

**Government of Rajasthan  
Urban Development & Housing Department,  
through  
Jaipur Development Authority**

**CLARIFICATION-1**

**FOR**

**Selection of a Bidder under Swiss Challenge Method  
for Rejuvenation of Amanishah Nallah (Dravyavati  
River), Jaipur (Rajasthan) including Area  
Development on Turnkey Basis, and its Operation &  
Maintenance (O&M) for a Period of 10 Years**

**NIB No. 17/2015-16**

**(9<sup>th</sup> January, 2016)**

A pre-bid meeting for Selection of a Bidder under Swiss Challenge Method for "Rejuvenation of Amanishah Nallah (Dravyavati River), Jaipur (Rajasthan) including Area Development on Turnkey Basis, and its Operation & Maintenance (O&M) for a Period of 10 Years" was held on 28.12.2015 at 3.00pm in Manthan Hall of JDA. Following are the clarifications on the queries raised by the various participants:

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| <b>Participant -1</b> |           |                                      |                                      |   |  |
| 1.                    | 1)        | ITB 18.5                             | Bid Submission                       | Since considerable engineering and commercial issues are involved in the preparation of the bid, which will be clear only after the pre bid meeting on 28/12/2015, we request you to extend the bid submission date to at least 60 days from the date issue of the replies to pre bid queries | Refer Addendum-1 at Sr. No. 1&2  |
| 2.                    | 2)        | Section 3, cl 1- Evaluation Criteria | Land Area requirement per MLD of STP | Please confirm whether the area of 500 sq m per MLD is applicable to only the STPs and no the facility including SPS etc is included in this  | Kindly refer to Vol 2 Section 5.2 Scope of work pg. 8 heading "Land Requirement". The details of the work required to be done within the STP land limitation is defined therein. |
| 3.                    | 3)        | Section 3, cl 2- Qualifications      | 2a(i) - Civil Works                  | Please confirm any kind of Civil Construction Works will be considered for qualification purpose  | Confirmed  |
| 4.                    | 4)        | Section 3, cl 2- Qualifications      | 2a (ii) - STP                        | Please confirm that the bidder is free to choose the technology of the STP while working out their proposal   | Refer Sub-Clause 5.5.3.4, Section 5.5, Vol 2 (Page 37).  |
| 5.                    | 5)        | Section 3, cl 2 - Qualifications     | 2a (ii) - STP                        | We presume that tie up with specialist technology provider is not mandatory and bidder can offer their own technology. Please confirm   | Confirmed  |
| 6.                    | 6)        | Section 7                            | Schedule I - Terms of Payment        | Kindly consider the terms of payment proposed by us for STP as 40% on completion of Civil Works/40% on supply and storage of equipment/20% against installation and Commissioning. Also, pl   | No Change  |

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|                       |           |  |   | consider minimum 65% payment against supply and stacking at site for pipes   |   |
| 7.                    | 7)        | Section 7  | Schedule I - Terms of Payment   | The Terms of Payment are of generic nature and cover various activities and items. Hence we shall be submitting detailed billing break up against each item after award of contract and payment will be made against that Please confirm | Reference is invited to sub-clause 14.4 of Particular Conditions of Contract (PCC) which amply states that interim payments for Design-Build part of the contract shall be admissible as per further detailed break up to be submitted by the Selected Bidder (the Contractor) and approved by the Employer.  |
| 8.                    | 8)        | Section 9  | Drawings  | Please provide drawings in DWG/AutoCAD with Tentative locations of proposed STPs and SPS   | Soft copy of drawing was given to all the participants of pre-bid meeting on 29.12.2015. Any other bidder who wishes to have the soft copy of drawings may contact Director Engineering-II as mentioned in ITB 7.2.<br>Locations of proposed STPs and SPS are to be identified by the Contractor and are to be finalized with the approval of Employer. |
| 9.                    | 9)        |  | Site Visit  | Please arrange for a site visit for initial understanding on 29/12/2015  | Site visit was duly arranged on 29.12.2015 by the Employer  |
| <b>Participant -2</b> |           |  |   |  |   |
| 10.                   | 1)        | Volume 2D Drawings. PDF  | The Drawing Volume is in PDF format   | The Drawing Volume is in PDF format is not readable  | Refer reply at S.No. 8.   |
| 11.                   | 2)        | Final Volume 1 section 1 to 4 and 6 to 8 PDF, Page 39, Technical Eligibility | It has been mentioned that Power produced by the bidder during maintenance period will be reimbursed at the JVVNL rates | We presume that, JDA will continue to purchase power produced by the bidder even after closer of the contract at the JVVNL rates / Mutually agreed rate or bidder will be allowed to carry power producing plant.                        | Provision of DG set for power generation is part of the contract and shall always remain property of the Employer and refer Addendum-1 at Sr. No. 27.<br>The reimbursement for power shall be made in accordance with sub   |

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|        |           |   |   |   | clause 4.19 and 13.8 of PCC Part-B and shall be limited to Operations Service period only.  |
| 12.    | 3)        | Final Volume 1 section 1 to 4 and 6 to 8 PDF, Page 39 (STPs ) and | It has been mentioned that DBO contract including design, construction, supply, installation, testing & commissioning and O&M for at least 3 year of a single STP of at least 40 MLD capacity having the same technology that being proposed by the bidder for implementation of the Project. | The bidder should be allowed to use same technology or better technology available for implementation of the Project  | The bidder is to bring in proven technology as per the stipulations of the bid document (Refer Clause 2 Section 3, Vol 1, Pg 3)   |
| 13.    | 4)        | Final Volume 1 section 1 to 4 and 6 to 8 PDF, Page 34 ITB 19.1    | The last date of bid submission is 5 PM on 11.01.2016   | This is a DBO contract of large magnitude for which successful bidder has to pay Rs. 1.75 Crore to Project Proponent as a cost for preparation of DPR, but till date complete details of DPR including designs, drawings and data's in readable document has not been provided, It is requested that bid submission date should be extended two months from the date of providing complete details of DPR to bidders in readable/original format. | Refer Addendum-1 at Sr. No. 1&2 Proponents DPR already forms a part of Bid document. Soft copy of drawing was given to all the participants of pre-bid meeting on 29.12.2015.                                       |
| 14.    | 5)        | Volume 2 Technical bid section 10 PDF page 196 C                  | The Total Project Cost with NPV of O&M cost is mentioned Rs. 2056.61 Crores   | The Project cost mentioned is Rs. 2056.61 Crore, while Tender has been called only for project cost of Rs. 1750 Crores. Hence Tender cost is less than Rs. 306.61 Crores for DPR Cost. Please clarify which components of DPR costing Rs. 306.61  | Rs. 2056.61 is the cost of project as per Project Proponent's perception. Employer's Requirement, Section-5 is a part of the Bid document and the entire work has to be carried out as per this section. The bidder |

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|        |           |   |   | Crores are not to be executed/excluded in tender value. And if as per Employer requirement the estimated Tender cost is only Rs. 1750 Crores, than why bidder should pay Rs. 1.75 Crores to Project Proponent for preparation of defective DPF having excess cost of Rs. 306.61 Crores   | has to make its own assessment of the cost and submit its bid accordingly.<br>Refer ITB 39.1 for reimbursement of cost of DPR to Project Proponent.  |
| 15.    | 6)        | Volume 2<br>Technical bid<br>section 10 PDF<br>page 15, clause<br>1.2 The<br>Assignment | As per above clause TATA Projects were assigned by JDA to prepare DPR under Swiss Challenge Guide Lines | a) As per Swiss Challenge Method TATA Project have submitted their Proposal for this work for Rs. 2056.61 Crores. And there after JDA has evaluated the above cost of TATA project to Rs. 1750 Crores. Hence we presumed that the final evaluated cost of Project Proponent is Rs. 1750 Crores. This is approximately 15% less than the Project cost submitted by TATA Project i.e. 2056.61 Crores<br>b) We presume that TATA Project will not participate in the Tender Process and if the bid price of lowest bidder is less than Rs. 1750 Crores, then bid will be awarded to Lowest bidder without giving chance/offer to TATA Project for matching the offer of Lowest bidder | a) Clarified at S.No. 14 above<br>b) It is clarified that the Bid process is governed by the Rajasthan Transparency in Public Procurement Act 2012 and the Rules framed there-under according to which the Project Proponent shall submit the bid as per the bid documents.<br>For Award Criterion, refer sub-clause 36, ITB Section-I which explicitly elaborates the procedure to be adopted for award of work if the Bid submitted by the Project Proponent is not the Lowest Evaluated Bid.<br>Also, refer Addendum-1 at Sr. No. 4 |
| 16.    | 7)        | Volume 2<br>Technical bid<br>section 5  |   | If query of Para 6 b is not agreed then this is an EPC contract invited by Employer as per requirement enumerated in Volume 2 Technical bid section 5, and any bidder including TATA Projects having prequalification's will participate in the bid process. The bid will be awarded to Lowest successful bidder without giving any price matching offer to any bidder as  | Refer clarification at Sr. No. 15 above  |

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|                       |           |   |   | per process of EPC Tenders.  |   |
| 17.                   | 8)        | Volume 2<br>Technical bid<br>section 5 page<br>59 B Annexure 2                      | Reach wise 100 year frequency flood computed by Project Proponent by rational method in various reaches is attached at Annexure 2                                     | We presume that 100 year frequency flood computed by Project Proponent is final and no further study/approval is required for 100 year frequency flood. And Nallah sections are is to be designed to pass discharge Annexed at Annexure 2  | Refer Clause 5.2.3.1.(A) for re-verification of nallah sections on flood based on 100 year recurrence period.<br>The sections are proposed based on available land and future plans. However, if due to any unavoidable circumstances, if section is bound to change, it would be dealt in Clause no. 13 Section 6 GCC Variations and Adjustment. |
| 18.                   | 9)        | Volume 2<br>Technical bid<br>section 5 page<br>32 A Survey Investigation and design | It has been mentioned that Re verify and fine tune the complete hydraulics of the system  | If complete hydraulics of the system is to be re verified please clarify who will approve the hydraulics of the system. And if there is any increase of 100 years frequency flood, then the cross section of nallah will be designed for increased flood, thereby increasing the cost. How this increase in cost shall be compensated. | Employer will approve it.<br><br>Refer Clarification at S.No. 17 above.   |
| 19.                   | 10)       | Volume 2<br>Technical bid<br>section 5 page<br>61 Check Dams                        | It has been mentioned that Masonry check dams has to be constructed to maintain 10 cm high water column   | We propose that in place of Masonry Check Dams, as per latest light weight Rubber Dams may be allowed, which can be constructed on all type of foundations and successfully constructed and maintained in India also.  | No change<br>It is proposed to keep the check dams as hollow to accommodate any pipes etc in future.  |
| <b>Participant -3</b> |           |   |   |  |   |
| 20.                   | 1)        | Section 3 page<br>39, clause 2 a) ii  | The bidder may associate with one Specialist Technology Provider for proposed technological aspects related to STPs. The experience of same shall be duly considered. | Technology Providers have experience of Design and Commissioning of STPs and not of Construction. Hence, request you to please modify the clause as below :<br>Modification requested: The specialist Technology Provider must have Designed and Commissioned of at least one STP of   | The Specialist Technology Provider is required to have experience in the Technology aspect of the process which will include ensuring that the construction is as per design along with the other responsibilities but it does not mean   |

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|                       |           |                                       |                        | 40 MLD Capacity or higher of the same process technology as proposed for this contract which has been operating successfully for a period of minimum 3 year over a period of last 5 years  | that he has constructed the same. The stipulations do not require any change. |
| <b>Participant -4</b> |           |                                       |                        |  |   |
| 21.                   | 1)        | Section 1, Clause 36.1 Award Criteria |                        | It may please be clarified whether, the original project proponent would also participate in the bidding like any other prospective bidder or not? In case the project proponent is not going to participate in the bidding, it is requested that the final evaluated price of the project proponent may be formally declared transparent bidding process.   | Refer Sr. No. 15 above.   |
| 22.                   | 2)        | Section 1, Clause 36.2 Award Criteria |                        | The 15% price preference to the project proponent is very high and would be a highly deterrent to participation by other bidders and exceedingly limits the competition. Even price preference given to certain government firms & undertakings in the past for some government contracts never exceeded 10%. In order to encourage participation by other qualified bidders for reasonable level playing field, wider and healthy competition, we feel it should not be more than 5%. Further, allowing 15% price preference tantamount to extending 15% additional profit to the project proponent over and above the other bidders, which we feel is not justified. JDA may kindly consider reducing the percentage to a reasonable so that prospective bidders are | Refer Sr. No. 15 above.   |

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|        |           |  |                        | not discouraged at there should itself.   |  |
| 23.    | 3)        | Section 2: Bid Data Sheet Purpose of issue of the Bid Document : ITB 1.1 (V) |                        | Since the bids are invited by JDA, on the perusal and basis of DPR prepared by the project proponent, JDA is expected to take responsibility of its authenticity, completeness, relevance or usefulness. In case JDA doesn't want to endorse or validate the DPR including items, quantifications and costing independently, which would require at least three months time. It is therefore requested that sufficient time of minimum three (3) months may please be given to the bidders from the date of pre-bid clarifications for study, preparation and submission of bids.   | Refer Addendum-1 at Sr. No. 1&2                                      |
| 24.    | 4)        | Section 2 Bid Data Sheet Employer's Requirement                              |                        | Some of items of scope of work and employer's requirement are not distinguishable such as (i) to make it central attraction in Jaipur city (ii) construction of falls at strategic locations (iii) construction of reservoirs at various location (iv) development of public spaces and mass sitting/gathering spaces (v) parallel road wherever possible. JDA may kindly spell-out the scope and requirements in more specific and unambiguous manner for better appreciation of requirements and uniform understanding by bidder also to avoid differences during implementation. | Refer Employer's Requirements (Section-5) for detailed scope of work |
| 25.    | 5)        | Section 2 Bid Data Sheet ITB 19.1 Bid Due date                               |                        | As brought out above, the last date for submission of online bid may please be extended by two months from the date providing clarifications on the pre-bid   | Refer Addendum-1 at Sr. No. 1&2                                      |



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|        |           |   |                        | queries.  |  |
| 26.    | 6)        | Section 2 Bid Data Sheet ITB 39.1 Performance Security                                |                        | Performance Security of 5% of accepted contract amount is very high and bidders have to lad substantial amount towards the same in their bid Price. This may please be reduced to 2.5% for competitive pricing.   | No change  |
| 27.    | 7)        | Section 2 Bid Data Sheet ITB 40 SPV Formation and Para (i) of Letter of Technical Bid |                        | Since this is not a typical PPP project (BOOT/BOOT) it can be implemented and managed with a JV mechanism in case of consortium with joint and several responsibilities instead of incorporation of SPV. The option of formation of a JV or SPV for implementation of project may please be left with the bidders for their operational convenience.  | Refer Addendum-1 at Sr. No. 5  |
| 28.    | 8)        | Section 3 Evaluation and Qualification Criteria Land Area requirement per MLD of STP  |                        | It may be clarified that in case a bidder asks for additional land over and above 500 sqm per MLD in his bid, whether such additional land will be provided by JDA free of charge or at Rs. 22000/- per sqm? As per our understanding additional land would be provided free of charge. Further, in case bidder doesn't ask for additional land at the time of bidding, but would require the same later during implementation then he would be charged @ Rs. 44,000/- per sqm, which is very high. Since the land is not transferred to the selected bidder perpetually, the rate for leasing of land for 10 years should be reasonable and on yearly basis. | No change<br>Rate of Rs 22000/- per sqm for additional land is only for the purpose of evaluating the Price Bid. It is clarified that such additional land (sought as per TECH-2) at the time of bidding shall be provided free of cost subject to availability set out in bid document (refer Point No. 1(iii) of Sec 3 Evaluation and Qualification Criteria)<br>It is further clarified that in case the bidder doesn't ask for additional land at the time of bidding, but would require the same later during implementation then he would have to pay for such additional land area @ Rs. 44,000/- per sqm. (refer |

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|        |           |   |                        |   | Vol 1 Sec3, Clause 1(iii), Pg.2)  |
| 29.    | 9)        | Section 3<br>Evaluation and Qualification Criteria<br>Technical Eligibility (STP) |                        | It is understood that the bidder who is meeting the civil works experience criterion, can have a suitable tie-up (in form of an association or letter of commitment or sub-contract arrangement or technology provider or O&M operator) with any firm who meets the STP experience criterion and such tie-up need not be Joint Venture or Consortium. Further, no Consortium Agreement or MoU need to be executed before bidding. Kindly confirm. | Refer Clarification S.No. 20 above.   |
| 30.    | 10)       | Section 3<br>Evaluation and Qualification Criteria<br>Technical Eligibility (STP) |                        | It is stipulated that DBO and O&M for at least 3 years of a single STP of at least 40 MLD capacity having the same technology that is being proposed by the bidder for implementation of the Project, which we feel is a restrictive provision. In the best interest of the project, the selected bidder should be allowed to use same or better technology for implementation.   | No change<br>The bidder is to bring in proven technology as per the stipulations of the bid document (Refer Vol 1 Section 3 Clause 2 Pg 3). |
| 31.    | 11)       | Section 4<br>Bidding Forms<br>MoU Consortium Agreement                            |                        | The bidders may please be allowed to make changes in the format to meet with Joint Venture requirements as requested at 8 above.  | No change   |
| 32.    | 12)       | Section 7<br>Particular Conditions of Contract 1.1.78                             |                        | Time for completion of Design Build is stipulated as 2.5 years, which is very less and commensurate with the scope of design and implementation. For proper study and design followed by detailed master plan would require at least 6 to 9 months time and physical implementation would require more than 3 years.  | No change   |

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|        |           |  |                        | Therefore total Design-Build period may please be increased to minimum 4 years.  |                         |
| 33.    | 13)       | Section 7<br>Particular Conditions of Contract 4.2   |                        | As requested above the performance security BG. which is being taken in addition to retention money may please be reduced to 2.5% of the accepted contract price.  | No change               |
| 34.    | 14)       | Section 7<br>Particular Conditions of Contract 6.5   |                        | There may not be any restriction on the normal working hours on the site.  | No change               |
| 35.    | 15)       | Section 7<br>Particular Conditions of Contract 9.6   |                        | Delay Damages @ 0.045% of accepted contract amount per each day of delay is on much higher side, which may please be reduced to @ 0.01% and also the maximum about of delay damages may also be reduced to 5% of accepted Contract amount. | No change               |
| 36.    | 16)       | Section 7<br>Particular Conditions of Contract Compensation payable by Contractor 10.6 (a) |                        | This may please be reduced to the proportionate period of delays or interruptions caused by the contractor.  | No change               |
| 37.    | 17)       | Section<br>Particular Condition of Contract Compensation Payable by Employer 10.6(a)       |                        | Suitable amount of compensation should also be payable by employer in case of delays or interruption caused by the employer.   | No change               |

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|        |           | Compensation by   |                        |   |  |
| 38.    | 18)       | Environmental Clearance                                 |                        | The responsibility of obtaining environmental clearance for the project should be of Employer. This is very important for success of the project.   | Refer clause 1.14 of PCC, Part B Specific Provisions, Section-7  |
| 39.    | 19)       | Ingress of Industrial Waste / Effluent                  |                        | Upon preliminary assessment it is seen, certain amount of industrial wastes/effluents are also being discharged in to the Amanishah Nallah, which may required to be treated separately by suitable CETP mechanism. JDA may kindly clarify, in case of such requirement, how the contractor would be compensated for such additional costs. | The industrial waste will be treated separately by the Employer or by any other agency and such waste is not expected to find its way in Amanishah drain without treatment.                              |
| 40.    | 20)       | Re-use of treated water from STP                        |                        | National Green Tribunal may direct production re-use of treated water (instead of discharging in to Nallah) apart from for plantation and landscaping, in future. In such case how the water level in Nallah could be maintained?   | Recycling of treated wastewater for uses anticipated in the project is permitted.<br>Any change beyond Employer Requirement would be dealt as per Clause no. 13 Section 6 GCC Variations and Adjustment. |
| 41.    | 21)       | Volume 2 Technical Bid Section 5 page 59 B Annexure - 2 |                        | 100 year flood frequency computed by Project Proponent in various reaches has been given in Annexure 2. It is assumed that 100 ear frequency flood computed by Project Proponent is final and no further study/approval is required for the same Nallah section are to be designed to pass discharges accordingly. Kindly confirm.          | Refer clarification at Sr. No. 17 above.   |
| 42.    | 22)       | Volume 2 Technical Bid Section 5 page 32 A Survey       |                        | It is mentioned that the complete hydraulics of the system should be re-verified and fine-tuned. In such case. Kindly clarify who will approve the revised  | Refer clarification at Sr. No. 18 above.   |

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|        |           | Investigation and design                                  |                        | hydraulics of the system? And if there is any increase of 100 year frequency flood, then the cross section of Nallah will be re-designed accordingly, which increase the cost. How this increase in cost will be compensated to contractor? Kindly clarify.   |  |
| 43.    | 23)       | Volume 2<br>Technical Bid<br>Section 10                   |                        | The Total Project cost including NPV of O&M costs is mentioned Rs. 2056.61 Crores, whereas the estimate cost in bid document is mentioned as Rs. 1750 Crore only. JDA may kindly clarify about the difference in cost to an extent of Rs. 306.61.   | Refer clarification at Sr. No. 14 above.         |
| 44.    | 24)       | Volume 2<br>Technical Bid<br>Section 5 Page 61 Check Dams |                        | It has been mentioned that masonry check dams to be constructed to maintain required water level in the Nallah. We understand that the check dams can be constructed using alternate materials/methods such as rubber dams for enhanced efficiency, flexibility and speed of construction and also ease of maintenance. Kindly clarify. | Refer clarification at Sr. No. 19 above.         |
| 45.    | 25)       | Volume 2 D<br>Drawings PDF                                |                        | The Drawings given in Volume 2 D are in PDF format and majority of there are not readable. All the drawings may please be provided in Auto CAD form.  | Refer clarification at Sr. No. 13 above          |
| 46.    | 26)       |   |                        | Employer should clear the encroachments and provide encumbrance free site for construction to the contractor and time taken for the same should be in addition to the Design-Build period. Provision of encumbrance free site should be one of the conditions precedent before the commencement date.                                   | Refer Sub-Clause 2.1 Part B - Specific Provision |

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| 47.                   | 27)       |   |  | Since the Design-Build period is 2 1/2 years, it would be difficult to estimate and include the future escalation in construction costs at the time of bidding. It is therefore requested price escalation provision may be included for Design-Build period also for uniform and competitive bidding.   | No change   |
| 48.                   | 28)       |   |  | The approvals/permissions for shifting/relocation of utilities, tree cutting etc. should be facilitated by the Employer and time taken for the same should not be included in the Design- Build period and it should also be one of the preconditions for declaring the commencement date.   | The approval/ permission if required for tree cutting, refer clause 1.14 (d) & (f) PCC Part B Section-7<br>For Utility shifting, Refer clause 2.1 PCC Part B, Section-7 |
| 49.                   | 29)       |   |  | In case of delayed payments, interest payable to the contractor by Employer should be Bank Rate + 5% (500 basis points), which is the rate at which generally funds are available for working capital.   | No change   |
| 50.                   | 30)       |   |  | The cost of online monitoring of STPs should be reimbursed over and above quoted price   | No change   |
| <b>Participant -5</b> |           |   |  |  |   |
| 51.                   | 1)        | Section 3 Evaluation and Qualification Criteria, 2. Qualification a. Technical Eligibility, (ii) Sewage Treatment | Design, Build and Operate Contract including design, Construction, Supply, Installation, Testing and Commissioning and O&M for at least 3 years of a single STP of at least 40 MLD Capacity having the | We request department to please consider O&M experience of 40 MLD STP based on any proven technology for 2 years and instead of 3 years. If the bidder has proposed a different technology in this project then what he has experience, please clarify whether the experience of technology provider should be of min 40 MLD capacity and 3 years O&M. | No change   |

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|        |           | Plants (STPs)  | same technology that is being proposed by the bidder for implementation of the Project  |  |  |
| 52.    | 2)        | Section 3<br>Evaluation and Qualification Criteria, 2. Qualification a. Technical Eligibility, (ii) Sewage Treatment Plants (STPs) | The bidder may associate with one specialist technology provider for proposed technology aspects related to STP. The experience of same shall be duly considered  | Please confirm whether international project experience of technology provider will be considered  | Confirmed  |
| 53.    | 3)        | 5.3.2 Volume 2   | It is started that min capacity of treating 170 MLD of waste water is to be provided. On the same page it is started in para 1 that min 50 MLD Sewage is to be tapped from existing outfall sewer leading to Delawas STP, It may be noted that page 35 of 489 states that there are 2 STPs of 62.5 MLD capacity each operating at full capacity and there is a surplus flow which is untreated reaching to the downstream. Here it is also stated that access | We understand from the given details under said clause that proposed treatment facility with collection main and sump and pump house is to be provided for 50 MLD only. Please confirm and provide clarity on final capacity and actual scope of work. | Refer to Vol 2 Sub Section 5.5 clause 5.5.3.2 pg. 36 which clarifies the capacity of STP to be proposed. A minimum capacity of 170 MLD STP will have to be provided even if the need is assessed to be lower by the bidder and 50 MLD sewage is proposed to be taken from the outfall of the existing system leading to Delawas.<br>The tentative breakup of 170 MLD STP capacity is- 120 MLD sewage tapping from present tributaries, nallahs, and sewers, and 50 MLD to be tapped from outfall leading to Delawas from suitable location as decided by the Contractor. |

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|        |           |                        | volume is grossly estimated to be around 50 MLD  |  |   |
| 54.    | 4)        | 5.3.2 Volume 2         | Quality required for recycle effluent. The tender states that the capacity and location of STP will be governed by availability of raw sewage as well as to meet that need for use of recycled effluent for various uses like site development, construction activities, use in flush and washing in nearby group housing etc. | (a) This clause does not quantify the requirement of recycled effluent for various uses, Hence we understand that proposed 50 MLD capacity STP shall take care of the requirement for reuse of recycled effluent for various uses.<br>(b) We also understand that 170 MLD treated shall include effluent quantity from 2 existing STP each of 62.5 MLD and propose 50 MLD STP. Kindly clarify and confirm. | Refer Clarification at S.No. 53 above.  |
| 55.    | 5)        | Volume 2               | Drawing  | The Drawing provided are not clear, Kindly provide the AutoCAD drawings for working  | Refer Clarification at Sr. No. 13 above   |
| 56.    | 6)        | Volume 2               | Location of STP  | We understand that location of STP Plot shall not be at a distance of more than 100 mtrs from raw sewage sump and pump house which is to be located at existing outfall sewer. This may be clarified to consider the length of rising main.  | There is no restriction on choice of site of the STP which the contractor will have to finalise in consultation with Employer from amongst the land parcels available with it. Since the bidder will himself decide the location, the length of the raw sewage collection system to feed the STP and the length of the rising main to deliver the treated effluent to the Amanishah Drain will be proposed by the contractor as per his conception to fulfill the tender document requirement of flows in |



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|                       |           |  |   |   | various sections of the drain.   |
| 57.                   | 7)        | Volume 2                                 | Soil report                                   | Please provide soil investigation report for proposed STP Plot along with contour of plot   | The sites are to be finalized by the contractor himself in consultation with and after approval of the Employer. Investigations are to be done by the Contractor himself and designs are to be worked out accordingly. |
| <b>Participant -6</b> |           |  |   |   |  |
| 58.                   | 1)        | Vol 1, Section 2, Page 8 Clause ITB 19.1 | Dead line for bid submission                  | More time is required for additional site survey & investigations, detailed assessment of quantities and scope of work, subsequent to the availability of clear readable drawings requested below in queries at Sl. no. 3-7. It is requested to extend the Dead line for Bid submission of 11.01.2016 further by at least 02 months. Our request to extension of dead line for bid submission is also based on the fact that for preparation of DPR, project proponent has been allowed a period over one year, thus to submit a competitive offer, we request the extension of submission of bid by at least another two months. | Refer Addendum-1 at Sr. No. 2  |
| 59.                   | 2)        | Vol 2, Section 5, Page 16 Clause 5.1.29  | Protection of Overhead & Underground Services | Document states that - (1) Contractor shall be responsible for damage of known services and he has to take all necessary measures to protect them. (2) Mapping of underground utilities not shown on drawings or scheduled has to be done by the contractor.<br><br>Clarification - (1) Please provide the list of  | Refer Clause no. 2.1, PCC Part B, Section-7  |

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|        |           |                                |  | existing overhead & underground utilities with details such as location, type, extent, utility owner etc. to be protected.<br>(2) The cost of projection (Both known & unknown utilities) & mapping of underground utilities shall be dealt under the clause 13 of GCC - Variations & Adjustments Please Confirm    |  |
| 60.    | 3)        | Vol 2, Section 9               | Alignment plan of Nallah                               | Alignment plan of Nallah provided in the document is not readable. It is requested to provide Soft Copy in Auto CAD for better understanding.   | Refer Clarification at Sr. No. 13 above  |
| 61.    | 4)        | Vol 2, Section 9               | L-Section & Plan                                       | Plan & Profile in the document is not readable. It is requested to provide Soft Copy in Auto CAD for better understanding.  | Refer Clarification at Sr. No. 13 above  |
| 62.    | 5)        | Vol 2, Section 9               | Cross sections of Nallah                               | Cross section of Nallah are provided at the longitudinal interval of 1000m and are not readable. It is requested to provide X-sections at closer intervals, around 50m for more accurate assessment of the scope of work. It is requested to provide soft copies of X-section in Auto CAD for better understanding. | Refer Clarification at Sr. No. 8 above<br>The bidder is required to conduct fresh survey after the work is awarded.  |
| 63.    | 6)        | Vol 2, Section 9               | Cross sections of Nallah at Bridge & Culvert locations | X-section of Nallah at bridge & Culvert locations are available in the document. Details of Road crossing such as width of Road etc. are not shown in the drawing. Please provide these details for assessment of bridge & structure quantity.  | Remodeling of bridges and structures are not in the scope of present contract. However, if remodeling is required, Employer shall get the same done through any agency it deems appropriate. |
| 64.    | 7)        | Vol 2, Section 9               | Right of Way (ROW) along the alignment                 | Please provide ROW details along the alignment of Nallah.   | The preliminary details are available in drawing section-9.  |
| 65.    | 8)        | Vol 2, Section 10, Page 32-33, | DPR by Project Proponent                               | We understand that total STP capacity agreed for the project is 170 MLD   | Additional STP capacity if required shall be dealt under Clause 13 GCC-  |

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|        |           | Clause 4&5                              |                          | (excluding Delawas expansion). Any variation in the Quantity of Dey Item (STP) beyond 170 MLD shall be paid extra as per unit rates given in project cost estimate (DPR) or Shall be dealt under the Clause 13 of GCC-Variations & Adjustments. Please Confirm.   | Variation and adjustments.   |
| 66.    | 9)        | Vol 2, Section 10, Page 32-33, Clause 5 | DPR by Project Proponent | We understand that for key items like STP, Road, Street light, Trees & Landscaping, additional quantities beyond the quantities in project cost estimates (DPR) shall be paid extra as per unit rates in project cost estimates or shall be dealt under the Clause 13 of GCC-Variations & Adjustment. Please confirm. | Any additional quantity to the specifically stipulated quantity against Road, Street light, Trees & Landscaping in Employers requirements, Section-5 would be dealt under Clause 13 GCC-Variation and adjustments. |
| 67.    | 10)       |   |                          | Please clarify the status of forest clearance in the entire alignment for cutting of trees  | No such clearance is taken at present.   |
| 68.    | 11)       |   |                          | We anticipate that financing charges for delayed payment provided in the particular conditions are not sufficient. We request you to consider the financing charges minimum as per PLR + 1% of SBI  | No change  |
| 69.    | 12)       |   |                          | Please provide the details of Bisalpur Water Pipe Line Crossing with Amanishah Nallah   | The site may be visited along the Employer for better understanding again by the bidders. The Bisalpur pipeline wherever crossing the Nallah are not proposed to be disturbed.                                     |
| 70.    | 13)       |   |                          | Please confirm whether the entire stretch is encumbrance free, it not, mention the expected date of availability of encumbrance free land   | Refer to Sub-Clause 2.1 Part B-specific provision  |
| 71.    | 14)       |   |                          | Please clarify the status of ownership of   | Refer Sub-Clause 2.1 Part B -  |

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|        |           |                        |                        | land along the alignment whether it is owned by JDA or partly owned by other Government Departments.   | Specific Provision, Clause 5.1.22 Section 5 Employer Requirement. Also refer Table 7-11 of Project Proponent DPR as attached as Section-10 for indicative land availability  |
| 72.    | 15)       |                        |                        | Nallah alignment from Jhotwada - NBC Factory is parallel to Defense area, in such stretches, please clarify whether the ownership is with JDA or Defense department  | Employer with the concurrence of the concerned defence establishment has already put demarcation pillars on ground even at this stretch. It will be responsibility of Employer to make the required land available as per the approved work programme of the Contractor.     |
| 73.    | 16)       |                        |                        | We request to kindly let us know<br>(a) The rates considered in the DPR are market rates or Schedule of Rates and pertaining to which year<br>(b) The cost towards Master Plan has been considered but the cost towards detailed design is omitted. Please clarify.<br>(c) Can we have the breakup (calculation) of the Quantities mentioned in the DPR. | (a) The rates are mainly based on market rates assessed by the Project Proponent<br>(b) We have allowed bidders to receive payment for detailed designs as well as preparation of master plan in payment schedule<br>(c) Bidder has to make its own assessment of quantities |
| 74.    | 17)       |                        |                        | Whether any STP deleted from the project. If yes, then what capacity   | The question is not clear, the STP are to be proposed by the bidder as per stipulations of the bid document and there is no question of any deletion.  |
| 75.    | 18)       |                        |                        | Please provide detailed calculations/ analysis of the items proposed by the project proponent M/s. Tata & M/s. SUCG  | The details as provided by the Project Proponent have been enclosed in the document for information only.  |

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|                       |           |  |  |   | The contract will be governed by the bid document and the stipulations in the Project Proponent report will have no bearing. |
| <b>Participant -7</b> |           |  |  |   |  |
| 76.                   | 1)        | Section 5.4<br>Clause 5.4.7.6 B<br>Payment Terms | The Successful Bidder shall submit a further break up of prices for each of the parts stated in above Schedule I: Schedule of Payments Sub-Clause 14.4 of PCC Part B. Such breakup shall be submitted after completing Survey, Investigation, Planning and Design (Part A of Schedule I). Such breakup shall be submitted by the Contractor to fully justify its proposal. This break up shall be approved by the Employer after satisfying himself regarding its justification to avoid any front loading and appropriateness. The payments to the Contractor while executing the | <p>The payments shall be on the approved breakup to maintain effective cash flow. Hence we request to Delete the following from Clause 5.4.7.6 B.</p> <p>"After completing the construction of embankment final cross section levels shall be taken and the volume shall be arrived at and payment shall be made to that quantity only. "</p> | Accepted<br>Refer Addendum-1 at Sr. No. 7  |

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|        |           |   | Works (Design-Build Part) shall be made on the basis of such approved breakup.<br>" After completing the construction of embankment final cross section levels shall be taken and the volume shall be arrived at and payment shall be made to that quantity only. "  |  |   |
| 77.    | 2)        | PCC, Sec 7 Part Specific Provisions Clause 14.2 | The Employer will, if requested by the Contractor, make interest-free mobilization advance payments to the Contractor to assist in defraying the initial expenses that will necessarily be incurred by the Contractor for mobilization and design. The total of such advance payments, and the number and timing of instalments, shall be as stated in the Contract Data Particular Conditions of Contract Part A. | Contract Data Particular Conditions of Contract Part A, does not clearly specify the issuance of Mobilization Advance. Kindly confirm the mobilization | Refer Sub-clause 14.2 of Part A-Contract Data                                       |
| 78.    | 3)        | Section - 5.1 General Requirements              | 1.(vi) - 25% Earthwork in first 6 months.<br>1.(viii) - 10% Lining in  | It is not feasible to complete the activities in the 6 Months. Hence it is proposed to revise as following and the balance works                       | Refer Clause 2.1 of PCC Part B and Clause 8.3 of GCC (Volume-I) of Tender document. |

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|        |           | Clause 5.4.25.2   | first 6 months.  | can be moved to next milestone.<br>1.(vi) - 10% Earthwork in first 6 months.<br>1.(viii) - 0% Lining in first 6 months.   |  |
| 79.    | 4)        | Section 5.7, Clause 5.7.2.14 Additional Sewage Quantities | However, if pollutants load (kg/day) exceeds the design pollutant load per day basis, or total flow exceeds (total of STP capacity provided on 24 hr basis), no penalty shall be applicable. | Suitable mechanism for payment of extra quantities - beyond the designed capacity of 170 MLD incoming sewage load. Similarly payments mechanism for excess Road length, Street Lights, Manholes etc. to be made viz the unit rate submitted by the bidder for these items.<br><br>In this regard, we also need confirmation that for any additional quantities in Items such as Road length, Light, Plantation/Tree, Manhole etc. - suitable payment mechanism needs to be developed for payment against additional quantities. | Variations and Adjustments for additional work shall be dealt with as per clause 13 of GCC read with PCC.<br>As far as extra items for sewage manholes is concerned, there is no issue of any extra/excess item as the bidder is expected to assess the quantity required and include the same in his Price Bid. |
| 80.    | 5)        | Section 5.1 Clause 5.1.8.1 Facilities to Contractor       | There may be some encroachments on some of these spaces and buildings which may take some time in clearance, for which the Employer will not be held responsible.                            | Request employer to delete the statement and provide encroachment free site and parcels for design and execution of works in first three months. Unless clear ROW is provided for particular/entire stretch the design cannot be finalized. Kindly note the Invert levels and centerline approval is must to proceed with execution works particularly where STPs are located   | Refer Addendum-1 at Sr. No. 28<br><br>Also refer Clarification at S.No. 71 above   |
| 81.    | 6)        | Section 5.3 Clause 5.3.1.2 Redesigning of Nallah          | The Nallah section in all stretches of full length have been designed and mentioned elsewhere in the tender document. But Contractor shall redesign the Nallah                               | Kindly confirm if the bidder is free to modify the design, is it mandatory to provide M25 grade of concrete lining with minimum 20 cm thick in the lined sections of Amanishah Nallah.  | Refer Clause No. 5.4.3.2 (B) under Cement Concreting bedding/ Lining and Strengthening.<br><br>Also Refer Addendum-1 at Sr. No. 11<br><br>It is further clarified that no  |

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|        |           |   | section for high flood of 100 years recurrence period, based on the field data collected by the survey. The new designed Nallah section will be checked by department and may be considered for the construction; if redesigned section worked out smaller than as proposed in tender document. Contractor has to justify the new design with the applicable engineering standards and take the approval of Employer's Representative. |   | additional payment shall be admissible by the Employer if grade of concrete and lining thickness as per design proposed by the bidder is superior than as prescribed in the Bid document. |
| 82.    | 7)        | PCC Part B Clause 13.8 Main Clause in GCC     | The Particular Conditions of Contract (PCC) Part B - Specific Provisions, covers amendment /addendum to the General Conditions of Contract (GCC - Section 7).  | The Main clause 13.8 could not be found in GCC. Please clarify.   | Refer Addendum-1 at Sr. No. 10  |
| 83.    | 8)        | General Post Completion of Design Build Works |  | After execution of works by bidder in 30 months, any new sewerage network by Individual/Govt agency/builder - will have to be joined with Common carrier pipe, for which the costs and responsibility will be borne by the respective Individual/Govt | It is clarified that cost of new sewer network to connect it to common carrier pipe shall be borne by the respective government/ private agency.  |



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|        |           |  |   | agency/builder and the Bidder shall not be responsible.  |  |
| 84.    | 9)        | Section 5.1<br>Clause 5.1.5 and 5.1.24 Trial Run and Commissioning | After execution of the works the Contractor shall make trial runs of the individual components. A continuous operation of the component for a period of 7 days to the satisfaction of the Employer's Representative will be deemed to demonstrate satisfactory completion of trial run for the individual component.....<br>.....The duration of the Trial Run and test period is 30 days and the Commissioning Period is 60 days | The trial run period in the clause is varying. Kindly confirm if the trial run period is 7 days or 30 days             | Trial run for individual component is 7 days as specified in clause 5.1.5 and total period available for the entire system is suggested as 30 days specified in clause 5.1.24. |
| 85.    | 10)       | Section 5.6<br>clause 5.6.3 Landscaping and Area Development       | For improvement of aesthetic view of project area; landscaping works shall be executed at two defined locations:<br>· Along the length of channel<br>· Additional landscape area of 65000 sq m in minimum two blocks  | Our understanding is a total of 65000 sqm of area will be developed along the entire length of Nallah. Please confirm. | Confirmed  |
| 86.    | 11)       | Section 5.6  | Additional landscape  | Both the clauses specify providing Area of   | Confirmed  |

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|        |           | Clause 5.6.3 and 5.6.4 Landscaping and Area Development | area of 65000 sq m in minimum two blocks.....<br>.....This includes specifications for Public Park and open spaces proposed to be developed under current project. In totality an area of 65000 sq m is proposed to be developed under name landscape and park. | 65000 sqm to be developed. Kindly confirm if these two clauses are referring to the same single requirement of 65000 sqm.                         |                                |
| 87.    | 12)       | Section 5.2 Clause 5.2.4.2 (A) Plantation               | A 2 meter wide strip of land on both the flanks is to be provided in between the masonry dowel and the road. For planting of trees, which are to be planted with in the strip at a distance of 3 meters all along the length of Nallah.                         | We propose the plantation at a distance of 7.5 Mtr C-C as the plantation at a distance of 3 Mtr C-C will be very small after the growth of trees. | Refer Addendum-1 at Sr. No. 12 |
| 88.    | 13)       | Section 5.7 Clause 5.7.2.2 Extension of O&M Duration    | The duration of the O&M shall be 120 months from the date of successful commissioning of the STPs. The same can be extended for the further period if the Employer so desires.  | We propose if the employer desires to extend the duration of O&M. A separate O&M contract to be signed with the contractor specific to O&M.       | No change.                     |
| 89.    | 14)       | Section 5.6 Clause 5.6.3.1 Height of Trees              | As per clause 5.6.3.1: Supply of plant at site of two years of age & height   | Clause 5.6.4.3 needs correction   | Refer Addendum-1 at Sr. No. 13 |

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|        |           |  | more than 1.50 m<br>As per clause 5.6.4.3:<br>Height of plant is 10 ft   |  |                                |
| 90.    | 15)       | Section 5.2<br>Clause 5.2.4.B<br>Electrical<br>Transformers  | 33/3.45kV, Dyn11, ONAN<br>transformers with OLTC<br>and RTCC panel   | This clause refers to 33kV/3.45 kV<br>Transformer.<br>This 3.3 kV requirement is not mentioned<br>in cl. 5.5.3.8 (Pg.144.) Please confirm                                      | Refer Addendum-1 at Sr. No. 14 |
| 91.    | 16)       | Section 5.5<br>Clause 5.5.3.3<br>(B) Design Build<br>Service | The Contractor's design<br>for the entire facility<br>shall be such that the<br>project<br>shall.....(Incomplete)  | The Clause is incomplete. Please provide<br>complete Clause.   | Refer Addendum-1 at Sr. No. 15 |
| 92.    | 17)       | Section 7 Clause<br>Liquidated<br>Damages Delay              | To ensure good progress<br>during the execution of<br>work, the contractor<br>shall be bound to<br>complete 2.0% of the<br>whole of the work before<br>1/5th of the whole time<br>allowed under the<br>contract has elapsed,<br>25% of the work before<br>2/5th of such time has<br>elapsed, 55% of the work<br>before 3/5th of such<br>time has elapsed, 85% of<br>the work before 4/5th of<br>such time has elapsed<br>and 100% by the<br>stipulated completion<br>date. | We propose, the Liquidated damages will<br>not be levied for the delays not<br>attributable to the contractor. And the<br>Milestone based Liquidated Damages to be<br>deleted. | No change                      |
| 93.    | 18)       | Section 5.7<br>Clause 5.7.2.12<br>and 5.7.2.14               | The inlet, outlet and<br>treated water in<br>Amanishah nallah flows  | The performance measurements with two<br>different methods and two different<br>penalty structure is inappropriate, hence  | No change                      |

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|        |           | Liquidated Damages for performance shortfall during O&M | <p>parameters stipulated shall be checked daily at least 4 times and recorded (timings 9: am, 3:00 pm, 9:00 &amp; 3:00 am). The parameters will be observed every hour on two days (1st &amp; 15th of every month) and a weighted average of the values calculated.</p> <p>* An event is defined as online reporting duration, not exceeding 3 minutes i.e. a maximum of total 30 minutes a day i.e. 98% system reliability.</p> <p>** An event is defined as daily composite sample, not exceeding one nonconforming sample in 30 days i.e. 97% system reliability.</p> | we request to LDs for performance to be defined in one method only.  |                                       |
| 94.    | 19)       | Section 4 Bidding forms Board Resolution                | and execute a power of attorney in favour of the Company as the Lead Member  | We propose, it to read as "execute a power of attorney in favour of Mr ____, employee of the company to represent the lead member in the consortium" | No change                             |
| 95.    | 20)       | ITB-5 b. SPV  | The Lead Member shall hold equity shareholding of at least 51% (fifty one percent) of the subscribed and paid up   | To form a project specific consortium (as in this case), no SPV is required neither any equity is required, hence we request delete this requirement | Refer Clarification at S.No. 27 above |

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|        |           |   | equity of the Contractor/Special Purpose Vehicle throughout the Contract period.   |   |  |
| 96.    | 21)       | Section 14.18 of GCC Asset Replacement                          | The Asset Replacement Fund is to provide the necessary funding for the replacement of items of Plant identified in the Asset Replacement Schedule as required for the continued efficient operation of the Works for the duration of the Operation Service Period. | Please clarify the mechanism of creation of Asset Replacement Fund.   | Contractor has to operate and maintain the project assets during the entire operation services. There shall be no provision for Assets Replacement Fund in the Contract.                             |
| 97.    | 22)       | Bidding form Tech 1 Power Cost                                  | No reimbursement for power cost shall be admissible during Design-Build Period including commissioning and trial runs  | We have considered power cost - 30 days for commissioning and 7 days for trial run of each STP, any further time period required shall be paid by JDA as per actuals - please confirm | The entire cost of power and other inputs as required to satisfactorily complete trial run and commissioning shall be a part of the Price Bid and no reimbursement shall be admissible for the same. |
| 98.    | 23)       | Section GCC Clause 1.14 Statutory Clearances/approvals /permits | d. Preparing applications in accordance to standard procedures for obtaining all statutory clearances and approvals required from Government of Rajasthan and/or Government of India, including all environmental clearances, permission from highway and railway  | We understand the JDA shall obtain all the necessary statutory clearances/ approvals/ permits w.r.t. environment, forest, PCB etc.  | Refer clause 1.14 of PCC, Part B Specific Provisions, Section-7  |

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|        |           |  | authorities, inland waterway authorities, forest authorities and any other such authorities as may be required  |   |  |
| 99.    | 24)       | Section 4.13 of GCC Rights of Way and Facilities | Rights of Way and Facilities: The Contractor shall bear all costs and charges for special and/or temporary rights-of-way which he may require, including those for access to the Site. The Contractor shall also obtain, at his risk and cost, any additional facilities outside the Site which he may require for the purposes of the Works. | We request Employer to provide all special /temporary rights-of-way   | No change  |
| 100.   | 25)       | Section 14.2 part B PCC Payment terms Advance    | Schedule for recovery of advance  | We request to revise the schedule and recover 4% of the advance amount per month from the 7th month onwards as otherwise it will have cash flow issues on the project         | No change  |
| 101.   | 26)       | Section 5.2 of GCC Employer Design Approvals     | Unless otherwise stated in the Employer's Requirements or agreed with the Employer's Representative, each review period shall not exceed 21 days, calculated from the date  | We request to revise the review period to 7 days in view of the tight completion schedule as huge number of drawings are involved and any delay will result in project delays | 21 days is the upper limit for review period which can be at shorter intervals as per request of the Contractor. |

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|        |           |   | on which the Employer's Representative receives a Contractor's Document and the Contractor's Notice.  |   |                               |
| 102.   | 27)       | Section GCC 5.7 Employer Design Approvals | It errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the Contractor's Documents, they and the Works shall be corrected at the Contractor's cost, notwithstanding any consent or approval under this Clause. | In such scenario, no approvals should be considered as it will only delay the process             | No change                     |
| 103.   | 28)       | GCC13.6 Legislation                       | Adjustments for change in Legislations  | Certain part of the clause appears to have been inadvertently missed out, request to add the same | Refer Addendum-1 at Sr. No. 8 |
| 104.   | 29)       | PCC Part A 9.6 Delay Damages              | Delay damages - .045 percent of Accepted Contract Amount for Design-Build per day of delay which shall elapse between the stipulated date of completion of Design-Build part of the Contract and the date of issue of Commissioning Certificate.      | We request such % to be limited to 0.01% per day , as this is a large value contract              | No change                     |
| 105.   | 30)       | PCC Part B 9.6 Delay Damages              | Delay damages relating to Design-Build Delay damages relating to  | Request not to levy any interim LD/ compensation  | No change                     |

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|        |           |  | Design-Build   |   |                         |
| 106.   | 31)       | PCC Part A 9.6 Delay Damages                   | Maximum amt of delay damages - 10% of contract amount for design build part of the contract  | We request you to limit this to 5% of the contract amount   | No change               |
| 107.   | 32)       | PCC Part A 10.7 Performance Damages during O&M | Maximum compensation payable by the Contractor - 100% of the amount payable to the Contractor during the month under consideration | We request this to be limited to 10% of the amount payable to the Contractor during the month under consideration | No change               |
| 108.   | 33)       | PCC Part A 14.7 (b) Payment Terms              | Minimum Amount of Interim Payment Certificate 2% (two percent) of Accepted Contract Amount for Design-Build part of the Contract.  | We request to reduce this to Rs 2 crore per bill  | No change               |
| 109.   | 34)       | PCC Part A 20.3 Arbitration                    | The DAB shall comprise one member  | We request you to have 3 members , each party appointing one and the third mutually agreed                        | No change               |
| 110.   | 35)       | PCC Part A 20.4 Arbitration                    | Appointing entity (official) for DAB members, if not agreed, shall be: Addl. Chief Secretary, UDH, Go                              | We request a neutral person to be mutually agreed to be the Appointing authority                                  | No change               |
| 111.   | 36)       | PCC Part A 13.8 Price Adjustment               | Adjustment for changes in costs: No price adjustment shall be admissible for the Design Build part of works.                       | We request to allow for price variation during the design build period  | No change               |
| 112.   | 37)       | PCC Part A                                     | Amount of Maintenance  | We request to limit this amount to 5% of  | No change               |



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|        |           | 14.19 Retention Fund   | Retention Fund : 5% of Accepted Contract Amount of Operation Service   | the annual Contract amount of Operation services  |  |
| 113.   | 38)       | General Liquidated Damages   | No mention about overall ceiling for Liquidated damages on account of Delay and Performance  | We request that Overall ceiling for delay and performance to be 10% of Design build contract amount | No change  |
| 114.   | 39)       | Clause 5.5.3.2 Capacity of STP   | The capacity of collection of water from the drain should be adequate to cater to all possible dry weather flow during next 10 years and 30 years  | Clause is not clear. Kindly provide details.  | The tapping capacity is to be designed for maximum projected DWF in next 30 years.   |
| 115.   | 40)       | Clause 5.5.3.1<br>Clause 5.4.3.2 B<br>Minimum depth of water in the Nallah | The minimum depth of the water to be maintained should be 30 cms in the entire length with at least 3 cm over the check dam level and over the proposed falls. The Contractor shall have to propose the locations and heights of the check dams for approval of the Employer.<br>Number of Stone masonry check dams has to be constructed to maintain a minimum 10 cm high water column in the each stretch of Nallah. | Please clarify as to the water depth is to be kept as 30 cm or 10 cm                                | It is clarified that the minimum depth of water along the entire drain length is to be 30 cms and this level should be at least 3 cms above the crest level of the check dam on downstream so as to ensure a continuous flow over the crest.<br><br>Also, refer Addendum-1 at Sr. No. 24 |
| 116.   | 41)       | Clause 5.3.1.1   | Plane table survey will  | This means a survey of 2,37,50,000  | No change  |

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|        |           | Survey   | cover area upto minimum distance of 500 mtrs on both the sides from center line of Nallah  | Sqmtrs, which is time consuming and not critical hence we request to consider revision in this requirement.   |   |
| 117.   | 42)       | Clause 5.4.3.2 Landscaping and Area Development            | The earth work is to be done from km 5.1 to tail i.e. 47.5 km. No earthwork is required to be done in upstream of Mazar dam, except some landscaping work.   | Please clarify the landscaping scope in 0 to 5.1 KM reaches   | It is clarified that the Contractor shall have the option to undertake landscaping upstream of Mazar Dam above the submergence level. |
| 118.   | 43)       | PCC, Sec 7, Schedule 1: Schedule of Payments Payment Terms | Table 3A: Payment Schedule for Rejuvenation Works of Nallah<br>1. Site Clearance: 10%<br>2. Earthwork, Lining, Turfing and all other strengthening /development works: 90%<br>Table 4A: Payment Schedule for Dry Weather Flow Collection and Treatment<br>1. Sewer lines, interceptors and other conveyance system: 27.50%<br>2. STPs including lift stations (with all civil, electrical, instrumentation and mechanical works) | We request the Payment terms to be further sub-divided after Table 3B into Earth Work, Lining and Turfing, because all works cannot be completed in a single reach at one go and in parallel works will happen. Hence request the payment to be separated for earthwork, lining and turfing. Similarly the table 4B needs bifurcation STP wise. This will allow to maintain effective cash flows for smooth operation of the project. | No change   |

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|        |           |  | 72.50%<br>Table 5: Payment Schedule for Peripheral Development and Other Miscellaneous Works  |   |   |
| 119.   | 44)       | 5.5.3.1<br>Design of STP                       | Sewage Influent and treated sewage Parameters   | Kindly confirm, the STPs will be designed based on the parameters specified in the clause 5.5.3.1 and no industrial effluents shall be added in the influent with domestic sewage. The treated effluent from any Effluent Treatment Plant or Common Effluent Treatment Plants set up by other contractors under separate contracts and who discharge the treated effluent in Nallah should also meet the post treatment parameters specified in the tender documents. Please confirm. | Refer clarification at Sr. No. 39 above.  |
| 120.   | 45)       | 5.4.3.2 B<br>Design                            | Both base section and upper section put together should be able to pass a 100 year frequency flood computed as per synthetic unit hydrograph method (SUHG) method | We understand due to limitation of various cross structures and corresponding various invert levels, the bottom section of the channel should be designed to carry partial discharge computed based on Rational Method. Both Upper and Lower Section of channel should carry discharge computed based on Rational and SUH methods. Also Kindly note the sections provided in the bid/tender may undergo change based on the actual site conditions. Please confirm.                   | Refer Clause 5.2.3.1 A, related to Design of Nallah, which is self explanatory. |
| 121.   | 46)       | Section - 5.2<br>Scope of work<br>Power Supply | New 33 KV single circuit lattice tower overhead lines from existing substations to each STP<br><br>33 KV indoor switchboard                                       | Please refer the clauses as mentioned. It is mentioned 33 KV switchboard will have two incomer feeder, whereas 33 KV transmission line mentioned as single circuit. Please clarify how the second VCB incomer   | Refer Addendum-1 at Sr. No. 14  |

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|        |           |  | consists of two VCB incomers with line PT   | of 33 KV panel will receive the power. We understand that for one STP, we have to take 33 KV power from two substations. Means each STP will receive single circuit 33 KV line from two different substation. Please clarify  |  |
| 122.   | 47)       | Section - 5.2<br>Scope of work<br>33 KV Substation                     | 33 KV Outdoor substation  | Please clarify where this 33 KV new outdoor substation is to be installed. We understand that in the existing JVVNL 33 KV outdoor substation, one number 33 KV bay is to be extended (Without adding any transformer) as a feeder bay to each STP. Please confirm/clarify our understanding   | Refer Addendum-1 at Sr. No. 14<br>The need of additional bay in JVVNL substation if required shall be finalised with JVVNL. The 33/11 KV substation for the proposed load centre will be located in STP campus or separate load centre as developed. |
| 123.   | 48)       | Section - 5.2<br>Scope of work<br>Transformers                         | 33/3.45 KV transformer<br>3.3 KV panel board<br>Neutral grounding resistor<br>3.3 KV side<br>3.3 KV capacitors<br>Soft starter for 3.3 KV motor<br>and other 3.3 KV electrical requirements | All STPs and other electrical installation of this project will be of Low voltage level. There is no 3.3 KV HT motors/drives. Hence, there is no requirement of 3.3 KV voltage level in this project. Hence, all electrical line items mentioned with 3.3 KV rating (including of 33 KV/3.45 KV transformer) scope shall be deleted. Please confirm | Refer Addendum-1 at Sr. No. 14   |
| 124.   | 49)       | Section - 5.2<br>Scope of work<br>Low voltage variable frequency drive | Low voltage variable frequency drive  | We understand that it is not necessary to consider variable frequency drive for all motors. Please mention the capacity of motor above which we have to consider variable frequency drive. For lesser capacity motor we will consider normal starter module. Please mention the capacity of motor above which VFD to be considered                  | Refer Addendum-1 at Sr. No. 14   |
| 125.   | 50)       | Section - 5.5<br>Electrical  | Liaison with JVVNL/RVPLN  | We undertake necessary liaisoning activity. However, all fees which will be   | Refer Addendum-1 at Sr. No. 14   |

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|        |           | system general and particular specification Liaison with JVVNL/RVPLN              |  | paid to the sanctioning authority, JVVNL/RVPLN for obtaining load sanction, statutory approvals etc shall be reimbursed by JDA. Please confirm   |  |
| 126.   | 51)       | Section - 5.5 Electrical system general and particular specification Type Test    | Type test certificate requirement for various electrical equipments. | We understand that our scope does not include performing of any type test specifically for this project. We will submit copy of type test certificates which are already available with the suppliers. Please note that in general all vendors/manufacturers are having type test certificates between 5-10 years old. Hence, we request you to accept existing type test certificates for all electrical equipments which is of less than ten years old. Please confirm | Refer Addendum-1 at Sr. No. 14   |
| 127.   | 52)       | Section - 5.5 Electrical system general and particular specification Lighting     | Lighting fixtures IP protection                                      | For all outdoor light fixtures IP protection requirement is mentioned as IP-65. We request you to change the IP protection as IP - 55 instead of IP - 65 which is also suitable for outdoor installation. Please confirm   | The degree of protection for lighting fixtures shall be suitable for outdoor location shall be IP55. In case of underwater fittings, they shall be IP65 or better. |
| 128.   | 53)       | Section - 5.5 Electrical system general and particular specification Power Supply | Power for street light poles and other area lighting                 | We understand that JDA will provide power point at various locations (on low voltage - 415 Volts level) to give power connections to various feeder pillars of street lighting, bollard lighting, area lighting, high mast etc. We presume power point will be provided by JDA within 100 Meters vicinity from the feeder pillar box (or) lighting distribution board of area lighting, high mast etc. Please confirm.   | Refer Addendum-1 at Sr. No. 14   |
| 129.   | 54)       | Design Capacity   | Note: point 2) As  | Tender specs are not clear on number of  | Refer sub-clause 5.5.3.2   |

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|        |           | & Number of STPs<br>page 72 of 1018<br>page 605 of 1018<br>page 718 of 1018                     | clarified in the Employer's Requirement, STPs of a combined design capacity of atleast 170 MLD are required to be setup<br>The Amanishah Nallah / Canal has 11 STPs, the two interception pipelines - one on each bank of Nallah of approximately 47 Km long. The first Pumping station and STP are at 4.7 km (near Mazhar Dam), whereas the last STP is at 39 Km chainage.<br>Drawings: Proposed STP location at Amanisha Nalla, indicating 11 STPs | STPs (referred 11 and only 1 also), Kindly Clarify.  |   |
| 130.   | 55)       | Outlet Characteristics<br>page 368 of 1018<br>Sludge Drying bed Requirement<br>page 368 of 1018 | DO = > 4 PPM, free Ammonia = <1.2 PPM , TSS <=10 PPM<br>Additionally, sludge drying beds shall be provided as a backup for 25% in case of unavailability of mechanical sludge dewatering equipment   | For maintaining desired DO levels extra oxygenation system in <u>Treated water tank</u> with blower & diffuser arrangement reqd.<br>For maintaining desired Ammonia levels Inclusion of higher retention time for nitrification process, thus Anoxic tank size will increase.<br><br>For maintaining desired TSS level: Tertiary Treatment with filtration will be required, Sludge Drying bed is not required as all elctro-mechanical items (for dewatering) have standby arrangement and DG sets are employed for power failure. Also, Sludge | No change in land evaluation<br>The sludge drying bed requirement is deleted.<br>Refer Addendum-1 at Sr. No. 16 |

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|        |           |  |  | Drying bed requires a lot of area and are nuisance to nearby colonies due to foul smell. All these steps require extra land which makes difficult to fit plant in specified land evaluation criteria, thus TPL request to ease Land evaluation criteria or remove Sludge Drying Bed requirement.  |  |
| 131.   | 56)       | Power Generation system<br>page 371 of 1018<br>Primary Clarifier<br>page 447 of 1018 | in Digester Control Room for Gas Compressor<br>Primary Clarifier - 2 nos   | Power Generation system is feasible for Capacity > 50 MLD with favourable climatic condition & high organic load (high BOD). Primary clarification is helps power generation as primary sludge contains high organic load which is suitable for methanation, else Primary clarification is not beneficial with current Organic & TSS loading. Since Bidder is free to decide the number of plants with varying capacities, we believe that above mentioned requirement/s of Power generation with Primary Clarifier is optional. Kindly confirm | There is no stipulation for power generation system by gas in the bid document. All references to the Digester and Gas control system in the general requirement are to be ignored.<br><br>Refer Addendum-1 at Sr. No. 17 & 27 |
| 132.   | 57)       | Instruments<br>page 394 of 1018  | Instrument required such as:<br>Indicative BOD analyzer at inlet & outlet<br>Ultrasonic Differential Level Measurement at Screens<br>At Primary Sludge Pump House<br>Electro-Magnetic Flow Meter at the Header | Since TPL, is not proposing Power generation option thus certain instruments at bio-digestor / primary clarifier are not required. We believe, Instruments mentioned under this section are indicative only and bidder can provide same similar level of instrumentation / automation (mentioned under tender) as per most feasible technology / scheme selected.   | Refer Clarification S.No. 131.   |

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|        |           |   | Pressure Transmitter on Header Ultrasonic Level Measurement at Sump At Return Sludge Pump House<br>Electro-Magnetic Flow Meter at inlet to Thickener Electro-Magnetic Flow Meter at inlet to Aeration Tank - Separate for each stream Ultrasonic Level Measurement at Sump Pressure Transmitter on Header At Digesters and Gas Holders<br>Temperature Element and Temperature Transmitter Gas Flow meter (Thermal Mass Flow Measurement System) for Measuring Quantity of Gas Measurement of CO <sub>2</sub> , CH <sub>4</sub> and H <sub>2</sub> S Gas Concentration |  |  |
| 133.   | 58)       | DG Set page 535 of 1018<br>Dedicated Power Lines of 33 kV at STPs page 261 of | Each load center shall be provided with a 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   | Dedicated 33 kV lines for all STPs along with DG sets (with 100% Standby) is not a feasible option as dedicated power lines reduces load tripping chances a lot. Thus, TPL recommends to consider dedicated power lines with 1 working DG set or to provide DG set with 100% standby without | Bidder to decide the capacity of DG set in such a way that plant operation shall not be interrupted due to failure of power supply. There is no provision for stand by 100% generators only one full capacity generator is to be |



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|        |           | 1018                                  | <p>as per CPCB norms. Electrical</p> <p>The power supply will be taken from the Jaipur Vidyut Vitaran Nigam Limited (JVVNL). The supply should be taken on independent 33 KV feeders from the Sub Stations located at nearest points of proposed STPs.</p> <p>The works component included are as defined below but shall not be limited to:</p> <ul style="list-style-type: none"> <li>· New 33kV single circuit lattice tower overhead lines from existing substation to each STP location</li> </ul> | dedicated power lines of 33 kV   | provided.  |
| 134.   | 59)       | Fire Fighting system page 390 of 1018 | <p>The Contractor shall design and construct suitable fire fighting system along with pump sets and other accessories for meeting the fire fighting requirement of buildings located in the plant area. Final treated effluent shall be the source of water supply for firefighting purposes.</p>   | <p>For STP only portable Fire Extinguisher required, Kindly confirm.</p> <p>If in case fire-fighting hydrant based system is required kindly mention alternate source of water for fire-fighting which is mandatorily required as per TAC norms to get fire fighting plant approval.</p> | As described in clause 5.5.3.4 (T) the source of water required should be treated waste water. |

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|        |           |   | The final treated effluent shall be conveyed to the fire fighting pump house in which all pumping machinery shall be installed.  |  |  |
| 135.   | 60)       | Filtration system page 381 of 1018  | Chlorine Contact Tanks, Wastewater from filtration system shall be conveyed to a common inlet channel from where the wastewater shall be further distributed to individual chlorine contact tanks. | We believe that Filtration system is optional system and not required in case of advance treatment technology proposed which do not require filtration system to achieve desired output parameters (TSS < 10 ppm). Kindly confirm                              | The plant process is to be proposed by the bidder. |
| 136.   | 61)       | Gas Chlorinator Page 382 of 1018<br>Page 381 of 1018                        | Capacity - 30 Kg/hr (Min)<br>Chlorine Dosage = 10 ppm (Min)  | Based upon number of STPs and capacity selected, size of Chlorination system will vary, thus requirement of 30 Kg/hr (min) is not feasible for all plants. Kindly allow bidder to select Chlorination plant size as per dosing rate and selected STP capacity. | The process is to be proposed by the bidder.       |
| 137.   | 62)       | Belt Conveyor for Screenings Section 5.5, page 106 of 1018                  | capacity - To handle Screening of peak flow of 125 MLD   | We believe that with varying plant capacities and number of plants bidder is free to choose the size of Belt Conveyor Capacity as per CPHEEO norms and not restricted to 125 MLD. Kindly confirm.  | The process is to be proposed by the bidder.       |
| 138.   | 63)       | Grit chamber Section 5.5 , Page 45 of 1018<br>Section 5.5 , Page 46 of 1018 | Grit Separators are to be provided after the screening and before the biological treatment. There shall be three numbers (2 W+1S) vortex type grit separator each designed                         | There is an ambiguity in number of Grit separator units. Please clarify type and No. of units for grit chamber   | The process is to be proposed by the bidder.       |

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|        |           |  | for half of peak flow.<br>The design criteria for grit chamber is given below iii Quantity 2 nos. (1Working + 1 Standby)  |  |   |
| 139.   | 64)       | Centrifuge Sludge Dewatering Section 5.5 , page 51 of 1018 | A Centrifuge<br>i Design Flow- Digested Sludge from Anaerobic digester as per Contractor's design<br>ii Quantity - As per requirements<br>iii Type- Centrifuge<br>iv Operating Hours 12 hours/day and 6 days/week | Centrifuge shall run for all 7 days of a week, else it will unnecessarily increase equipment capacity. Kindly confirm  | The specifications laid down in Section 5 Employer's Requirements are to be followed.   |
| 140.   | 65)       | Centrifuge Sludge Dewatering Section 5.5, page 51 of 1018  | Solid concentration of inlet sludge = 4%  | Sludge generated from thickener will only be fed to Centrifuge system and since sludge generated from sewage is system is always lean (0.5% - 0.8% w/v) in comparison to chemical sludge generated from WTP (1.5% 2.0% w/v), outlet sludge consistency from thickener cannot be achieved greater than 3%, thus inlet consistency at centrifuge is always <3%. Kindly confirm | The Contractor should suitably propose in design for consideration and approval of Employer.  |
| 141.   | 66)       | Sec 5.2.8 Interface of the contract work                   | The contractor shall comply the recommendations of NEERI after consultation with the Employer.  | Bid document says all recommendations of NEERI must be complied but what will happen to its financial implications and when this report will be made available?  | In case additional works are required to be done in light of NEERI recommendations, the issue will be settled as per GCC Section 6 Clause 13 Variations and Adjustments |
| 142.   | 67)       | General  | Protection of overhead and underground services??   | The scope may be clarified.  | Refer Clarification at Sr. No. 59   |

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| 143.                  | 68)       | General  | Strengthening of connecting Kuttcha Nallah: upto what length and extent?? | The scope may be clarified.  | Refer Clause 5.2.4.2 (I)         |
| <b>Participant -8</b> |           |  |   |  |                                  |
| 144.                  | 1)        | Volume I: ITB 18.5                             | Bid Submission  | Since considerable engineering and commercial issues are involved in the preparation of the bid, which will be clear only after the pre bid meeting on 28/12/2015, we request you to extend the bid submission date to at least 60 days from the date of issue of the replies to pre bid queries | Refer Addendum-1 at Sr. No. 1&2  |
| 145.                  | 2)        | Volume I: Section 3, cl 1- Evaluation Criteria | Land Area requirement per MLD of STP                                      | Please confirm whether the area of 500 sq m per MLD is applicable to only the STPs and no other facility including SPS etc is included in this.  | Refer Clarification at Sr. No. 2 |
| 146.                  | 3)        | Volume I: Section 3, cl 2- Qualifications      | 2a(i)- Civil Works  | Please confirm any kind of Civil Construction Works will be considered for qualification purpose.  | Refer Clarification at Sr. No. 3 |
| 147.                  | 4)        | Volume I: Section 3, cl 2- Qualifications      | 2a(ii)- STP   | Please confirm that the bidder is free to choose the technology of the STP while working out their proposal.   | Refer Clarification at Sr. No. 4 |
| 148.                  | 5)        | Volume I: Section 7                            | Schedule I - Terms of Payment   | Kindly consider the terms of payment proposed by us for STP as: 40% on completion of Civil Works/40% on supply and storage of equipment/20% against installation and Commissioning. Also, pl consider minimum 65% payment against supply and stacking at site for Pipes                          | No change                        |
| 149.                  | 6)        | Volume I: Section 7                            | Schedule I - Terms of Payment   | The Terms of Payment are of generic nature and cover various activities and items. Hence we shall be submitting detailed billing break up against each item  | Refer Clarification at Sr. No. 7 |

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|        |           |  |  | after award of contract and payment will be made against that. Please confirm.  |                                   |
| 150.   | 7)        | Volume I: Section 9  | Drawings   | Please provide drawings in readable DWG/AutoCAD format with tentative locations of proposed STPs and SPS indicated along with the elevation of the proposed location.   | Refer Clarification at Sr. No. 8  |
| 151.   | 8)        | Volume I:  |  | Kindly provide Storm water runoff flow from Existing Delawas plant  | Query is not clear                |
| 152.   | 9)        | Volume I:  | General  | Kindly Provide us Delawas STP Raw sewage quality - 3 years  | Refer 5.5.3.1 of Section 5        |
| 153.   | 10)       | Volume I:  | General  | Capacity of Goner Road STP is 12 MLD, Delawas outfall is 50 MLD. So, what will happen to balance quantity.  | The query is not clear            |
| 154.   | 11)       | Volume I:  | General  | Availability & Locations of all 19 nos. SPS   | The query is not clear            |
| 155.   | 12)       | Volume I:  | General  | Kindly Provide us Soil Report for all STPs and SPSs area.   | Refer Clarification at Sr. No. 57 |
| 156.   | 13)       | Section 5, Clause 5.2 Page No. 6 - 7<br>Section 10 Clause 7.4.8 Page No. 120 | Clause 5.2.3.3 To withdraw atleast 50 MLD sewage from the existing outfall collecting sewage from the catchment and delivering the same to the existing Delawas STP.<br><br>Clause 5.2.4 (B) To draw about 50 MLD sewage from the existing outfall sewer leading to Delawas and treating the same. | Please confirm that whether this 50 MLD withdrawn from existing outfall needs to be conveyed to the existing Delawas or<br>It shall be treated by the bidder and a separate STP needs to be provided for the same. From the description provided in section 10 DPR by project proponent, we understand that this 50 MLD is considered in the minimum capacity of 170 MLD identified for STPs. Please confirm. | Refer Clarification at Sr. No. 53 |
| 157.   | 14)       | Section 5, Clause 5.5 Page No. 35  | DO in the water body to be maintained greater than > 4.0 ppm   | The reuse proposed for treated water is mainly horticulture, landscaping etc. According to Table 5.2 Use based classification of Surface waters in India it   | No change                         |

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|        |           |   |   | will fall under class E Irrigation, industrial cooling and controlled waste disposal for which DO > 4.0 mg/l is not mandatory. We request to remove this requirement.  |  |
| 158.   | 15)       |   | Site elevation, FGL & HFL   | For designing of our STP, we need site elevation or existing ground level, finished ground level required, elevation/ altitude of Nallah and HFL of Nallah at each STP location to be provided.  | The bidder has to assess   |
| 159.   | 16)       | Section 5, Clause 5.5 Page No. 28         | Clause 5.5.2.2 The design of all SPS shall be based on the projected daily discharge for next ten years to be lifted.             | Please confirm that minimum capacity of 170 MLD identified can be considered for design of SPS.  | Refer Clarification at Sr. No. 53  |
| 160.   | 17)       | Section 5, Clause 5.5 Page No. 34         | Clause 5.5.3.1 Influent and Effluent Parameters   | Please provide the following details to design the plant 1. Minimum, average and maximum temperature for raw sewage, 2. Alkalinity of raw sewage. 3. Total phosphorous is to be considered as P or as PO <sub>4</sub> for the design. 4. Ammoniacal Nitrogen present in the Raw sewage 5. TKN in the Raw sewage. | The data as available has been provided in tender document and rest bidder has to assess |
| 161.   | 18)       | Section 5, Clause 5.5 Page No. 28, 42, 43 | Coarse Screen for STP   | We note that a coarse screen will be provided upstream of the SPS of size 40-50 mm or 25 mm, based on the flow. The same will be taken to the STPs for further treatment. Hence we request to change the Screening size as 20 mm or below.   | The process is to be proposed by the bidder  |
| 162.   | 19)       | Section 5, Clause 5.5 Page No. 36         | 5.5.3.2 Sludge<br>The sludge produced should be well digested aerobic sludge in cakes with 20% (+/- 2%) or less moisture content. | Please confirm, whether sludge thickening followed by dewatering of sludge is allowed or sludge digestion is mandatory prior to dewatering, for all 11 STPs. Also, confirm the digestion process shall be carried out Aerobical or Anaerobic.  | The process is to be proposed by the bidder  |

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| 163.                  | 20)       | Section 5, Clause 5.5                 | Sludge Disposal Site  | Please inform whether any site is identified for the final sludge disposal and its location or bidder is suppose to identify the same.   | Contractor to identify and take necessary approvals |
| 164.                  | 21)       | Section 5, Clause 5.5 Page No. 44     | Angle of inclination for screen: 450 to horizontal (maximum)  | Depending on the Screen manufacturer selected, the angle of inclination may vary. Hence we request you to accept that, Angle of inclination shall be as per Manufacturers recommendation.  | The process is to be proposed by the bidder         |
| 165.                  | 22)       | Section 5, Clause 5.5 Page No. 61     | (A) Data Acquisition : Measurement of CO <sub>2</sub> , CH <sub>4</sub> and H <sub>2</sub> S  | We do not find measurement of CO <sub>2</sub> , CH <sub>4</sub> and H <sub>2</sub> S is necessary. Please confirm. Only H <sub>2</sub> S indicator may be provided. Please confirm the analyser such as CO <sub>2</sub> /CH <sub>4</sub> /H <sub>2</sub> S shall be provided only if the proposed STP is having sludge digestion system based on Anaerobic process | No change   |
| 166.                  | 23)       | Section 5 Clause 5.5 Page No. 44 & 95 | Page No. 44: Design Criteria for Screens: Velocity Through Screen: 1.0 m/s (maximum) at Design Flow<br>Page No. 95: Screening System specification: Velocity through screen opening not exceeding 0.9 m/s at maximum expected flow. | Range for velocity through screen opening provided in CPHEEO is 0.6 - 1.2 m/s. Please allow us to consider velocity through screen opening as per CPHEEO.  | The process is to be proposed by the bidder.        |
| <b>Participant -9</b> |           |                                       |   |  |   |
| 167.                  | 1)        | SWISS CHALLENGE METHOD                |   | We request you to kindly elaborate/explain the SCM related to evaluation of the Bid and the Project Proponent's role in it.  | Refer Clarification at Sr. No. 15                   |
| 168.                  | 2)        | Project Proponent's                   |   | a) Whether the project proponent (M/s TPL & M/s SUCG) will be participating  | Refer Clarification at Sr. No. 15                   |

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|        |           | participation in Bidding     |                        | in the bidding process ...pls clarify<br>b) Is the estimate provided vide their DPR will be their (Project Proponent) Evaluated Price Bid...Pls clarify<br>c) Whether after the Lowest Evaluated Price Bid is decided then the Project Proponent's Evaluated Price Bid will be sought.....pls clarify   |  |
| 169.   | 3)        | Mobilization Advance         |                        | We request you to kindly provide Mobilisation Advance to a tune of 15% of the Accepted Contract Value for Design Build Cost Interest free against submission of Equivalent Bank Guarantees from Scheduled Banks.  | No change  |
| 170.   | 4)        | Land Area Development        |                        | We presume that all the Land required for completion of the Project will be acquired by the Client (JDA)....pls clarify   | Refer Sub-Clause 2.1 Part B - Specific Provision |
| 171.   | 5)        | DPR                          |                        | We request to kindly let us know<br>a) The rates considered in the DPR are market rates or Schedule of Rates and pertaining to which year.<br>b) The cost towards Master plan has been considered but the cost towards detailed design is omitted....pls clarify<br>c) Can we have the break up (calculation) of the Quantities mentioned in the DPR. | Refer Clarification at Sr. No. 73                |
| 172.   | 6)        | Site Visit & Pre Bid Queries |                        | We would once again request to permit us for a site visit along with our Design Consultant in order to assess the Ground conditions aftermath our review of RFP and enable us to have better understanding of the project.  | Refer Clarification at Sr. No. 9                 |
| 173.   | 7)        | Deletion of                  |                        | Whether any STP deleted from the  | Refer Clarification at Sr. No. 74                |



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|        |           | STP                    |                        | project. If yes, then what capacity.  |  |
| 174.   | 8)        |                        |                        | Please provide Detailed calculations/ analysis of the items proposed by the project proponent M/s Tata & M/s SUCG   | Refer Clarification at Sr. No. 75  |
| 175.   | 9)        | Price Escalation       |                        | Price Escalation Shall be given on Design, build Cost also. CPWD norms also suggest Price Escalation for the projects which have to be completed in more than 12 months time and this project is for 30 months.   | No change  |
| 176.   | 10)       | Time Extension         |                        | Subsequent to the pre bid meeting and the site visit, we are very much interested to participate and accordingly preparing for a JV. We request to kindly extend the Date of Submission by at least 06 weeks from the date of issuing clarifications of the queries, keeping in view of the detailed exercise to be done for a comprehensive and Competitive Quote. | Refer Clarification at Sr. No. 1   |
| 177.   | 11)       |                        |                        | The project detailing is very much essential as the bid is on Lump sum basis and not item basis and we would like to conduct topographic survey (random) the area and collect more information in order to submit a comprehensive and competitive bid.  | Bidder is free to conduct topographic survey at its own cost after taking necessary approvals from relevant authorities        |
| 178.   | 12)       |                        |                        | Is the bidder supposed to redesign the entire system including location, Capacity of the STP's or shall adhere to the DPR prepared by M/s Tata Projects Ltd?  | As specified in section 5.2 Scope of Work this is a Design, Build, and Operate contract. Also refer ITB 1.1 in Bid Data Sheet. |
| 179.   | 13)       |                        |                        | Apart from the sewage tapping at various locations, whether rain water / storm water analysis has to be done to ascertain the Nallah capacities/ dimensions etc? If   | The bidder has to collect and ascertain.   |

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|                        |           |                        |                        | so could you share the 15 minute rainfall data for last 30 years?   |   |
| <b>Participant -10</b> |           |                        |                        |   |   |
| 180.                   | 1)        |                        |                        | Bid Submission date to be extended for 60 days i.e. up to 11-03-2016, as the bid preparation requires extensive ground level work for 47 Km stretch.  | Refer Clarification at Sr. No. 1  |
| 181.                   | 2)        |                        |                        | RCC Hume pipes with HDPE lining be an added advantage as it increases the life of pipe line for higher PH values.   | The bidder is free to propose alternative with better specifications (with approval of the Employer) for pipe and quote accordingly. It may be noted that the standards given shall not be diluted. |
| 182.                   | 3)        |                        |                        | Escalation should be allowed in contract. (Contract is for more than 12 months.)  | No change   |
| 183.                   | 4)        |                        |                        | Cement concrete roads are allowed instead of Bitumen roads or both.   | Contractor shall adhere to minimum requirements stipulated in Section 5. He is free to adopt superior specifications and quote accordingly.   |
| 184.                   | 5)        |                        |                        | Wooden bridges to be replaced by steel bridges, keeping life and, stability of item.  | No Change   |
| 185.                   | 6)        |                        |                        | Planting of 10 feet trees be changed to 3/5 feet trees, as survival rate for brought and planted tree is 60% to 80% and it decreases with increases in height i.e. for survival of 10 feet ht tree we have to destroy more grown trees. | Refer Addendum-1 at Sr. No. 13  |
| 186.                   | 7)        |                        |                        | Period of work should be 48 months instead of 30 months.  | No change   |
| 187.                   | 8)        |                        |                        | Period of work to be counted from the date of approval, not the work order date.  | No change   |
| 188.                   | 9)        |                        |                        | In eligibility criteria 4.1 foreign entity in J   | No change   |

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|                        |           |                        |   | V should be allowed as lead bidder.   |   |
| 189.                   | 10)       |                        |   | Special conditions of contract 5.1 b of holding 51% equity should be waived of  | No change. Also refer Addendum at Sr. No. 5.  |
| <b>Participant -11</b> |           |                        |   |   |   |
| 190.                   | 1)        |                        |   | Please elaborate "Swiss Challenge Method"   | For Swiss Challenge Method refer Clarification at Sr. No. 15  |
| 191.                   | 2)        |                        |   | Our company is Registered Contractors for all Civil Works with no limit with Water Resources Department, Rajasthan. For the tenders called by WRD, the EMD is only 0.5%. It is requested to extend the similar facility of 0.5% for the subject tender for which the EMD is prescribed as 2%. | No change   |
| 192.                   | 3)        | P-17 of DPR- CI-1 P    | Provide appropriate arrangements for crossing of utility pipes and cables between two ends. | Please elaborate whether separate bridges need to be constructed for passing of water supply pipes Power and Communication cables etc., and whether construction of these bridges are in the scope of present bid. In case of separate bridges extra payment shall be arranged by JDA.        | The Employer's Requirements as elaborated in Section 5 (Volume 2) shall prevail   |
| 193.                   | 4)        | P-20 - DPR, CI-5-P-VI  | Shall provide the following buildings as part of the development exhibition center.         | Please arrange to provide the size of the building to be constructed for the exhibition center  | It has already been mentioned at clause 5.6.2.2 of Section 5.6 Peripheral Development and Other Miscellaneous Works (Volume-2) of the Tender Document   |
| 194.                   | 5)        | P-20 - DPR, CI-6       | O & M for 10 years  | The period specified for maintenance is 10 Years. During this period, most of the equipment needs replacement. Please clarify whether separate payment will be made for the cost of the equipment replaced.   | Periodic maintenance and replacements of equipment and installations during operation services period shall be the responsibility of the Contractor. No extra payment shall be admissible for the same.<br>The Contractor shall hand over the |

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|        |           |   |   |   | equipment and installation in operating condition (normal wear and tear accepted).  |
| 195.   | 6)        | P-17- DPR, CI-1.4 & P-26 upstream Dam ecology           | The scope of work includes upstream catchment improvement - to improve rainwater flow into the water  | Please clarify the above (i.e.,) does it need to de-silt the reservoir above Mazar Dam.<br>Also please clarify whether the existing STP/ Swarna Jayanthi Park which may get submerged need reconstruction. In case of reconstruction separate payment shall be made.<br>Kindly elaborate the works involved upstream catchment improvement. | No de-silting is required.<br><br>Existing STP/Swarn Jayanti Park reconstruction if under submergence is not under the present scope of work.<br><br>Refer Clause 5.2.3.2 (A) of Section 5.2 Scope of Work (Volume-2) |
| 196.   | 7)        | P-24, 25 -CI-1.4 - Design Considerations:               | Cement Concrete Lining 20mm thick - M25 to be laid by Paver Machine is proposed between Ch.5100 to 34800  | At certain chainages the available nallah width is just sufficient to the bed and side lining. Paver lining need space for shifting of machinery, movement of transit mixer etc. In places where there is no space, manual lining shall be allowed.   | Not Acceptable, Refer Employers Requirement Section-5   |
| 197.   | 8)        | P-24 - Design Considerations                            | The peak flood discharge over and above the box section (907 cumecs) has to pass through the upper free board section comprising turfing / steps. | The velocity in the top levels of Flood Water (Upper box section) will be very high and this area of turfing & steps may get disturbed. In such situation during O&M period the cost of repairing / rebuilding shall be paid extra - Please confirm.  | In no case any extra payment is permissible. Refer Employers Requirement Section-5  |
| 198.   | 9)        | P-27, DPR- The time for Construction given as 30 months |   | It is a known fact that the place of work is completely encroached by public and evacuating is a herculean task to the department. In addition during monsoon the work will not progress as such it is requested to increase the construction period to at least 4 years.   | No change   |
| 199.   | 10)       | P-28 & 29, CI-  | The DPR includes  | It is understood that JDA shall arrange for   | Refer Employers Requirement   |

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|        |           | 1.6 Under Area Development<br>CI-1.7 Economic Benefit Assessment etc. | Development and Commercialization, Master Plan.   | the same separately. Please elaborate the scope of the bidder for both cl 1.6 and cl 1.7   | Section-5   |
| 200.   | 11)       | P-34, CI-1.10- 3)   | O & M cost be given based on NPV with or discounting factor of 10%  | As per our experience the O & M cost will be increasing year to year due to increase of wages, input costs etc., In the light of the same, please elaborate the above. | Refer sub clause 13.8 of PCC (Part B- Specific Provisions) of Volume 1, which takes into account the increase in cost of operation services |
| 201.   | 12)       | P-20 of DPR- As per the document                                      | The bidder shall arrange Collection of solid waste from surface of Nallah and its banks and disposal to the Govt. designated sites. | Kindly clarify the locations of the designated sites for disposal along the course of the Nallah.  | Refer 5.6.2.5 of Section 5  |
| 202.   | 13)       | P-128, CI-7.6   | As per DPR - Solid waste collection, segregation and treatment plant near the parks are to be arranged.                             | Please clarify whether the bidder should arrange for disposal and (or) treatment plant near the parks.   | Refer Clarification at Sr. No. 201  |
| 203.   | 14)       | In the process of treatment by STP                                    | In case power is generated by the bidder at STP - will there be any objection from JDA to utilize / sell the power generated        | Please clarify.  | Refer Clarification at Sr. No. 131  |
| 204.   | 15)       | P-145 - Public toilets  | 35 Nos of toilets are provided in the DPR.  | In case depending upon public requests, if the nos - increases, the extra cost shall be paid - Please confirm.   | Refer Clarification at Sr. No. 65 and 79  |
| 205.   | 16)       | P-151 - DPR -   | As per the DPR - all the catchment upstream of Mazar Dam will be improved to increase the   | Please clarify whether for working in forest area - the forest permissions will be arranged by JDA   | Refer clause 1.14 of PCC, Part B Specific Provisions, Section-7   |

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|        |           |                                     | opportunity of recharge by providing gabion structures and check dams in forest area. |   |   |
| 206.   | 17)       | P-154,DPR-Cl-7.7.12                 |   | Please arrange to clarify "whether establishing an exhibition center for the awareness of the public "is in the scope of present bid.   | Yes, the exhibition centre is included in Employer's Requirements (Scope of Work, section-5)  |
| 207.   | 18)       | P-160 of DPR-8.1-3 - Concrete       |   | The Cement Concrete Lining is proposed with M-25 - 200 mm thick upto FSL. In the specifications no mention was made regarding drainage arrangements like provision of PRV's etc. Please clarify whether the same are needed or not.   | The Contractor has to assess and provide if required  |
| 208.   | 19)       | P-171 of DPR-the Pedestrian Pathway |   | Placement and fixing of finishing stone slabs on walk ways is prescribed. Thickness of slabs not mentioned. Instead 75mm CC floor tiles may be better - Please Confirm.   | Refer Clause 5.4.3.2 (B) Upper Section- for Pedestrian flooring Thickness of stone slab (tile) shall be minimum 40mm. CC floor is not acceptable.   |
| 209.   | 20)       | P-235 of DPR-Construction Permits   | Various applicable permits are specified.   | Please clarify whether these are in the scope of the bidder or JDA.   | Refer Clause 2.2 of GCC Section-6 and clause 1.14 of PCC Section-7  |
| 210.   | 21)       | General:                            |   | The scope of the bid includes development of parking places, market places, parks public toilets etc., including their maintenance. Please clarify whether any revenue can be generated by the bidder (or) in case JDA generate any revenue any portion of it will be transferred to the bidder towards O & M cost during the O & M period. | Commercial exploitation of the assets of the Project by the Contractor is not permissible. Employer may however generate revenue as deemed appropriate but there shall be no sharing of the revenue with the Contractor |
| 211.   | 22)       | P-7 Section -2                      |   | It is requested to clarify the applicable taxes and their percentages for this type of works (i.e.,) Service Tax, Vat and   | All applicable taxes are to be included by the Bidder in its Price Bid  |

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|        |           |                        |   | Labour / Welfare Cess and other taxes if any.   |   |
| 212.   | 23)       |                        |   | The rates of applicable Royalties & Seinerages for various inputs like coarse aggregates, fine aggregates, gravel, borrowed soil etc., may be informed. | Bidder has to use its own resources to ascertain the rates payable  |
| 213.   | 24)       |                        | Also any royalty charges for the earthwork excavation in the work attract any royalty charges   | Please clarify.   | Bidder may refer to the rules of Government of Rajasthan  |
| 214.   | 25)       |                        | Source of Funds: Funds for implementation of the Project will be arranged and provided by Urban Development & Housing Department, Government of Rajasthan through Jaipur Development Authority  | Kindly specify the status and availability of the funds.  | Funds for implementation of the Project will be arranged and provided by Urban Development & Housing Department, Government of Rajasthan through Jaipur Development Authority |
| 215.   | 26)       |                        | Compliance with Laws: Preparing applications in accordance to standard procedures for obtaining all statutory clearances and approvals required from Government of Rajasthan and/or Government of India, including all environmental. | All the statutory permissions shall be at the Employers end only.   | Refer Clause 2.2 of GCC Section-6 and clause 1.14 of PCC Section-7  |
| 216.   | 27)       |                        | Land area requirement per MLD of STP: The Bidder shall be required  | It is requested to kindly provide the total land required for construction of STP   | Refer Clarification at Sr. No. 28   |

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|        |           |                        | to quote the land area requirement per MLD of STP in Tech Form-2. If the requirement of land exceeds 500 sqm per MLD of STP, such excess land shall be loaded on the quoted Price Bid for Design-Build part of the Project @ Rs22000/- per sqm of the excess land ("Loaded Land Cost"). Such increase in the quoted price shall be only notional for the limited purpose of determining Evaluated Price Bid. |   |  |
| 217.   | 28)       |                        |  | No details of sub-soil profile of the Nala bed has been given to design or estimate the BoQ.  | Refer Clarification at Sr. No. 57  |
| 218.   | 29)       |                        |  | No details of sub-soil profile of the proposed STP locations are given to assess the sizing of foundations which dependent on the foundation grade at the proposed locations: | Refer Clarification at Sr. No. 57  |
| 219.   | 30)       |                        |  | No details of the substructure along the nala bed is given to design or check the design of embankment slopes as shown in the drawings  | To be investigated and assessed by the Bidder  |
| 220.   | 31)       |                        |  | Kindly provide Stream natural flow data   | The dry weather flow as assessed by the Project Proponent and is available in the bid document |
| 221.   | 32)       |                        |  | Kindly provide Precipitation data and   | Only 1981 peak rainfall data   |



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|        |           |  |   | rainfall discharge data of Amanishah Nala.   | available which is mentioned in DPR of the project proponent. Any other details have to be collected by the Bidder |
| 222.   | 33)       |  |   | Kindly provide Topographical Survey data for preparing design and BoQ  | Project Proponents survey details are available at Section-9 Drawings. Also refer Clarification at Sr. No. 177     |
| 223.   | 34)       |  |   | Kindly provide the Geo-Technical Parameters considered for design of the structures.   | Refer Clarification at Sr. No. 57  |
| 224.   | 35)       | The payment Schedule                         | As per the payment schedule and mile stone payments - 2 % of the work shall be completed in the 1st 6 months and also it is specified that minimum billing shall be not less than 2%of contract amount. | In this connection it is to inform that during the first 9 months, the works of Survey etc., will not cost much and the minimum percentage (2%) of billing is not possible as such it is requested to relax this 2% minimum during the first 9 months. | No change  |
| 225.   | 36)       | Dispose of surplus soil                      |   | As per document about 20 lakh cum of soils shall be disposed. Please arrange to clarify whether sufficient dumping place will be shown by the JDA.   | Excess soil if any, can be disposed off to the nearest site as decided after consultation with Employer.           |
| 226.   | 37)       | As per the document Volume - II - Section -7 | it is given that percentage of payment for Survey, Investigation, Planning and Design is 0.50% of contract amount (Part A). It is requested that this shall be 2.5%.                                    | Similarly the percentage payment for Rejuvenation works (Part B) shall be 60% and for Dry weather flow collection and treatment (Part C) shall be 25% and peripheral development and other miscellaneous works (Part D) shall be 12.5%.                | No change  |
| 227.   | 38)       |  |   | Finally it is to inform that costing of the bid need various inputs and need more time and it is requested to extend the   | Refer Clarification at Sr. No. 1 .   |

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|                                  |           |                        |                        | date of submission by 45 days.   |   |
| <b>Participant -1 Additional</b> |           |                        |                        |  |   |
| 228.                             | 1)        |                        |                        | PE Manholes specifications   | The bidder is free to propose alternative with better specifications (with approval of the Employer) for PE Manholes and quote accordingly. |
| <b>Participant -7 Additional</b> |           |                        |                        |  |   |
| 229.                             | 1)        | cl. 5.2.4, P 10        |                        | The Bid document specifies 33 kV lattice tower overhead lines to be provided. We understand the prevalent norm of JVVNL is that dedicated lines from 33 kV system should be laid only underground and overhead circuit in City area is not permitted. Request Bid clarification for replacing Lattice structure overhead distribution by UG cabling. | Refer Addendum-1 at Sr. No. 14  |
| 230.                             | 2)        | cl. 5.2.4, P 10        |                        | The Bid document specifies 33 kV switchboard shall have two incomers. Since the dedicated power is to be provided, JVVNL norm provides only single circuit dedicated line and 33 kV power from two different sources are not normally permitted as per norms. Request necessary clarification for proving only single circuit.                       | Refer Addendum-1 at Sr. No. 14  |
| 231.                             | 3)        | cl. 5.2.4, P 10        |                        | The Bid document specifies the Source Voltage for the load to be taken shall be 33 KV. It may please be noted that 33 kV voltage is made available by JVVNL for load demand exceeding 1500 KVA. It may please be noted that in all our STPs, the demand is not more than 800 KVA, for which JVVNL would permit only 11 kV                            | Refer Addendum-1 at Sr. No. 14  |

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|        |           |                        |                        | system. Hence request confirmation that Bidder can go for 11 kV system in place of 33 KV. Further, reference to Cl. 5.5.3.8, page 147 - the document specifies that the 'Bidder has to get the available system voltage verified from JVVNL', which in this case would be 11 KV for the load demand in place of 33 KV. Kindly confirm. |                         |

**Government of Rajasthan  
Urban Development & Housing Department,  
through  
Jaipur Development Authority**

**ADDENDUM-1  
TO  
BID DOCUMENT  
FOR**

**Selection of a Bidder under Swiss Challenge Method  
for Rejuvenation of Amanishah Nallah (Dravyavati  
River), Jaipur (Rajasthan) including Area  
Development on Turnkey Basis, and its Operation &  
Maintenance (O&M) for a Period of 10 Years**

**NIB No. 17/2015-16  
(9<sup>th</sup> January, 2016)**

**ADDENDUM-1**

A pre-bid meeting for Selection of a Bidder under Swiss Challenge Method for "Rejuvenation of Amanishah Nallah (Dravyavati River), Jaipur (Rajasthan) including Area Development on Turnkey Basis, and its Operation & Maintenance (O&M) for a Period of 10 Years" was held on 28.12.2015 at 3.00pm in Manthan Hall of JDA. 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       | 2   | 3   | 4  |
| 1.      | ITB 18.5 (Section 1) Submission Date for original Demand Draft/ Banker's cheque/ Bank Guarantee | 05.00 PM on 11/01/2016  | 05.00 PM on 15/02/2016   |
| 2.      | ITB 19.1 (Section 1) Bid Due Date   | 05.00 PM on 11/01/2016  | 05.00 PM on 15/02/2016   |
| 3.      | ITB 22 (Section 1) Technical Bid Opening Date   | 03.00 PM on 13/01/2016  | 03.00 PM on 17/02/2016   |
| 4.      | ITB 36 (Section 1) Award Criteria   |   | A new para shall be added below the existing para 36.1 which shall be read as under:<br>In case, the Evaluated Price Bid of the Project Proponent is within 15% of the lowest Evaluated Price Bid, the Project Proponent shall be required to match the gap between the Evaluated Price Bid of the Lowest Evaluated Bidder and the Project Proponent's Evaluated Price Bid by reducing the cost of the Design-Build part of the Project appropriately. For avoidance of doubt the Project Proponent shall not be permitted to alter O&M Cost, the Committed Power Requirement and the land requirement for STP with the objective to win the Contract. |
| 5.      | ITB 40 (Section 2) Formation of SPV   | Selected Bidder .....Contract Agreement.                                | Formation of SPV is desirable though not mandatory for the selected Bidder. In case, the selected bidder doesn't form an SPV, all members of the consortium shall be jointly and severally responsible for the Project. Accordingly, suitable amendment shall be made in the Contract Agreement.   |
| 6.      | 1.14 GCC and PCC (Special Provisions) Clearances  | (e) Employer shall by..... under this Contract.                         | Deleted.   |
| 7.      | Clause 5.4.7.6 (B)  | In second para under the head General, the following expression exists: | This expression indicated in column 3 shall stand deleted.   |

| Sr. No. | Reference to clause and Context  | Existing provision   | As Amended  |
|---------|--|--|---|
| 1       | 2  | 3  | 4   |
|         |  | "After completing the construction of embankment final cross section levels shall be taken and the volume shall be arrived at and payment shall be made to that quantity only. "   |   |
| 8.      | <b>13.6 Adjustments for Changes in Legislation</b><br>Volume-I, Section 6: General Conditions of Contract (GCC) at Page 54 | <p>"Adjustments to the execution of the Works or provision of the Operation Service necessitated by a change in Law shall be dealt with as a Variation and as provided for under Clause 13 [Variations and Adjustments]. Either Party may, by written Notice to the other, require that adjustments shall be made to the provision of the Contract as are necessary to enable the Contractor to comply with changes in Law.</p> <p>The Contract Price and programme for design, execution and operation of the Works shall be adjusted to take account of any increase or decrease in cost resulting from a change in the Laws of the Country (including the introduction of new Laws and the"</p> | <p>"Adjustments to the execution of the Works or provision of the Operation Service necessitated by a change in Law shall be dealt with as a Variation and as provided for under Clause 13 [Variations and Adjustments]. Either Party may, by written Notice to the other, require that adjustments shall be made to the provision of the Contract as are necessary to enable the Contractor to comply with changes in Law.</p> <p>The Contract Price and programme for design, execution and operation of the Works shall be adjusted to take account of any increase or decrease in cost resulting from a change in the Laws of the Country (including the introduction of new Laws and the repeal or modification of existing Laws) or in the judicial or official governmental interpretation of such Laws or changes to technical standards and regulations in accordance with Sub-Clause 5.4 [Technical Standards and Regulations], made after the Base Date, which affect the Contractor in the performance of obligations under the Contract.</p> <p>If the Contractor suffers (or will suffer) delay and/or incurs (or will incur) additional cost as a result of these changes in the Laws or in such interpretations, made after the Base Date, the Contractor shall give Notice to the Employer's Representative providing evidence supporting any adjustment, an indication of the nature of change in cost and how the Contractor proposes to implement the necessary change.</p> <p>The Contractor shall be entitled, subject to Sub-Clause 20.1 [Contractor's Claims ], to:</p> |

| Sr. No. | Reference to clause and Context  | Existing provision | As Amended   |
|---------|--|--------------------|--|
| 1       | 2  | 3                  | 4  |
|         |  |                    | <p>(a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 9.3 [<i>Extension of Time for completion of Design-Build</i>]; and</p> <p>(b) payment of any such additional cost, which shall be included in the Contract Price.</p> <p>After receiving this Notice, the Employer's Representative shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters."</p>   |
| 9.      | <b>13.7 Adjustments for Changes in Technology</b><br>Volume-I, Section 6: General Conditions of Contract (GCC) | Does not exist     | <p>A new Sub-Clause shall be added as follows:</p> <p>"The Contract Price and programme for design, execution and operation of the Works in Technology shall be adjusted to take into account any increase or decrease in cost resulting from any changes in technology, new materials or products which the Contractor is obliged to adopt, either:</p> <p>(a) where a proposal from the Contractor under Sub-Clause 13.2 [Value Engineering] is accepted by the Employer's Representative;</p> <p>(b) where the Employer's Representative instructs the Contractor to use new technology or new materials or products; or</p> <p>(c) there is a statutory requirement for the Contractor to use new technology or new materials or products.</p> <p>In any such case, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:</p> <p>(i) an extension of time for any such delay, if the events delay the completion of the Design-Build; and</p> <p>(ii) any additional Cost, subject to an adjustment for any operational or other savings which the Contractor may make as a result of the introduction</p> |

| Sr. No. | Reference to clause and Context   | Existing provision  | As Amended  |
|---------|---|---|---|
| 1       | 2   | 3   | 4   |
|         |   |   | of such new technology, materials or products.<br>After receiving a Notice of claim, the Employer's Representative shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters. Where appropriate, the Employer's Representative shall issue a Variation to the Contractor with details of the required changes."  |
| 10.     | <b>13.8 Adjustments for Changes in Costs</b><br>Volume-I, Section 6: General Conditions of Contract (GCC) | Does not exist  | A new Sub-Clause shall be added as follows:<br>"The Contract Price and the Rates and Prices shall be adjusted in accordance with the Schedules of cost indexation as contained in the Schedule of Payments. If there are no such Schedules of cost indexation included in the Contract, this Sub-Clause shall not apply."   |
| 11.     | 5.2.3.1 (A) Survey, Investigations and Designs for the Project Components                                 |   | Add one more bullet after first two bullet points:<br><ul style="list-style-type: none"> <li>The Contractor shall get vetted the hydraulic and structural design of Nallah for 100 year recurrence period from IIT</li> </ul>   |
| 12.     | 5.2.4.2 Part D: Miscellaneous Works (A) Plantation  | "A 2 meter ..... 3 meter all along the length of Nallah"  | "A 2 meter ..... 5.0 meter all along the length of Nallah"  |
| 13.     | 5.6.4.3 Tree Plantation   | "Planting of 10 Feet tall.....tree guard for 1 year"  | "Planting of 1.50 m tall.....tree guard for 1 year"   |
| 14.     | 5.2.4 (B) Sewage Pumping and Sewage Treatment Plants (Page 9-10)  | <b>Delete Electrical</b><br>The power supply will be taken from the Jaipur Vidyut Vitaran Nigam Limited (JVVNL). The supply should be taken on independent 33 KV feeders from the Sub Stations located at nearest points of proposed STPs.<br>The works component included are as defined below but shall not be limited to:<br><ul style="list-style-type: none"> <li>New 33KV single circuit lattice tower overhead lines from existing substation to each STP location</li> <li>33KV outdoor substation consists of</li> </ul> | <b>Replace by : Electrical</b><br>The power supply will be taken from the Jaipur Vidyut Vitaran Nigam Limited (JVVNL). The supply should be taken on independent 33 KV or 11KV feeders from the Sub Stations located at nearest points of proposed STPs/IPS/other installations.<br>The contractor will be responsible to liaison with the JVVNL and finalize the power feeding system. Contractor shall obtain the estimates for the feeder lines required upto the campus and make payments for the same to JVVNL. The cost for this will be reimbursed to the contractor by the Employer.<br>The works component for contractor are as defined below |



| Sr. No. | Reference to clause and Context | Existing provision  | As Amended  |
|---------|---------------------------------|---|---|
| 1       | 2                               | 3   | 4   |
|         |                                 | <p>lightning arresters, current transformers, voltage transformers, disconnectors, fuses, insulators, ACSR conductor, clamp and connectors with necessary metering and protection arrangement including steel structure</p> <ul style="list-style-type: none"> <li>• 33KV indoor switchboard consists of two VCB incomers with line PT, one VCB bus-coupler and two VCB outgoing feeders with necessary metering and protection arrangement</li> <li>• 33/3.45KV, Dyn11, ONAN transformers with OLTC and RTCC panel</li> <li>• 3.3/0.433KV, Dyn11, ONAN auxiliary transformers</li> <li>• LV variable frequency drives</li> <li>• Neutral grounding resistor on 3.3KV side</li> <li>• 3.3KV indoor switchboard with necessary metering and protection arrangement</li> <li>• 3.3KV capacitors</li> <li>• Soft (reactance) starters for 3.3KV motors</li> <li>• LV switchboard/ distribution board/ lighting panel</li> <li>• Battery, battery charger and DCDB</li> <li>• MV and LV cables</li> <li>• LV capacitors with APFC panel</li> <li>• Local/ remote Push Button stations</li> <li>• Lighting system</li> <li>• Cabling system</li> <li>• Earthing and lightning protection system</li> <li>• Safety equipment</li> <li>• Fully automatic and fail safe operation of the pumping system to</li> </ul> | <p>but shall not be limited to:</p> <ul style="list-style-type: none"> <li>• New 33KV or 11KV single circuit (lattice tower overhead lines/underground cables) from existing substation to each load centre (STP/IPS/other installations) location (to be paid for initially to JVVNL by contractor and reimbursed by Employer)</li> <li>• All the following works will be in the scope of the contractor:</li> <li>• 33KV/11KV outdoor substation consists of lightning arresters, current transformers, voltage transformers, disconnectors, fuses, insulators, ACSR conductor, clamp and connectors with necessary metering and protection arrangement including steel structure</li> <li>• 33KV or 11KV indoor switchboard consists of VCB incomer with two VCB outgoing feeders with necessary metering and protection arrangement</li> <li>• 33 or 11KV/0.433, Dyn11, ONAN</li> <li>• LV variable frequency drives wherever applicable</li> <li>• LV switchboard/ distribution board/ lighting panel</li> <li>• Battery, battery charger and DCDB</li> <li>• LV cables</li> <li>• LV capacitors with APFC panel</li> <li>• Local Push Button stations</li> <li>• Lighting system</li> <li>• Cabling system</li> <li>• Earthing and lightning protection system</li> <li>• Safety equipment</li> <li>• Automatic and fail safe operation of the SPS to meet the varied flows of sewage in most efficient manner shall be provided.</li> </ul> <p><b>Note:</b></p> <p>(i) Availability of system voltage shall be as per Indian Electricity Rules and Regulations laid down by JVVNL.</p> |

| Sr. No. | Reference to clause and Context   | Existing provision   | As Amended  |
|---------|-----------------------------------|--|---|
| 1       | 2                                 | 3  | 4   |
|         |                                   | <p>meet the varied flows of sewage in most efficient manner shall be provided.</p> <ul style="list-style-type: none"> <li>• Battery, battery charger and DCDB</li> <li>• MV and LV cables</li> <li>• LV capacitors with APFC panel</li> <li>• Local/ remote Push Button stations</li> <li>• Lighting system</li> <li>• Cabling system</li> <li>• Earthing and lightning protection system</li> <li>• Safety equipment</li> </ul> <p>Fully automatic and fail safe operation of the pumping system to meet the varied flows of sewage in most efficient manner shall be provided.</p> | <p>(ii) Bidder to ensure availability of power supply with the JVVNL authorities prior to commencement of works.</p> <p>(iii) Type Test Certificates are required to be carried out in the last 3 years for similar type of equipment. Accordingly, suitable amendments are applicable in electrical specifications of Bid Document.</p>  |
| 15.     | 5.5.3.3 (B) Design Build Services | Para 2 reads as under:<br>“ The offers shall ..... the project shall”  | This para shall stand replaced as under:<br>“The offers shall ..... specifications. The Contractor’s design for the entire facility shall be such that the project shall satisfactorily meet the Project outputs as stipulated in the contract.”  |
| 16.     | Vol 2<br>Sec 5.5.3.4 O<br>Pg 49   | <b>Last line second para</b><br>“Additionally, sludge drying bed shall be provided as back up for 25% in case of unavailability of mechanical sludge dewatering equipment.”  | The line is deleted.  |
| 17.     | Vol 2<br>Sec 5.5.3.4 A<br>Pg 38   | Para 4 from top<br>“Fixed runways, lifting eyes, cranes,.....maintenance or any other purpose. Overhead bridge cranes with 3 - way electric movement shall be provided for aeration tank pumps and blowers, in Digester control room for Gas Compressor. Lifting systems shall be sufficient capacity to allow lifting of entire assembled equipment units (e.g. pumps, blowers, or other)   | Para 4 from top replace as below:<br>“Fixed runways, lifting eyes, cranes,.....maintenance or any other purpose. Overhead bridge cranes with 3 - way electric movement shall be provided for aeration tank pumps and blowers. Lifting systems shall be sufficient capacity to allow lifting of entire assembled equipment units (e.g. pumps, blowers, or other) one unit at a time. |

| Sr. No.         | Reference to clause and Context                         | Existing provision   | As Amended   |                 |   |   |
|-----------------|---|--|--|-----------------|---|---|
| 1               | 2   | 3  | 4  |                 |   |   |
|                 |   | one unit at a time.<br>Para 6 from top<br>“All gas flow distribution .....with electrical actuators.”  | Para 6 from Top<br>Deleted   |                 |   |   |
| 18.             | Vol 2<br>Sec 5.5.3.8<br>Pg 143 to 147                   | 33 KV  | 33 KV Replace by 33 KV or 11 KV. Accordingly, suitable amendments are applicable in electrical power supply system.  |                 |   |   |
| 19.             | Vol 2<br>Sec 5.5.3.8<br>Pg 144                          | Power supply Information   | Add information of 11 KV <table><tr><td>11 KV AC System</td><td>Voltage variation +10 to -10% Freq. Variation +5 to -5%</td><td>Three Phase, 50 Hz, effectively earthed AC System SC. Rating of 350 MVA</td></tr></table>  | 11 KV AC System | Voltage variation +10 to -10% Freq. Variation +5 to -5% | Three Phase, 50 Hz, effectively earthed AC System SC. Rating of 350 MVA |
| 11 KV AC System | Voltage variation +10 to -10% Freq. Variation +5 to -5% | Three Phase, 50 Hz, effectively earthed AC System SC. Rating of 350 MVA  |  |                 |   |   |
| 20.             | Vol 2<br>Sec 5.5.3.8<br>Pg 148-149                      | Power transformer  | Add as the Annexure 1 of this addendum at the end of technical particulars for 33 KV Transformer at pg 149.<br>Refer Annexure 1 ( 2 sheets)  |                 |   |   |
| 21.             | Vol 2<br>Sec 5.5.3.8<br>Pg 154-156                      | Hv Switchboard   | Add as the Annexure 2 of this addendum at the end of technical particulars for HV Switchboard at pg 156.<br>Refer Annexure 2 (2 sheets)  |                 |   |   |
| 22.             | Vol 2<br>Sec 5.5.3.8<br>Pg 175                          | Design Criteria<br>“MV capacitors.....whichever is lesser.”  | Deleted  |                 |   |   |
| 23.             | Vol 2<br>Sec 5.5.3.8<br>Pg 177                          | MV & LV Cables   | Add as the Annexure 3 of this addendum at the end of technical particulars for HV & LV cables at pg 177.<br>Refer Annexure 3 (1 Sheet)   |                 |   |   |
| 24.             | Clause 5.4.3.2 (B)<br>Construction of Check Dams        | “Number of Stone Masonry check dams has to be constructed to maintain a minimum 10 cm high water column in .....utility services in future.”   | Replace by<br>“Number of Stone Masonry check dams has to be constructed to maintain a minimum 30 cm high water column in .....utility services in future.”   |                 |   |   |
| 25.             | Sec 5.5.3.4 (A)<br>General Stipulations                 | Para 4 para reads as under:<br>“Fixed runways, lifting eyes, cranes, ..... maintenance or any other purpose. Overhead bridge cranes with 3-way electric movement shall be provided for aeration tank pumps and blowers, in Digester control room for Gas Compressor. Lifting | Para 4 shall stand replaced as under:<br>“Fixed runways, lifting eyes, cranes, ..... maintenance or any other purpose. Overhead bridge cranes with 3-way electric movement shall be provided for aeration tank pumps and blowers. Lifting systems shall be sufficient capacity to allow lifting of entire assembled equipment units (e.g. pumps, blowers, or other) one unit |                 |   |   |

| Sr. No. | Reference to clause and Context   | Existing provision  | As Amended  |
|---------|---|---|---|
| 1       | 2   | 3   | 4   |
|         |   | systems shall be sufficient capacity to allow lifting of entire assembled equipment units (e.g. pumps, blowers, or other) one unit at a time.<br><br>Para 6 reads as under:<br>"All gas flow distribution ..... with electrical actuators." | at a time.<br><br>Para 6 shall stand deleted.   |
| 26.     | 5.5.3.4 (O) Centrifuge Feed Sump, Pump House and Building                 | Para 2 reads as under"<br>"On the ground floor ..... consisting of centrifuges. Additionally, sludge drying bed shall be provided as back up for 25% in case of unavailability of mechanical sludge dewatering equipment."                  | Para 2 shall stand replaced as follows:<br>"On the ground floor ..... consisting of centrifuges."   |
| 27.     | Volume I, Section 4 Bidding Forms TECH Form (Note 4)                      | The reimbursement to Contractor..... through their own arrangements e.g. DG sets/Solar/gas etc. for the system ..... Total Guaranteed Power Requirement.  | Replaced as<br>The reimbursement to Contractor..... through their own arrangements for the system ..... Total Guaranteed Power Requirement. |
| 28.     | 5.1.8.1 Facilities to Contractor  | Para 2<br>"There may be some encroachments on some of these spaces and buildings which may take some time in clearance, for which the Employer will not be held responsible."   | Deleted.  |
| 29.     | Section-7 PCC, Part B: Specific Provision Clause 1.5 Priority of Document | e. Addenda Nos.... (if any)   | Shall be replaced by e. Addendum(s) and Clarifications to Bid Document.... (if any)   |

Annexure-1

**11KV Transformer**

Transformers and its accessories shall comply with the following International Standards, including those referred to therein.

IEC 60076, 60214, 60296 / IS 2026, IS 335 / BS 148, 171

The technical parameters of transformers shall be as below:

| Description   | Unit      | Particulars             |
|---|-----------|-------------------------|
| <b>General</b>  |           |                         |
| Quantity required   |           | 2 nos                   |
| Installation (Indoor / Outdoor)   |           | Outdoor                 |
| <b>Ratings</b>  |           |                         |
| Rated power   |           |                         |
| (*) Contractor shall submit their design calculation for rating of each equipment for JDA or their representative for approval. | KVA       |                         |
| No load voltage Primary   | KV        | 11                      |
| Secondary   | KV        | 0.433                   |
| Number of phases  |           | 3                       |
| Rated frequency   | Hz        | 50                      |
| Impedance voltage   | %         | As per IEC/BIS          |
| Vector group  |           | Dyn11                   |
| Winding material  |           | Electric Grade Copper   |
| Type of cooling   |           | ONAN                    |
| <b>System Voltage</b>   |           |                         |
| Nominal system voltage Primary  | KV        | 11                      |
| Secondary   | KV        | 0.415                   |
| Highest system voltage - Primary  | KV        | 12                      |
| Secondary   | KV        |                         |
| <b>Transformer Secondary Neutral Earthing</b>   |           |                         |
|   |           | Effectively earthed     |
| <b>Insulation Withstand</b>   |           |                         |
| Rated lightning impulse withstand voltage   | KV (peak) | 75                      |
| - Secondary   | KV (rms)  | 3.5                     |
| <b>Temperature Rise</b>   |           |                         |
| Reference design ambient  | °C        | 50                      |
| Temperature rise over design ambient temperature of 50 °C   |           |                         |
| - Average winding temperature rise (by resistance measurement)  | °C        | 55                      |
| - Top oil temperature rise (by thermometer)   | °C        | 50                      |
| <b>Tap Changing Gear</b>  |           |                         |
| Type of tap changer   |           | Off Circuit tap Changer |
| Tapping range   | %         | ± 10%                   |
| Tapping steps   | %         | 2.5                     |
| <b>Bushings</b>   |           |                         |
| Rated voltage - Primary   | KV        | 12                      |
| - Secondary   | KV        | 1.1                     |
| One minute power frequency withstand voltage (dry and wet) - Primary  | KV (rms)  | 28                      |
| - Secondary (Line and Neutral)  | KV (rms)  | 2.5                     |
| Rated lightning impulse withstand voltage   | KV (peak) | 75                      |

| Description                 | Unit  | Particulars                                   |
|-----------------------------|-------|---|
| Nominal creepage distance   | mm/KV | 31  |
| <b>Terminal Connections</b> |       |   |
| Primary line end            |       | Cable box                                     |
| Secondary line end          |       | Cable box/Bus Duct                            |
| Secondary neutral end       |       | One bushing each inside and outside cable box |
| Type of wheels              |       | Plain - Bi-directional                        |

(\*) Values to be ascertained by the Contractor after Submitting design calculations subject to approval.

## Annexure 2

### HV Switchboard detail

MV indoor VCB switchboard shall comply with the following Standards, including those referred to therein.

IEC 60044, 60186, 60255, 60265, 60282, 60298, 60466, 60529, 60694, 60787, 62271 IEC/TR2 61211 and IS 9046, 9920, 9921, 13118, 3427, 4237, 2156, 2705, 3156, 10118, 722, 13118.

The technical parameters of HV switchboards shall be as below:

| Description   | Unit           | Particulars  |
|---|----------------|--|
| <b>General</b>  |                |  |
| Type  |                | Metal enclosed, compartmentalized, draw-out type                   |
| Rated voltage, no. of phases and rated frequency  | KV / - / Hz    | 12 KV, 3 Phase, 50Hz   |
| System neutral earthing   |                | Effectively Earthed  |
| <b>Rated Insulation Levels</b>  |                |  |
| - Rated short duration power frequency withstand voltage  | KV (rms)       | 70   |
| - Rated lightning impulse withstand voltage   | KV (peak)      | 170  |
| Rated normal current of bus bars under design ambient temperature of 50°C and material of bus bar | A / -          | (*), Aluminium - suitable for 100% load including future loads     |
| Rated short-time withstand current and time   | kA (rms) / sec | 16 kA for 1 sec  |
| Dynamic rating  | kA (peak)      | 40   |
| <b>Constructional Requirements</b>  |                |  |
| Minimum thickness of sheet steel in mm Cold rolled (Frame/Enclosure/Covers)                       | mm             | Frame - 2<br>Doors/Covers - 2.0                                    |
| Degree of protection of enclosure   |                | IP-5X  |
| Color finish shade  |                |  |
| - Interior  |                | Glossy White   |
| - Exterior  |                | Light Grey Semi Glossy   |
| Cable connection  |                | Bottom entry and exit  |
| <b>Circuit Breakers</b>   |                |  |
| Type  |                | Vacuum/ SF6  |
| Rated current inside the cubicle under design ambient temperature at 50°C                         | A              | (*) - (Breakers shall be rated for final ratings of motors in STP) |
| Rated operating sequence  |                | O-3 Min-CO-3 Min-CO  |
| Rated short time breaking current   | kA (rms)       | 16   |
| Rated short time making current   | kA (peak)      | 40   |
| Rated short-time withstand current and time   | kA (rms) / sec | 16 kA for 1 sec  |
| Rated peak withstand current  | kA (peak)      | 40   |
| Min. no. of auxiliary contacts  |                | 6 NO + 6 NC after internal use by manufacturer                     |
| Type of operating mechanism   |                |  |
| - Normal  |                | Spring charging for closing and tripping                           |
| - Emergency   |                | Manual and Spring charged for closing and tripping                 |

| Description  | Unit           | Particulars                      |
|--|----------------|----------------------------------|
| Auxiliary control voltage  |                |                                  |
| - Closing coil / Tripping coil                                     | V              | 110V DC                          |
| - Spring charging motor  | V              | 110V DC                          |
| - Space heater and lighting  | V              | 230V AC                          |
| Earthing switch  |                | Required                         |
| <b>Current and Voltage Transformers</b>                            |                |                                  |
| Details of ratio, taps, burden, accuracy                           |                | As per Single Line Diagram (*)   |
| <b>Protective Relays</b>   |                |                                  |
| Type   |                | Numerical (Microprocessor based) |
| Auxiliary supply   | V              | 110V DC                          |
| Details of protective relays                                       |                | As per Single Line Diagram       |
| <b>Switch-Disconnecter</b>   |                |                                  |
| Rated current under design ambient temperature of 50°C             | A              | (*)                              |
| Rated making current   | kA (peak)      | 40                               |
| Rated peak withstand capacity                                      | kA (peak)      | 40                               |
| Rated short-time withstand current and time                        | kA (rms) / sec | 16 kA for 1 sec                  |
| <b>Insulation levels</b>   |                |                                  |
| Rated lightning impulse withstand voltage                          |                |                                  |
| - Across the isolating distance                                    | KV (peak)      | 70                               |
| - Phase to phase, between phases and across open switching devices | KV (peak)      | 60                               |
| Rated short duration power frequency withstand voltage             |                |                                  |
| - Across the isolating distance                                    | KV(rms)        | 23                               |
| - Phase to phase, between phases and across open switching devices | KV(rms)        | 20                               |
| Operating mechanism  |                |                                  |
| - Closing and opening  |                | Spring charged                   |
| - Control voltage  | V              | 110V DC                          |
| Earthing switch  |                | Required                         |
| <b>HV Fuses</b>  |                |                                  |
| Application  |                | Indoor                           |
| Type   |                | HRC                              |
| Rated current  | A              | (*)                              |
| Rated voltage  | KV             | 36                               |
| Rated breaking capacity  | kA (rms)       | 16                               |

(\*) Value to be ascertained by the Bidder after submitting design calculations subject to approval.



Annexure 3

**HV/LV Cables details**

HV / LV Cables shall comply with the following International Standards, including those referred to therein.

IEC 60183, 60227, 60502, 60885 and IS 7098, 5831, 8130, 1554, 10810.

The technical parameters of cables shall be as given below:

| Description                                  | Unit | Particulars  |
|--|------|--|
| <b>HV XLPE Power Cables</b>                  |      |  |
| Rated voltage U / U <sub>0</sub> (Um)        | KV   | 11/11 and 33/36  |
| Material of conductor                        |      | Aluminium (stranded)   |
| Cross-sectional area                         |      | (*)  |
| Type of insulation                           |      | XLPE   |
| Inner sheath                                 |      | Extruded   |
| Outer sheath                                 |      | Extruded   |
| Conductor and insulation screening           |      | Required   |
| Material of armour                           |      | Galvanized Steel (Aluminium for single core cable)   |
| <b>LV Power, Control and Lighting Cables</b> |      |  |
| Rated voltage U / U <sub>0</sub> (Um)        | KV   | 0.6 / 1 (1.2)  |
| Material of conductor                        |      | Aluminium for Power and Tinned Copper for Control cable (stranded)   |
| Cross-sectional area                         |      | (*)  |
| Type of insulation                           |      | XLPE for power and PVC for control cables  |
| Inner sheath                                 |      | Extruded   |
| Outer sheath                                 |      | Extruded   |
| Material of armour                           |      | Galvanized Steel (Aluminium for single core cable)   |
| Cable Protection                             |      | Compound of outer sheath of all LV cables shall contain suitable chemicals for preventing attack by rodents. |

(\*) Value to be ascertained by the Bidder after submitting design calculations subject to approval.