

Stop Corona

(i) Wash Your Hands, (ii) Wear Mask, (iii) Maintain Social Distance

DELHI JAL BOARD: GOVT. OF NCT OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER(EAP)-I
ROOM NO. 501, VARUNALAYA PHASE-I, KAROL BAGH,
NEW DELHI-110005

Email :- eeeap1.djb@gmail.com

Name of Work : "Improvement of Water Supply System including Operation and Maintenance of Transmission & Distribution Pipes, Pumping Stations, Service Connections and Consumer Meters with DMA formation and NRW Reduction in Chandrawal WTP Command Area, Package - 2 (West)".

- JICA Assisted DWSIP in Chandrawal WTP Command Area (Loan ID-P 225)

Corrigendum and Addendum No. 2 and Pre-bid replies

NIT No. 01(2021-22)/EE(EAP)-I(Re-invited)

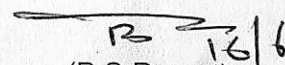
The Pre-bid meeting for the above-mentioned work was held on 18.05.2021. The **Corrigendum and Addendum No. 2 and Pre-bid replies** are enclosed herewith. The schedule of receipt of tenders for the above said work has been revised and is as under:

Last date & time for purchasing Tender Documents: **05.07.2021** upto 15:00 Hours

Last Date/Time for submission of Bids: **07.07.2021** upto 15:00 Hours

Date/Time for opening of Technical Bid: **07.07.2021** at 15:10 Hours

Encl.: As Above

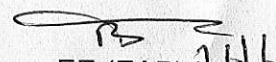

(B S Rawat)
EE (EAP)-I

No. DJB/EE (EAP)-I/2021- **1918-1966**

Dated: 16.06.2021

Copy to:-

1. P.S. to Vice Chairman, DJB
2. Secy. to CEO/Member (A)/Fin/Dr./WS
3. All CE's
4. Under Secretary(JICA), DEA, Ministry of Finance, North Block, New Delhi
5. Dir. (F&A)/ Addl.CEO/ DOV, DJB
6. JICA INDIA
7. SE(Project) Water-I,II,III, IV, V./ (Planning)W/ SE(E&M)WC
8. ALL EE(Project) Water
9. AO(Project) Water-III/ AAO(EAP)-I
10. All AEs(EAP)-I
11. PMSC
12. Contractors Welfare Association registered, 20 FF, LSC, BQ Block, DDA Mkt., Shalimar Bagh, Delhi-88.
13. EE(EDP): with softcopy to upload on DJB Website


EE (EAP)-I **1616**

JICA Assisted Delhi Water Supply Improvement Project in Chandrawal WTP Command Area (ID-P225)

Name of the Work : Improvement of Water Supply System including operation and maintenance of Transmission & distribution pipes, pumping stations, Service connections and consumer meters with DMA formation and NRW reduction in Chandrawal WTP Command Area (Package 2: West Zone).

NIT Number and Date : NIT No. 01 (2021-22)/EE (EAP)-I dated 20.04.2021

CORRIGENDUM AND ADDENDUM (C&A) No. 2

S.N.	Volume	Page	Clause	Corrigendum and Addendum
1.	I	37	ITB 20.1	The last word in the sentence “four” may be read as “three”
2.	I	37	ITB 20.2	The text in the second line “A written Power of Attorney authorizing..” may be read as “A written Power of Attorney or a Board resolution authorizing..”.
3.	I	38	ITB 34.1	The text at the end of first paragraph “the Reserve Bank of India (RBI)” may be read as “Financial Benchmarks India Pvt. Ltd. (FBIL)”.
4.	I	47	Part 1, Section III, Clause no. 2.1.2, Notes for the Bidder at the end of the clause, S. No. (iv)	The entire note (iv) “For Contracts.....requirement” stands deleted.
5.	I	120	Part 1, Section IV Bidding Forms, Form 6: Format for Affidavit	In second line of second last paragraph, the word “restricting” may be read as “restructuring”.
6.	I	132	Part 3, Section VIII (PC), Part A-Contract Data, Clause 8.7, A-2: Portion of O&M Works (Section 2)	The sentence “ For Section 2.C) works, final contract price” stands deleted
7.	I	132	Part 3, Section VIII (PC), Part A-Contract Data, Clause 13.5 (b) (ii)	The sentence “a sum for contractor’s overhead charges and profit shall be 15% of actual amount spent/paid” stands deleted and may be read as “The amount mentioned in Provisional Sum will be used for the items mentioned under Price Schedule CW- P in Volume III of bid documents at page 983 for payment by the contractor and the same shall be fully reimbursed by DJB to the contractor on submitting proof of payment. Being a reimbursement, nothing extra on any account will be payable on this amount”.

S.N.	Volume	Page	Clause	Corrigendum and Addendum
8.	I	135	Part 3, Section VIII, Particular conditions, Table: Summary of Sections, 2.B) O&M during Construction Phase	The sentence under column delay damages sub-clause 8.7 “No O&M cost..... to the agency” stands deleted
9.	I	135	Part 3, Section VIII, Particular conditions, Table: Summary of Sections, 2.C) O&M during Post-Construction Phase	The sentence under column delay damages sub-clause 8.7 “0.1% per day of the value of this..... ceiling of 5%” stands deleted
10.	I	158 and 159	Part 3, Section VIII (PC), Part B: Specific Provisions-Capital Works, Sub-clause 8.1 commencement of work	Under B-2 Column, in clauses (b) and (c), the word “be executed” may be read as “execute”.
11.	I	165	Part 3, Section VIII (PC), Part B: Specific Provisions-Capital Works Sub-Clause 10.5 Completion of Operation and Maintenance Services	Under B-2 Column, in clause (c), the sentence “The Contractor shall hand over all spares on the agreed list to the Employer prior the Final contract Completion Certificate issued” stands deleted.
12.	I	171	Part 3, Section VIII (PC), Part B: Specific Provisions-Capital Works Sub Clause 13.5	The text “Add after Sub-Clause 13.5 (b) (ii), as follows----- shall be paid on these items.” stands deleted.
13.	I	171	Part 3, Section VIII (PC), Part B: Specific Provisions-Capital Works Sub-clause 13.5 Provisional Sums	Under B-2 Column, the word “Contractor” may be read as “Employer”.
14.	II	206	Part 2, Section-VI, A Scope of Work – Sub-Section 2. General, Clause 2.3.5	In the last paragraph, add the sentence as follows. “For O&M works during construction phase i.e. 2 years and 8 months, electricity power charge shall be paid by DJB as per actual consumption”.
15.	II	207	Part 2, Section-VI, A Scope of Work – Sub-Section 2.General, Clause 2.3.7 Sr. No. 4	The last sentence in the paragraph “The employer shall not -----data and/or approvals stands deleted.
16.	II	208	Part 2, Section-VI, A Scope of Work – Sub-Section 2. General, Clause 2.4.3	The words in first sentence of the paragraph under Extra item of work“DBO portion” stands deleted.
17.	II	240	Part 2, Section-VI, A Scope of Work – Sub-Section 5. Scope of UGRs and BPSs Civil Works	Add at the end of this section as, Clause 5.3. Methodology for Rehabilitation of UGRs, Pump Houses and Other Civil works, with the contents as given in Annexure 1.
18.	II	240	Part 2, Section-VI, A Scope of Work – Sub-Section 5, last page Proposed Size and Capacity of UGRs	The sizes in the Row at S. No. 5, Narayana, Read the dimensions as under. Compartment 1: L = 36.6 m, B = 29 m

S.N.	Volume	Page	Clause	Corrigendum and Addendum
				Compartment 2: L = 36.6 m, B = 29 m
19.	II	242-247	Part 2, Section-VI, A Scope of Work – Sub-Section 6, Clause no. 6.5.1 to 6.5.7	The text in the first line of each clause “DJB will provide 11 KV, 50 Hz, 3 phase electrical power upto electrical meter within the premises.” may be read as “DJB will provide 33KV / 11 KV / 415 V supply upto pumping station premises. Its Contractor responsibility to provide DP structure and metering unit in premises as per norms of electricity department. However, metering unit will be supplied by department. Incoming Supply Voltage shall be considered as per load and Norms of Electricity Department. No variation shall be considered in respect of incoming supply voltage”.
20.	II	266	Part 2, Section-VI, A Scope of Work – Sub-Section 8, Notes at S. No. 4 under table 8.1,	The words “and at each LCP of DMAs” Stands deleted.
21.	II	268 & 269	Part 2, Section-VI, A Scope of Work – Sub-Section 8, Clause 8.3; S. Nos. 1.18, 1.24 and 1.28	In item Nos. 1.18, 1.25 and 1.229, the words “4 hour” may be read as “1 hour”. Also the word “1.229” may be read as “1.29”
22.	II	359	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 2, Clause 2.1	In clause no. 2.1, the words in 5th line “geotechnical investigation..”may be read as “geotechnical investigation, if provided in the bid document,..”.
23.	II	364	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 2, Clause 2.5.5, S. No. 2	The first sentence in the paragraph “Cost of road restoration----- include this cost.” Stands deleted and new sentence may be read as “Cost of road restoration charges is not included in the BOQ rates and thus the rates quoted by the Contractor should not include this cost.”
24.	II	384	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 4, Clause 4.4.2	The words “Only good washed sand” in the first paragraph may be read as “Good washed sand/crushed sand”
25.	II	391	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 4, Clause 4.13	The first paragraph “Food Grade Epoxy Resin coatings...400 micron in two coats” Stands deleted and new paragraph may be read asunder: “Food Grade Epoxy resin coatings shall be applied to concrete structures in order to protect the concrete against aggressive effects of water or other unwanted matters. Generally, protective coatings shall be applied to surfaces of concrete structures

S.N.	Volume	Page	Clause	Corrigendum and Addendum
				<p>which are contact with water. The food grade epoxy coating shall exhibit excellent bond strength with substrate when tested as per ASTM D4541. The product shall be formulated to have high build thickness exceeding 200 micron per coat on average and shall be applied to achieve the overall thickness of 400 micron in two coats.</p> <p>External Walls (Above or underground) of water retaining structure:</p> <p>a) Above Ground Level: For External walls, UV resistant coating is required as per relevant IS/ASTM codes. The minimum life of coating shall be 10 years.</p> <p>b) Underground surface: Chemical resistant coating is required as per soil condition and relevant IS/ASTM codes. The minimum life of coating shall be 10 years.”</p>
26.	II	495	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 10, Clause 10.1.3.9	<p>The sentence in the second line of second paragraph “All structure shall be..... (q) : 1.5” stands deleted.</p> <p>The new sentence may be read as</p> <p>“All structures shall be design considering Zone-IV as per Bureau of Indian Standards (IS 1893, Part 1:2002). The following parameters shall be used in the seismic design of Chandrawal WTPs:</p> <p>✓ Zone : IV</p> <p>✓ Zone factor(Z) : 0.24,</p> <p>✓ Importance factor (q) : 1.5”</p>
27.	II	498	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 10, Clause 10.1.6	<p>Add following at the end of sr. no. m)</p> <p>“n)In all liquid retaining structures, a layer of bond breaking material i.e. polyethylene sheet of minimum 1.0 mm thickness of make approved by the Engineer is to be provided between the raft/grade slab and lean concrete, as per provisions in IS:3370”.</p>
28.	II	500	Part 2, Section-VI, C Technical Specifications C1. Civil Works, Sub—section 10, Clause 10.1.8, S. No. 8	<p>The words “within buildings” in second line of paragraph at S. No. 8, may be read as “inside pump houses”.</p>
29.	II	613	Part 2, Section-VI, C Technical	<p>Add in the last line “Static Capacitor will be part of</p>

S.N.	Volume	Page	Clause	Corrigendum and Addendum														
			Specifications C4. Electrical Works, Sub—section 7, Clause 7.4.19 (b)	Main LT Panel. Static Capacitor shall be provided for compensating No load losses of transformer. Design calculation for the same shall be provided during detailed engineering”.														
30.	II	707	Part 2, Section-VI, C Technical Specifications C6. SCADA & Automation-General, Sub—section 3, Clause 3.2	The word “Bidder” mentioned at several places in clause 3.2 may be read as “Contractor”.														
31.	II	788	Part 2, Section-VI, C Technical Specifications C7. SCADA & Automation-Particular, Sub—section 4, Clause 4.3.3.5	Add at the end of clause 4.3.3.5, sub-clause 2, the specification of CMMS are attached as Annexure 2.														
32.	II	828	Part 2, Section-VI, D O&M Services Sub—section 2, Clause 2.3	Add at the end of Clause 2.3: “If the designed demand of water (as approved by DJB/as provided in bid document) required for fulfilling the condition of 24X7 not made available by DJB, then the KPIs will deemed to have been achieved proportionately with reference to the volume of water actually supplied”														
33.	II	829 and 830	Part 2, Section-VI, D O&M Services Sub—section 2, Clause 2.5 Quality of Water Supplied	<div>The performance indicator Table stands Deleted and a new Table is inserted as below.</div> <table><tr><th>‘Quality of Water Supplied’ Performance (D)</th><th>Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)</th></tr><tr><td>From less than 99 to 98%</td><td>2.5 %</td></tr><tr><td>From less than 98 to 97%</td><td>2 %</td></tr><tr><td>From less than 97 to 96%</td><td>1.5 %</td></tr><tr><td>From less than 96 to 95%</td><td>1 %</td></tr><tr><td>From less than 95 to 94%</td><td>0.5 %</td></tr><tr><td>From less than 94%</td><td>Nil</td></tr></table>	‘Quality of Water Supplied’ Performance (D)	Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)	From less than 99 to 98%	2.5 %	From less than 98 to 97%	2 %	From less than 97 to 96%	1.5 %	From less than 96 to 95%	1 %	From less than 95 to 94%	0.5 %	From less than 94%	Nil
‘Quality of Water Supplied’ Performance (D)	Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)																	
From less than 99 to 98%	2.5 %																	
From less than 98 to 97%	2 %																	
From less than 97 to 96%	1.5 %																	
From less than 96 to 95%	1 %																	
From less than 95 to 94%	0.5 %																	
From less than 94%	Nil																	
34.	II	830	Part 2, Section-VI, D O&M Services Sub—section 2, Clause 2.6 Meter Reading, Billing and distribution efficiency	<div>The performance indicator Table stands Deleted and a new Table is inserted as below.</div> <table><tr><th>‘Meter Reading, Billing and Distribution Efficiency’ Performance (E)</th><th>Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)</th></tr><tr><td>From less than 100 to 98%</td><td>1.67 %</td></tr><tr><td>From less than 98 to 96%</td><td>1.33 %</td></tr><tr><td>From less than 96 to 94%</td><td>1.0 %</td></tr><tr><td>From less than 94 to 92%</td><td>0.67 %</td></tr></table>	‘Meter Reading, Billing and Distribution Efficiency’ Performance (E)	Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)	From less than 100 to 98%	1.67 %	From less than 98 to 96%	1.33 %	From less than 96 to 94%	1.0 %	From less than 94 to 92%	0.67 %				
‘Meter Reading, Billing and Distribution Efficiency’ Performance (E)	Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)																	
From less than 100 to 98%	1.67 %																	
From less than 98 to 96%	1.33 %																	
From less than 96 to 94%	1.0 %																	
From less than 94 to 92%	0.67 %																	

S.N.	Volume	Page	Clause	Corrigendum and Addendum	
				From less than 92 to 90%	0.33 %
				From less than 90%	Nil
35.	II	830 and 831	Part 2, Section-VI, D O&M Services Sub—section 2, Clause 2.7 Response time for New Water Supply Connections	The performance indicator Table stands Deleted and a new Table is inserted as below.	
				‘Response Time for New Water Supply Connections’ Performance (F)	Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)
				From less than 100 to 95%	0.75 %
				From less than 95 to 90%	0.5 %
				From less than 90 to 85%	0.25 %
				From less than 85%	Nil
36.	II	831	Part 2, Section-VI, D O&M Services Sub—section 2, Clause 2.8 Functioning of Water Meters	The performance indicator Table stands Deleted and a new Table is inserted as below.	
				‘Functioning of Water Meters’ Performance (G)	Payment payable to the Operator (As percentage of total agreed O&M payment for the billing period)
				From less than 98 to 96%	0.67 %
				From less than 96 to 94%	0.33 %
				From less than 94%	Nil
37.	III	865	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 4.3.1 (CW-G)	The word “Fe-500D” in the item shall be read as “Fe-500”	
38.	III	904	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.1 (CW-DB-C)	The nomenclature of item no. 12.3 may be read as “Providing and Fixing C.I. Surface Box 100mm top dia., 160mm bottom dia. And 180 mm deep (inside) with chained lid”	
39.	III	905		The nomenclature of item no. 12.5 may be read as “Providing and Fixing Anchor Fastener – M10 to MS Clamps”	
40.	III	917	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.1 (CW-DB-C)	In second column, the word in bracket “10.70 ML capacity” may be read as “5.5 ML + 6.8 ML capacity”	
41.	III	918	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.5 (CW-DB-C)	In second column, the word in bracket “Rehabilitation of existing UGR at Thansingh” may be read as “Rehabilitation (2.2 ML capacity) and extension (0.45 ML) of existing UGR at Thansingh”	
42.	III	918	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.6 (CW-DB-C)	In second column, after the text, add “(21.79 ML Capacity)”	

S.N.	Volume	Page	Clause	Corrigendum and Addendum
43.	III	918	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.7 (CW-DB-C)	In second column, after the text, add “(3.5 ML Capacity)”
44.	III	918	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.8 (CW-DB-C)	In second column, after the text, add “(4.5 ML Capacity)”
45.	III	999	Part 1, Section-IV Price Bid, Section B, Price Schedules, Schedule (OM-PR)	Add at the end of the Schedule OM-PR, BoQ for Asset replacement of SCADA & Instrumentation works during O&M period as per Annexure 3

5.3 Methodology for Rehabilitation Works

5.3.1 Methodology for Rehabilitation of Existing UGRs

1. Conduct the following tests on existing surface of concrete in walls, Bottom raft and roof slab to find out the strength and condition of existing concrete as per relevant Indian code and site requirement.
 - a) Concrete core extraction and testing
 - b) Ultrasonic pulse velocity test
 - c) Rebound hammer
 - d) Carbonation test
 - e) Cover depth test
 - f) Chloride content
2. Chipping of unsound/weak concrete material from walls, slabs, beams, columns and bottom raft etc. with manual Chisel and/ or by standard power-driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-charge as per item no. 26.28/P-430 of DSR 2018.
3. Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge as per item no. 26.29/P-430 of DSR 2018.
4. Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specification and direction of Engineer-In-charge complete in all respect as per item no. 26.31/P-430 of DSR 2018 and repair as per item no. 26.32/P-430 of DSR 2018.
5. Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge as per item no. 26.39/P-432 of DSR 2018.
6. Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry as per item no. 26.35.3/P-432 of DSR 2018.
7. Cleaning of exposed concrete surface (all walls, column, underside of roof, beams) of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge as per item no. 26.37/P-432 of DSR 2018.

8. Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by engineer-in-charge as per item no. 26.40/P-433 of DSR 2018

9. Shotcreting R.C.C. columns, beams, walls and undersides of slabs etc. in layers with approved design mix concrete. The minimum thickness shall be 75mm with Grade M 30 with cement content not less than 330 kg per cum as per item no. 26.38/P-432 of DSR 2018.

10. Providing and applying Food Grade water based cementitious acrylic polymer coating, by cleaning all RCC surface and applying coating as per manufacturers specification/data sheets including labour, tools etc. complete with leveling course if required. Coating shall be laid in two coats over a suitable primer coat. Coating shall be non toxic, anti fungal, anti bacterial. The minimum life of epoxy coating shall be 10 years. For detail specification refer section VI Volume 2, Technical Specifications - Civil Works-Clause 14.11

11. Provide minimum 100 mm thick screed on UGR raft with M30 grade concrete and maintain the slope as per requirement after proper cleaning and bonding with existing concrete as per specifications given in DSR and IS codes.

12. Roof water proofing treatment with APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane as per item no. 14.91/P-254 of DSR 2018.

5.3.2 Methodology for Rehabilitation of Existing Pump House, MCC room and other structures in the premises

1. Repairing the plaster work of the walls and roof of pump house as required by Engineer in charge in according to condition of plaster.
2. Grouting of concrete wall if there is any leakage.
3. Repairing or replacement of damaged door, windows, rolling shutter etc
4. Emulsion paint over walls and roof.
5. Replacement/ repairing/addition of false ceiling if any.
6. Roof water proofing treatment with APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane as per item no. 14.91/P-254 of DSR 2018
7. Repair / replacement of electric wiring
8. Replacement / repairing of flooring.
9. Construction of cable trench in ground floor if required.
10. Extension of pump house if required as per new equipments.
11. Replacement / repair of plumbing fitting and fixtures.
12. Replacement / repairs of tiles in toilet.
13. Fitting of fire-fighting fixtures as per requirement.

Any other work required for proper functioning of project. All work shall be done according to relevant Indian codes and standard engineering practice.

5.3.3 Methodology for O & M works for civil structures in UGR/BPS complex

1. Roads: Repair and maintenance of all roads in the plants. No undulation shall be there in roads. Resurfacing of 2cm thick premixed top layers of all bitumen roads in plant site after repairing of all base courses once in four years as per Section VI-Technical Specification –Civil Works Sub Section 7.0 of bid document. At the end of O & M period, road shall be fully function able.
2. Drainage: Any repair and maintenance shall be in the scope of contractor. All drainage shall be de-silted throughout the year. All precast cover shall be in proper position and any damaged cover shall be replaced immediately. There is no settlement of drain, if any, contractor has to correct the same.
3. MCC Room, Pump House, Boundary wall and other buildings at plant: Any repair and maintenance work of plaster, paint, door & windows, false ceiling, leakage of roof, flooring etc are in the scope of contractor. All structural steel items shall be all time free of rust and painting shall be done after repairing work.
4. Utilities: Plumbing, electrical, sanitary and firefighting equipment shall be properly operational all time and at time of handover plant to client. All utilities shall be without any breakage and leakage etc.
5. Street Light/ Plant Lighting: All plant light shall be fully functional all the time. Any Repair or replacement to be needed, shall be done immediately.
6. Landscaping: Proper maintenance and repair shall be done as required at site immediately. Number of Trees planted shall not be less than at plantation done during landscaping. Proper watering, cutting, manuring of trees and grass shall be done time to time as required for their growth. Contractor will be fully responsible for the growth of trees and grass etc.
7. Reservoir: All reservoirs shall be free from any crack, leakage at all time. Food Grade epoxy painting shall be there in reservoir all the time. Any structural damage to any part of reservoir is the responsibility of contractor to repair it. Any damage to epoxy coating shall be immediately repaired.
8. Full painting work once in three years of existing structures like MCC room, pump house, security room, boundary wall, reservoir and other building including walls, ceilings, door, windows, structural members etc same as per existing paint specification or project requirement as given in section VI-Technical Specification –Civil Works Sub Section no 6.9 to 6.11 Volume II of bid document.

Computerized maintenance management system (CMMS):

Computerized maintenance management system (CMMS) is a software package that maintains a computer database of information about an organization's maintenance operations. CMMS data may also be used to verify regulatory compliance.

To properly control the maintenance of a facility, information is required to analyze what is occurring. Manually, this requires a tremendous amount of effort and time. A CMMS allows for record keeping, to track completed and assigned tasks in a timely and cost-effective manner. CMMS facilitates better control and organize maintenance management.

The different components of a CMMS include but are not limited to:

1. Equipment data management
2. Preventive maintenance
3. Predictive maintenance
4. Labor
5. Work order system
6. Scheduling/planning
7. Vendor management
8. Inventory control
9. Purchasing
10. Budgeting
11. Asset tracking

SCHEDULE OM-PR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
2	Replacement of Assets related to SCADA and Instrumentation works after minimum 5 years of economic life by dismantling & disposal of existing system and installation of new system including Supply, Delivery, Construction/Installation, testing and commissioning of new system with associated hardware, software and communication system all complete for Package 3 (Central Zone)	-	-	-	-	-	-
1. Distribution System SCADA Hardware							
A. Zonal SCADA Control Room (Central Zone) Hardware							
1.1	Web Router	Nos.	1				
1.2	Alarm/Event printer (Dot Matrix)	Nos.	1				
1.3	A4 laser printer with scanner	Nos.	1				
1.4	Office WAN router	Nos.	1				
1.5	WAN Firewall	Nos.	1				
1.6	Network Managed Switches (24 port) for Central Server	Nos.	1				
1.7	Network Managed Switches (8 port) for UGRs	Nos.	2				
1.8	GPRS modem (TCP/IP)	No.	1				
1.9	GPRS modem (TCP/IP)	No.	1				
B. At8 UGR & 7 BPS							
1.10	A4 laser printer with Scanner	Nos.	1				

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
1.11	GPRS modem (TCP/IP)/Modbus.	Nos.	1				
1.12	10" Colour Panel HMI with Touch Screen along with its Software for gravity outlet flow UGRs.	Nos.	1				
C. At 46DMAs with 47 Inlets							
1.13	Telemetry RTU with built-in PLC & Modbus Communication enabled with Panels & Accessories with 7" Colour HMI Screens (46 for lowest pressure points + 47 for Inlets).	Nos.	10				
1.14	230V AC UPS with 1 hr backup (46 for lowest pressure points + 47 for DMA Inlets).	Nos	10				
2. Instrumentation System for 8 UGRs and 7 BPSs							
2.1	Ultrasonic Level Transmitter	Nos.	4				
2.2	Water Level Switch	Nos.	4				
2.3	Pressure Transmitter	Nos.	5				
2.4	Pressure Switch	Nos.	2				
2.5	Pressure Gauge	Nos.	10				
2.6	Bar Graph Indicator	Nos.	5				
3. Instrumentation for 78 DMAs with 103 Inlets							
3.1	Pressure Transmitters (47 at inlets, 47 at outlets & 46 at lowest pressure points).	Nos.	10				
3.2	Pressure Gauges (47 at inlets, 47 at outlets & 46 at lowest pressure points).	Nos.	10				
3.3	Level switch for valve chamber flooding alarm	Nos.	4				
4. CCTV, FIRE & INTRUDER ALARM (Hardware and Software)							
4.1	Intruder Alarm System for UGRs/BPSs (one Intruder/burglar alarm with adequate nos. of motion detectors and one extra system for Jhandewalan PH).	Sets	1				

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
4.2	Fire Alarm System for BPSs (Cold Wire/Wireless Technology).	No.	1				
Total of this Schedule OM-PR							

JICA Assisted Delhi Water Supply Improvement Project in Chandrawal WTP Command Area (ID-P225)

REPLIES TO PRE-BID QUERIES

PACKAGE 2(West Zone)

Name of the Work : Improvement of Water Supply System including operation and maintenance of Transmission & distribution pipes, pumping stations, Service connections and consumer meters with DMA formation and NRW reduction in Chandrawal WTP Command Area (Package 2: West Zone).

NIT Number and Date : NIT No. 01 (2021-22)/EE (EAP)-I dated 20.04.2021

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
1.	Volume I	Invitation for Bids, Clause-2	-	Bid Security	The GOI Ministry of Finance issued memorandum dated 12th November 2020 directs that "No provision for providing Bid security is to be kept in tender documents instead must be replaced with Bid securing declaration in all future tenders". The copy of the same is herewith enclosed for your ready reference. Accordingly request you to please delete the provision of EMD and accept the Bid securing Declaration.	As per Bid documents
					In accordance to the Office Memorandum No. F/9/4/2020-PPD dated 12.11.2020 issued by Procurement Policy Division, Department of Expenditure, Ministry of Finance, Govt. of India, We request you to allow Bid security declaration from Bidder as security for Bids	
					We request DJB to open an Escrow account wherein all the revenues from the Project Area would be deposited and would be used for payment to the Operator, which is the case in most of similar tenders. We also request DJB to open a Reserve Account wherein an amount equivalent to minimum 3 months' O&M payment to the Operator is maintained. We request DJB to consider these suggestions for payment security.	
2.	Volume I	Invitation for Bids, Clause-2	-	Construction duration	Time duration for construction (32 months) is very stringent, considering the nature of A. Scope of Work in a highly congested city and also considering the assessment of the existing infrastructure. Hence, we request you to increase the construction duration to four years i.e. 48 months. Please consider and confirm.	As per Bid documents

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					The specified for the construction part is mentioned only 3 Years. Looking at the volume of work and areas, the time mentioned for the execution is not sufficient. Hence, we request you to kindly give contractors reasonable time period of 5 years for construction.	
3.	Volume I	Invitation for Bids, Clause-2	-	Preparatory period	Considering the assessment of vast existing infrastructure in highly congested area, we request you to increase the preparatory period to at least 6 months. Kindly consider and confirm.	As per Bid documents
4.	Volume I	Invitation for Bids, Clause-7	-	Bid submission	<p>We would like to participate in the above tenders and found that the available time is short. We request you to extend the date of submission upto 30 days from date of lifting the lockdown due to COVID outbreak, so as to enable us to submit competitive offer.</p> <p>Due to current pandemic situation, we request you to allow only online submission of Bids.</p>	As per Bid documents
5.	Volume I	Invitation for Bids, Clause-7	-	Pre-bid meeting	In view of the current pandemic situation and continuous lockdown, we request you to arrange the pre-Bid meeting through Video conference and share the credentials	Done accordingly
6.	Volume-I	Section-I: ITB, Clause no. 18.3	18	Period of validity of Bids	Please clarify which portion of the Bid Price shall be adjusted and by which factor.	As per Bid documents
7.	Volume-I	Section-I: ITB, Clause 32.3	28	Nonmaterial Nonconformities	Provided that a Technical Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the method specified in Section III, Evaluation and Qualification Criteria. Please provide clarification.	As per Bid documents
8.	Volume – I	Section I: ITB, Clause no. 19.1	37	Bid Security Declaration	As per the recent Government Guideline No. F.9/4/2020-PPD issued by Ministry of Finance, Government of India, we request you to consider submission of Bid Security Declaration In place of Bid Security which will alleviate the financial strain of the Bidder. Kindly consider & confirm.	As per Bid documents
9.	Volume – I	Section-I: ITB, Clause no. 20.2	37	Format and signing of Bid	<p>We propose that the clause be re-worded as follows, thereby granting the authority to sign the Bid via power of attorney or Board resolution:</p> <p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of: A written Power of Attorney or a Board resolution authorizing the signatory of the Bid to commit for the Bidder, signed by their legally authorized representatives</p>	Refer to C&A NO. 2 S.N. 2.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
10.	Volume – I/ Section II	Section-II: ITB, Clause no. 34.1	38	Source of Exchange rate	<p>As per the referred clause, “<i>The source of exchange rate shall be: the Reserve Bank of India (RBI).</i>”</p> <p><i>The date for the exchange rate shall be: 28 days prior to the date of Bids submission specified in ITB 22.1”</i></p> <p>We would like to bring to your kind notice that the Reserve Bank of India has stopped publishing exchange rates and the same has been taken over by Financial Benchmarks India Pvt. Ltd. (FBIL) with effect from July 10, 2018 vide RBI press release : 2018-2019/35. Kindly modify the clause and issue necessary amendments.</p>	Refer to C&A NO. 2 S.N. 3.
11.	Volume – I	Section-III: EQC, Clause no. 2.1.1 (i) (b)	39	Condition of Qualification Criteria	<p>The referred clauses state, exchange rate for ‘<i>Construction turnover or financial data</i>’ and ‘<i>Value of Single contract</i>’ as ‘<i>prevailing on the last day of the respective calendar year</i>’ and ‘<i>prevailing on the date of the contract</i>’ respectively.</p> <p>In general, the audited statements of an Indian organisation is declared in the respective financial year (i.e., 01st April to 31st March), we request you to consider “<i>Exchange rate prevailing on the last day of the respective financial year</i>”. Kindly confirm.</p>	As per Bid documents
12.	Volume I	Section-III: Clause no. 2.1.2, S. No. 4	43	Experience	<p>We request that the Bidder shall be allowed to use the technical experience (specific construction experience) of its affiliate company to meet the prequalification requirements.</p> <p>Kindly confirm.</p>	As per Bid documents.
13.	Volume I	Section-III: Clause no. 2.1.2, Item no. 4.2 (a)	43	Specific construction Experience	<p>As per the tender it is mentioned that The following experience of similar (ii) contracts that have been satisfactorily completed as a prime contractor (single entity or JV member) (iii) between 1st January 2011 and Bid submission deadline.</p> <p>Pipe Works:</p> <p>The contract(s) including supply, construction, installation, testing and commissioning of a new/rehabilitation of Water Supply Pipeline Systems in at least;</p> <p>a) one contract of not less than the length of 190 km with CI/MS/DI pipes, out of which 50 km shall be of diameter 300 mm and above, or</p> <p>b) two contracts each of not less than the length of 135 km with CI/MS/DI pipes, out of which each of 35 km shall be of diameter 300 mm and above, or</p> <p>c) three contracts each of not less than the length of 95 km with CI/MS/DI pipes, out of which each of 25 km shall be of diameter 300 mm and above.</p>	As per Bid documents.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					<p>For increasing the healthy competition we request for the specific requirement of pipe diameter 350 mm and above should be reduced to pipe diameter 200 mm and above and other MOC pipes i.e. HDPE/PVC/RCC should also be allowed to claim experience.</p> <p>Since most of the distribution pipeline size is between 100 to 400 mm, we request you to amend the referre clause as follows Pipe Works: The contract(s) including supply, construction, installation, testing and commissioning of a new/rehabilitation of Water or raw Sewage or treated sewage Pipeline Systems in at least; a) one contract of not less than the length of 190 km with CI/MS/DI/HDPE pipes, out of which 50 km shall be of diameter 100 mm and above, or b) two contracts each of not less than the length of 135 km with CI/MS/DI/HDPE pipes, out of which each of 35 km shall be of diameter 100 mm and above, or c) three contracts each of not less than the length of 95 km with CI/MS/DI/HDPE pipes, out of which each of 25 km shall be of diameter 100 mm and above.</p> <p>We would like to bring to your kind notice that commissioning of large size contracts involving pipeline work often get delayed due to various reasons which are neither in control of Client nor of Contractor. A pipeline that has been supplied, laid and hydro tested successfully is as good as a commissioned pipeline. Thus we hereby request you to modify the requisite criteria as: <u>“The contract(s) including supply, construction, installation and hydro-testing of a new/rehabilitation of Water Supply Pipeline Systems in at least;</u> a) one contract of not less than the length of 190 km with CI/MS/DI pipes, out of which 50 km shall be of diameter 300 mm and above, or b) two contracts each of not less than the length of 135 km with CI/MS/DI pipes, out of which each of 35 km shall be of diameter 300 mm and above, or c) three contracts each of not less than the length of 95 km with CI/MS/DI pipes, out of which each of 25 km shall be of diameter 300 mm and above.</p>	

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					Allowing the Bidders with such project experience would increase the Bidders participation and would create a platform for health competition among Bidders.	
14.	Volume I	Section-III: Clause no. 2.1.2, Item no. 4.2 (b) (i)	45	Rehabilitation of Existing Pipe	In most of the certificates, client doesn't specify the experience of DMA and NRW/UFW reduction. Kindly accept the water supply project O&M experience without insisting for DMA and NRW/UFW reduction.	As per Bid documents
15.	Volume I	Section-III: Clause no. 2.1.2, Item no. 4	47	Notes for the Bidder	It is mentioned in the tender document “ For contracts under which the Bidder participated as a JV member, only the Bidder’s share, by value of contract, physical size, complexity, methods / technology and/or other characteristics, shall be considered to meet this requirement”. Since laying of pipeline is not a technology oriented work. Considering it in the 1 st call of these tenders, this note was not applicable in package 3 tender PQ and subsequently it was deleted in pre Bid replies for Package 2 and Package 4 PQ criteria. We request you to delete this clause to increase the healthy competition.	Refer to C&A NO. 2 S.N. 4.
16.	Volume I	Section-III: Note under Clause no. 3.2 (a), Stage 2	52	O&M after preparatory period	Who will the guarantee / responsibility of old / existing system?	As per Bid documents
17.	Volume I	Part-I, Section-IV	120	Form 6 – Format of affidavit	In the “Form 6 – Format of affidavit” it is mentioned as “ <i>We are not in a financial restricting process under the Corporate Debt Restructuring (CDR) or similar mechanism at submission of Bids.</i> ” We presume that it is a typographical error and that it should have been as Corporate Debt Restructuring instead of Corporate Debt Restricting. Kindly confirm and amend the form accordingly.	Refer to C&A NO. 2 S.N. 5.
18.	Volume I	Section- VII, referred (GC - FIDIC 2008 gold book)	127	Interim Payment	Kindly release the interim payment within 15 days after submission of bill	As per Bid documents
19.	Volume I	Section VII, (GC - FIDIC 2008 gold book) Clause 2.2	127	Permits, licenses or approvals	The permits, licenses and approvals will have to be sought from various government agencies/authorities with Employer’s assistance. Hence, for any delay in granting/approving the permits, licenses and approvals by such government agencies/authorities, the Contractor should be entitled to extension of time and additional costs. We propose the following language to be added at the end of the Clause: “ <i>In the event the Contractor suffers any delay and/or incurs any additional cost(s) due to any delay in granting/approving the permits, licenses and approvals by such government agencies/authorities for reasons not attributable to the Contractor, then the Contractor shall be</i> ”	Client will issue necessary letters to concerned agencies as requested by the contractor. Nothing extra will be payable due to such delay.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					<i>entitled to: (i) the extension of time equivalent to the delayed period; and/or (ii) additional costs incurred by the Contractor due to such delay."</i>	
20.	Volume I	Section VIII, Particular conditions, Part A, Contract Data, Sub-Clause no. 3.1(B)(ii)	130	Engineers Duties and Authority	We request you to please modify this clause and it to be read as "Variations resulting in an increase/decrease of the Accepted Contract Amount up to 10% shall require approval of the Chief Engineer (Water) Project-II"	As per Bid documents.
21.	Volume I	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 2.1	130	Right to Access	It is Our understanding that the Right to Access of the site is a condition precedent for commencement of the Work. Please confirm.	As per Bid documents.
22.	Volume I	Section VIII, Particular conditions, Part A, Contract data, Sub-Clause no. 4.2	131	Performance security – O&M	<u>Contract terms:</u> The current contract condition demands the performance security, issued in form of a bank guarantee, @ 10% of the total value of Section 2(B) and 2(C) works respectively. <u>Our Proposal:</u> We propose to have the performance security, issued in form of a bank guarantee, @ 10% of the Annual Price of Section 2(B) and 2(C) respectively.	As per Bid documents
23.	Volume I	Section VIII, Particular conditions, Part A, Contract Data, Sub-Clause 8.7	132	Table Summary of Section	It is our understanding that "Agency" referred to in this section is the Contractor. Please confirm.	Yes, Confirmed.
24.	Volume I	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 8.7	132	Maximum amount of delay damages	We request explanation for delay damages '0.1% per day of the value of this Section 2.C) Works in the Contract price'	Refer to C&A NO. 2 S.N. 6.
25.	Volume I	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 8.7	132	Table Summary of Events	Please confirm whether the delay damages imposed on the Contractor for failure to meet the timelines under either 1 (A), (B), (C), (D), (E) shall be refunded if the Contractor manages to complete the entire works within the stipulated 40 months.	As per Bid documents.
26.	Volume I	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 14.2	132	Total Advance Payment	It is our understanding that the advance payment is a condition precedent for commencement of the Work. Please confirm.	As per Bid documents.
27.	Volume-I	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 13.5 (b) (ii)	132	Provisional Sum	We understand that 15% towards contractor's overhead charges and profit shall be paid over and above the rates mentioned in BOQ of Provisional Sum. Please clarify.	Refer to C&A NO. 2 S.N. 7.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
28.	Volume-1	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 13.5 (b) (ii)	132	BOQ for Provisional sum for Restoration of Road	We understand that the provisional sum will be paid as per the actual quantities executed at site. Please clarify.	The work will be basically executed by other agency and the Contractor shall make payment to them as per instruction of DJB and claim the money in next RA Bill.
29.	Volume-I	Section VIII, Particular conditions, Part A, Contract Data Sub-Clause 20.3	134	Appointment (if not agreed) to be made by ICC	Need clarification for domestic Bidder. How is the appointment done?	As per Bid documents.
30.	Volume I	Section VIII, Particular conditions, Part A, Table Summary of Sections 2.B) O&M during Construction Phase	135	Delay Damages	<p>For delay in completion of construction, the Contractor is penalized with LDs. However, as per the provision under Section VIII, Contractor will not be paid the O&M price in case of delay in construction. Please appreciate that these two activities (construction and O&M) are independent from each other and therefore delay in construction should not have any impact whatsoever on the O&M payments. Moreover, the Contractor is penalized in more than one way for the delay in construction (delay LDs and non-payment of O&M). We request you that the O&M should be paid irrespective of delay in construction.</p> <p>It is mentioned that No O&M cost will be paid to the agency after 32 months, if the delay is attributed to the agency. We request client kindly keep the provision of financial penalty, because in case of No payment Contractor shall face heavy financial loss and it Further, it may also exceed the maximum capping on delay damages. Requesting you kindly revisit this clause.</p> <p>What's about delay if attributed to the DJB</p> <p>As per the Clause, no O&M Cost shall be paid to the Contractor after 32 months, if the delay is attributed to the Agency. Hence, even if 1% Capex works remains and there is delay in completing Section 2 (B), the Contractor will not be paid any O&M Cost as per this Clause, which is unfair and a big risk to the Contractor's cash flow. Hence, we propose the following:</p> <p>- <u>either delete this penal provision altogether OR charge a delay damage at the rate of 0.1% per day of the value of this Section 2 (B) Works in the Contract Price, subject to maximum ceiling</u></p>	Refer to C&A NO. 2 S.N. 8

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					<i>of 5% of the value of this Section 2 (B) in the final Contract Price.</i>	
31.	Volume-I	Section VIII, Particular conditions, Table: Summary of Sections	135	Delay LD during O&M	<p>Referred clause states that delay LD shall be 0.1% per day of the value of this Section 2.C) Works (O&M) in the Contract Price, which seems to be a typographical error, since delay in O&M period is not applicable.</p> <p>We request you to consider Zero point Zero Five (0.05) % per day of the Contract Price of each Section as Delay damages for the Works subject to maximum of 5% of Contract Price. Kindly consider and confirm.</p>	Refer to C&A NO. 2 S.N. 9
32.	Volume-I	Section VIII, Particular conditions, Part B, Sub-Cause. 1.5	139	Priority Documents of	If an ambiguity or discrepancy is found in the documents, the Engineer shall determine any necessary clarification or instruction. Kindly delete the above-mentioned statement.	As per Bid documents.
33.	Volume-1	Section VIII, Particular conditions, Part B, Sub-Cause. 1.15	140	Inspections and Audit by the Employer	What will be the frequency of checking the accounts of the contractor and bank accounts	As and when required
34.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause. 1.16	140	Audit by the Employer	This clause is not found in the MULTILATERAL DEVELOPMENT BANK HARMONISED EDITION GENERAL CONDITIONS June 2010 FIDC conditions 2010	As per Bid documents.
35.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 4.1 (g)	144	Particular Conditions Asset replacement	Referring to the clause, kindly confirm that our understanding is correct to assume that Contractor will be responsible for capital (facilities) replacement during O&M period but the expenses towards procurement of such items will be additional to the O&M Cost provided. Since the facilities may include items like pipes, pumpsets, panels, etc., it is difficult to quantify and price accordingly.	As per Bid documents
36.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause. 4.2	145	Performance Security for Construction Works	When Performance Security of Construction Works will be returned?	As per Bid documents.
37.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause. 4.2	145	Performance security - O&M	<p><u>Contract terms:</u></p> <p>First Performance Security of O&M (against Section 2(B)) works is to be submitted within 28 days before the end of the Preparatory Period (Section 2(A)) and shall be returned to the Contractor within 28 days after receiving the Performance Certificate of Section 1 Works and Second Performance Security (against Section 2(C)) received by the Employer; Further, Second Performance Security of O&M (against Section 2(C)) is to be submitted within 28 days before commencement date of O&M during post-construction phase and shall be returned within 28 days after receiving the Final Contract Completion Certificate.</p>	As per Bid documents.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					<p><u>Query:</u> Basis interpretation of the above clauses, it appears that during the Defects Liability Period, i.e., from the time of completion of Section 1 Works and till the issuance of Performance Certificate, both the First and Second Performance Securities shall remain valid and live.</p> <p><u>Our Proposal:</u> We propose that Second Performance Security should be submitted within 28 days after receiving the Performance Certificate for Section 1 Works.</p> <p>The referred clause, “(a) First Performance Security of O&M: within 28 days after receiving the Performance Certificate of Section 1 Works, and Second Performance Security received by the Employer (b) Second Performance Security of O&M: return to the Contractor within 28 days after receiving the Final Contract Completion Certificate.” We request to release the performance security of O&M on prorata basis at the end of each year of O&M. Kindly confirm.</p>	
38.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause. 4.4	146	Subcontractors	<p>It is mentioned in this sub-clause that during the execution of the work, the Contractor shall not alter the composition without the prior consent of the Engineer. It is our understanding that the intent of the said sub-clause is to ensure no change in the “arrangement with the Specialist Subcontractor without the prior consent of the Engineer.</p> <p>In view of the above, the language of the said sub clause should be modified as below: “In the contract, “Specialist Subcontractor” means a subcontractor whose experience in the key activities was evaluated in the Technical Bid and is stated in the Contract. During the execution of the work, the Contractor shall not alter its arrangement with the aforesaid Specialist Subcontractor without the prior consent of the Engineer. Also, the Contractor shall not alter the composition without prior notification to the Engineer.”</p> <p>Please confirm.</p>	As per Bid documents
39.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause. 4.19	148-150	Electricity, Water and Gas	<p>1 % water charges is applicable or not after this proper connection.</p> <p>We propose to provide for a clause in the tender document wherein the Contractor is granted reasonable extension of time in case of non-</p>	As per Bid documents

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					<p>availability of water or non-availability/sanction of electric connection. Please confirm.</p> <p>As per the referred clause, “Wherever Delhi Jal Board water is made available to the contractor for construction and drinking purpose recovery @ 1% of the gross amount of civil & erection of E&M works done shall be made. The ferrule connection with the Employer main and the pipeline upto the site shall be provided by the contractor at his own cost.”</p> <p>We request you to recover the amount as per actual volume of water consumed rather than 1% of gross amount of Civil & Erection of E&M works. Kindly consider and confirm.</p>	
40.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 4.25	151	As-Built Documents	<p>While the Contractor is expected to update the maps continuously, it is not clear who will be responsible for the GIS maps preparation initially? Also, if the maps are to be provided by DJB or third party, please provide the timelines as the GIS updation will be contingent upon receipt of these maps in a satisfactory manner.</p>	As per Bid documents
41.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 6.7	155	Health Safety and	<p>In the event of outbreak of epidemic/pandemic, if the Contractor is required to comply with rules/regulations issued by various local medical/sanitary or governmental authorities, the Contractor should be entitled to extension of time equivalent to the delayed period and additional costs which it might incur due to such compliance with aforesaid rules/regulations. In view of the foregoing, please add the following at the end of the sub-clause:</p> <p><i>“If the Contractor suffers a delay or incurs an additional costs due to its compliance with aforesaid all such regulations, orders and/or requirements as may be applicable during the outbreak of an illness of epidemic nature, including those imposed by various governments and the local medical or sanitary authorities, then the Contractor shall be entitled to: (i) an extension of time equivalent to the delayed period; and/or (ii) additional costs incurred by the Contractor due to such delay or compliance by the Contractor.”</i></p>	As per Bid documents. Nothing extra will be paid on this account.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
42.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 6.7	158-159	Commencement of Work	<p>It is our understanding that there is a typo error in the second sentence mentioned under clause 8.1 (b) and 8.1(c) of Section 2 Work and the same shall be as below: Unless otherwise stated in the Works Requirements, the Contractor shall not execute any part or all of the Operation and Maintenance Works until the following precedent conditions.</p> <p>Kindly confirm.</p>	Refer to C&A NO. 2 S.N. 10.
43.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 8.13	160	Delays and interruptions during Operation & Maintenance	<p>Please note, provision of delay damages is already given if there is any delay in the Operation and Maintenance post Construction. Hence, we request you to please delete this clause in its entirety to avoid double penalization of the Contractor.</p> <p>The Contractor is expected to compensate for the loss of revenue, loss of profit etc. in case of interruptions. This is a very high risk for the Contractor. In fact, the performance of the Contractor is subject to KPIs and non-performance has several stringent penalties and deductions attached to it. We request you to delete this sub-clause.</p>	As per Bid documents
44.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 10.5	165	Completion of Operation and Maintenance Services	This is related to available spares or JWIL has to procure all the spares available in the list for next 2 years after completion of O&M period.	Refer to C&A NO. 2 S.N. 11.
45.	Volume-I	Section VIII, Particular conditions, Part B, Sub-Cause 13.3	169	Variation Procedure	<p>The project scope comprises of water supply with reduction of NRW, rehabilitation of existing facilities and construction of new structures. During conditional assessment, the scope of quantities may vary from current BoQ quantities. Hence, we understand that the variation in quantities shall be paid as per BoQ rates. Kindly confirm.</p> <p>Kindly confirm, the variation is applicable for works under O&M during construction period and post construction period"</p> <p>The variation limit for quantity shall be +/- 10%. If variation is beyond the specified limits there after Bidder shall be entitled for rate revision.</p> <p>Kindly confirm, the variation is applicable for works under O&M during construction period and post construction period"</p>	As per Bid documents.
46.	Volume-I	Section VIII, Particular conditions, Part B, Sub-Cause 13.5,	171	Provisional Sums	Referring to the clause, we presume that the word "Contractor" should be replaced with "Employer". Kindly confirm.	Refer to C&A NO. 2 S.N. 13

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
47.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 14.4	173	Payment of Retention Money	We understand that retention money will be released after submission of Bank Guarantee for Retention Money. When will this bank guarantee released? Please clarify.	As per Bid documents.
					When the deposit of accumulated sum of Retention Money reaches more than 50% of the Retention Amount limit and the Contractor submits the Bank Guarantee, the Engineer may certify for the release of Retention Money against the Bank Guarantee.”	
					Please allow the Bidder to provide upfront bank guarantee in lieu of cash retention.	
					As per the referred clause, “ <i>When the deposit of accumulated sum of Retention Money reaches more than 50% of the Retention Amount limit and the Contractor submits the Bank Guarantee, the Engineer may certify for the release of Retention Money against the Bank Guarantee.</i> ”	
					In order to have better cashflow, we request you to amend the payment of retention money in line with the previous call as “When the deposit of accumulated sum of Retention Money reaches more than 1% of the Accepted Contract Amount and the Contractor submits the Bank Guarantee, the Engineer may certify for the release of Retention Money against the Bank Guarantee.” Kindly consider & confirm.	
48.	Volume I	Section VIII, Particular conditions, Part B, Sub-Cause 20.6	181	Arbitration	b) if the Contract is with domestic contractors, arbitration with proceedings conducted in accordance with the laws of the Employer’s country. The place of arbitration shall be a neutral location determined in accordance with the applicable rules of arbitration; and the arbitration shall be conducted in the Language for communication defined in sub-clause 1.4.	As per Bid documents.
					What will be the composition of the tribunal on the cases of Domestic Bidders	
					Kindly provide for the following in the Arbitration Clause: <ul style="list-style-type: none"> • <u>Manner of Appointment of Arbitrators:</u> Both parties should be given the right to appoint an arbitrator each and the two appointed Arbitrator shall mutually appoint the Presiding Arbitrator. • <u>Place of Arbitration:</u> Please provide the place/venue for Arbitration, in case of any dispute. • <u>Cost of Arbitration:</u> Both parties shall mutually share the cost of 	

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					arbitration. • <u>Governing Law:</u> Arbitration & Conciliation Act, 1996. Please Confirm.	
49.	Volume I			Payment Timeline	Please clarify when payment will be released after submission of bill along with supporting documents.	As per Bid documents.
50.	Volume I			Delay Damages	Kindly restrict the delay damages to 0.1% per week subject to maximum of 5% of contract value.	As per Bid documents.
51.	Volume -II	Section VI, Sub-Section 2.	-	A. Scope of Work General – Water Quantity	<p>We request Client to provide minimum quantity of water sufficient to meet needs of the consumers. This minimum quantity to be guaranteed during the Contract Period, should be mentioned in the tender document. Shortfall in meeting this bulk quantity from the WTP outlets should be considered as exclusion i.e. waiver to the Operator's obligation to meet relevant KPIs such as 24x7 water supply.</p> <p>To achieve the KPI during Operation and Maintenance by the Contractor, minimum treated water supply – as required and communicated by the Contractor (if not specified in the contract) - is to be provided and maintained by the Employer.</p> <p>In the event the minimum treated water supply as mentioned above is not timely provided and/or not maintained by the Employer, then the Contractor should be entitled to extension of time and additional costs in the event of a delay. Additionally, for non-maintenance of the minimum treated water supply, the Contractor should not be charged any performance damages/reduction in O&M Cost. We propose the following additional language to be inserted:</p> <p>“In the event the Contractor suffers any delay and/or incurs any additional cost(s) due to any delay in providing minimum treated water supply by the Employer as required and communicated by the Contractor (if not specified in the contract) to fulfill the KPIs during the Operation and Maintenance, then the Contractor shall be entitled to: (i) the extension of time equivalent to the delayed period; and/or (ii) additional costs incurred by the Contractor due to such delay.</p> <p>Additionally, if the Employer fails to or is unable to maintain the minimum treated water supply as mentioned above, then the Contractor shall not be liable to pay any performance damages or bear any reduction in O&M Cost.”</p>	Refer to C&A NO. 2 S.N. 32

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52.	Volume II	Section VI: A. Scope of Work, Sub-Section 1, Clause 1.4.2	197	Transmission/Distribution Networks in 3 Zones	As per tender, the design year is 2051. We understand this that all the works identified for 2051 will be implement in next 3 years. Please confirm the project scope will be to implement all identified proposed works in next 3 years.	As per Bid documents.
53.	Volume II	Section VI: A. Scope of Work, Sub-Section 1, Clause 1.4.2	197	Population data	We understand pipeline diameters specified in BOQ is based on water demand of year 2051. Please confirm.	Yes, Confirmed.
54.	Volume II	Section VI: A. Scope of Work, Sub-Section 1 & 2, Clause 1.4.2	197 & 199	Distribution System	We understand from the given data that there is total 274+84 = 358 km of water supply distribution network for package 2, out of which 274 km of pipes are new which is 76% of total pipeline. Considering the un-availability of underground utility drawings, it is recommended to replace 100% existing pipes with new pipes in order to achieve 15% NRW.	As per Bid documents.
55.	Volume II	Section VI: A. Scope of Work, Sub-Section 1 & 2, Clause 1.4.2	197 & 199	House Service Connections	We understand specified numbers of House service connections covers all properties in package II area. Please confirm.	It is the estimated number of service connections in project area. Consumer household survey is in contractor's scope
56.	Volume II	Section VI: A. Scope of Work, Sub-Section 1 & 2, Clause 1.4.2	197 & 199 and Sr. no. 5, P-200	Condition assessment of existing pipelines:	We understand that based on conditional assessment of referred existing pipelines, if part or complete pipeline are required to replaced with new pipeline, the same shall be included in System Improvement Plan (SIP) and contractor shall be paid accordingly. Please confirm.	Yes, Confirmed.
57.	Volume II	Section VI: A. Scope of Work, Sub-Section 1, Clause 1.4.2 and Sub-section 2, Clause 2.3	197 & 200	Construction of new Pumping Stations Utilization of space above UGR	Kindly provide the soil investigation report of New Pumping station locations with ground water table/HFL details. 1) Please confirm the foot print area (sq. m) of office to be constructed over the roof of UGRs 2) Further we also understand that such offices are to be built over the new UGRs only and not over the existing UGRs. Please confirm.	Soil investigation is in contractor's scope. Office area will be decided at later stage. Yes, only for new UGRs.
58.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.2	199	Land acquisition and right of way	We presume the land has been acquired for the transmission and distribution network and right of way for the works will be provided by employer to contractor. We understand that necessary width of right of way required for laying pipeline shall be provided to us free of cost and free from all encumbrances, clearances from all authorities including Forest department, Railways, NH etc. and including crop compensation to	As per Bid documents. Employer will issue necessary letters to concerned agencies as requested by the

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					private land owners. Please confirm if our understanding is correct.	contractor.
59.	Volume-II and Volume-III	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3 & Section-IV, Bidding Forms Price Bid, Section B- Price Schedules, Item no. 1.1 (CW-DB-C)	200 & 917	Utilization of space above New UGRs	Utilization of space above New UGRs is not mention in Design Build UGR BOQ item. We presume that cost for associated work for utilisation of UGSRs roof will be paid extra to Bidder, so please confirm.	Yes, this work will be paid as extra if ordered for execution.
60.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.1(1)	200	Survey, Investigation and Design Confirmation works	Does the employer have any referenced data of benchmark (BM), DGPS points and Topographic survey for revalidation, or do the operator need to do a new/fresh Topographic survey? Kindly Clarify.	Topographic drawings available in Volume-IV of Bid document
					Does the employer have existing GIS Base map data (digitized geographical features like road, building etc.)? If yes, will this be made available to the operator? When it was last updated, and in which format this is available for sharing? Kindly Confirm and Clarify.	
					It is requested to provide the details of available GIS maps or shape files by the Employer?	
61.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.1(5)	200	Survey, Investigation and Design Confirmation works	As per the referred clause, “ <i>Condition assessment of existing pipelines: Condition assessment of the existing pipelines that are to be retained as it is (not to be replaced) on the matters of pipe material, diameter and internal encrustation (on sample basis) status which are to be required for confirmatory hydraulic modelling and pipe replacements.</i> ” We request you to provide Methodology (i.e. No. of Samples, Type of tests to be carried out etc.) for conducting Condition Assessment of existing Transmission and Distribution pipe lines and diameter wise details of retained pipes. Please consider and provide the same. Also, there is no BOQ item for payment against Conditional Assessment, we request you to include the item in BOQ and issue necessary amendments.	As per Bid documents

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62.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.1(6)	200	Survey, Investigation and Design Confirmation works	As per the referred clause, “Conditions assessment of the existing UGRs and BPSs proposed for Rehabilitation in view of design and construction methodologies to be prepared for the rehabilitation works.” We request you to provide Methodology (i.e. No. of Samples, Type of tests to be carried out etc.) for conducting Condition Assessment of existing UGRs and BPSs. Please consider and provide the same. Also, there is no BOQ item for payment against Conditional Assessment, were quest you to include the items in BOQ.	As per Bid documents.
63.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.1(6)	200,	Conditions assessment of the existing UGRs	For Bidding purpose we request you to kindly provide GA and construction drawings of existing UGRs and BPSs For Bidding purpose we request you to kindly provide details of existing electromechanical items such their equipment data sheets, duty parameters, capacities, age of equipment, make etc.	Please refer Vol. IV of Bid documents.
64.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.1(9)	201	Survey, Investigation and Design Confirmation Works	Please confirm in which format Hydraulic Models will be made available for validation.	Water GEMS file
65.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.2	201	Detailed Design works	We request you to kindly share soil investigation and strata report for each UGR and BPS location, carried out by consultant during DPR preparation. This is required for Bidder's reference design and estimation during Bid stage	Soil investigation is in contractor's scope.
66.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.3 (1)(d)	201	Pipeline Works	Kindly provide the HFL and monthly water level variation data of the canal for last 5 years, if available for construction of the truss bridge over it. Also, please confirm whether any temporary structure can be erected inside the canal.	The Bidder may collect the data from relevant department, site visit and assess them.
67.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.3 (1)(d)	201	Pipeline Works	Different pump duty parameters have been indicated for Peak, Average and lean flow. We request you to kindly confirm the flow to be considered for calculation of electrical load for power guarantee. Also, we presume that if any variation in head is to be provided during actual design in such case the guaranteed figures would be revised accordingly. Kindly confirm.	As per Bid documents
68.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.3 (2) (d)	202	The contractor is suggested to design and select the pumps	We understand that Guaranteed performance figures including power consumption is not applicable for existing pumping stations. Please confirm.	As per Bid documents

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69.	Volume-II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.5 1.	205	O&M Activities	It is mentioned that O&M of existing BPS has to be done till new BPS are commissioned. We understand only regular operation and preventive maintenance has to be done by the Contractor and if any major maintenance occurs, the Employer shall bear the cost towards it. Kindly confirm if our understanding is correct.	As per Bid documents.
70.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.5	205	O&M Activities	1. Total scope of the work to be maintained is not specified in the tender documents. Kindly provide complete the list of Structures, Distribution pipe line, E&M equipment to be maintained for next 10years so as to enable us to arrive the cost of O&M 2. We presume that we are responsible for maintenance of the old structures/Pipe line/E&M equipment/House Service Connections etc. but replacement and major repairs are in the scope of the Client since we cannot assess the quality and take the guarantee of the work that had been executed by other contractors. Kindly confirm.	As per Bid documents
71.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.5	206	Power Charges	We presume that the power charges during operation and maintenance of existing pumping station for first 2 years 8 months will also paid by DJB as DJB will be paying the power charges from 4th to 13th year. Please confirm We understand that electricity power charges for all existing facilities shall be paid by Employer at actuals starting from the date of taking over of these assets by Contractor for operations and maintenance. Please confirm.	Refer to C&A NO. 2, S. No. 14
72.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.6 (2)	206	Customer services	Please reconfirm that all the existing HSC and meters are to be replaced with new one. We understand that the referred Replacement of damage meters is applicable for newly installed meters and not for any existing meters. Please confirm.	No. all existing HSC and Consumer Water meters won't be replaced.
73.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.6 (2)	206	Revenue Collection	We understand revenue collection from customers is not scope of Contractor. Please confirm.	Yes, confirmed.
74.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.5	206	NRW reduction and Customer Services	The scope says, <i>"Meter reading, generation of bills and integrating with DJB's Revenue Management System (RMS)"</i> . As per our understanding, DJB has their own billing software, which is being used for meter reading and billing. Do we need to deploy a separate software/system in place for meter reading and billing then integrate the same with DJB's Revenue Management System? Please clarify	The contractor/operator doesn't require their own billing software but has to use DJB's RMS.
75.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.6 (2)	206	NRW reduction and Customer Services	We understand that, first time meter cost will not be chargeable to the customers, however, post replacement/installation, if tempering with meter or meter damages or meter stolen kind of incidents happened, then	As per Bid documents.

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					for the replacement or installation of new meters, the cost will be recovered from the customers, as per cost defined by the DJB and operator will be reimbursed as per BoQ rates of meter & accessories. Please confirm.	
76.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.6 (2)	206	NRW reduction and Customer Services	As per scope <i>“Design and supply of Software based Complaint Redressal System (CRS), receiving and redressing the customer complaints”</i> .As per our experience, to deploy a robust Complaint Redressal System it is mandatory to have the integration with billing system, for data synchronization on real time basis. It helps to serve the customers better. Keeping the same practice in mind, it is proposed to have the Integration of Complaint Redressal System with DJB's Revenue Management System. Shall we consider the same as part of scope of the work without any additional cost to operator for integration. Please confirm.	No, Stand-alone CRS is envisaged.
77.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.7 (1)	206	Miscellaneous Works and services	Please provide the location for setting up of water testing laboratory. Does it required to be installed at each booster pumping station or UGR. Please provide the number lab set ups to be provided.	Only one laboratory is required. This will be constructed at Than Singh UGR complex.
78.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.7 (4)	207	Miscellaneous works and services	We propose to provide for a clause in the tender document wherein the Contractor shall be given extension of time in case there is a delay in obtaining permits and approvals not attributable to Contractor. Please confirm.	Refer to C&A NO. 2 S.N. 15.
79.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.3.7 (4 & 8)	207	Miscellaneous works and services	As per the referred clause, <i>“Liaising works with external agencies for getting all required permissions, approvals, licenses and registrations of plant and facilities as required for completing the project.”</i> We understand that the liasoning is only required for plant & facilities and complete right of way for pipeline laying works shall be provided by employer. Kindly confirm.	As per Bid documents.
80.	Volume II	Section VI: A. Scope of Work, Sub-section 2, Clause 2.4.2	208	*Note under Clause 2.4.2	Please elaborate the referred note. We understand that 10 years of O&M period for any new command area will be started immediately after completion of its construction within 3 years of total construction period. For ex. If any command area is completed within 6 months of completion of 4 months of preparatory works, then that command area shall be taken over for O&M for next 10 years only. Accordingly there will be progressive taken over of other areas for 10 years O&M. Please confirm.	Irrespective of the starting date, the final date of O&M is the end of 13 th year from the commencement of the contract.
81.	Volume II	Section VI: A. Scope of Work, Sub-section 3,	211	Trenchless Pipe Sections	We understand required permissions to lay the pipe by trenchless method from respective authorities shall be provided by Employer.	Client will issue necessary letters to

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		Clause 3.1.1		for railway, road, highway, elevated metro lines		concerned agencies as requested by the contractor.
82.	Volume II	Section VI: A. Scope of Work, Sub-section 3, Clause 3.1.2	211	Distribution Pipelines from UGR to inlet of DMAs Secondary Mains	In refer clause the “Online water quality measuring points at each DMA” is requested, from this we understand that under the water quality measurement only residual chlorine and turbidity shall be measured please confirm.	As per Bid document
83.	Volume II	Section VI: A. Scope of Work, Sub-section 3, Clause 3.1.3	212	Distribution Pipes within the DMA pipe networks- Distribution pipe	It is given that to minimize the number of road crossings, the rider mains should be proposed. Please specify the criteria for providing the rider/parallel pipe w.r.t the pipe diameter and road width. As there can be utilities like gas, electrical, sewer, storm on the congested roads and there is a likelihood of damage to these utilities while pipe laying, It is requested to provide Utility maps/drawings in GIS or AutoCAD to avoid hazards and discrepancies in work.	As per Bid documents
84.	Volume II	Section VI: A. Scope of Work, Sub-section 3, Clause 3.1.5	213	Drawing for bridge crossing above canal	As per tender clause Structural Details Drawing for bridge crossing above canal will be available with tender document. But in tender document this drawing is missing so please provide the same in AutoCAD format.	Refer to Vol. IV of Bid documents
85.	Volume II	Section VI: A. Scope of Work, Sub-section 3, Clause 3.1.8 (b)	215	Maintenance of Public Stand Post and Community Taps	It is given that, “b) Installation of water meters for all Public Stand Posts and Community Taps with the renovation of service lines where necessary during the construction phase and ...” Clarification required whether flow meters to said locations are to be installed only during construction period? Are those no. of meters are included in BOQ?	As per Bid documents.
86.	Volume II	Section VI: A. Scope of Work, Sub-section 3, Clause 3.1.8 (a)	215	Maintenance of Public Stand Post and Community Taps	Since it would be difficult for any contractor to maintain the water supply services at public stand post and community taps, we request you to remove same from the scope. Kindly consider and confirm.	As per Bid documents.
87.	Volume II	Section VI: A. Scope of Work, Sub-section 3, Clause 3.2	215	Quantities of Pipeline and Valve works to be carried out for distribution	In the referred clause it is mentioned that “ <i>since the existing pipe network details at most of the areas have uncertainties as per the available as-built details, the given quantities in the BOQs could vary significantly during the execution.</i> ” We presume that any variation in pipe quantities during execution shall be payable at actuals. Kindly confirm.	Yes, confirmed.

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				system		
88.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause 4.2	219	Customer Survey and Mapping	Does the employer have existing Geocoded consumers/meters data? If yes, We request client to kindly share the data with the operator and Provide us the details when it was last updated?	No.
89.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause 4.2	219	Customer Survey and Mapping	While the Contractor is expected to update the maps continuously, it is not clear who will be responsible for the GIS maps preparation initially? Also, if the maps are to be provided by DJB or third party, it is requested to please timely provide the maps as the GIS updation will be contingent upon receipt of these maps in a satisfactory manner. Similarly, other Employer data (including without limitation AutoCAD drawings and consumer data) will have to be timely provided by the Employer. If there is any delay in providing the abovementioned GIS maps and/or Employer data by the Employer, the Contractor should be entitled to extension of time and additional costs. We propose the following language to be added at the end of the Clause: <i>“In the event the Contractor suffers any delay and/or incurs any additional cost(s) due to any delay in providing GIS maps and/or Employer data(including without limitation AutoCAD drawings and consumer data) by the Employer, then the Contractor shall be entitled to: (i) the extension of time equivalent to the delayed period; and/or (ii) additional costs incurred by the Contractor due to such delay.”</i>	As per Bid documents.
90.	Volume-II	Section VI: A. Scope of Work, Sub-section 4, Clause 4.3.1	220	DMA	How many DMAs are proposed to be established during construction phase?	As per Bid documents
					Any control Room will be constructed at DMA/ Remote Locations wherever CCTV/ RTU will be installed. Please clarify.	Either a Control Room or LCP to be provided, as per site requirement.
91.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause 4.3.10,(A) (i)	223	Pipeline and Asset Management	From the referred clause, we understand that all asbestos cement pipes, PVC pipes and most of the aged CI pipes in the distribution network will be replaced by internally lined DI pipes and the provision for the removal of same is not available in the price schedule. Kindly include the same and issue necessary amendments.	As per Bid documents

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92.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause4.3.10 (A) (iv)	225	Pressure Management	<p>It is given: <i>"However, at some locations, pressure reducing devices may be deployed to control the pressure if required."</i></p> <p>However, in the BOQ there is no item given for PRV.</p> <p>It is requested to clarify if PRV/PSVs will be an extra item if proposed in proposal and cost will be encore by employer/client.</p>	In case Pressure Reducing Valves (PRV) are required, that will be treated as an extra item.
93.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause4.11	232	Providing new connections	<p>As per Scope <i>"DJB shall receive the application for and complete the statutory process and intimate to the Contractor" The Contractor shall make the connection as per agreed specification and BOQ within the time frame defined under the Performance Guarantee.</i> As per our understanding, contractor is not authorized or not allowed to accept or process New Connection applications. It will be taken care by DJB and the contractor will be informed to make the connections against new connection applications, post approval/sanctioned by DJB. Please confirm</p>	As per Bid documents
94.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause4.13	233	Training of DJB staff	<p>1) What is provision of O&M during initial period. What support DJB can provide during intial operating period.</p> <p>2) Please clarify whether existing systems are under operation by DJB staff or private operator.</p> <p>3) In case of O&M by DJB staff, we understand Contractor scope under this project is limited to only training of DJB staff. There will not be onboarding or employment to any DJB staff on Contractors pay roll. Please confirm.</p> <p>4) If current systems are under operation by Private operator, Can Contractor of this project deploy his own manpower for O&M? We understand conitnuity of existing O&M operator is not mandatory.</p>	As per Bid documents
95.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause4.14.1	234	Mutation	<p>As per Scope <i>"DJB shall receive the application for and complete the statutory process and intimate to the Contractor. The Contractor shall update the consumer record."</i>As per our understanding, contractor is not authorized or not allowed to accept or process mutation applications. It will be taken care by DJB and the contractor will be informed to update the record post approval by DJB. Please confirm.</p>	As per Bid documents
96.	Volume II	Section VI: A. Scope of Work, Sub-section 4, Clause4.14.2	234	Disconnection	<p>As per Scope <i>"DJB shall receive the application for and complete the statutory process and intimate to the Contractor. The Contractor shall disconnect and update the consumer record."</i>As per our understanding contractor is not authorized or not allowed to accept or process disconnection applications. It will be taken care by DJB and the</p>	As per Bid documents

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					contractor will be informed to disconnect and update the record, post approval by DJB. Please confirm.	
97.	Volume II	Section VI: A. Scope of Work, Sub-section 5, Clause 5	235	Reference Dwgs	Please provide referred dwgs for our reference.	Refer to Vol IV of Bid document.
98.	Volume II	Section VI: A. Scope of Work, Sub-section 5, Clause 5.1	235	Existing pumps	Kindly provide the details such as year of installation, efficiency of pumps/motors installed in Shastri Nagar, Janta Park and Than Singh Pumping stations.	The bidder is advised to make a site visit and assess the actual situation
99.	Volume II	Section VI: A. Scope of Work, Sub-section 5, Clause 5.2	235	SLD	In referred Clause for all pumping station reference drawing numbers are mentioned, However, SLD's is not provided with the tender document. Kindly furnish the SLD / Electrical Scheme drawing for better understanding of the battery limit & A. Scope of Work	Refer Vol. IV of Bid document
100.	Volume II	Section VI: A. Scope of Work, Sub-section 5, Clause 5.2.1, 5.2.3, 5.2.4 & 5.2.5	235 to 238	Rehabilitation of UGR	The referred clause states, "Existing UGR consists of two compartments. One of the compartments has to be constructed by continuing existing water supply with the other compartment as per the methodology given in specification and elsewhere in the document" However, from the drawings, it is clear the existing UGR has only one compartment and hence continuity of supply will not be possible during rehabilitation. Kindly clarify.	Contractor has to first construct the small reservoir outside the existing reservoir and divert the supply from small reservoir. After that balance portion of reservoir shall be constructed.
					The referred clause states, " <i>The condition of existing reservoir of Rock Garden is good with a better appearance. However, non-Destructive testing shall be carried out on the structure to confirm the exact condition and required remedial measures shall be taken to enhance the life of this structure.</i> " Since the existing Rock garden UGR is of single compartment, in case of rehabilitation, it will not be possible to ensure supply of water to area under its command. Kindly clarify.	
					The referred clause states, " <i>Existing UGR consists of two compartments. One of the compartments has to be constructed by continuing existing water supply with the other compartment as per the methodology given in specification and elsewhere in the document.</i> " However, from site visit, it is observed that the existing UGR has only one compartment and hence continuity of supply will not be possible during rehabilitation. Kindly clarify.	

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101.	Volume II	Section VI: A. Scope of Work, Sub-section 6, Clause 6.5	241	Reference SLDs	Please provide referred Single Line Diagrams for our reference.	Refer to Vol IV of Bid document.
102.	Volume II	Section VI: A. Scope of Work, Sub-section 6, Clause 6.5	242	DG set	As per the clause, DG set with AMF panel has been proposed at all pumping station. We presume that DG set shall be considered to cater the power requirement of entire pumping station during EB failure condition. Kindly confirm.	As per Bid documents
103.	Volume II	Section VI: A. Scope of Work, Sub-section 6, Clause 6.5	242	Scope of Electrical Works	As per our understanding the electrical A. Scope of Work for Bidder will only start after metering in the plant premises at each location. Please confirm.	Refer to C&A NO. 2 S.N. 19.
104.	Volume II & Volume III	Sub section 8 scope of S&I works Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.7 (CW-DB-S&I) Item no. 3	265 & 962	Requirement of Electromagnetic flow meter	As per the referred clause in Volume 2, 22 nos. of Electromagnetic flow meters are considered at UGR and BPS locations. Whereas as per referred clause in Volume 3, 21 nos. of Electromagnetic flow meter are considered at UGR and BPS locations. Both clauses are differing. Kindly clarify and confirm the quantity of Electromagnetic flow meters.	The payment will be made as per actual quantity executed at site.
105.	Volume II	Section VI: A. Scope of Work, Sub-section 8, Clause 8.1, Notes at S. No. 4 under table 8.1	266	Notes: 3 Requirement of CCTV system at DMA locations	As per the referred clause, CCTV monitoring is required at all UGRs/BPS and at each LCP of DMAs whereas as per Volume 3 (5. CCTV, FIRE & INTRUDER ALARM (Hardware and Software, Pg. 128), CCTV monitoring is provided only for UGR/BPS locations. Hence kindly confirm the provision of CCTV monitoring at DMA locations.	Refer to C&A NO. 2 S.N. 20.
106.	Volume II	Section VI: A. Scope of Work, Sub-section 8, Clause 8.1	266	Notes: 5 Requirement of Disaster recovery and Business continuity plan	As per the referred clause, SCADA system to be provided with Disaster recovery and Business continuity plan whereas the provision for the same is not available in the BOQ. Kindly clarify the requirement of Disaster recovery and Business continuity plan and amend the BOQ accordingly.	As per Bid documents
107.	Volume II	Section VI: A. Scope of Work, Sub-section 8, Clause 8.2	266	Equipment Details for SCADA System	Kindly clarify and confirm the power supply availability at DMA inlet/ lowest pressure points (230 V AC/ 415 V AC).	As per Bid documents
108.	Volume II	Section-VI, A Scope of Work – Sub-Section 8, Clause 8.3;	268 & 269	UPS	As per specification, additional workstation outside SCADA center comprising web router and UPS for 10 web clients to be provided. Kindly provide the UPS battery backup hours for our necessary consideration.	Refer to C&A NO. 2 No. 21.
109.	Volume II	Section VI: B. General Requirements, Sub-section 1, Clause 1.8	275 & 276	Dismantled material	The referred clause, we would like to bring to your kind notice that dismantled civil materials viz., bricks, CI/ MS scrap, stone soling, unserviceable reinforcement cannot be estimated accurately, as it would be extremely difficult to provide accountability for dismantled materials which are completely deteriorated. Kindly consider and remove the referred clause by issuing necessary amendments.	As per Bid documents.

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110.	Volume-II	Section VI: C1. Civil Works, Sub-section 2, Clause 2.1	359	Geotechnical Investigation	As per tender clause “All test results of the geotechnical investigation to be conducted by Contractor shall be compared with the tendering stage geotechnical investigation and critical results among the two geotechnical investigations shall be adopted for the design purpose as approved by Engineer.” So kindly provide the Tender stage geotechnical investigation report for all proposed UGR and Pump House locations.	Refer to C&A NO. 2 No. 22.
111.	Volume II	Section VI: C1. Civil Works, Sub-section 2, Clause 2.5.5 (2)	364	Road Restoration	The referred clause states that “Cost of road restoration charges is included in the BOQ rates and thus the rates quoted by the Contractor should include this cost”. Whereas in BOQ the complete road restoration works are covered under provisional sum. Hence, we presume that road restoration works is not in the scope of contractor. Kindly clarify and confirm.	Refer to C&A NO. 2 No. 23.
112.	Volume II	Section VI: C1. Civil Works, Sub-section 3, Clause 3.7.5	376	Bedding	As per given clause “where rock is encountered in trench beds the trimmed rock surface at the pipe bed to be filled with clean sand for at least for a 150mm thickness”. We request you to include provision for the same in BoQ. Kindly confirm.	As per Bid documents
113.	Volume II	Section VI: C1. Civil Works, Sub-section 4, Clause 4.4.2	384	Aggregate Sand	As the availability of natural sand is increasingly becoming scarce, we request you to allow the Bidders free to use manufactured / crushed sand, which complies with the design criteria and satisfies the codal provision and based on the availability. Kindly confirm.	Refer to C&A NO. 2 No. 24
114.	Volume-II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.3.6	495	Ground Water Table	It is mentioned that “The water level shall be considered at the ground level for design of structures irrespective of the ground water level given in the geotechnical report.” Please allow the Bidder to consider ground water table as per geotechnical investigation report for design of structures.	As per Bid documents
115.	Volume-II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.3.9	495	Seismic Zone	Please allow use of Seismic Zone IV instead of Zone V in line with recommendations of IS 1893. <i>In the referred clause states that “An importance factor appropriate for the type of structure shall be considered for design of all structures. All Structures shall be design considering Zone-V as per Bureau of Indian Standards (IS 1893, Part 1:2002). The following parameters shall be used in the seismic design of Chandrawal WTPs: shall be taken as minimum 1.5 and zone factor Z= 0.36”. We request you to allow the Bidder to consider seismic zone as IV and zone factor as 0.24 as per latest IS 1893 (part 1):2016. Kindly confirm.</i>	Refer to C&A NO. 2 No. 26.

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116.	Volume II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.4 (v & vii)	496	Uplift floatation or	The referred clause states that “ <i>Underground or partially underground structures shall also be checked against stresses developed due to any combination of full and empty compartments with appropriate ground/uplift pressures from below to base slab. A minimum factor of 1.2 shall be ensured against uplift or floatation</i> ”. We request to allow the Bidder to consider soil weight and foundation weight against uplift calculation. Kindly confirm.	As per Bid documents
117.	Volume II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.6	497	Clear Cover	In the referred clause, it is mentioned that “ <i>All Liquid / Non liquid retaining structures shall be provided with clear cover of 50mm</i> ”. We request you to consider clear cover as per IS 456:2000 for economical design of structures.	As per Bid documents
118.	Volume-II & Volume-III	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.6 (f) Section-IV, Price Bid, Section B- Price Schedules, Item no. 4.3.1 (CW-TM)	497 & 865	Grade reinforcement of	As per Volume-II Clause 10.1.6(f) Grade of reinforcement is Fe 500 whereas in price Bid BOQ reinforcement grade is Fe 500D. Hence, we presume that the BOQ shall govern and Fe-500D is correct please confirm.	Refer to C&A NO. 2 No. 37.
119.	Volume II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.6	498	Design Requirements	The referred clause states that “ <i>Walls for liquid retaining structures – 250mm, Roof slabs for liquid retaining structures – 200mm, Bottom slabs for liquid retaining structures – 250mm, Floor slabs including roof slabs, walkways and canopy slabs – 150mm, , column footings – 300mm, Precast trench cover – 150mm and column – 300mm</i> ”, we request you to allow the Bidder to consider minimum thickness as per design requirement. Kindly confirm.	As per Bid documents
120.	Volume-II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.6.(i)	498	Detailing of reinforcement	As per IS 1893 since Delhi is in Seismic Zone IV, so please allow detailing as per Zone IV as per IS13920.	Refer to C&A NO. 2 No. 27.
121.	Volume-II	Section VI: C1. Civil Works, Sub-section 10, Clause 10.1.8(8)and 10.1.8(28)	500 & 501	Min staircase width	Min staircase width is mentioned as 1500 mm in sub clause 8 and 1200 mm in sub clause 28. We presume 1200 mm shall govern. Please confirm.	Refer to C&A NO. 2 No. 28.
122.	Volume II	Section VI: C4. Electrical Works, Sub-section 5, Clause 5.1 (e)	600	Solar Power and Accessories	As per the referred clause, “ <i>When the generated power is exceeded the power of the load of the plant, the solar power shall be supplied reverse to the grid of the electricity company</i> ” With respect to the above stated clause, kindly clarify the following points for the selection methodology of solar installations.	

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					<p>a) The average solar light availability as per Indian meteorological department is not found for the proposed location in the NIT. Kindly furnish the same for designing and selection of the Solar panel & solar energy production.</p> <p>b) Whether solar installation shall be for full load or in the free area of the proposed plant (Minimum rating as per BOQ) irrespective of the load requirement. If it is for the utilization of free space & power generation, kindly furnish the proposed area layout for Solar power design & estimation.</p> <p>c) As per the referred clause in case of excess power generation then requirement solar power shall be supplied power reverse to the grid. Hence, we presume that the proposed Transformer shall be suitable for Bidirectional power flow (Step Up& Step down). Kindly confirm the same.</p>	<p>As per Bid Document</p> <p>As per Bid Document</p> <p>Confirmed</p>
123.	Volume II	Section VI: C4. Electrical Works, Sub-section 6, Clause 6.1	604	Technical Specifications Electrical Works Sub- Station	<p>1) As per our understanding PSS is applicable for Permanent Power supply but we can use the same for construction Power supply, Please confirm.</p> <p>2) Electricity Connection for Construction Power will be provided by client without any charges, Please confirm.</p>	As per Bid documents.
124.	Volume II	Section VI: C4. Electrical Works, Sub-section 6, Clause 6.1	604	Packaged Sub station	<p>We understand that 100% redundant capacity RMU, Distribution Transformer and LT Panel will be in single enclosure of Packaged Substation. Kindly confirm.</p> <p>We understand the Packaged Sub-Station (PSS) will be installed in outdoor area.</p>	<p>As per Bid documents.</p> <p>As Per site requirement</p>
125.	Volume II	Section VI: C4. Electrical Works, Sub-section 6, Clause 6.4.1	605	MV Switch Board	Can we considered 18.6 KA fault level for HT Panel & HT Cable, Please Clarify	As per design requirement.
126.	Volume II	Section VI: C4. Electrical Works, Sub-section 7, Clause 7.4.9	611	Motor feeder control	It should only be applicable for Main Motors of Rating 90kW and above, Please confirm.	As per Bid documents
127.	Volume II	Section VI: C4. Electrical Works, Sub-section 7, Clause 7.4.19 (b)	613	Power Factor Correction	As per the referred clause, " <i>Static capacitors for No - Load losses shall be installed.</i> " However static capacitor is not provided in the BOQ. Kindly include the same and issue necessary amendments.	Refer to C&A NO. 2 No. 29.
128.	Volume II	Section VI: C4. Electrical Works, Sub-section 8, Clause 8.1	615	Non-Segregated Phase Bus Ducts [NSPBD]	<p>Please clarify, As per our understanding bus duct is not mandatory, However if mandatory Please mention minimum rating above which it will be required.</p> <p>or</p> <p>Bus duct is only required, if the current rating between Transformer &</p>	As per site and design requirement.

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					PMCC incomer exceeds 2000A, Please confirm.	
129.	Volume II	Section VI: C4. Electrical Works, Sub-section 11	623	Diesel generator set	<p>The load considered for DG set selection will be Critical/emergency load or total operating load, Please clarify.</p> <p>We understand that DG Set with Acoustic enclosure will be installed in outdoor open area, kindly confirm.</p>	As per Bid documents
130.	Volume II	Section VI: C4. Electrical Works, Sub-section 15	644	Battery and battery charger	Please clarify, If in-Built Power Pack will be considered with the panels then battery & battery charger will not be required.	As per design requirement.
131.	Volume II	Section VI: C5. Instrumentation Works, Sub-section 3, Clause 3.1.1	658	Flow-measuring equipment	As per our understanding the GPRS remote wireless transmission can be done through RTU/PLC Panel or Data logger. Please clarify.	As per design requirement.
132.	Volume II	Section VI: C5. Instrumentation Works, Sub-section 3, Clause 3.1.1	659	Flow-measuring equipment	Data collection will be responsibility of Pkg-1 contractor. The System considered by Pkg-1 should follow Open Protocol and accept data in any protocol.	Wireless Data transmission is Bidder's responsibility. Bidder to coordinate with Pkg-1 contractor (L&T) via Open Protocol for data collection at CWMC
133.	Volume II	Section VI: C5. Instrumentation Works, Sub-section 3, Clause 3.1.1	659/660	Flow-measuring equipment	It should only be applicable for the Electromagnetic flow meter installed in remote locations. The meter installed in Pumping station, Reservoirs will not require the same, Please confirm.	As per design requirement.
134.	Volume II	Section VI: Technical Specifications C6. SCADA and Automation General	692	-	<p>1) As per our understanding only UPS redundancy will be required, battery bank will be common, Please confirm.</p> <p>2) Please provide Minimum battery backup time for UPS.</p>	Refer to C&A NO. 2 No. 21.
135.	Volume II	Section VI: C6. SCADA & Automation, Sub-section 1, Clause 1.7	699	SCADA System overview	As per referred clause, Drg. no. P-225-225-S-SD-001, 02A, 02B & 003 to be referred. Whereas, the drawing is not available in the tender document. Kindly provide the Automation System Architecture for our reference and better understanding.	Refer to Vol. IV of Bid documents.
136.	Volume II	Section VI: C6. SCADA & Automation, Sub-section 3, Clause 3.2	707	System Availability	As per our understanding the "Bidder" should be read as "successful Bidder" in the Tender, Please confirm.	Refer to C&A NO. 2 S. No. 30.

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137.	Volume II	Section VI: C6. SCADA & Automation, Sub-section 3, Clause 3.9.2	711	System Requirements	In coming supply of 415V AC is only applicable for UPS above 10 KVA, Below 10 kVA only 230V AC Input is available with all the Vendors. Kindly accept the same.	As per Bid documents
138.	Volume II	Section VI: C6. SCADA & Automation, Sub-section 4, Clause 4.3.3.5	787	Requirement of Control room in DMA	As per the referred clause, LCPs to be installed in the roadside open areas. Kindly confirm whether the LCP will be able to accommodate RTU, UPS and battery. If not, kindly confirm the construction of Control room in all DMA locations and amend the BOQ accordingly.	As per Bid documents.
139.	Volume – II	Section VI: D: O&M Works, Sub-section 1, Clause 1.4.(2)	792	Modality of O&M Contract and Payment	As per the referred clause, <i>“The payment shall be made on billing cycle basis (normally bimonthly) so as to assess the KPIs and corresponding payment amounts.”</i> Considering the huge cash outflow for labours & materials envisaged on monthly basis, we request you to make O&M payment monthly which is being followed in contracts across India. Kindly consider and confirm.	As per Bid documents.
140.	Volume II	Section VI: D: O&M Works, Sub-section 1, Clause 1.7.7	799	Water Quality	JWIL will not take the responsibility of water quality as it is not in his scope. DJB must guarantee the water quality at outlet of Chandrawal WTP. The fulfilment of water quality KPI will be subject to DJB providing the water quality as per CPHEEO standards. In case of any deviation from the water quality at the outlet of the WTP, the Operator shall be paid full O&M price corresponding to this KPI.	As per Bid documents Refer to 4 th and 5 th line of 1 st paragraph of Clause 1.7.7 at page no. 799,
141.	Volume II	Section VI: D: O&M Works, Sub-section 1, Clause 1.8	799	Customer Service	As per Scope <i>“Operator responsible for handling meter reading, billing and water supply related complaints”</i> . As per our experience, for handling such complaints operator is required to set up the customer service centres and call centre, where operator can engage with customers for redressal of the complaints on day to day basis. There is no such provisions defined in the scope. In absence of the same, we assumed that DJB will be responsible to handle customers and registration of complaints, and post registration, the same will be forwarded to Operator for redressal. Please confirm. For managing complete operations, operator is required to set up the central back office, for which DJB is required to provide the existing building without any cost to operator. Operator will be responsible for refurbishment and maintenance of the same, till end of the contract period. Please confirm.	Customer service, including the infrastructure required, is in the scope of Contractor/Operator.
142.	Volume II	Section VI: D: O&M Works, Sub-section 1, Clause 1.8.3. (1)	801	Meter Reading and Billing System	<i>“Computerized Billing System: The Employer shall provide the Operator access to the computerized billing software (for his service area) without charges. The Operator shall not be allowed to create a separate database for the customers within the Service Area for the</i>	Yes, confirmed.

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					<p><i>purpose of billing. The Operator will be required to feed in, the customer meter data, generate, distribution of bills"</i></p> <p>This is contrary to what is defined in scope in VOLUME- II/ Section vi -a / sub-section 2 / A. Scope of works- general/ Clause no. 2.3.6 (2)/ Page no. 206.</p> <p>As per our understanding, operator will be given access of DJB's revenue management system for managing meter reading and billing obligations and no separate system is required to develop or implement for the same. Kindly Confirm.</p>	
					<p>As per our understanding access of DJB's Revenue Management System will be given to operator without any cost to operator, it will include following: unlimited no. of license cost, Connectivity Infrastructure cost, hardware cost, Internet connectivity recurring cost and any other such cost for access of DJB's Revenue Management System. Please confirm.</p>	Access to the available software and systems at DJB shall be provided free of cost.
					<p><i>"Operator requires any additional reports that are not available through the software, the Employer shall make the same available to the Operator if it is requested".</i> As per our understanding, any such reports will be made available to operator without any cost to operator. Please confirm</p>	Available data and reports in DJB shall be provided to the operator.
143.	Volume -II	Section VI: D: O&M Works, Sub-section 1, Clause 1.8.3. (3)	801	Doorstep reading and billing	<p>As per A. Scope of Work <i>"To improve the quality of service the Operator shall prepare the GIS based routes for the reading of the water meters and billing"</i>. As per our understanding, DJB's Revenue Management System Team will be facilitating us for deployment of GIS based route for reading of water meter in Revenue Management System as they have control of the Billing system to implement such approach and that too without any cost to operator. Please confirm.</p>	This is basically Operator's job and responsibility.
					<p>As per scope <i>"The Operator shall use the Handheld Units or units with Barcode for Door Step Billing"</i>. As per our understanding DJB will be providing such Handheld units which are compatible and integrated with DJB's Revenue Management System, for smooth reading and billing activities, without any cost to operator.</p> <p>Please Confirm.</p>	As per Bid Document
					<p>As per our understanding DJB's Revenue Management System having some scope to improve in terms of functionalities, which are required to manage the reading and billing as per world class utility's standards. We understood that same can be provided by DJB on request of operator</p>	As per Bid Document

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					without any cost to operator. Please confirm.	
144.	Volume -II ,	Section VI: D. O&M Works Sub-section 1, Clause 1.8.3.2	801	Smart Meters	Its mentioned in last para- "Delhi Jal Board is also introducing another new age solution for all smart consumers" – Kindly provide the number or proportion of smart water meters installed in the project area	The Para is mentioning use of App for smart consumers. There is no mention of smart meters.
145.	Volume -II ,	Section VI: D. O&M Works Sub-section 1, Clause. 1.8.3. (3)	802	Doorstep reading and billing	As per Scope <i>"The Operator shall find a way to interface the location of the Customers on the GIS with the KNO of the RMS. This will enable the Operator to map the reading and billing routes properly"</i> . As per our understanding, operator will be providing data for the routes which DJB is required to implement in the Revenue Management System without any cost to operator. Please confirm.	This is operator's job and responsibility.
146.	Volume -II ,	Section VI: D. O&M Works Sub-section 1, Clause 1.8.5	802	Disconnection of the Service Connection	The disconnection criteria have been mentioned in the list. We understand that all the support shall be Provided by the Client and same shall be covered Separately in the BOQ. Kindly Confirm and Make a Provision.	As per Bid documents
147.	Volume -II	Section VI: D. O&M Works Sub-section 1, Clause 1.9 & 1.10	802-803	BPS/UGRs	As per the Table provided in clause 1.9 and 1.10 we assume that during construction phase, approx. 45 UGR/BPS will need to be managed while post-construction, only 7-8 UGR/BPS will be operated. Please confirm	As per Bid documents
148.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 5.2.2	803	"Naraina UGR & BPS" & Than singh UGR & BPS	Kindly provide the details & location of this tank.	As per Bid documents
149.	Volume II	Section VI: D. O&M Works Sub-section 1, Clause 1.12	808	Minimum Staff to be deployed for O&M (Civil Division)	If any other manpower is required, Will DJB pay extra amount.	As per Bid documents
150.	Volume II	Section VI: D. O&M Works Sub-section 1, Clause 1.12 & 1.13	808-809	Minimum Staff to be deployed for O&M (Civil Division and	We understand that the minimum manpower mentioned is just a guideline and that the contractor is free to choose the required manpower for ensuring optimum level of functioning. Kindly confirm.	As per Bid Document

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				E&M Works Division)		
151.	Volume II	Section VI: D. O&M Works Sub-section 1, Clause 1.12 &1.13	808-809	Minimum Staff to be deployed for O&M (Civil Division and E&M Works Division)	We request the staff requirement be made indicative only and not mandatory. The contractor shall be free to deploy the requisite manpower which may differ from the indicative list.	As per Bid documents.
152.	Volume -II	Section VI: D. O&M Works Sub-section 1, Clause 1.14	810	Safety and Security	Please clarify who will provide the water meter in case of tampering or theft and who will bear the cost of the meter in such case during O&M?	As per Bid documents
153.	Volume -II	Section VI: D. O&M Works Sub-section 1, Clause 1.25.2	819	Duties and Responsibilities	Kindly provide details of scope related to training of DJB staff.	Please refer to Section General Requirement, sub-section 10. Training at page 327.
154.	Volume -II	Section VI: D. O&M Works Sub-section 2	823	KPIs	Please provide maximum overall cap on O&M fee deduction for every month for failure to meet the KPIs	As per Bid documents
155.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3	823	Target for KPIs and Payment Breakdown	1. Extent of Water Loss Total Water Loss (Transmission + Distribution Loss) : As per our understanding, all illegal or unauthorized connections, which we have reported to DJB with evidences for further action, as per DJB's regulations, will not be part of NRW and operator is required to add such illegal connection volume (as per the average volume of same category of connection in same area) as deemed billed volume to calculate the NRW. Please confirm.	As per Bid documents.
156.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3 -& 2.2	823	Reduction of Water Loss	<p>a. We request the Ultimate water Loss level required to be fixed at 22% for distribution network measured at outlet of UGRs. This is widely accepted norm from practical experience in other similar works in India. Large population lives in areas with very congested road network and parallel utilities underground due to which damage to pipe is often and addressing it with leak detection and repair is tedious, time consuming and very difficult. Losses thereof though contained cannot be completely minimised.</p> <p>b. Allow widely accepted norm of 3% losses in transmission and reservoirs from outlet of WTP to outlet of UGRs.</p>	As per Bid documents

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					<div><div><div>c. We request a staggered target level for Water Loss as follows</div><table><tr><td>On Commissioning of DMA</td><td>30%</td></tr><tr><td>On completion of 1 Year from commissioning</td><td>27%</td></tr><tr><td>On completion of 2 Years from commissioning</td><td>25%</td></tr><tr><td>On completion of 3 Years from commissioning</td><td>22%</td></tr></table></div><div><div>d. The Water loss level shall be calculated for separately for each DMA from DMA meter onwards and feeder main network from UGR outlet to DMA inlets. Penalties shall be levied for DMAs (calculated on prorated basis, ie. Ratio of no of connections in DMA to total no of connections) with higher water loss than KPIs provided in point 2 above. Performance payment for DMAs achieving KPIs shall be released and for those not achieving shall be withhold till completion of grace period of 3 months when corrective actions are to be taken.</div><div>e. Allow following ‘Allowable Exclusions’ under the Clause 2.2, when KPIs shall not apply</div><div>f. Any period of shortage of water below 20% of agreed volume/quantity of supply affecting loss level due to reduction in supplied volume in loss calculation.</div><div>g. Any period between information on damage caused by third party to transmission, distribution network or any assets of water supply system causing water loss to upto repairs and restoration of supply.</div><div>h. Any area which is disturbed, and meter reading has been affected, for reasons beyond control of Contractor and duly notified to DJB.</div><div>i. Any area where authorisation for action on illegal connections is not provided by DJB.</div></div></div>	On Commissioning of DMA	30%	On completion of 1 Year from commissioning	27%	On completion of 2 Years from commissioning	25%	On completion of 3 Years from commissioning	22%	
On Commissioning of DMA	30%													
On completion of 1 Year from commissioning	27%													
On completion of 2 Years from commissioning	25%													
On completion of 3 Years from commissioning	22%													
157.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3	823	Target for KPIs and Payment Breakdown	We understand that the designs (hydraulic modeling, mapping etc.) is not in the scope of the Contractor. If so, please clarify how the Contractor, during execution of works, will decide on which works to execute (in absence of maps and drawings) such as which pipeline to be replaced with which size etc.	The contractor should do the designs for confirmation. Existing Hydraulics models and maps will be provided. Any discrepancy or major changes required will								

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						be considered as the works to be done are payable on item rate basis.
158.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3	823	KPIs measurement	<p>Kindly allow all KPIs to be measured and monitored at DMA level. The performance fees shall be calculated at DMA level</p> <p>1. Performance fees shall be withhold if KPI is not achieved in a DMA, providing a grace period to correct, and release of withhold fees if KPI is achieved within the grace period.</p> <p>2. If a KPI is achieved on aggregate at a cluster level, the KPI penalty shall not be levied for any DMA within the cluster.</p> <p>If a KPI measurement is disputed, the performance payment shall be released against bank guarantee to improve cash flow.</p>	As per Bid documents
159.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3 & 2.3	823,824 & 828	Continuity of Water Supply (24X7)	<p>For the KPI to work – We request that the DJB shall assure the quantity of water supplied to the project. The quantity of water shall be equal to more than projected demand as per survey carried out during the preparatory period including seasonal variations in demand. DJB shall agree for mechanism to establish the quantity during preparatory period and guarantee the volume. In case DJB is not supplying the guaranteed volume of water, contractor shall be eligible to claim full variable payment.</p> <p>Please confirm.</p> <p>We request that the KPI should be measured at DMA level and not at project level since there may be areas affected for reasons beyond control of Contractor. Performance payment for DMAs achieving KPIs shall be released and for those not achieving KPI shall be withhold till completion of grace period of 3 months when corrective actions are to be taken.</p> <p>Please confirm.</p> <p>1. For the KPI to work - The quantity of water supplied to the project area needs to be assured. The quantity of water shall be equal to more than projected demand as per survey carried out during the preparatory period including seasonal variations in demand. DJB to agree for mechanism to establish the quantity during preparatory period and guarantee the volume.</p>	Refer to C&A NO. 2 S. No. 32.

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					<p>2. KPI should be measured at DMA level and not at project level since there may be areas affected for reasons beyond control of Contractor. Performance payment for DMAs achieving KPIs shall be released and for those not achieving KPI shall be withhold till completion of grace period of 3 months when corrective actions are to be taken.</p> <p>3. Allow following 'Allowable Exclusions' under the Clause 2.3, when KPIs shall not apply</p> <p>a. Any period of shortage of water when supply volume is below 10% of agreed volume/quantity of supply affecting both continuity of supply and required pressure in DMA.</p> <p>b. Any period of power outage from main feeders affecting pumping of water.</p> <p>c. Any period between information on damage caused by third party to transmission, distribution network or any assets of water supply system causing loss and affecting supply to upto repairs and restoration of supply.</p> <p>d. Interruption of supply due to mains burst not exceeding 12 hours.</p> <p>e. Any period of planned maintenance which is duly notified.</p> <p>f. Any period of malfunction of equipment or facility affecting supply due to natural causes like lightening, flooding etc (not covered under force majeure) till restored.</p> <p>Any other conditions beyond control of contractor affecting supply and duly notified to DJB.</p>	
					<p>We request to allow following 'Allowable Exclusions' under the Clause 2.3, when KPIs shall not apply</p> <p>a. Any period of shortage of water when supply volume is below 10% of agreed volume/quantity of supply affecting both continuity of supply and required pressure in DMA.</p> <p>b. Any period of power outage from main feeders affecting pumping of water.</p> <p>c. Any period between information on damage caused by third party to transmission, distribution network or any assets of water supply system causing loss and affecting supply to upto repairs and restoration of supply.</p> <p>d. Interruption of supply due to mains burst not exceeding 12 hours.</p>	

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB’S REPLY										
					<p>e. Any period of planned maintenance which is duly notified.</p> <p>f. Any period of malfunction of equipment or facility affecting supply due to natural causes like lightening, flooding etc (not covered under force majeure) till restored.</p> <p>Any other conditions beyond control of contractor affecting supply and duly notified to DJB.</p> <p>Please confirm.</p>											
160.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3	823-826	Target for KPIs and Payment Breakdown	We observe that there is no mention about the maximum compensation payable by contractors during O&M towards non-achievement of Key Performance Indicators. We propose that total penalties mentioned against each KPI under clause 2.1.3 in “Remarks” column at page 782, Volume II, Section VI, Sub-section 2. O&M Works on non-achievement of KPIs will be limited to 10% of the “max. Payment as % agreed O&M cost”.	As per Bid documents.										
161.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3 & 2.3	823 & 828	Efficiency in redressal of Customer Complaints	<p>We request the KPI be measured as below</p> <p>1. 90% customer complaints be responded to within 24 hours of the complaint.</p> <p>2. Resolution of complaint be as per following</p> <table><tr><td>Less pressure at the consumer meter point</td><td>72 hours</td></tr><tr><td>Consumers not getting water</td><td>24 hours</td></tr><tr><td>Reported leakage in mains</td><td>24 hours</td></tr><tr><td>Poor quality of water</td><td>24 hours</td></tr><tr><td>Billing Dispute</td><td>48 hours</td></tr></table> <p>3. Allow ‘Allowable Exclusions’ under the Clause 2.4, for complaints of ‘no water’, ‘shortage of water’, ‘less pressure’ during stoppage or shortage of bulk water and power outage.</p>	Less pressure at the consumer meter point	72 hours	Consumers not getting water	24 hours	Reported leakage in mains	24 hours	Poor quality of water	24 hours	Billing Dispute	48 hours	As per Bid documents
Less pressure at the consumer meter point	72 hours															
Consumers not getting water	24 hours															
Reported leakage in mains	24 hours															
Poor quality of water	24 hours															
Billing Dispute	48 hours															
162.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3 & 2.5	823 & 829	Quality of Water Supplied	100% is difficult to achieve due to many unforeseen reasons. To be more Practical, We request you to kindly revised the target to 98%.	As per Bid documents										

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
163.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3 & 2.6	823 & 830	Meter Reading, Billing and distribution efficiency	100% is too high , We request the Target be revised to 95%.	As per Bid documents
164.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3 & 2.7	823 & 830	Response time for New Water Supply Connections	Allow 'Allowable Exclusions' under the Clause 2.7, for such request where road cutting permission is not provided by competent authority.	As per Bid documents
165.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3	823 & 832	KPIs measurement	<p>Kindly allow all KPIs to be measured and monitored at DMA level. The performance fees shall be calculated at DMA level</p> <ol style="list-style-type: none"> 1. Performance fees shall be withhold if KPI is not achieved in a DMA, providing a grace period to correct, and release of withhold fees if KPI is achieved within the grace period. 2. If a KPI is achieved on aggregate at a cluster level, the KPI penalty shall not be levied for any DMA within the cluster. 3. If a KPI measurement is disputed, the performance payment shall be released against bank guarantee to improve cash flow. 	As per Bid documents
166.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3, Table 1 & 2	825	Overall LD cap during post construction	We observe that there is no mention about maximum compensation payable by Contractors during O&M towards non-achievement of KPIs. We presume that maximum compensation payable by contractors shall be limited to 10% of accepted O&M price as being followed in tenders across India including the first call of the project.	As per Bid documents.
167.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.2	826	Reduction of Water Loss to Target Level and Control	<p>As per the referred clause, <i>"The main objective of the project is to bring down the water loss to the target level of 15% (transmission and distribution together) by carrying out the water system improvement as per the Contract requirement"</i></p> <p>We would like to bring to your kind notice that it is a general industry practice to keep water loss target as to 20% (Losses in Distribution system - 15 % and Transmission system – 5%). Considering the vast A. Scope of Work with existing infrastructure and pipeline network, it would be very difficult to bring down the present NRW to 15%. Therefore, request to make water loss target as 20% in line with the global practices. Please consider and confirm.</p>	As per Bid documents
168.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.2	827	Payment Conditions for O&M	<p>Kindly restrict the Performance based payment to 10% instead of 25% and adjust as below.</p> <p style="text-align: right;">Max. Payment as % of agreed O&M Cost</p>	As per Bid documents

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					a. Extent of Water Loss 4% b. Continuity of Water Supply (24 Hrs) 2% c. Efficiency in redressal of Customer Complaint: 1.2% d. Water Quality for consumer connection point 1.2% e. Meter Reading, billing and distribution efficiency 0.8% f. Response Time for new Water Supply Connections 0.4% g. Extent of Functional Water Meters 0.4% Total 10%	
169.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.1.3	827	Target for KPIs and Payment Breakdown	Since it is a existed system it is difficult to achieve 15% water Loss, we request you to modify the same to 20%	As per Bid documents
170.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.3	827	Continuity of Water Supply (24×7) Requirement at Critical measuring points	As per the referred clause, <i>"The pressure at the CPP shall be monitored (using SCADA) through Data logger which has transmitter capable of transmitting the data to central SCADA system."</i> Hence, a battery-operated data logger with inbuilt GPRS modem must be provided at each critical measuring points whereas the same is not envisaged in the BOQ. Kindly clarify and amend the BOQ accordingly.	As per Bid documents
171.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.11	827, 832	Water Loss reduction in Construction Phase	1. Target level mentioned is not inline with KPIs, 2. We understand that having a loss level measurement and target for entire area in year 3 is not practical. All works will be in progress and only few DMAs would be commissioned. Work program cannot be tuned to achieve NRW levels which is a derived target but can be optimised to complete physical works in a DMA and elsewhere in time. Please consider, a) during construction period, loss level measurement every year with staggered KPI targets, only for DMAs which are commissioned, and b) for overall system, KPI targets after 6 months from start of O&M period. Please confirm.	As per Bid documents.
172.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.3	827	Continuity of water supply Minimum Pressure	As per the referred clause, <i>"The minimum pressure in the system shall be 22 m except the DMAs supplied by gravity wherein it may sometimes go to 12m"</i> . It is general industry practice to maintain minimum water pressure of 7m	As per Bid documents

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB’S REPLY																				
					at the critical point for continuous pressurized water supply projects. Therefore, request to modify minimum pressure to be maintained at the critical point to 7 m. Kindly consider.																					
173.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.3	827	Continuity of Water Supply (24×7)	Kindly modify the same as below <table><tr><td>Continuity of water supply performance (B)</td><td>Payment payable to the Operator</td></tr><tr><td>100%</td><td>2%</td></tr><tr><td>From less than 100 to 95%</td><td>1.75%</td></tr><tr><td>From less than 95 to 90%</td><td>1.5%</td></tr><tr><td>From less than 90 to 85%</td><td>1.25%</td></tr><tr><td>From less than 85 to 80%</td><td>1%</td></tr><tr><td>From less than 80 to 75%</td><td>0.75%</td></tr><tr><td>From less than 75 to 70%</td><td>0.5%</td></tr><tr><td>From less than 70 to 65%</td><td>0.25%</td></tr><tr><td>From less than 65%</td><td>NIL</td></tr></table>	Continuity of water supply performance (B)	Payment payable to the Operator	100%	2%	From less than 100 to 95%	1.75%	From less than 95 to 90%	1.5%	From less than 90 to 85%	1.25%	From less than 85 to 80%	1%	From less than 80 to 75%	0.75%	From less than 75 to 70%	0.5%	From less than 70 to 65%	0.25%	From less than 65%	NIL	As per Bid documents
Continuity of water supply performance (B)	Payment payable to the Operator																									
100%	2%																									
From less than 100 to 95%	1.75%																									
From less than 95 to 90%	1.5%																									
From less than 90 to 85%	1.25%																									
From less than 85 to 80%	1%																									
From less than 80 to 75%	0.75%																									
From less than 75 to 70%	0.5%																									
From less than 70 to 65%	0.25%																									
From less than 65%	NIL																									
174.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.4	828	Efficiency redressal in of Customer Complaints	Kindly modify the same as below <table><tr><td>Customer Complaint Redressal Efficiency’ Performance (C)</td><td>Payment payable to the Operator</td></tr><tr><td>90% or above</td><td>1.2%</td></tr><tr><td>From Less than 90 to 80%</td><td>1%</td></tr><tr><td>From Less than 80 to 70%</td><td>0.75%</td></tr><tr><td>From Less than 70 to 60%</td><td>0.5%</td></tr><tr><td>From Less than 60 to 50%</td><td>0.25%</td></tr><tr><td>From Less than 50%</td><td>Nil</td></tr></table>	Customer Complaint Redressal Efficiency’ Performance (C)	Payment payable to the Operator	90% or above	1.2%	From Less than 90 to 80%	1%	From Less than 80 to 70%	0.75%	From Less than 70 to 60%	0.5%	From Less than 60 to 50%	0.25%	From Less than 50%	Nil	As per Bid documents						
Customer Complaint Redressal Efficiency’ Performance (C)	Payment payable to the Operator																									
90% or above	1.2%																									
From Less than 90 to 80%	1%																									
From Less than 80 to 70%	0.75%																									
From Less than 70 to 60%	0.5%																									
From Less than 60 to 50%	0.25%																									
From Less than 50%	Nil																									
175.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause. 2.4	828	Efficiency redressal in of Customer Complaints	As per our understanding on “ KPI of efficiency in redressal of customer complaints ”, all Revenue related complaints are not part of this KPIs, as they need due diligence and DJB approval for any kind of amendments/corrections in the bill which requires more than 24 hrs. Please confirm.	As per Bid documents																				
176.	Volume II	Table No. 2	829	Penalties for not meeting the NEW (Water Loss) Target	Kindly restrict the Penalties for not meeting the NRW to 0.1% for every 1% of Water Loss	As per Bid documents																				
177.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.5	829	Quality of Water Supplied	We would like to bring to your kind notice that the scope of water treatment plant is not envisaged in this contract. The Bidder shall ensure the quality of water as received at the outlet of WTP and if any	As per Bid documents																				

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB’S REPLY																				
					abnormalities observed, the same shall be intimated to the concerned authority. Kindly confirm.																					
178.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.5	829	Water Quality	DJB must guarantee the water quality at outlet of Chandrawal WTP. The fulfilment of water quality KPI will be subject to DJB providing the water quality as per CPHEEO standards. In case of any deviation from the water quality at the outlet of the WTP, the Operator shall be paid full O&M price corresponding to this KPI.	As per Bid documents																				
179.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.5	829	Quality of Water Supplied	Kindly modify the same as below <table><tr><td>‘Quality of Water Supplied’</td><td>Payment payable to the Operator</td></tr><tr><td>From 100% to 96%</td><td>1.2%</td></tr><tr><td>From less than 96 to 92%</td><td>1%</td></tr><tr><td>From less than 92 to 88%</td><td>.75%</td></tr><tr><td>From less than 88 to 84%</td><td>0.5%</td></tr><tr><td>From less than 84 to 80%</td><td>0.25%</td></tr><tr><td>From less than 80%</td><td>Nil</td></tr></table>	‘Quality of Water Supplied’	Payment payable to the Operator	From 100% to 96%	1.2%	From less than 96 to 92%	1%	From less than 92 to 88%	.75%	From less than 88 to 84%	0.5%	From less than 84 to 80%	0.25%	From less than 80%	Nil	Refer to C&A NO. 2 S. No. 33.						
‘Quality of Water Supplied’	Payment payable to the Operator																									
From 100% to 96%	1.2%																									
From less than 96 to 92%	1%																									
From less than 92 to 88%	.75%																									
From less than 88 to 84%	0.5%																									
From less than 84 to 80%	0.25%																									
From less than 80%	Nil																									
180.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause. 2.6	830	Meter Reading, Billing and distribution efficiency	As per our understanding, Operator performance on Meter reading, billing and distribution efficiency will be calculated on Connected connections only. Please confirm.	Yes, confirmed.																				
181.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.6	830	Meter Reading, Billing and distribution efficiency	<div>As per clause 2.1.3, the weightage of performance-based payment for meter reading has permissible limit upto 90%, whereas the referred table curtails the payment at 92%. Hence, we request you to include payment provision between 92% to 90% as per the table below,</div> <table><tr><th colspan="2">As per tender conditions</th><th colspan="2">Proposed conditions</th></tr><tr><td>‘Meter Reading, Billing and Distribution Efficiency’ Performance (E))</td><td>Payment payable to the Operator (As % of total agreed O&M payment)</td><td>‘Meter Reading, Billing and Distribution Efficiency’ Performance (E)</td><td>Payment payable to the Operator (As % of total agreed O&M payment)</td></tr><tr><td>100%</td><td>2%</td><td>100%</td><td>2%</td></tr><tr><td>From less than 100 - 98%</td><td>1.6%</td><td>From less than 100 - 98%</td><td>1.6%</td></tr><tr><td>From less than 98</td><td>1.2%</td><td>From less than</td><td>1.2%</td></tr></table>	As per tender conditions		Proposed conditions		‘Meter Reading, Billing and Distribution Efficiency’ Performance (E))	Payment payable to the Operator (As % of total agreed O&M payment)	‘Meter Reading, Billing and Distribution Efficiency’ Performance (E)	Payment payable to the Operator (As % of total agreed O&M payment)	100%	2%	100%	2%	From less than 100 - 98%	1.6%	From less than 100 - 98%	1.6%	From less than 98	1.2%	From less than	1.2%	Refer to C&A NO. 2 S. No. 34.
As per tender conditions		Proposed conditions																								
‘Meter Reading, Billing and Distribution Efficiency’ Performance (E))	Payment payable to the Operator (As % of total agreed O&M payment)	‘Meter Reading, Billing and Distribution Efficiency’ Performance (E)	Payment payable to the Operator (As % of total agreed O&M payment)																							
100%	2%	100%	2%																							
From less than 100 - 98%	1.6%	From less than 100 - 98%	1.6%																							
From less than 98	1.2%	From less than	1.2%																							

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED				DJB’S REPLY
					to 96%		98 to 96%		
					From less than 96 to 94%	0.8%	From less than 96 to 94%	0.8%	
					From less than 94 to 92%	0.4%	From less than 94 to 92%	0.4%	
					From less than 92%	Nil	From less than 92 to 90%	0.2%	
							From less than 90%	Nil	
					Kindly modify the same as below				
				<div>‘Meter Reading, Billing and Distribution Efficiency’ Performance</div> <div>Payment payable to the Operator</div> <div>100%</div> <div>0.8%</div> <div>From less than 100 to 95%</div> <div>0.6%</div> <div>From less than 95 to 90%</div> <div>0.4%</div> <div>From less than 90 to 85%</div> <div>0.2%</div> <div>From less than 85 to 80%</div> <div>0.1%</div> <div>From less than 80%</div> <div>Nil</div>					
182.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.7	830	Response Time for New Water Supply Connections	As per clause 2.1.3, the weightage of performance-based payment for meter reading has permissible limit upto 85%, whereas the referred table curtails the payment at 90%. Hence, we request you to include payment provision between 90% to 85% as per the table below,				Refer to C&A NO. 2 S. No. 35.
				As per tender conditions		Proposed conditions			
				‘Response Time for New Water Supply Connections’ Performance (F)	Payment payable to the Operator (As percentage of total agreed O&M payment)	‘Response Time for New Water Supply Connections’ Performance (F)	Payment payable to the Operator (As percentage of total agreed O&M payment)		
				100%	1%	100%	1%		
				From Less than 100 to 95%	0.67%	From Less than 100 to 95%	0.75%		
				From Less than 95	0.33%	From Less	0.5%		

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED				DJB’S REPLY																								
					to 90%		than 95 to 90%																										
					From Less than 90%	Nil	From Less than 90 to 85%	0.25%																									
							From Less than 85%	Nil																									
					Kindly modify the same as below Response time for New Water Payment payable to the Supply Connections Operator 100% 0.4% From Less than 100 to 90% 0.3% From Less than 90 to 80% 0.2% From Less than 80% Nil																												
183.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.8	831	Functioning of Water Meter	As per clause 2.1.3, the weightage of performance-based payment for meter reading has permissible limit upto 94%, whereas the referred table curtails the payment at 96%. Hence, we request you to include payment provision between 96% to 94% as per the table below, <table><tr><th colspan="2">As per tender conditions</th><th colspan="2">Proposed conditions</th></tr><tr><th>‘Functioning of Water Meters’ Performance (G)</th><th>Payment payable to the Operator (As percentage of total agreed O&M payment)</th><th>‘Functioning of Water Meters’ Performance (G)</th><th>Payment payable to the Operator (As percentage of total agreed O&M payment)</th></tr><tr><td>From 100 to 98%</td><td>2%</td><td>From 100 to 98%</td><td>1%</td></tr><tr><td>From Less than 98 to 96%</td><td>1%</td><td>From Less than 98 to 96%</td><td>0.67%</td></tr><tr><td>From Less than 96%</td><td>Nil</td><td>From Less than 96 to 94%</td><td>0.33%</td></tr><tr><td></td><td></td><td>From Less than 94%</td><td>Nil</td></tr></table>				As per tender conditions		Proposed conditions		‘Functioning of Water Meters’ Performance (G)	Payment payable to the Operator (As percentage of total agreed O&M payment)	‘Functioning of Water Meters’ Performance (G)	Payment payable to the Operator (As percentage of total agreed O&M payment)	From 100 to 98%	2%	From 100 to 98%	1%	From Less than 98 to 96%	1%	From Less than 98 to 96%	0.67%	From Less than 96%	Nil	From Less than 96 to 94%	0.33%			From Less than 94%	Nil	Refer to C&A NO. 2 S. No. 36.
As per tender conditions		Proposed conditions																															
‘Functioning of Water Meters’ Performance (G)	Payment payable to the Operator (As percentage of total agreed O&M payment)	‘Functioning of Water Meters’ Performance (G)	Payment payable to the Operator (As percentage of total agreed O&M payment)																														
From 100 to 98%	2%	From 100 to 98%	1%																														
From Less than 98 to 96%	1%	From Less than 98 to 96%	0.67%																														
From Less than 96%	Nil	From Less than 96 to 94%	0.33%																														
		From Less than 94%	Nil																														

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
184.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.11	832	Water Meter Replacement	The referred clause states that “Meters installed by operator but not working within 7 years of installation will be replaced by operator at his cost.”. We understand that cost of meters which are existing as well as meters installed by the operator to be replaced after its economic life shall be paid by the authority. Kindly confirm.	Yes, confirmed.
185.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.11	832	Repair of Leaks in the Pipes & Valves during O&M Period	We understand that Cost of leak repairs on pipe network not laid by the Contractor and not damaged due to Contractor's fault will be reimbursed by DJB during the O&M period, also confirm that the same applies to the service connections as well.	Yes, confirmed.
186.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.12	832	Performance parameter and penalty for Energy	The penalty calculation is a double blow to the contractor. The penalty should be either on Power Factor or calculated based on deviation from power guarantees and not both.	As per Bid documents
187.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause. 2.12	832	Electrical Energy (Power) Consumption Guarantee	Penalty for Excess Power Consumption – we request that the power charges should be the charges applicable for DJB and not the commercial charges.	As per Bid documents
188.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.10	832	Incentives for finding Illegal Connections	“The contractor shall be provided an incentive of INR5,000 for each case of illegal connection discovered by it and confirmed by DJB”. What will be the time frame for DJB to confirm such Illegal connections? As, establishing such Illegal connections on field, required lot of efforts and monitoring. So, a swift action is required to validate such connections and take further steps to regularize such connections in order to bring them in billing net. So please confirm the timeline to confirm by DJB on submission of such illegal connection reports.	A swift action will be taken by DJB for verification.
189.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.13	833	Penalties for non-deployment of specified minimum staff for O&M work.	The penalty provision is incorrect since there is already a performance payment on manpower fees. The Contractor shall be allowed to plan O&M works and manpower to achieve KPIs. Request to kindly remove the provision.	As per Bid documents
190.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.13	833	Penalties for non-deployment of specified minimum staff for O&M works	Capping should be there as presently there is no limit of penalty.	As per Bid documents

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
191.	Volume II	Section VI: D. O&M Works Sub-section 2, Clause 2.14	834	Penalties for default in safety and other compliances	We request that the deficiency regarding cleaning of site, non-compliance with safety measures be first addressed by a formal written warning and then penalized. Please reduce the penalty amount.	As per Bid documents
192.	Volume -II	Section VI: D. O&M Works Sub-section 2, Clause 2.15	834	Allowable Exclusion	Allowable exclusion should also include no water supply or shortage water supply by DJB at WTPs; Kindly consider	As per Bid documents
193.	Volume II	Section VI: E. List of Approved Makes	835		We request you to accept the manufacturers other than mentioned under the list of approved makes to avoid monopoly of the selected manufacturers and to get the competitive prices.	As per Bid documents.
194.	Volume III	Part 1, Section -IV, Price Bid, Schedule Price Adjustment Data	843	Adjustment Formula	The price adjustment for DI pipe is not captured by wholesale price index. So a separate index for pig iron should be considered for calculating escalation for DI Pipe.	As per Bid documents
195.	Volume III	Part-1, Section -IV, Price Bid, Schedule Price Adjustment Data, Table A.: Local Currency (c)	844	Schedule of Price Adjustment Data for O&M	Since O&M is labour intensive job, proportion of labour component is almost 70-75% of the total O&M cost. Therefore, we request to revise the weightage of labour component to 70%, material to 10% and POL to 5% to ensure there is no significant loss to the Contractor due to escalation by the end of the Contract. Kindly accept.	As per Bid documents
196.	Volume III	Part 1, Section-B, BOQ, A. Preamble , S.No.2	846	BOQ : Supply of MS Pipe	We understand that the thickness of the MS Pipe given in BOQ is the minimum thickness and the Bidder to quote as per the thickness given in the Bid. Any increase in the thickness of the pipe as per design during execution phase shall be paid extra on pro rata basis. Kindly Confirm.	As per Bid documents
197.	Volume III	Part-1, Section -IV, Price Bid, Bill of Quantities B, S. No. 8 & 5, OM-Misc.	853 & 994	Water Supply by Tankers	We understand from the referred Clause that The Quantity of water supply through tankers shall be limited to the KL mentioned in the BOQ for each year and if the water required is more than the mentioned Capacity, It shall be paid to the contractor on actual Rates mentioned in the BOQ.	As per Bid documents
198.	Volume III	Part-1, Section -IV, Price Bid	854	Stage Payments, Payment Milestone.	<p>The Payment Milestones for Pipes is as Follows.</p> <p>65% - On procurement, supply at site 20% - On laying and jointing 10% - On Hydrotesting and Commissioning 05% - On Road restoration as per contract specification.</p> <p>Only 65% Payment on delivery will impact on overall cash flow and the cashflow will be Negative. For better Cash flows requesting client to kindly</p>	As per Bid documents

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					<p>Revise the Payment schedule for pipes & fittings and appurtenances as.</p> <p>80% - On procurement, supply at site 10% - on laying and jointing 5% - on Hydrotesting and commissioning 5% - on Road restoration as per contract specification.</p> <p>Kindly modify the same as mentioned below a. Upon Engineers approval of Design Calculations, Drawings and Vendors - 5% b. Upon Supply and Delivery of Fabricated Plants and Equipment ready to install at site - 69% c. Upon Completion of Erection/ Installation at site - 20% d. Upon Commissioning of the Full System at One Plant Site (e.g. one BPS, one UGR) - 5% e. Upon Taking Over of the Works as per Contract Conditions - 1%</p> <p>Kindly modify the same as mentioned below a. Upon Engineers approval of design calculations and drawings - 5% b. Upon Completion of Foundation Works i.e. Base Slab of UGR and plinth level of the Buildings - 20% c. Upon completion of works up to 1/3rd height of the Structure/ Building - 20% d. Upon completion of works up to 2/3rd height of the Structure/ Building - 14% e. Upon full completion of the structural works of the Structure/Building - 20% f. Upon Completion of finishing works, ancillary & allied works - 10/20% g. Upon Completion of water tightness test for UGRs - 5% h. Upon Taking Over of the Works as per Contract Conditions - 1%</p> <p>Kindly modify the same as mentioned below a. Against Supply of finished Pipes along with internal and external lining - 70% b. Laying and jointing of Pipelines in field - 24% c. Hydro-Testing, flushing, Disinfection & Commissioning - 5% d. Upon Taking Over of the Works as per Contract Conditions - 1%</p>	
199.	Volume III	Part-1, Section -IV, Price Bid	855	Supplying Laying Gap	In the referred clause, it is mentioned as <i>“The payment on supply of finished pipes will be made for a maximum length of 30 Kms of pipes at a time. Next instalment will be released such that the maximum quantities of</i>	This is applicable for whole contract

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					<i>supplied but unlaidd pipes doesn't exceed 10 Kms."</i> . We presume that this supply and unlaidd pipes gap of 10 Km is applicable for each DMA as the same is being followed in other tenders of Delhi Jal Board. Kindly confirm.	package.
200.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.3	859	SCHEDULE CW-G Professional Indemnity Insurance	As per the referred clause, " <i>Professional Indemnity Insurance of Contract Cost up to DNP</i> " It may please be noted that such insurance policies are more prevalent for plant kind of installations and generally not taken for such kind of contracts. Considering the huge cost involved in such insurance, request to remove the same from the tender.	As per Bid documents
201.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-TM, DP	861	Transmission Main and Distribution line BOQ	We presume that civil quantities given in BOQ (Transmission Main & Distribution Main) for pipeline works shall be inclusive of quantities for anchor / thrust block, valve chambers, crossing of river / drainage / canals / culverts / bridges including pipe supporting pillars along the transmission pipelines. Kindly confirm.	Yes, confirmed.
202.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, BOQ	863 - 997	Price Schedule	The Quantity of the different items is Provided by the Client in the BOQ and we understand that if during the execution quantity of material increased, then the same shall be considered as variation and rate shall be provided by the client as per the rates specified in the Price BOQ. Kindly Confirm.	As per Bid documents
203.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-G, BOQ Item No. 5.1	860	CMMS Software	Kindly provide the detailed specifications	Please refer to Page no. 787 of Volume II of Bid document.
204.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-TM, BOQ Item No. 7.3	873-899	Welding by gas or electric plant	Kindly confirm the Units.	As per Bid documents
205.	Volume-III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-TM, Item no. 11.3	874	Providing push-on-joints	Kindly specify whether CI or DI Pipes need to be provided. Please provide the class of pipes to be provided. It is specified in the BOQ that Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket. Kindly Clarify its DI or CI Pipes.	As per Bid documents

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206.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-TM, BOQ Item No.12.3, 14	879-908	Surface Box	Kindly provide the size and material specifications	Refer to C&A NO. 2 S. No. 38.
207.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-TM, BOQ Item No.12.9.1.	883	Internal Dia of MS pipes	We understand that 700mm dia clear internal dia is before internal lining. Which means after internal lining, internal dia will become 682mm. Same is applicable for other sizes also. Please confirm.	As per Bid documents
208.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-TM, Item No. 13.8	885	Air Valves	The number of air valves in the BOQ is given as 10 numbers. According to the CPHEEO manual there should be air valves in the interval of 0.5 to 1 Km. It is requested to please confirm the quantity or revise it as per CPHEEO criteria.	As per Bid documents
209.	Volume III	Price Bid, Section B- Price Schedules, CW-DP, BOQ Item No. 4.3& 4.8	890	Vertical & horizontal fins	Kindly provide the Drawings	As per approved design & drawings
				Waffle units	Kindly provide the Drawings	
210.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-TM, BOQ Item No. 10.2	898	Filling – Good Earth	From the referred BOQ item, we understand that the selected excavated earth can be used for refilling at site. Kindly confirm.	Yes but it should meet the specification.
211.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-TM, BOQ Item No. 10.4	901	Barricading	Kindly provide the Drawings	As per Bid documents
212.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-TM, BOQ Item No. 10.5	902	Interlocking paver blocks	Kindly confirm the Units.	As per Bid documents
213.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-TM, BOQ Item No. 12.3	904	BOQ	Only Surface box is written, Kindly Confirm the Purpose and Details for the Same.	As per Bid documents
214.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-DB-C, BOQ Item No. 1	917	BOQ	No Quantities has been Specified Against the item mentioned. We request Client to kindly provide the Detailed Civil BOQ for UGR.	Rates are to be quoted on Lump sum basis. As per Bid documents
215.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-DB-C,	917-920	Design-Build: UGR and BPS-Civil Works	Please furnish the details BOQ for Construction and Rehabilitation work of UGRs, sumps & Pump house in the price schedule so to ascertain cost of works on item rate basis. As evaluating extent of repairs attending stage will not be possible by the Bidder and it will be common basis for all Bidder.	This is Lump sum work to be executed on Design-Build basis.

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216.	Volume III	Part 1, Section-IV, Section B- Price Schedules, CW-DB-C,	917	Rehabilitation of Existing Structures	As per referred item, rehabilitation works are given in Lumpsum. We request you to provide the conditional assessment of the structures, civil drawings for all the existing structures and items to be considered in for estimation of civil quantities. Please consider and Provide the same.	Condition Assessment is in Bidder's scope.
217.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-DB-M, BOQ Item No. 3	923	UGR & BPS complex	Cost estimation for Rehabilitation works for UGR & BPS complex is difficult without any details. Kindly provide the specifications and quantities of different activities to be executed at each UGR and BPS to enable us to arrive the cost since it is not feasible for detailed survey at this stage	Refer C&A NO. 2 S. No. 17
218.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-DB-M, BOQ Item No.1.9, 1.10, 2.1, 2.5, 3.1	924-929	Rehabilitation works	Cost estimation for Rehabilitation works for UGR and pump houses is difficult without any details. Kindly provide the specifications and quantities of different activities to be executed at each UGR and pump station to enable us to arrive the cost since detailed survey is not feasible at this stage	Refer C&A NO. 2 S. No. 17
219.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-DB-E, BOQ Item No. 3.2	948	Requirement of NPSBD (Bus duct)	As per the BOQ "Cabling System: XLPE HT and LT power cables, control cables, NPSBD, telephone cables, etc. has been specified. However, with respect to Transformer rating NPSBD is not required for the smaller rating. NPSBD shall be applicable for Transformers rated 1000kVA and above as per IS - 10028-2 clause 7.8.1.1. Kindly Amend the BOQ Accordingly.	As per Bid documents
220.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-DB-S&I, Item no. 1.17	959	Requirement of UPS at web client locations	As per the referred clause, additional workstation outside SCADA center comprising web router and UPS for 10 web clients to be provided. Kindly provide the UPS battery backup hours for our necessary consideration.	Battery Back-up of 60 minutes is required.
221.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-DB-S&I	961	Power supply availability at lowest pressure points	Kindly clarify and confirm the power supply availability at DMA inlet/ lowest pressure points (230 V AC/ 415 V AC).	As per Bid documents
222.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-HM, Item No. 1.1.1 & 1.1.2	965	BOQ	We understand that civil works related to house service connections (i.e Excavation, Bituminous road& CC road cutting, Backfilling) will be paid through specific BOQ items provided in referred BOQ Items under 'Schedule CW-HM'. Kindly confirm.	Excavation, bituminous road and CC road cutting, back filling are part of this item.

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					<p>The referred BOQ item, “<i>depositing all dismantled material i.e. ferrule, service connection pipe and fittings etc. in the store of department</i>”. We request you to provide the lead distance/location need to be considered for same. Kindly clarify.</p>	<p>The department stores are situated within 5 Km distance. Alternatively, the same may be issued to the Bidder at the scrap Rate and other conditions as specified in the Bid documents.</p>
					<p>Shifting of HSC – Kindly Clarify Whether the whole items is to be replaced New (Pipes and Fittings etc.) mentioned in the BOQ item OR Contractor have to remove the Existing house service connections and shift them to another Place.</p>	<p>Whole new materials have to be provided and used for new connection.</p>
223.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-HM, Item No. 1.1.1, 1.1.2, 1.1.3, 1.2.1, 1.2.2, 1.2.3.	965 to 971	Composite strap saddle	<p>As per the referred clause, it is mentioned “<i>to provide composite strap saddle having total minimum weight of 0.565 kg</i>”. Since it is a composite material, the strap saddle will not be assessed based on the weight. The manufacturing standard shall be followed for this material. Please confirm.</p>	<p>As per Bid documents</p>
224.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-HM, BOQ Item No. 1.4, 13.7, 13.8,36, 38, 1.2 to 1.5	Page 969,88 8,919, 926	Valves	<p>For most of the Valves Rating is not mentioned, kindly provide the Valves rating for all relevant items</p>	<p>As per Bid documents</p>
225.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-HM, BOQ Item No. 3.1	973	BOQ	<p>It is mentioned that the water meter shall be inferential type, multi jet, magnetically coupled, having dry dial, Brass / Bronze body, Class 'B' Multijet Type. Kindly Confirm whether the water meter required should be AMR Compatible?</p>	<p>As per Bid documents</p>
226.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW-HM, BOQ Item No. 3.0	974	Consumer meter Item no. 3.2 Requirement of Bulk type water meter	<p>As per referred clause, we presume that Woltmann type bulk water meter to be provided. Kindly clarify and confirm.</p>	<p>As per Bid documents</p>

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				Consumer Meter Requirement of Water meter	As per the referred clause, we understand that non-AMR multijet water meters to be provided under this package and meter reading will be collected directly from the meter itself. Kindly confirm. Also, we kindly request you to consider AMR/ AMI meters as the project comprises of NRW reduction and with Non-AMR meters the data is more manual and monthly data. On contrary, AMI would give more live data which can help in advanced analytics and thereby reducing the losses beforehand. Kindly consider and confirm.	As per Bid documents
227.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-HM, BOQ Item No. 7.1a	977	Power connection for valves	We presume that power will be made available by DJB at respective locations for operation of electric operated butterfly valve. Kindly confirm	Bidder to arrange for Power Point from the Power Distribution Agency in Delhi
228.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-HM, BOQ Item No. 7.1a	974	Type of Flow meters	From the specification, we understand that flow meters will be AC power operated. We presume that power will be made available by DJB at respective locations	Bidder to arrange for Power Point from the Power Distribution Agency in Delhi
229.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, CW-HM, BOQ Item No. 3.4	975	Consumer Meter	As per referred clause, we presume that 2 path sensor ultrasonic clamp-on type flow meter to be provided. Kindly clarify and confirm.	As per Bid documents
230.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW- P, item No 1 to 4	982	Utility shifting, Road Restoration (Transmission main & Distribution Main)	In the referred item, we have observed that, the road restoration work is mentioned in provisional sum and list of works mentioned under the same shall be executed by the Employer. Any delay attributable to delay in the works under Provisional sum shall indemnify the contractor from penalties. Kindly consider and confirm.	As per Bid documents
231.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, CW- P, item No 3 & 4	982 & 983	Road Restoration works	In the referred items, kindly provide the typical cross sectional drawing and detailed specifications (thickness of sub base, base course, wearing course, etc. and thickness of base concrete and wearing course) for Road restoration for the referred items.	This is a Provisional Sum item for which the contractor is not required to execute the work by themselves.
232.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, O&M – R1	988 - 989	Repair & Maintenance – O&M period	The provision of quantities for repair and maintenance is far too low given that the network spans across 400 Kms of transmission and distribution. The provided quantities will be consumed in less than 6 months in given year. Request rationale for the quantification and revision of the numbers.	As per Bid documents

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233.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, O&M – MISC. Item no. 1	990	House Service Connection	<p>1. The Quantity of HSC provision is too low for period of 10 years. We request this to be at least 15% of estimated house service connection in the project area.</p> <p>2. The provision only describes providing HSC but excludes works of road cutting, road cutting charges, earth work, road restoration. Kindly make provision for the same. Road cutting charges shall be scope of customer requesting connection payable to authorities.</p> <p>Any damage/tempering of House Service connection pipe between ferrule and consumer meter requiring repair or replacement of material and labour shall be covered under this item. Penalties shall be levied on the customer.</p>	As per Bid documents
234.	Volume III	Part 1, Section-IV Price Bid, Section B- Price Schedules, O&M – MISC. Item no. 1.2	991	Brass Stop Cock and Full way valve	Kindly confirm if both brass stop cock and full way valve needs to be installed.	It is Brass stopcock upto 25mm dia and full way valve from 40mm to 65mm dia.
235.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, O&M – MISC. Item no. 2.1 (a),(b),(c) & Schedule CW-HM Item 3.1 (a),(b),(c)	992 & 973	Consumer Meter	<p>The total number of connections in the area is 110052. Of these, for only 65,505 connections, meters are proposed to be replaced under Schedule CW-HM operated during design Construction Period. For NRW levels of 20% and below, the following is critical and required</p> <p>1. All meters have to be replaced. Existing meters as per provision may be tested for academic purpose, however unless new meters are placed in proper location, position, are of appropriate make and type, meter accuracy and reading accuracy cannot be assured. Kindly make provision of all replacement.</p> <p>2. Meters should be of specification Class C and above. Class B mechanical meters are already obsolete and done away with worldwide before 15 years. Class B inherently have accuracy issues of $\pm 5\%$ at best installations and the accuracy level goes below drastically in case when discharge is below minimum flow or above max flow conditions which is likely a condition over during intraday condition.</p> <p>3. The provision of replacement of meters shall remain same in O&M period under Schedule O&M -MISC even after 100% meters are replaced under Schedule CW-HM.</p> <p>Any damage/tampering to meters, change in position and location by consumers or third-party affecting meter accuracy or reading facility shall be case for meter replacement covered under Schedule O&M -MISC and</p>	As per Bid documents

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					penalties levied on such customers.	
236.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, OM-M2, BOQ Item No. 1	996	Preventive maintenance, Repair and Replacement Cost- E/M Works	We presume that, Replacement cost will be paid by the client separately, since it is difficult to access the life and condition of the existing equipment's. Or else Kindly provide the all existing equipment list, life, present condition etc.	As per Bid documents
237.	Volume III	Part 1, Section-IV Price Bid, Section B, Price Schedules, Schedule (OM-PR)	999	Assets Replacement during O&M	We understand that asset replacement during O&M is in client's scope. Few Electro-mechanical equipment's and instruments like PLC & SCADA, Bulk / DMA flow meters , WATER Meters, Pressure Transmitters, Pressure Switch, Analyzer, Battery , Capacitor Bank etc. (which are part of both, existing as well as new facilities) will need to be replaced during the O&M period as these equipment have life span ranging 5-10 years. If the asset replacement is in contractor's scope, we request you to provide us the details of those equipment and their replacement frequency during O&M. This will keep all the Bidders at par. Also please add a line item in BOQ to put asset replacement cost. Kindly confirm.	Refer to C&A NO. 2 No. 45.
238.	Volume III	Part 1, Section-IV, Price Bid, Section B- Price Schedules, OM-PG	999	Power Guarantee	From the referred clause, we understand Bidder has to provide power guarantee sheet for only newly installed pumps/system in SCHEDULE OM -PG with separate sheets for each year starting from 6th year to 10th year. Also kindly clarify whether to consider year wise Depreciation of pump / Motor efficiency for power calculation.	As per Bid documents
239.	Volume III	-	-	Additional Design Requirements	We request you to provide the Bidders with the following data to proceed with design of distribution system. <ul style="list-style-type: none"> - DMA wise and Zone wise Demand and Population abstract for Ultimate and Intermediate years - Hydraulic Zones and DMA boundaries - Existing Pipeline alignment with details such as C-Value, Age, Diameter, Material (in UTM Coordinates) - City Development Plan (CDP) for the design year (in .shp format) - Occupancy factor considered for different Non-residential pockets. Hour wise demand factor and demand consumption pattern to be considered (Based on studies conducted on Demand Consumption pattern, if any.).	As per Bid documents

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240.	Volume III	-	-	Type of Valve	In Price Bid, unless mentioned as “Electrically Operated”, all other valves shall be manually operated. Kindly confirm.	As per Bid documents
241.	Volume-III,	Part 1, Section-IV, Price Bid, Section B- Price Schedules, OM-PR	-	Preventive maintenance, Repair and Replacement Cost	Please provide duration of average power cut for which the diesel consumption has to be considered.	As per Bid documents
242.	Volume-III,	Part 1, Section-IV, Price Bid, Section B- Price Schedules	-	Dismantling of existing electrical equipment.	As per our understanding, Only dismantling of existing electrical equipment will be in the scope of contractor. If shifting is also required, Please provide maximum distance for shifting of the equipment.	As per Bid documents
243.	Volume-IV/ Section VI	Part 2: Works Requirements, F. Drawings		Drawings	Please Provide the soft copy of the drawings referred in the tender documents. For better understanding of the system.	As per Bid documents
244.	General				Kindly provide soil investigation report along with recommendation for foundation for all UGR/pumping station locations.	Refer C&A No. 2, S. No. 22
245.	General				Kindly provide the contour levels of the proposed UGR/Pumping station sites along with existing structures & services, if any.	Refer volume IV of Bid document
246.	General			Diesel	Please clarify 1) Diesel storage facility will be required in the Plant or not. 2) If required, please specify minimum diesel storage capacity required in the plant premises. 3) What will be maximum blackout period should be considered.	As per Bid documents
247.	General			MPCB	Can we use MPCB for Motors Upto 22 kW, Please confirm.	As per design / manufacturer's requirement.
248.	General			LT Panel	Please confirm 1) All the feeders of LT Panel shall be fixed type. 2) Non Compartmentalized Panel with Multi-tier starters in single vertical of LT Panel. 3) Non Compartmentalized Panel with Multi-tier starters in single vertical of LT Panel. 4) Control supply shall be 240 VAC	As per Bid documents
249.	General			Harmonic Filter	Parallel to Main LT Panel any dedicated Harmonics Filter will be required or not, If required Please specify the Type of Harmonic Filter.	As per design requirement

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250.	General			Power supply at DMA and any other Remote Location	3 Phase uninterruptable power supply at DMA & Remote locations will be made available by DJB/client, Please confirm.	As per Bid documents.
251.	General			Location of SCADA Centre	What is the location for SCADA of East Zone, West Zone & Central Zone.	West Zone SCADA Center will be at Than Singh Nagar,
252.	General			Earthing	Kindly share Earth Resistivity Test Report also provide details of Type of earth Pit, Earthing Strip details as per the equipment.	As per Bid documents.
253.	General			CCTV	As we have multiple monitors in the SCADA Room, Can we utilize one of them for CCTV monitoring?	As per Bid documents.
254.	General			Consumables like electricity, Water, internet, telephone bills etc.	As per our understanding During O&M Client will provide Electricity, Diesel, Chemicals, re-agents, internet for SCADA & CCTV, Telephone etc. free of cost.	As per Bid documents.
255.	General			Cable	Type of Cable for Power, Control & Instrumentation cables Conductor material – Aluminum (HT & LT) Type of armor - Flat Strip or any other Type of inner sheath- Taped or any other Type of conductor – Solid or any other Please confirm	As per Bid documents.
256.	General			Cable Termination	Please provide details like Type of cable termination kit, Type of Gland, Tape etc.	As per Bid documents.
257.	General			Type of Starter	Please provide rating based selection of Type of starter. i.e. Up to 22 kW - DOL starter 22 to 75 kW - Star Delta Starter Above 75 kW - Soft Starter VFD as per Tender BOQ Kindly confirm above or clarify.	As per design requirement.
258.	General			Data Transmission	Please confirm, Sim card, internet connection at each and every point will be provided by DJB/Client.	They are in the bidder's scope.
259.	General			Construction Power, water	Client will provide the construction Power & water without any cost, please confirm.	As per design requirement.
					24VDC Control Supply is required only for HT breaker or alos for LT PMCC Incomer.	
					Please clarify, oil type transformer can be considered if design required.	

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260.	General				Kindly provide the Structural drawing of bridge crossing above the canal, if any in the route	Refer to Vol. IV of Bid documents
261.	General				Kindly provide the details & drawings of Associated works like Boundary wall, road drainage & gates in UGR/Pump House campus	As per standard practice and relevant IS codes.
262.	General	-	-	Defect notification period	We understand that operator shall operate and maintain the existing facilities and commissioned DMAs during Construction period. We request you to clarify whether O&M period of 10 years will commence after completion of Construction period or after commissioning of respective DMAs. In such case of starting of O&M period after commissioning of each DMA, the expiry date of contract will differ for every DMA. Please confirm. Similarly, we presume that the defect liability period, which is concurrent to the first year of the O&M, will be different for each of the commissioned DMAs. Kindly confirm.	DLP will be 1 year from the date of Taking over of works under the contract.
263.	General	-	-	Electromagnetic flow meters	We presume that civil quantities pertaining to CCRMC & CRMC, Zonal SCADA control room, UGR/BPS control room, control room in all DMA, Chambers for electromagnetic flow meters, etc. viz., excavation, concrete, shuttering, reinforcement, etc. shall be paid under relevant BoQ items. Kindly confirm.	Yes, confirmed
264.	General	-	-	Disposal of Debris and Excess earth	We presume that land required for Disposal of construction waste shall be provided by the Client and also we request you to provide the lead distance to be considered by the Bidder for the disposal of unutilized or unused wastes generated during construction period.	As per Bid documents.
265.	General	-	-	Power charges	We understand the electricity power charges will be paid by the employer for the commissioning, trial run and complete O&M period including existing & newly installed system.	As per Bid documents.
266.	General	-	-	Implementation of Precast Technology	Project scope covers construction of many number of House service connections and valve chambers, we request you to allow construction of these structures using precast technology. Kindly consider.	As per Bid documents.
267.	General	-	-	Existing infrastructure	We request you to kindly clarify whether Bidder has to integrate the existing infrastructure with the newly installed pipeline for maintaining the water loss rate. In such event of prevailing conditions of existing infrastructure, it will be difficult for the Bidder to achieve the performance targets during O&M. Hence, we request you to pay Bidders at actuals for repairing/ replacing / rehabilitating the existing works in order to ensure performance parameters. Please confirm.	As per Bid document.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
268.	General	-	-	Removal & Shifting of existing Utilities	<p>We understand that during execution of work, cost involved in removal & shifting of utilities shall be the responsibility of employer and payment for the same is covered under provisional sum. Kindly confirm.</p> <p>Since the project is located in core urban area, it is likely that the utilities may be damaged without the knowledge of the contractor. We presume that any cost involved in rectifying the damages done by third party shall also be paid through provisional sum. Kindly confirm</p>	<p>Employer will assist the bidder in getting these services/utilities shifted from the utilities concerned.</p> <p>The contractor shall rectify the damages if any at his own cost. No extra payment shall be made by the Employer on this account.</p>
269.	General	-	-	Improvements Suggested in Preparatory period	Any improvements, which are required in the existing infrastructure including replacement of the complete pipeline network in order to maintain the required Performance Standards, will be proposed in the preparatory period and in case if such differences/improvements proposed in preparatory period are not agreed by the Employer then there may be mutually agreed revision of the Performance Standards as being followed in other water management contracts. Kindly confirm.	As per Bid document.
270.	General	-	-	Existing water meters	<p>Please provide the year of installation of the existing water meters.</p> <p>Since the Contractor is required to use existing water meters, which may reach end of serviceable life prior to end of the O&M period, kindly confirm in such an event Employer will pay additionally for replacement of water meters including Capex cost.</p>	As per Bid documents.
271.	General	-	-	General	Kindly Provide BOQ in Excel format for better Working.	Excel sheets can be provided to bidder after the purchase of bid document
272.	General	-	-	General	Please Provide Drawing in Auto-Cad Format.	As per Bid documents.
273.	General	-	-	General	Kindly Provide the DPR for the Project for better understanding of the project.	As per Bid documents.
274.	General	-	-	General	Does high-resolution Satellite /Drone imagery provided by the employer for the project GIS mapping activities? Or operator have to purchase a fresh Satellite Image?	As per Bid documents.

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
275.	General	-	-	General	Does the employer have verified administrative boundaries (localities, sub-localities, Hydraulic zones, DMA's etc.)? If yes, in which format these are available.	As per Bid documents.
276.	General	-	-	General	In what format GIS Basemap and Water Network data available, and when it was last updated?	Water GEMS File
277.	General	-	-	Drawings	As per the specification and as seems its predesigned project Kindly provide the following electrical instrumentation drawings in soft copy (AutoCAD etc.) for better understanding. 1. Electrical GA drawings for UGR, DMA's and Pump house. 2. Electrical single line diagram (SLD) for UGR, DMA & Pump house. 3. All applicable Instruments hook-up diagram. 4. PLC /SCADA System architectural Drawing Bulk Consumer connection along with communication network.	As per Bid documents.
278.	General	-	-	Requirement of Flow meter chamber	Provision for Construction of chamber is not available for Electromagnetic flow meter. Kindly clarify and amend the BOQ accordingly.	As per Bid documents.
279.	General	-	-	Construction of Control room	Provision for Construction of Zonal SCADA control room, UGR/BPS control room is not available. Kindly clarify and amend the BOQ accordingly.	As per Bid documents.
280.	General	-	-	Precedence	We presume that in case of conflict in item description between the Specifications i.e. Vol II and the Item Rate BOQ Vol III, the Item rate BOQ will take precedence. Please confirm.	As per Bid documents.
281.	General			L-Section and Topographical Survey of pipelines	Kindly provide the Topographical survey and L-section of the feeder main and distribution pipe route for hydraulic study.	Refer for of Volume IV of Bid documents
282.	General			Land	Please confirm that land to be used for setting up Yards/store/Project office/ Customer Service Centre/Test Bench/ call center etc. will be provided by the DJB free of cost.	As per Bid documents
283.	General			O&M	Please confirm who will pay for maintenance (major or minor) works such as electric lines, wastewater pipelines, other utilities within UGR/BPS/office buildings etc.?	As per Bid documents
284.	General			O&M	Please confirm that no replacement of equipment is envisaged at the end of Contract to make the assets serviceable for further period. The scope is limited to repair and recondition the assets.	As per Bid documents

S.N.	VOLUME	SECTION /CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
285.	General			Assets Replacement	We understand that the asset replacement during O&M period is in the scope of the client. Kindly confirm.	As per Bid documents