>After completion of one year 20 % of SD Amount<br>After completion of two years 20 % of SD Amount<br>After completion of three years Remaining 60% of SD Amount | The Security Deposit will be released in the following stages after satisfactory<br>performance certificate issued by Engineer-In-Charge :--<br>After completion of one year 80% of SD Amount<br>After completion of two year 20% of SD Amount<br><br>Please amend. | No change, bid condition prevails |
| 146. | | Special Conditions - Schedule H, Point No. 33,<br>Page No. 13 | Price Escalation: Clause of agreement no. 45& 45A for Price Escalation variation is not applicable/<br>payable so deleted. | Price Escalation Clause should be in the tender as changing market conditions such as inflation or tax fluctuations can hamper the project cost. | No change |
| 147. | | SECTION – I<br>SCOPE OF WORK & TECHNICAL SPECIFICATIONS<br>2.0<br>Scope<br>of | Sludge Handling Units : The dewatered sludge in the form of wet cake from COTDM shall be collected & transferred in suitable vehicle to<br>the designated site of disposal. | Please specify the distance of sludge disposal from STP.<br>Also provide the details of nearest dumping location from the STP. | Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies. |

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| | | Work:<br>Page<br>184 | | | |
| 148. | | 2.12 Scope of Work for Operation & Maintenance<br>Page 227 | The Bidder shall operate and maintain the Raw Sewage Pumping Stations, Sewage Treatment Plant and all other allied works under this Contract for a period of 60 months after 03 months trial run and 1 year O&M, including defect liability period of 36 months. | Defect Liability Period should<br><br>be 1 Year in a 5 Year O&M<br><br>work. Kindly Confirm. | Defect liability period of 36 months after 03 months trial run and commissioning. |
| 149. | | 2.3.4 Technical Specification<br>1.3 Grit Chambers<br>Page 194 | Specific gravity of grit : 1.80 | Since the specific gravity for grit particles (Inorganic) is 2.4 to 2.65 (as per CPHEEO manual), the specific gravity mentioned in tender document i.e.<br>1.80 is very low and this may cause organic to settle along with grit in grit chambers. This design consideration will increase organic content in washed grit. Also the detention time as per CPHEEO manual cannot exceed 60 seconds, where in this case the detention time will increase significantly over 60 seconds.<br>Even Jash Engineering (Vendor for Grit mechanism) will not be able to provide the performance guarantees at these design parameters. | No change |

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| | | | | We request you to consider the specific gravity of 2.65 with minimum size of particle to be removed as 100 micron for design consideration.<br>Kindly confirm. | |
| 150. | | SECTION – I<br>SCOPE OF WORK & TECHNICAL SPECIFICATIONS<br>2.0 Scope of Work<br>2.2 PROPOSED TREATMENT SCHEME R<br>Page 183 | Flow Measurement<br>Bidder shall provide ultrasonic flow meter on common header of raw sewage pumping transfer pumps in order to measure the flow. Flow measurement before the distribution box for SBR shall also be measured through parshall flume fitted with suitable sensors. | As per understanding, bidder can opt for flow measurement either at common header of Raw sewage transfer pumps or at Parshall flume before splitter box.<br>Since placing two flow measuring devices only at Primary treatment unit will be inefficient.<br><br>Kindly Confirm. | No change |
| 151. | | GUIDE LINES FOR BREAK-UP B-1<br>Page 576 | GUIDE LINES FOR BREAK-UP B-1 | The price breakup doesn't provide any head for Process design & drawings, which is a very major part of Turn-key or EPC (Engineering, procurement & construction) job. Please allow at least of 3-5% for Process design & drawings. | No change |
| 152. | | 4) TECHNICAL SPECIFICATION FOR ELECTRICAL & INSTRUMENTATION WORK (SEWAGE | Electrical System<br>Each STP with 33 kV power sub-station shall be constructed and single power source shall be feed to MPS &<br>STP's. The 33kV supply shall be made available by RVPNL/JVVNL but Contractor has to get verified the available System voltage from RVPNL/JVVNL prior to | According to JVVNL No. JPD/SE (Comml.)/P&IA/F. TCOS-21/D. 1609 Jaipur Dated 27.02.2021 it is clearly stated that on page no. 11 clause 4, if the connected load is more than 2500KV then only 33KV supply is required else 11KV is provided. | Bid condition prevails |

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| | | TREATMENT PLANT) (PART C) Page 494 | commencement of works. The contractor's scope shall start from outgoing of the meter. | | |
| 153. | | 2.3.4 Technical Specification Raw Sewage Pumping Station 3.1 Sump and Pumps Page 189 | No. of Pumps for present Flow : 1250 m3/hr with Suitable Head (2 working + 2Standby) : 625 m3/hr with Suitable Head (1 working + 1 Standby) | Since the provided flow for Raw sewage transfer pumps are not inclusive of recycle flow from COTDM machine, the bidder should be allowed to choose the combination of pumps with capacity as per final Process design in adherence to 4.5.4 (Chapter-4, CPHEEO manual). Kindly confirm. | No change |
| 154. | | 4.1 COTDM Feed Sump & Pump House Page 204 & 206 | COTDM feed sump & pump house: Hydraulic Retention Time: 24 hrs. min. of Average Daily Sludge Production COTDM & COTDM House: Nos. of COTDM MACHINES Working as per requirement + Min. 50% Standby Maximum Operation Hours per day 12 hours (6 days a week) | 1 Nos working COTDM and 1 Nos Standby COTDM to be provided. Please confirm. For above provided combination of COTDM machines (7 days working, 12 hrs./day), the COTDM feed sump can be reduced to a HRT of 12 hours instead of 24 hours as complete standby COTDM is provided (Retention of sludge for 24 hours will create nuisance). Kindly confirm. | Refer Addendum No.-1, sr. no. 1 |
| 155. | | PREAMBLE TO PRICE SCHEDULE | The Bidder shall include in his Price Bid, Trade Tax, Income Tax, GST, any surcharge and all other Central Govt. and State Govt. Taxes and Duties as applicable. Any payment will not be reimbursed for any new | Since the GST regulations or any surcharge to be levied by Central or State government are not in the reach of contractor, we suggest to | No change |

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| | | Page 573 | Tax or any increase in Tax during execution of the Works. | freeze the taxes inclusive which were implied till the date of submission of bid. Any other tax introduced or increased after bid submission will be paid separately to the bidder during execution. | |
| 156. | | 1.0 (b) SCOPE OF WORK – OPERATION & maintenance Page 230 | In case of major delaying in availability of sewage, contractor shall be payable 10% of total 1st year O&M cost on Quarterly basis. | 10% cost for manpower, running the site office and maintain good hygiene conditions at site is less, we request to modify as - In case of major delaying in availability of sewage, contractor shall be payable 50% of total 1st year O&M cost on Quarterly basis. | No change |
| 157. | | 1.0 (A) SCOPE OF WORK: Design, construction, supply, installation, testing & commissioning 1.0 PREAMBLE 1.2 Location of Plant Page 179 | Installation of DG Set and its O&M including diesel cost: Each load center shall be provided with a silent DG Set as a standby power backup for 100% load. DG sets up to 1000 KVA capacity are required to be supplied with acoustic enclosure as per CPCB norms. Cost of diesel will be borne by agency it self. | Diesel cost in O&M Phase should be borne by Department as done in other tender of JDA. | No change |
| 158. | | .SPECIA L CONDIT | Operation service costs which include operation, maintenance & management of entire system or a part of the system, shall not be less than 10% of the cost of design built works. If successful L-1 bidder evaluated bid price for operation service cost is less than the cost proposed above, the bidder will provide additional performance security for the difference O&M amount | O&M Period is 5 years, Please clear the time of release of payment. | Bid conditions prevail |

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| | | IONS<br>SCHED<br>ULE 'H'<br>Page 12 | valid for entire O&M period. 50% of this additional security will be refunded after completing 5 years of operation service and remaining 50% on completion of O&M services as per original contract period. | | |
| 159. | | 4) TECHNICAL SPECIFICATION FOR ELECTRICAL & INSTRUMENTATION WORK (SEWAGE TREATMENT PLANT) (PART C) | -load tap changer (OLTC), which in turn to feed the 0.433 kV indoor switchboard. 100% redundant transformer shall be provided to feed the entire load of the STP& SPS. The off circuit tap changer shall be provided in transformer as per requirement. | Requirement of Transformer with OLTC or Off Circuit Tap Changer Please confirm. | The off-circuit tap changer shall be provided in transformer as per requirements. |
| 160. | | SCOPE OF WORK & TECHNICAL SPECIFICATIONS<br>2.3 Detailed SCOPE OF WORK<br>2.3.2 Raw Sewage Quality: Page 186 | Raw Sewage Quality:<br>An abstract of Raw Sewage Characteristics is indicated in the following Table:<br>Biochemical Oxygen Demand (BOD5) = 600 mg/l Chemical Oxygen Demand (COD) = 1100 mg/l Total<br>Suspended Solids (TSS) = 600 mg/l Total<br>Kjeldahl Nitrogen (TKN) = 70 mg/l | Raw Sewage Characteristics seems on higher side compared to municipal sewage characteristics specified in CPHEEO manual.<br>This confirms that there is industrial ingress at the STP inlet, and it will hamper the outlet result on daily basis. | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 161. | | | Land Handover | Land should be free from any dispute/ hindrances. Please confirm | Confirm |
| 162. | | 1.0 (A) SCOPE OF WORK: Design, construction, supply, installation, testing & commissioning<br>1.2 Location of Plant | Online Continuous Effluent Monitoring System (OCEMS) shall be provided at the Inlet & Outlet of STP. Parameters such as Flow, pH, BOD, COD & TSS shall be monitored continuously. The OCEMS suppliers have to provide central server at cloud operational on 24x7 basis and to provide online data connectivity with CPCB and RSSPCB servers. | In general practice the data is only transferred to RSSPCB as done in other STP project.<br>Kindly Confirm. | Integration shall be with CPCB/RSPCB as per bid stipulations. |

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| | | Page 179 | | | |
| 163. | | 2.3 Decanting Device Page 198 | Each set of Air Blowers shall have dedicated 50% standby (2W + 1S). All Air Blowers shall operate via VFD. | The Blower Capacity should be variable without compromising the design of SBR Basin and outlet parameter. And keeping the number of blower as per Process Design and CPHEEO Manual. | No change |
| **12** | **Online queries :** | | | | |
| 164. | | VOLUME - II Scope of Work & Technical Specifications 5.8 Roads, Pathways & Vehicular Parking Area Clause 5.8 Page No 211<br><br>VOLUME - II Scope of Work & Technical Specifications Clause 1.14.1 Page No 259 | All internal Roads shall be provided with Drainage and constructed to prevent standing water. All Roads shall be minimum 5.5 m wide of bitumen with RCC kerb stone & drain on both side of 350 mm RCC pipe of class NP-3 with manhole at suitable intervals.<br><br>1.14.1 All roads shall be of asphalt macadam and minimum 5 metres wide. Vehicular access shall be provided for all Plant structures and buildings | Kindly confirm the road width to be consider for the STP | Bid conditions prevails |
| 165. | | VOLUME - II Scope of Work & Technical Specifications Clause 1.2 | Landscaping / plantation for entire plot of the STP (area approx. 9870 Sqm). | It is not possible to install so many units as defined in the tender in this such space. Please increase the area of STP premises. | No change |

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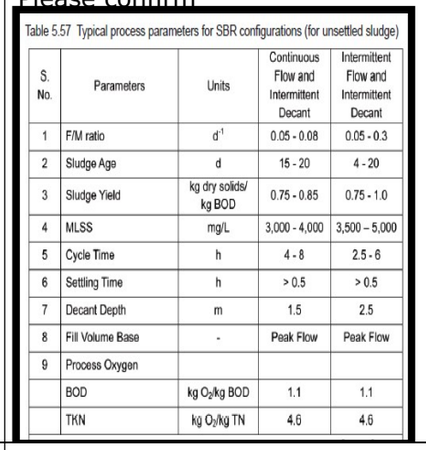
| 166. | | Volume-II Scope of Work & Technical Specifications, Clause: 2.3 Detailed Scope of Work, Page 185 | 2.3.1 Design Basis:<br>Average Flow: 30 MLD<br>Peak Factor: - 3<br>Peak Flow: 90 MLD | Considering 108 lpcd sewage generation; population equivalent for 30 MLD average flow is around 2,77,780. As per CPHEEO Manual CHAPTER 3: Design And<br><br>Construction of Sewers, table 3.2, page 3-3, peak factor for above equivalent population Should be 2.25<br><br>Also, with reference to previous tenders of JDA i.e. **30 MLD STP at Nevta & 43 MLD STP at Sanjhariya** which are under execution, peak factor of 2.25 was specified in the tender.<br><br>Hence, we understand that, for 30 MLD average flow the bidder needs to consider peak factor of 2.25 for process design.<br><br>Kindly Confirm. | No change |

Table 3.2 Peak factor for Contributory Population

| Contributory Population | Peak Factor |
|---|---|
| up to 20,000 | 3.00 |
| Above 20,001 to 50,000 | 2.50 |
| Above 50,001 to 7,50,000 | 2.25 |
| above 7,50,001 | 2.00 |

Source: CPHEEO, 1993

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td>167.</td><td></td><td>Volume-II Scope of Work & Technical Specifications, Clause: 2.3 Detailed Scope of Work, Page 185</td><td>2.3.2 Raw Sewage Quality:<br><br>
<table>
<tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Raw Sewage Quality</th></tr>
<tr><td>1</td><td>pH</td><td></td><td>6.5 to 8.0</td></tr>
<tr><td>2</td><td>Biochemical Oxygen Demand ($BOD_5$ at $20^0$ C)</td><td>mg/l</td><td>600</td></tr>
<tr><td>3</td><td>Chemical Oxygen Demand (COD)</td><td>mg/l</td><td>1100</td></tr>
</table></td><td>On comparing with the previous tenders of JDA that are currently under execution; there is a significant increase in the values of BOD & COD that have been specified in tender (Refer below table).<br><br>
<table>
<tr><th colspan="4"><u>Inlet Parameters for 20 MLD STP at Sushilapura/30 MLD STP at Nevta/ 43 MLD STP at Sanjhariya</u></th></tr>
<tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Raw Sewage Quality</th></tr>
<tr><td>1</td><td>Biochemical Oxygen Demand ($BOD_5$ at $20^0$ C)</td><td>mg/l</td><td>330</td></tr>
<tr><td>2</td><td>Chemical Oxygen Demand (COD)</td><td>mg/l</td><td>700</td></tr>
</table>
Hence, we request you to kindly recheck and confirm the sewage characteristics.</td><td>No change</td></tr>
<tr><td>168.</td><td></td><td>VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.2 Sequential Batch Reactor</td><td>Cycle times shall be selected adequately by the Bidder considering min. 12 hrs/day Basin of aeration and not<br>exceeding decanting of 2.40 m liquid depth at any time with preferred cycle times containing max. 50% not</td><td>Tender specifies maximum decanting depth of 2.4 m.<br>Kindly allow decanting depth as per CPHEEO manual Page 5-198, Table 5.57: - Typical process parameters for SBR</td><td>No change</td></tr>
</table>

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td></td><td></td><td>(SBR) Units/ Process Design, Page 195</td><td>aerated portion.</td><td>configurations (for unsettled sludge)<br><br>Please confirm<br> 
Table 5.57 Typical process parameters for SBR configurations (for unsettled sludge)
<table>
<tr><th>S. No.</th><th>Parameters</th><th>Units</th><th>Continuous Flow and Intermittent Decant</th><th>Intermittent Flow and Intermittent Decant</th></tr>
<tr><td>1</td><td>F/M ratio</td><td>$d^{-1}$</td><td>0.05 - 0.08</td><td>0.05 - 0.3</td></tr>
<tr><td>2</td><td>Sludge Age</td><td>d</td><td>15 - 20</td><td>4 - 20</td></tr>
<tr><td>3</td><td>Sludge Yield</td><td>kg dry solids/ kg BOD</td><td>0.75 - 0.85</td><td>0.75 - 1.0</td></tr>
<tr><td>4</td><td>MLSS</td><td>mg/L</td><td>3,000 - 4,000</td><td>3,500 – 5,000</td></tr>
<tr><td>5</td><td>Cycle Time</td><td>h</td><td>4 - 8</td><td>2.5 - 6</td></tr>
<tr><td>6</td><td>Settling Time</td><td>h</td><td>> 0.5</td><td>> 0.5</td></tr>
<tr><td>7</td><td>Decant Depth</td><td>m</td><td>1.5</td><td>2.5</td></tr>
<tr><td>8</td><td>Fill Volume Base</td><td>-</td><td>Peak Flow</td><td>Peak Flow</td></tr>
<tr><td>9</td><td>Process Oxygen</td><td></td><td></td><td></td></tr>
<tr><td></td><td>BOD</td><td>kg $O_2$/kg BOD</td><td>1.1</td><td>1.1</td></tr>
<tr><td></td><td>TKN</td><td>kg $O_2$/kg TN</td><td>4.6</td><td>4.6</td></tr>
</table></td><td></td></tr>
<tr><td>169.</td><td></td><td></td><td>Bid Security<br><br>Amount (INR): 2% (Rs. 1,16,32,180/-) for AA class contractor or equivalent contractor registered in other Govt. department and 0.5% (29,08,045/-) for AA Class contractor enlisted in JDA. In case of JV 2% shall be deposited by bidder (Joint Venture Firm).</td><td>If we bid in Joint Venture (JV) then Bank Guarantee will be made by the Name of Lead Partner.<br><br>Please confirm</td><td>Agreed</td></tr>
<tr><td>170.</td><td></td><td>2.7 Disposal of Sludge/Screenings/ Debris<br><br>Page No 266</td><td>The screenings/debris/dried sludge from the Sludge Handling Unit shall be disposed off by the Contractor to a suitable location, which is away from the residential area. JDA will provide landfill site where sludge will be disposed off. Contractor shall strictly note that sludge shall be safely disposed off to disposal site in suitable vehicle. The responsibility of sludge withdrawal and disposing off lies with the Contractor within the operation and maintenance period. The Contractor should explore the possibility promoting it as manure.</td><td>Kindly confirm STP Site to landfill site Total Distance</td><td>Distance of sludge and grit disposal site from Plant shall be 10 Km. or designated dumping site of local bodies.</td></tr>
</table>

| S. NO. | ISSUE NO. | CLAUSE NO. CHAPTER NO. | AS PER TENDER DOCUMENT | PARTICIPANT'S QUERY | RESPONSE/ CLARIFICATIONS |
|---|---|---|---|---|---|
| 171. | | 2.3.4 (B) Technical Specification<br><br>Page no 188 | Coarse Screen Channels<br><br>Min. two mechanical screen working and one mechanical screen standby of 20 mm clear spacing and each screen shall be provided of 50% peak flow capacity. | Kindly consider Manual screen standby of 20 mm clear spacing | No change |
| 172. | | 1.2 Fine Screen Channels<br><br>Page no 192 | Min. two Mechanical Fine Screens (Working) and one Mechanical Fine Screen (Standby) shall be provided in Fine Screen Channels. Each Fine Screen Channel shall be designed for 50% of Peak Flow. | Kindly consider Manual screen standby of 6 mm clear spacing | No change |
| 173. | | Page No 186 | 1. The estimated Raw Sewage Characteristics/parameters of inflow sewer are given above. These characteristics are indicative based on general observed in sewerage flow of Jaipur City. In case the characteristics/parameters such as BOD/COD/TSS are more than those given in above table than bidder has to made treatment arrangements at his own level to achieved parameters as per NGT/RSPCB norms at his own cost. No extra cost/payment shall be paid to successful bidder. | The given parameter is already too high, please clarify that the inflow water is mixed with any industrial effluent. The parameters will change only if industrial waste is mixed. So please confirm this. | Bidder shall visit the site & assess the required data before quoting of his financial offer. |
| 174. | | VOLUME – II SCOPE OF WORK & TECHNICAL SPECIFICATIONS, 2.4 Aeration System, Page 198 | Air Blower shall be Single Stage, Direct Drive, CE/UL certified, Centrifugal type Turbo Blower consisting of Air Bearings, Impeller, high-speed PMSM Motor, Inverter, Controller and Cooling System…… Control panel for air blower shall be separate from blower assembly and be placed in separate air-conditioned room. | As per tender control panel of air blower shall be placed in separate air – conditioned room. However, considering the continuous improvements in blower designs, please allow the bidder to offer integrated blower and control panel unit which will be placed in single room as per vendor design.<br><br>Kindly confirm. | No change |
| 175. | | 6. Approved makes; Page 539 | We understand that, the tender calls for turbo blowers. However, the aforesaid clause only provides approved makes for roots blower and not for Turbo blowers. | Kindly Provide Make list of Turbo Blower | No change. Bidder may opt. change of make/ provider in unavoidable conditions and with prior approval of EIC. |

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| 176. | | 6. Price Escalation Page No 36a and 101 | Clause 45 & 45A: Price variations Clause: Deleted Clause of agreement no. 45& 45A for Price Escalation variation is not applicable/payable so deleted. | As per Bid documents Project completion period is 24 Months, So kindly allow Price Escalation variation for the sane. | No change |
| **13** | **Online queries :** | | | | |
| 177. | | | | Please allow Bid security in the form of FDR in addition to the Bank Guarantee. | No change |
| 178. | | 18 | This Guarantee will remain in force up to and including the date 90 days after the date of expiration of the Bid Validity, **as stated in the Instructions to Bidders, or any such extension thereto as may be agreed by the Bidder, a notice of which extension(s) to the Bank is hereby waived.** Any Demand in respect of this Guarantee should reach the Bank no later than the above date. | We request a minor correction in the specified Bank Guarantee Performa for Bid Security as follows: "expiration of the Bid Validity, as stated in the Instructions to Bidders or till expiry of this bank guarantee, whichever is earlier ~~or any such extension thereto as may be agreed by the Bidder, notice of which extension(s) to the Bank is hereby waived."~~ Please remove the stricken line. Kindly review and confirm. | No change |
| 179. | | **05** | | The estimated procurement cost is approximately 58.16 crore. Please clarify whether this represents the total project cost, including O&M, or if it is solely the capital cost. If it is the total project cost, kindly provide a detailed cost breakdown. | Estimated project cost of Rs. 58.16 cr is inclusive of (1+5) years O&M cost after 3 months trial run & commissioning. |

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td>180.</td><td></td><td>65</td><td>1.16.5</td><td>The capital cost is including the 3 months trial run followed by 1 year O&M. Again, there is O&M period of 5 years. Kindly clarify the duration of O&M</td><td>Estimated project cost of Rs. 58.16 cr is inclusive of (1+5) years O&M cost after 3 months trial run & commissioning.</td></tr>
<tr><td>181.</td><td></td><td>179</td><td>2.3.1.3</td><td>Considering 108 lpcd sewage generation; population equivalent for 30 MLD average<br>flow is around 2,77,780. As per CPHEEO Manual CHAPTER 3:<br>Table 3.2 Peak factor for Contributory Population<br><table><tr><th>Contributory Population</th><th>Peak Factor</th></tr><tr><td>up to 20,000</td><td>3.00</td></tr><tr><td>Above 20,001 to 50,000</td><td>2.50</td></tr><tr><td>Above 50,001 to 7,50,000</td><td>2.25</td></tr><tr><td>above 7,50,001</td><td>2.00</td></tr></table>Source: CPHEEO, 1993<br>Design and Construction of Sewers, table 3.2, page 3-3, peak factor for above equivalent population Should be 2.25 Also, with reference to previous tenders of JDA i.e 30 MLD STP at Nevta & 43 MLD STP at Sanjhariya which are under execution, peak factor of 2.25 was specified in the tender. Hence, we understand that, for 30 MLD average flow the bidder needs to consider peak factor of 2.25 for process design. Kindly Confirm.</td><td>No change</td></tr>
</table>

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr>
<td>182.</td>
<td></td>
<td>180-181</td>
<td>
<table>
<tr><th>Sr. No.</th><th>Parameters</th><th>Values</th><th>UOM</th></tr>
<tr><td>1</td><td>pH</td><td>6.5 to 8.0</td><td></td></tr>
<tr><td>2</td><td>Biochemical Oxygen Demand (BOD5)</td><td>600</td><td>mg/l</td></tr>
<tr><td>3</td><td>Chemical Oxygen Demand (COD)</td><td>1100</td><td>mg/l</td></tr>
<tr><td>4</td><td>Total Suspended Solids (TSS)</td><td>600</td><td>mg/l</td></tr>
<tr><td>6</td><td>Total Kjeldahl Nitrogen (TKN)</td><td>70</td><td>mg/l</td></tr>
<tr><td>7</td><td>Total Phosphorous (TP)</td><td>5</td><td>mg/l</td></tr>
<tr><td>8</td><td>Fecal Coliform</td><td>1 x 106</td><td>MPN/100 ml</td></tr>
<tr><td>9</td><td>Total Coliform</td><td>1 x 107</td><td>MPN/100 ml</td></tr>
<tr><td>10</td><td>Sewage Temperature to design biological system</td><td>Min. 18 0C & Max. 30 0C.</td><td></td></tr>
</table>
</td>
<td>
The raw sewage characteristics of recently floated tenders of Jaipur city, including this tender, as under:
<table>
<tr><th>Sr. No.</th><th>Project Name</th><th>BOD</th><th>COD</th></tr>
<tr><td>1</td><td>30 MLD at Naveta</td><td>330</td><td>700</td></tr>
<tr><td>2</td><td>20 MLD at</td><td>330</td><td>700</td></tr>
<tr><td>3</td><td>30 MLD at Swarn Vihar</td><td>600</td><td>1100</td></tr>
</table>
It can be inferred from the above table that the characteristics of raw sewage for the same Jaipur city are alarmingly high for the subject tender compared to recently floated tenders of JDA. These high levels of pollutants confirm some unauthorized industrial effluent discharge into the domestic sewage.<br>
We request to review the Inlet
</td>
<td>No change, Bidder shall visit the site & assess the required data before quoting of his financial offer.</td>
</tr>
</table>

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td></td><td></td><td></td><td></td><td>Parameter as the size of SBR for the given land area shall be insufficient to address the Inlet the parameters. Hence, we request you to kindly recheck and confirm the sewage characteristics.</td><td></td></tr>
<tr><td>183.</td><td></td><td>12</td><td>Schedule H: point no 30<br><br>The rates quoted/negotiated shall be firm. No price variation is admissible. (Design Drawing and mobilization)</td><td>Given the 24-month completion period, we request the inclusion of a price variation clause for both capital and operational expenses, as the WPI and CPI are consistently rising, and further increases in expenditure cannot be anticipated.</td><td>No change</td></tr>
<tr><td>184.</td><td></td><td>697</td><td><table>
<tr><td>1</td><td>Civil Works</td><td>45%</td></tr>
<tr><td>2</td><td>Inter connecting piping works</td><td>7%</td></tr>
<tr><td>3</td><td>Mechanical works,</td><td>23%</td></tr>
<tr><td>4</td><td>Electrical works</td><td>10%</td></tr>
<tr><td>5</td><td>Instrumentation</td><td>5%</td></tr>
<tr><td>6</td><td>03 months Trial run, Testing & commissioning of entire plant etc. complete</td><td>5%</td></tr>
<tr><td>7</td><td>O&M of 1 year</td><td>5%</td></tr>
<tr><td></td><td>Total</td><td>100%</td></tr>
</table></td><td>According to the price breakdown, the total percentage of the amount to be retained for the trial run, commissioning, and O&M is 10%. Specifically, within the civil work breakdown, 5% is allocated for the trial run and commissioning, and 15% in electro-mechanical and piping works breakdown. This results in a total average retention of 19%. However, analysis of tenders for similar projects shows an average retention of about 5%. Such high retention may negatively impact cash flow, leading to increased</td><td>Refer Addendum No.-1, sr. no.2</td></tr>
</table>

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td></td><td></td><td></td><td></td><td>front loading by the bidders. Please review and confirm.</td><td></td></tr>
<tr><td>185.</td><td></td><td>697</td><td>
<table>
<tr><th>S.No</th><th>Item Description</th><th>Percentage Mile Stone Payment</th></tr>
<tr><td>1.</td><td>On supply of equipment, pipes, specials, valves, accessories, instruments etc. including spares at site, after inspection, along with literature, drawings, operating pamphlets, manual etc. as required.</td><td>70%</td></tr>
<tr><td>2.</td><td>On erection of all equipment, pipes, specials, valves, instruments and necessary accessories including installation of mechanical / electrical / instrumentation system / equipment, cabling, etc. complete.</td><td>15%</td></tr>
<tr><td>3.</td><td>On testing of all equipment, pipes, specials, valves, instruments and necessary accessories</td><td>7.5%</td></tr>
<tr><td>4.</td><td>After Trial run & Commissioning of entire plant.</td><td>7.5%</td></tr>
<tr><td></td><td></td><td>100%</td></tr>
</table>
<table>
<tr><td>1</td><td>Civil Works</td><td>45%</td></tr>
<tr><td>2</td><td>Inter connecting piping works</td><td>7%</td></tr>
<tr><td>3</td><td>Mechanical works,</td><td>23%</td></tr>
<tr><td>4</td><td>Electrical works</td><td>10%</td></tr>
<tr><td>5</td><td>Instrumentation</td><td>5%</td></tr>
<tr><td>6</td><td>03 months Trial run, Testing & commissioning of entire plant etc. complete</td><td>5%</td></tr>
<tr><td>7</td><td>O&M of 1 year</td><td>5%</td></tr>
<tr><td></td><td>Total</td><td>100%</td></tr>
</table>
</td><td>In the price break-up, kindly allow the section for cost design and drawing with a percentage of minimum 5%. We feel in electro-mechanical work there should be a section for QAP approval as the supply is solely dependent on the approval time period. Kindly review and confirm.</td><td>No change</td></tr>
<tr><td>186.</td><td></td><td>584</td><td>
<table>
<tr><td>5</td><td>SBR BASINS WITH DIFFUSED AERATION SYSTEM, DISTRIBUTION CHAMBER</td><td></td></tr>
<tr><td>a.</td><td>On completion of Excavation</td><td>5%</td></tr>
</table>
</td><td>Major Portion of concreting is done in the Bottom Raft. We feel on the completion of Bottom Raft the payment should be at least 40% instead of 25% as shown in the breakup. Kindly review and confirm.</td><td>No change</td></tr>
</table>

| S. NO. | ISSUE NO. | CLAUSE NO. CHAPTER NO. | AS PER TENDER DOCUMENT | PARTICIPANT'S QUERY | RESPONSE/ CLARIFICATIONS |
|---|---|---|---|---|---|
| | | | b. On completion of PCC 5%<br>c. On completion of Bottom Raft. 25%<br>d. On completion of 25% Side Walls 10%<br>e. On completion of 50% Side Walls 10%<br>f. On completion of 75% Side Walls 10%<br>g. On completion of 100% Side Walls 10%<br>h. On Completion of Walkway 5%<br>i. On Completion of Distribution Chamber 5%<br>j. On completion of Misc./Finishing Items 5%<br>k. On completion of Hydraulic Test 5%<br>l. On testing, commissioning and trial runs 5% | | |
| 187. | | | | In the recent floated tender for similar works mobilization advance of about 10% is provided. However, in this tender there is no option for mobilization advance. Kindly allow mobilization advance to ensure a smooth start to the project.<br>Please review and confirm | No change |
| 188. | | **Page 35** | (k) MOU/ Technology tie up agreement on Rs. 500 stamp paper with Technology Provider | In previous tenders of Jaipur development authority, it was mandatory to utilize Rs. 500 stamp paper of Rajasthan Government for technology tie up agreement.<br>We assume the same shall be applicable for the present tender also. | Bidder's understanding is correct, stamp paper should be of Govt. of Rajasthan. |

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|---|---|---|---|---|---|
| | | | | Please confirm. | |
| 189. | | **Page 33.** | It shall be mandatory for the bidders to submit a MOU/Technology tie up agreement duly signed and notarized on a Rs.500.00 non judicial stamp paper with a technology provider who must have a registered company in India fully equipped with trained manpower to extend services as and when required.<br><br>The technology provider shall have experience of providing SBR technology and technology equipment for at One (1) no STP of 24 MLD capacity or Two (2) STPs each of 15 MLD capacity in India during last seven years and are working satisfactorily for at least three years as on Date and meeting outlet quality as required for proposed STP. | As per the qualification criteria specified in tender, SBR technology provider needs to submit the required STP experience certificates that meet the outlet quality as required for proposed STP.<br><br>We understand that the said plants also needed to be designed for the outlet quality. To establish that the Plant is designed for the required treated outlet quality, relevant pages of tender document shall also be attached along with experience certificates.<br><br>Kindly confirm. | Bid condition prevails |
| 190. | | **Page 195** | -- | As per the allotted STP plot size and contours, biological treatment units i.e. SBR basins will need to be placed one over the other in G+1 configuration due to less space availability. | Design of RCC structures/ Floor height shall be provided as per site conditions.<br><br>Design & specification for the same shall be vetted by reputed and specialist firm such as NIT/IIT and cost for the same shall be borne by contractor. |

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|---|---|---|---|---|---|
| | | | | If SBR basins are to be planned in G+1 configuration due to space constraint, minimum clear height between two floors (that is excluding any beams, pipes, etc.) shall be 4.5m as per CPHEEO manual<br>Please confirm.<br><br>Please confirm. | |
| 191. | | **Page 195** | Cycle times shall be selected adequately by the Bidder considering min. 12 hrs/day Basin of aeration and not exceeding decanting of 2.40 m liquid depth at any time with preferred cycle times containing max. 50% not aerated portion. | Tender specifies maximum decanting depth of 2.4 m.<br>Kindly allow decanting depth as per CPHEEO manual Page 5-198, Table 5.57:- *Typical process parameters for SBR configurations (for unsettled sludge)*<br><br>Please confirm | No change |
| 192. | | Page No. 178 | Disposal of treated sewage into nearby channel/ Nallah leading to Nevta Dam. The work of outfall treated water line of 1200mm dia & approx. 1.50 km length from the STP to the channel/ Nallah leading to Nevta Dam shall be in the scope of contractor. | Kindly re-confirm the length of the disposal pipe. | Bid specification is self-explanatory |
| 193. | | Page 179 | Landscaping / plantation for entire plot of the STP (area approx. 9870 Sqm). | As per the layout dimensions of the STP plot provided in tender, the area measures 9028 sqm. Please recheck and confirm. | Confirm & as per bid document. |

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|---|---|---|---|---|---|
| 194. | | Page 198 | Air Blower shall be Single Stage, Direct Drive, CE/UL certified, Centrifugal type Turbo Blower consisting of Air Bearings, Impeller, high-speed PMSM Motor, Inverter, Controller and Cooling System…… Control panel for air blower shall be separate from blower assembly and be placed in separate air-conditioned room. | As per tender control panel of air blower shall be placed in separate air – conditioned room. However, considering the continuous improvements in blower designs, please allow the bidder to offer integrated blower and control panel unit which will be placed in single room as per vendor design.<br><br>Kindly confirm. | No change |
| 195. | | page 206 | Hydraulic Retention Time: 24 hrs. min. of Average Daily Sludge Production &<br><br>Maximum Operation Hours per day : 12 hours (6 days a week) | The given HRT for Sludge sump is very high, and it shall occupy considerable area at site. Considering the space constraint at site, please allow the bidder to propose running hours of COTDM running hours as maximum 20 hrs a day and retention time of Sludge sump as minimum 4 hrs.<br><br>Kindly Confirm. | Refer Addendum No.-1, sr. no. 1 |
| 196. | | page no. 202 | The secondary treated sewage shall be led to Chlorination system for disinfection. Chlorination Units shall consist of Chlorine Contact Tank and Chlorine House & Tonner Room. | We understand that Disinfection by chlorination is only indicative, and bidder can propose an alternative disinfection system like UV disinfection due to the space constraint.<br><br>Kindly Confirm. | No change |

<table>
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<tr><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>197.</td><td></td><td>Page 209</td><td>Transformer shall be of outdoor type and installed outdoor on RCC platform & provided with fencing.</td><td>We understand that the bidder can also propose dry type - Indoor transformer instead of outdoor type since the dry type transformers are more compact and safer as compared to outdoor – oil type transformer.<br><br>Kindly confirm.</td><td>No change</td></tr>
<tr><td>198.</td><td></td><td>Page 210</td><td>All Roads shall be minimum 5.5 m wide of bitumen with RCC kerb stone & drain on both side of 350 mm RCC pipe of class NP-3 with manhole at suitable intervals.</td><td>Considering the space constraint at site, please allow minimum width of roads to be 3.75m.<br><br>Kindly confirm.</td><td>Bid condition prevails</td></tr>
<tr><td>199.</td><td></td><td>page no. 551</td><td>For Part 'A'<table><tr><td>Incoming sewage flow<br>(Average flow per day in the month)</td><td>Guaranteed Power KwH/MLD</td></tr><tr><td>upto 10 MLD</td><td>(to be filled)</td></tr><tr><td>More than 10 & upto 20 MLD</td><td>(to be filled)</td></tr><tr><td>More than 20 MLD</td><td>(to be filled)</td></tr></table></td><td>We understand that "More than 20 MLD" needs to be read as "More than 20 MLD and up to 30 MLD".<br><br>Kindly Confirm.</td><td>No change, also Refer Addendum No.-1, sr. no. 2</td></tr>
<tr><td>200.</td><td></td><td>Page 552</td><td></td><td>In Power guarantee schedule VIII, at the end of O&M duration i.e. 6 years, the bidder needs to quote for 80 % of the flow received at Site. This value will be then used to calculate the evaluated power cost. However, since the tender is</td><td>Refer Annexure-A1 enclosed with Addendum-1</td></tr>
</table>

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<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>
Table : Present Value of Total Cost of Power for STP
<table>
<tr><th>Year of Operation Services</th><th>Presumed year wise Inflow of Sewage (Percent of design capacity)</th><th>Total Guaranteed Power Requirement to be quoted by the Bidder (KWH/day)</th><th>Annual cost of power (Rs) = Col C x 365 X 10.00</th><th>Escalation Factor @ 7 % for power tariff</th><th>Discount Factor @ 10 % for PV</th><th>Evaluated Annual Power Cost (Rs) =Col D X Col E X Col F</th></tr>
<tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td></tr>
<tr><td>1st Year</td><td>25</td><td></td><td></td><td>1.16</td><td>0.81</td><td></td></tr>
<tr><td>2nd Year</td><td>40</td><td></td><td></td><td>1.25</td><td>0.73</td><td></td></tr>
<tr><td>3rd Year</td><td>50</td><td></td><td></td><td>1.33</td><td>0.67</td><td></td></tr>
<tr><td>4th Year</td><td>60</td><td></td><td></td><td>1.43</td><td>0.61</td><td></td></tr>
<tr><td>5th Year</td><td>70</td><td></td><td></td><td>1.53</td><td>0.55</td><td></td></tr>
<tr><td>6th Year</td><td>80</td><td></td><td></td><td>1.63</td><td>0.50</td><td></td></tr>
<tr><td colspan="6">Evaluated Power Cost (Sum total of Column G)</td><td></td></tr>
</table>
Example:- The value of "C" Column" in above table for 6th year (80% Flow) will be same as Guaranteed Power in Schedule-VII for 80% Flow. The value of "C" column for another year shall be calculated accordingly.<br><br>
3. In case there is any ambiguity in guaranteed power consumption quoted by bidder in Schedule-VI, VII & VIII then his bid shall be rejected.
</td>
<td>based on 30 MLD average flow, the flow arriving at 6th year needs to be 100 % of incoming sewage flow. The same was specified in previous tenders of JDAi.e.30 MLD STP at Nevta & 43 MLD STP at Sanjhariya which are under execution.<br><br>Also if there is any ambiguity in the guaranteed power consumption in the three schedules i.e. Schedule-VI, VII &VIII; the bid will be rejected. In case, 100 % power requirement is not mentioned in Schedule VIII, then there will be ambiguity with schedule VI and schedule VII.<br><br>Hence, we feel that the bidder shall be required to fill power consumption at 100 % of incoming flow in the 6 th year of O&M period in schedule VIII<br><br>Kindly confirm.</td>
<td></td>
</tr>
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| 201. | | Pg. No. 553 | <table><tr><td>SR. NO.</td><td>DRAWINGS</td></tr><tr><td>1.</td><td>PROCESS FLOW DIAGRAM</td></tr><tr><td>2.</td><td>PLANT LAYOUT</td></tr><tr><td>3.</td><td>HYDRAULIC FLOW DIAGRAM</td></tr></table> | Kindly provide the Plant Layout and Hydraulic flow diagram as they are missing from tender document.<br><br>Also please share the AutoCAD Drawing of Site Layout for drawing preparation. | Drawings given in bid document are indicative only. Bidder shall develop his own drawings based on actual site conditions. |
| 202. | | Page No. 566 | The cost of such maintenance will be included within its contract price for a total operation and maintenance for a period of 3650 days from the date of taking over of the plant by the Employer after completion | The O & M period is 60 months (1825 days) as mentioned in "A) SCOPE OF WORK:" Page No. 179. Hence, We understand that Bidder has to consider 1825 days of O & M Period and not 3650 days.<br><br>Please Confirm. | Bidder's understanding is correct. The O&M period shall be 60 months and here Bidder has to consider 1825 days of O & M Period and not 3650 days. |
| 203. | | Page 539 | | We understand that the tender calls for turbo blowers. However, the aforesaid clause only provides approved makes for roots blower and not for Turbo blowers.<br><br>Hence, we understand that Turbo blowers of reputed makes like Jash invent, Gardner Denver, SBS-turbowin are acceptable.<br><br>Kindly Confirm. | No change. Bidder may opt. change of make/ provider in unavoidable conditions and with prior approval of EIC. |
| 204. | | Page No. 228 | All the cost for Operation and Maintenance of the Plant such as Chemicals and Consumables, Disposal of Screenings, Grit and Dewatered Sludge, Manpower, | As per tender, the cost of diesel shall be in bidder's scope during O&M period of the plant. In the | Bid condition prevails |

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| | | | Spares, Repair and Maintenance of Civil, Mechanical, Electrical, Instrumentation Items including all other major/minor repairs, breakdowns, replacements, Diesel cost for DG etc. excluding Cost of Electricity shall be in the scope of the Bidder | previous tenders of JDA i.e. 30 MLD STP at Nevta & 43 MLD STP at Sanjhariya which are under execution, the diesel required for DG set was in employer's scope. The required diesel quantity was to be reimbursed to the contractor during O&M period as per prevailing rate of diesel for which contractor had to produce original invoices of diesel.<br><br>Hence, we request you to kindly include the cost of diesel for DG set in employer scope as per previous JDA tenders. Please confirm. | |
| 205. | | Page 488 of 722 | System Description-Electrical Works<br>Each STP with 33 kV power sub-station shall be constructed and single power source shall be feed to MPS & STP's.<br><br>AND<br>The 33kV indoor switchboard shall consist of two incomer VCBs (with line VTs), a bus coupler VCB and VTs on both the bus sections along with two nos of outgoing VCB feeders. One VCB incomer with 2 outgoing VCB feeders along with one Bus coupler as per requirements. | Referring to these clauses, both are contradictory one clause refers to consider 3 VCB Panel (1 Incomer +2 Outgoing) and other one refers to consider 5 VCB Panels (2 Incomer + 1 Bus coupler + 2 Outgoing) .<br><br>For our previous experience We understand that Single Source, 33 KV,3 Phase, 50 Hz, Electrical Power Shall be made available at the premises of the proposed site up to the metering panel. | One VCB Incomer with 2 outgoing VCB Feeders along with one Bus Coupler as per the requirements. |

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| | | | | Kindly confirm. | |
| 206. | | | Diesel Generator | Kindly arrange to provide min/max working hrs for DG. | Bidders are advised to visit the site & assess such data. |
| 207. | | | Drawings | For better understanding of the plant, you are requested to provide Single Line Diagram / Power distribution philosophy of the plant. | Drawings given in bid document are indicative only. Bidder shall develop his own drawings based on actual site conditions. |
| **14** | **Online queries :** | | | | |
| 208. | | SBR 184& 195 | Cycle acceleration / overlapping during Peak flow shall not be allowed.<br><br>The SBR sizing and design shall be such that the proposed cycle times, number of cycles per day, and phase times within each cycle shall all remain fixed up to the specified design peak day flow i.e. SBR to be designed for peak flow requirement without advancing time / no. of cycles.<br><br>No acceleration or premature advancing of cycles shall be allowed up to the peak day flow. | The tender specifies No acceleration or premature advancing of cycle's upto peak day flow. We understand SBR is a proven advance technology and restriction on the cycle's acceleration or premature advancing would downsize the competition. We understand, bidders should be allowed to provide the SBR technology as per the SBR technology provider to have healthy competition.<br><br>Kindly confirm. | No change |
| 209. | | Aeration 184 & 195 | Only Fine Bubble Type, EPDM / PU Membrane Diffusers shall be acceptable with minimum Membrane Diffusers to Floor Coverage Area of 5%. Diffusers shall be panel / tubular type. In case tubular | The tender specifies, the diffusers as fine bubble type, EPDM/PU membrane diffusers. We request you to kindly allow the bidders to | No change |

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| | | | type Diffusers are used, only top half surface area of the Diffuser shall be considered for supply of air. | provide diffuser system for aeration tank as per the design offered by the SBR technology provider as fine bubble/ Disc type diffusers with diffuser membranes as EPDM/PU or equivalent. This will help the diffuser suppliers to gain equal chance in the competition in the market and helps in optimization.<br><br>Kindly confirm. | |
| 210. | | SBR<br>198 & 449 | Cycle times shall be selected adequately by the Bidder considering min. 12 hrs/day Basin of aeration and not exceeding decanting of 2.40 m liquid depth at any time with preferred cycle times containing max. 50% not aerated portion. | We understand SBR as a technology may have different philosophy in sizing and operation and restriction on the aeration time and decant depth would downsize the competition and unable the optimization of the design. Therefore, we request you to kindly allow the bidders to provide the Cycle time of aeration and decant depth at any time with preferred cycle times as per the design offered by the SBR technology provider for most advanced and proven SBR technology thereby meeting Standards of the Treated Sewage / Effluent Quality as per the requirements specified in the tender. | No change |

<table>
<tr><th>S. NO.</th><th>ISSUE NO.</th><th>CLAUSE NO. CHAPTER NO.</th><th>AS PER TENDER DOCUMENT</th><th>PARTICIPANT'S QUERY</th><th>RESPONSE/ CLARIFICATIONS</th></tr>
<tr><td></td><td></td><td></td><td></td><td>Kindly confirm.</td><td></td></tr>
<tr><td>211.</td><td></td><td>Decanter<br>196</td><td>Weir loading for each decanter shall not exceed 140 m3/hr/m of the inlet weir.</td><td>The tender specifies, weir loading for each decanter shall not exceed 140 m3/hr/m of the inlet weir. We understand SBR as a technology may have different philosophy in sizing and operation and restriction on the weir loading for each decanter would downsize the competition and unable the optimization of the design. Therefore, we request to kindly allow the bidders to provide the SBR design as per the SBR technology provider with optimization in order to have healthy competition in the market.<br><br>Kindly confirm.</td><td>No change</td></tr>
<tr><td>212.</td><td></td><td>Inlet Parameters<br>197 & 454</td><td><table><tr><td>2</td><td>Biochemical Oxygen Demand (BOD5)</td><td>600</td><td>mg/l</td></tr><tr><td>3</td><td>Chemical Oxygen Demand (COD)</td><td>1100</td><td>mg/l</td></tr><tr><td>4</td><td>Total Suspended Solids (TSS)</td><td>600</td><td>mg/l</td></tr></table></td><td>The BOD, COD, and TSS values specified in the tender for the SBR inlet are BOD = 600 mg/l, COD = 1100 mg/l, and TSS = 600 mg/l. We understand that these values are significantly higher and do not align with the CPHEEO manual's recommended inlet parameters (BOD: 250 mg/l,</td><td>No change</td></tr>
</table>

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| | | | | COD: 425 mg/l, and TSS: 375 mg/l).<br>It is possible that industrial wastewater could be mixing with the raw sewage.<br><br>Kindly confirm. | |
| 213. | | Approved Makes<br>185 | Level Transmitter, Level Switch & DO meter | We request you to kindly add Xylem make for DO and Level transmitter and Pune Techtrol for Level switch as supplier in approved vendor list. | No change |
| 214. | | DISINFECTION (CHLORINATION) UNITS<br>541 | The secondary treated sewage shall be led to Chlorination system for disinfection. Chlorination Units shall consist of Chlorine Contact Tank and Chlorine House & Tonner Room. | Upon site visit we understand there is a space constraint. We propose to allow disinfection using UV System which takes only 15% of space as compared to chlorination system and also have the following benefits –<br>1. Shorter contact time compared to chlorination, resulting in smaller footprint<br>2. Lower civil costs (15% of chlorination)<br>3. Lower operational and maintenance requirements<br>4. Ability to meet stringent NGT norms<br>5. Can be upgraded in future to reuse standards | No change |

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| | | | | 6. Eliminates the concerns of storage and handling issues associated with chlorine gas<br>7. Chemical free disinfection process, no by product formation ensuring the safety of the aquatic life | |
| 215. | | SBR 202 | Cycle acceleration / overlapping during Peak flow shall not be allowed.<br><br>The SBR sizing and design shall be such that the proposed cycle times, number of cycles per day, and phase times within each cycle shall all remain fixed up to the specified design peak day flow i.e. SBR to be designed for peak flow requirement without advancing time / no. of cycles.<br><br>No acceleration or premature advancing of cycles shall be allowed up to the peak day flow. | The tender specifies No acceleration or premature advancing of cycles upto peak day flow. We understand SBR is a proven advance technology and restriction on the cycles acceleration or premature advancing would downsize the competition. We understand, bidders should be allowed to provide the SBR technology as per the SBR technology provider to have healthy competition.<br><br>Kindly confirm. | Bid conditions prevails |