#### 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 -3 (Central)".

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

## Corrigendum and Addendum No. 3 NIT No. 02(2021-22)/EE(EAP)-I(Re-invited)

This is in continuation to the earlier Corrigendum and Addendum No. 1&2. The replies of pre- bid queries and inclusion of the Jhandewalan BPS works are enclosed herewith. Further, 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: 14.07.2021 upto 15:00 Hours
- Last Date/Time for submission of Bids: 16.07.2021 upto 15:00 Hours
- Date/Time for opening of Technical Bid: 16.07.2021 at 15:10 Hours

Encl.: As Above

(B S Rawat) EE (EAP)-I

Dated: 02.07.2021

No. DJB/EE (EAP)-1/2021/ 2134 - 2182

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)-1 7

#### 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 3: Central Zone).

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

#### Corrigendum and Addendum No. 3

S.N.	Vol	Page	Clause			Corr	igendum an	d Addendı	um			
			Part 2, Section VI, A	In the Table giving Package-v	vise scope of	f works;						
			Scope of	Item No. 3. BPS (a) Construct	tion of New	Pumping S	Station:					
1.	II	192	Work-Sub-section 1.	For Package 3, the number	"3" is replac	ed by "4"	•					
			Project Description,									
			Clause no.1.4.2									
			Part 2, Section VI, A	Main Components of Physica	l Works, refe	er to the Ta	able.					
			Scope of	Item No. 3. BPS (a) Construct	tion of New	Pumping S	Station,					
2.	II	194	Work-Sub-section 2.	Under Column Quantity, th	e word "3 N	los." <b>is re</b> p	olaced by "4	Nos.".				
			General, Clause no.									
			2.2									
				<b>Pump duty Parameter, Refe</b>	r to the Tab	ole						
			Part 2, Section VI, A	The following data has been	added to th	e Table.						_ _
			Scope of	Year →	2051		2036		2026		Daily	
	***	107	Work-Sub-section 2.	Duty Point →	Q (LPS)	H (m)	Q (LPS)	H (m)	Q (LPS)	H (m)	Variation	
3.	II	197	General, Clause no.	The section of	949	22	905.50	22.66	869	23.18	Peak	
			2.3.3, Sub - clause 2	Jhandewalan	380	28.16	362.2	28.27	347.60	28.34	Average	
			(d)	Distribution-1	113.80	34.23	108.66	34.24	104.30	34.24	Lean	
				Jhandewalan	562	12.00	546.61	12.22	533.67	12.39	Peak	

S.N.	Vol	Page	Clause			Corr	igendum an	d Addendı	ım						
				Distribution-2	225	15.36	218.64	15.39	213.50	15.42	Average				
					67.4	20.94	65.59	20.95	64.04	20.95	Lean				
			Part 2, Section VI, A	Proposed System, Refer to the	Table							_			
			Scope of	The row for Jhandewalan: U	Jnder Colur	nn BPS, t	he word "N	o" is replac	ced by "Yes".						
4.	11	199	Work-Sub-section 2.												
4.	П	199	General, Clause no.												
			2.3.3, Sub - clause 3												
			(c)												
			Part 2, Section VI, A	General, Refer to the Table.											
			Scope of	In item no. 5, Jhandewalan,	m no. 5, Jhandewalan, Under Column Pumping Station (PS), New, the cell should be tick marked.										
5.	П	231	Work-Sub-section 5.												
3.		231	Scope of UGRS and												
			BPSS Civil Works,												
			Clause no. 5.1												
				At the end of the chapter, A	dd clause 6.2	2.7 with th	ne text as fo	llows.							
				6.2.7 Jhandewalan Pumpi	Ü										
				The DJB will provide			***				•	•			
				provide DP structure		-	-	-	•	-		-			
			Part 2, Section VI, A	will be supplied by	-	_		-		-		•			
			Scope of	Department. No var			-			_					
6.	II	242	Work-Sub-section 6.	through two income	•						C				
			Scope of Electrical	electricity departme			• •	•	•			•			
			Works	B/C and 2 O/G) thr	-			-							
				•	indoor cast resin dry type transformer for step down the voltage. From transformer to Main LT panel, 415 V supply										
				will be fed through Bus duct. Main LT Panel will also be connected with Solar System and DG set through bus											
				• •	coupler and required interlocking between all incomers. From Main LT panel supply will be fed to Motors, lighting system, battery charger, dewatering pump, actuators, and auxiliary load of pumping station. Following are the items										
				system, battery char	ger, dewater	ing pump,	actuators, a	nd auxiliary	load of pum	pıng stati	on. Following a	re the items			

S.N.	Vol	Page	Clause	Corrigendum and Addendum
				which Bidder has to supply install, testing and commissioning.
				Refer SLD: P-225-324-E-SLD-002.
				(a) 11 KV indoor HT, VCB switchgear panel having 2 incomers, 1 bus-coupler and 2 outgoing feeders as per specification and SLD.
				(b) 11 / 0.433 KV, Cast Resin Dry Type transformer with OLTC tap changer and all required accessories as per
				specification. (Transformer shall be supplied with 100 % redundancy).
				(c) 415 V LT switchgear panel for feeding supply to motors, valve DB, lighting DB, exhaust fan DB, battery and
				battery charger, dewatering Pump, PLC / SCADA System, Chlorination System, Welding Socket, other auxiliary load of pumping stations.
				(d) DG Set with AMF Panel.
				(e) Solar system complete for feeding supply to system load and for supply to Grid as per specification.
				(f) Variable Frequency Drive Panel as per motors rating and specification.
				(g) HT and LT XLPE cable, control cable, NPSBD, cable tray, angle support, lugs, gland, termination, cable marking as per specification.
				(h) Indoor and Outdoor, energy efficient lighting (LED fittings), lighting poles, cable, wiring, conduit, lighting
				DB, switchboard, switches and sockets, fans, exhaust fans, AC, as per specification.
				(i) Earthing and Lightning Protection System as per specification.
				(j) Battery and Battery Charger (Float cum Boost Charger)
				(k) Safety Kit and tools, Spare Items, Safety Chart, Sand Bucket, Rubber Mat and Gloves, Spares etc.
				(l) Dismantling and deposit to DJB existing Transformer, HT panels, Starters, LT Panels, Changeover switches,
				APFC panels, cables, earthing etc.
				(m) Miscellaneous items which are not mentioned above but required for commissioning of complete plant.

S.N.	Vol	Page	Clause	Corrigence	dum and Addendum
				Jhandewalan UGR, At the bottom of 1st Table, add th	e data as follows.
				Data on Existing Con	nponents
				Details of existing Pumping Units	
				Pump – 1 7.	02 MGD@ 18.3 mwc
				Pump – 2 7.	02 MGD@ 18.3 mwc
				Pump – 3 2.:	59 MGD@ 19.8 mwc
			Part 2, Section VI, A	Pump – 4 9	38 MGD@ 25.9 mwc
			Scope of	Pump – 5 2.3	88 MGD@ 29.8 mwc
			Work-Sub-section 7.	Pump – 6 2.3	88 MGD@ 29.8 mwc
7.	II	251	Scope of Mechanical	Pump – 7 7.	79 MGD@ 29.6 mwc
			Works, Clause no.	Pump – 8 N.	A MGD@ NA mwc
			7.5	Pump – 9 5.0	0 MGD@ 30 mwc
				Pump – 10 2.3	89 MGD@ 30 mwc
				Pump – 11 2.3	89 MGD@ 30 mwc
				Pump – 12 2.3	89 MGD@ 30 mwc
				Pump – 13 1.0	0 MGD@ 38 mwc
				Pump – 14 1.0	0 MGD@ 35 mwc
				Pump – 15 1.0	0 MGD@ 40 mwc
			Part 2, Section VI, A	Under head "Proposed Project Bid Purpose drawings" s	add the texts as follows:
			Scope of	Process and Instrumentation Diagram no. I	
			Work-Sub-section 7.	Ç	
8.	II	253	Scope of Mechanical		
			Works, Clause no.		
			7.5		
			Part 2, Section VI, A	The contents under head "Proposed Recommendations:	" is deleted and replaced by follow
9.	II	253	Scope of	As per the UGR command area wise was	ater demand (Table 7.5) from Jhar
			Work-Sub-section 7.	planned as water demand	

S.N.	Vol	Page	Clause		Corrigendum and A	Addendum				
			Scope of Mechanical	•	A flow control valve is proposed at the inlet of the UC	JGR.				
			Works, Clause no.	•	Based on the hydraulic analysis, Jhandewalan pur	imping station will pump to 2 separate zone	s only, the			
			7.5		following shall be the capacity:  a. Zone -1 as 949 LPS  b. Zone -2 as 562 LPS					
				•	Hydraulic modelling recommends that Jhandewalan	n will be planned for direct pumping to local	distribution			
					areas within above dedicated zones. The other areas c	currently being fed by the intermittent BPS stat	ions should			
					be abandoned once the new transmission system is in	in place and working for the UGRs currently b	eing fed by			
					Jhandewalan					
				•	<ul> <li>i. Since the current system cannot be dispensed til replace the existing system. Hence it is suggeste requirements having facility for smooth transfer.</li> <li>ii. A new pumping station is proposed towards the green belt is available. This Pump house shall ha Since the proposed system will be 24x7 scenar care of lean flows in addition to proposal for inst</li> </ul>	ill alternate new system is in place, it may not be do propose a new pumping station for these receives upstream side of the existing Pump house when have five pump sets for each Zone totalling to tearios, it shall be required to install trimmer pur	new revised re complete en numbers. mps to take			
				•	It is proposed to install new incoming and outgoing p	pipelines with valves, and the existing arrangen	nent will be			
					dispensed with.					
				•	This new BPS will house 10 nos. of pumps with all items.	l associated pipe fittings and valves including a	ll electrical			
				•	Electro Chlorination systems is proposed at this Purresidual Chlorine at furthest ends of the distribution n		maintaining			
				•	<ul> <li>The pumping station shall be fully equipped with all necessary and required mechanical items as following.</li> <li>Electrically operated handling system.</li> <li>Firefighting equipment.</li> <li>Dewatering and Drain Pumps.</li> <li>Ventilation system.</li> </ul>					
				<b>Table 7.5:</b>	Proposed Components for Jhandewalan BPS					
					Projected Demand (MLD)					
					2021 47.63					

S.N.	Vol	Page	Clause								Cor	rige	nduı	n and	l Ado	dend	um								
					2	2036								50.2	7										
					2	2051								52.2	5										
					Ι	Details of	propos	sed pi	ump s	ets (te	entati	ve)		Duty	y poii	nt coi	nditio	n		Qty	- nos				
					5	Set – 1 Z-	1(Dist	tributi	ion - F	Peak)				1710	)m³/h	ır @3	5mw	c		2W	+ 1S				
					5	Set – 2 Z-	1(Dist	tributi	ion –N	lon-P	eak)			4201	n³/hr	@35	mwc			1W	+ 1S				
					5	Set – 3 Z-	2(Dist	tributi	ion - F	Peak)				1010	)m³/h	nr @2	1mw	c		2W	+ 1S				
					S	Set – 4 Z-	2(Dist	tributi	ion –N	lon-P	eak)			250ı	n³/hr	@21	mwc			1W	+ 1S				
					I	Details of	propos	sed in	comir	ng pip	es			900	mm (	dia m	ain fi	rom C	hand	rawa	al. (1 No	.) MS	5		
					т	Details of	nronos	ടേർ വ	utaoin	a nin	ec.			900	mm (	dia (1	No.	MS							
					1	octains of	propos	scu oi	utgom	g pip	CS			700	mm (	dia (1	No.	DI							
					•	Refer att	ached	propo	osed C	6A dr	awing	g for	mor	e deta	ils										
					•	Refer ter	ntative	Bill	of Qua	ntitie	es as p	per t	he pr	elimi	nary (	desig	n fea	tures							
				Equi	pment to	o be insta	alled a	t UG	R's ui	nder	SCA	DA	and A	Autor	natio	n wo	rks,								
				The f	ollowing	g data is	added	in th	e Tab	le at	the e	nd a	and T	otal	quan	tity 1	nodi	fied a	s per	giv	en in th	e Tab	le be	low.	
10.	П	270	Part 2, Section VI, A Scope of Work-Sub-section 8. SCADA and instrumentation Works, Clause no.	S.	Unit Name	Main Eqp. Description	Main Eqp. Quantity	Mag. Flow Meter	Level Transmitter	Level Switch	Level Gauge	Drain pit Level Controller	Pr. Transmitter	Dual Bar Graph Indicators	Pr. Switch	Pr Gauge	Wireless Fire Alarm System	CCTV & Intruder Monitoring	system Residual Chlorine analyzers	Turbidity Analyzer	Power & Instrument Cables	TCP	RTU	UPS	
			8.1	4	Jhand ewala	UGR	2		2	2	2										2000 mtrs				
					n																				
						Sump	2			2											1				
						Pump	10						10	5		20	1	1				1	1	1	

S.N.	Vol	Page	Clause								Co	rrigo	endu	m an	d Ad	dend	um								
						Set																			
						Inlets	1	1					1	1		1									
						to																			
						UGR(																			
						900m																			
						m)																			
						Outlet	2	2					2	2	2	2			1	1					
						s (900																			
						& 700																			
						mm)																			
						Drain	1					1													
						Pit																			
						Total		22	25	31	20	7	60	63	9	90	6	5	8	8	1400	10	11	10	
						Qty.															0				
						Unit		N	No	N	N	N	N	N	N	N	Se	Set	S	S	mtrs				
								О		О	О	О	О	О	О	О	t		e	e					
																			t	t					
				Add	at the en	d of the	Table	c) O	perati	on a	nd M	aint	tenan	ice, th	ne we	ightir	ng (f)	with re	spec	ct to	index d	escrip	otion	(b) fo	r Price
				Sche	dule OM-	M1 and	OM-N	12 wi	ll be a	s und	ler:														
			Part-1, Section IV,		(a)			(b)					(f)	)											
11.	III	848	Price Bid, Section B,	Inc	dex Code		Index	Desc	ription	n		V	Veigh	nting											
			Price Proposal data,		1	Nonac		ole					0.1	5											
			Table A, Part-c)		2	Labou	ır						0.6	5											
					3	Mater	ial						0.1	5											
					4	Petrol	, Oil a	ınd L	ubrica	nt			0.0	5											

S.N.	Vol	Page	Clause		Corrigendum	and Ad	ldendum				
				(i) In s	econd column of item no. 2, the word "Site Office"	is repla	ced by "Cust	tomer Servi	ce Office".		
			Part 1, Section-IV,	(ii) In s	second column of item no. 2.1, the text "Engineer	's office	e with" may	be read a	s "Establish	ment, op	eration and
12.	III	863	Price Bid, Section B-	mai	ntenance of Customer Service Office with minimum	1500 sq.	ft floor area	including r	ent, furnishi	ng, office	equipment
12.	1111	803	Price Schedule	with	".						
			CW-G, Item no. 2	(iii) The	word"32" in fourth column of item no. 2.1may be r	ead as "	152".				
			Part 1, Section-IV,	In C&A	no. 2 "S. No. 39 to 41" stands deleted.						
			Price Bid, Section B-								
13.	Ш	918	Price Schedules,								
			Item no. 1.6, 1.7 and								
			1.8 (CW-DB-C)								
			Part 1, Section-IV,	Under 1	tem No. 2, add a sub-item 2.6 and the text as follow	ws.					
			Price Bid, Section B-				·				
			Price Schedules,	Item	Description	Unit	Quantity	Ra	ate	Am	ount
14.	III	923	Item no. 2	No.	Description	Omt	Quantity	Local	Foreign	Local	Foreign
1		723	(CW-DB-C),	2.6	Construction of new Pump House with associated	LS	1				
			Design-Build: UGR		Structures at Jhandewalan						
			and BPS- Civil								
			Works								
			Part 1, Section-IV,		tem No. A, UGR's and BPS's, under description, a					alan".	
			Price Bid, Section B-	At the e	and of Item A, in Page 938, add sub-item 6.0 with the	he work	t items as in t				
			Price Schedules,	Item	Description	Unit	Quantity		ate		ount
15.	III	925,	Item no. A	No.			3	Local	Foreign	Local	Foreign
		938	(CW-DB-M),	A	UGR's and BPS's						
			Design-Build: UGR		6. Jhandewalan						
			and BPS-		(Note: Sizes, capacities and quantities given herein,						
			Mechanical Works		if any, are indicative and provided for Bidder's						

S.N.	Vol	Page	Clause		Corrigendum	and A	ddendum		
					reference only)				
				6	Jhandewalan BPS & UGR				
				6.1	Pipes and Fittings:				
					(i) Inlet side & outlet side of UGR				
					Suction, Discharge & Header of Pumps				
				a	DI Pipes	Lot	1		
				b	DI fittings	Lot	1		
				С	MS Pipes	Lot	1		
				d	MS fittings	Lot	1		
				6.2	Electrically actuated double flanged Sluice Valves				
					along with dismantling joints:				
					(i) Inlet side & outlet side of UGR				
					(ii) Suction, Discharge & Header of Pumps				
				a	250 dia	Nos	2		
				b	300 dia	Nos	4		
				c	350 dia	Nos	2		
				d	450 dia	Nos	3		
				e	600 dia	Nos	6		
				f	700 dia	Nos	3		
				6.3	Double flanged Sluice Valves along with				
					dismantling joints:				
					(i) Inlet side & outlet side of UGR				
					Suction, Discharge & Header of Pumps				
				a	300 dia	Nos	2		
				6.4	Electrically actuated double flanged Butterfly				
					Valves along with dismantling joints:				
					(i) Inlet side & outlet side of UGR				

S.N.	Vol	Page	Clause		Corrigendum	and A	ddendum		
					(ii) Suction, Discharge & Header of Pumps				
				a	700 dia	Nos	3		
				b	800 dia	Nos	2		
				С	900 dia	Nos	5		
				d	1400 dia	Nos	2		
				6.5	Double flanged Non Return Valve				
				a	250 dia	Nos	2		
				b	300 dia	Nos	2		
				c	450 dia	Nos	3		
				d	600 dia	Nos	3		
				6.6	Double flanged Duel plate Check Valve along with				
					dismantling joint				
				a	700 dia	Nos	1`		
				b	900 dia	Nos	1		
				6.7	Electrically Actuated Flow Control Valve along				
					with dismantling joint				
				a	900 dia	Nos	1		
				6.8	Electrically actuated sluice gate, size 1200 x 1200	Nos	1		
				6.9	Double suction horizontal split casing centrifugal				
					volute Pump set along with induction motor and all				
					associated accessories as per technical specification				
				a	1710 m3/hr x 35 m, (2W + 1S)	Nos	3		
				b	1010 m3/hr x 21 m, (2W + 1S)	Nos	3		
				c	420 m3/hr x 35 m, (1W + 1S)	Nos	2		
				d	250 m3/hr x 21 m, (1W + 1S)	Nos	2		
				6.10	Portable submersible dewatering pump set of	Nos	1		
					Capacity 50 m3/hr at 15 mwc head with electric				

S.N.	Vol	Page	Clause		Corrigendum	and A	ddendum				
					motor and accessories, including flexible hose of						
					10 mt & cable of 10 mt						
				6.11	Submersible drain pump set including electric	Nos	2				
					motor, piping, valve, etc. of Capacity 10 m3/hr at						
					15 mwc head (1W + 1S)						
				6.12	Ventilation System with exhaust fan complete	Nos	8				
				6.13	Double Girder EOT Crane of capacity 5.0 MT	Nos	1				
				6.14	Portable extinguishers with glow signs indicating	Nos	10				
					location of extinguishers- ABC type @ 6 kg as per						
					TAC IS:2190						
				6.15	Any other items required for commissioning of	LS	1				
					pumping system						
				6.16	Suitable capacity Electro chlorinator (1W + 1S)	Nos	2				
					complete with piping, valves, accessories, etc.						
				Under 1	Item A, UGR's and BPS's, under description add i	tem no.	6 with the w	ord as "Jh	andewalan"		
				At the	end of Price Schedule, Page 953, add sub-item 7.0 v	with the	work items	as in the T	able below	•	1
			Part 1, Section-IV,	Item	Description	Unit	Quantity	R	ate	Am	ount
			Price Bid, Section B-	No.	Description	Cint	Quantity	Local	Foreign	Local	Foreign
			Price Schedules,	A	UGR's and BPS's:						
		946,	Item no. A		6.Jhandewalan						
16.	III	953	(CW-DB-E),		(Note: Sizes, capacities and quantities given herein,						
		)33	Design-Build: UGR		if any, are indicative and provided for Bidder's						
			and BPS- Electrical		reference only)						
			Works	7	Jhandewalan BPS & UGR						
				7.1	HT Panel: 11 KV,630 Amp, Indoor VCB Type	No.	1				
					HT Panel, 5 panel board (2 I/C, 1 B/C, 2 O/G)						
					compatible with PLC / SCADA System.						

S.N.	Vol	Page	Clause		Corrigendum	and A	dendum	
				7.2	<b>Transformers</b> : 11/0.433 KV, (1000 KVA, minimum) KVA, Indoor Cast resin Dry type Transformer Dyn11 with On Load Tap Changer Arrangement	Nos.	2	
				7.3	<b>Solar System</b> : Solar system (400 KWp, minimum) along with all accessories	Set	1	
				7.4	<b>DG Set</b> : 415 V, 3 Phase, (750 KVA, minimum) DG set with AMF Panel	No.	1	
				7.5	415 Volts L T Panels: 415 Volts Main Panel, Aux Panels and APFC panel along with starter feeders – Metal enclosed, free standing, floor mounting, extensible on either side, compatible with PLC/SCADA Systems.	LS	1	
				7.6	Variable Frequency Drive: VFD as per SLD and tender specification	LS	1	
				7.7	<b>Battery and Battery Charger</b> : 24 V, 150 AH (minimum) Ni-Cd maintenance free battery and Float Cum Boost Charger	No.	1	
				7.8	<b>Lighting System</b> : Indoor and Outdoor lighting System with LED fittings, lighting DB, JB, wiring, cabling, receptacles, poles, fans, AC etc	LS	1	
				7.9	<b>Earthing</b> : Complete Earthing System and Lightning Protection System	LS	1	
				7.10	Cabling System: XLPE HT and LT power cables, control cables, NPSBD, telephone cables, etc.	LS	1	
				7.11	Safety kit and tools & tackle: Safety chart, sand bucket, rubber mat, gloves, tools, spares, etc.	LS	1	

S.N.	Vol	Page	Clause		Corrigendum and Addendum							
				7.1		Dismantling Items: Dismantling of existing LS 1 lectrical equipment.						
				7.1	ai	Miscellaneous items: Items which are not covered LS 1 bove and in other schedules but required for ommissioning of UGR and BPS from Electrical erspectives						
				Uno	der var	rious items, the quantities are modified / revised as in the Table be	low.	1				
					Item No.	Description	Unit	Original  Quantity	Revised Quantity			
		954	Part 1, Section-IV, Price Bid, Section B- Price Schedules, (CW-DB-S&I), Design-Build: All		1.27	230V AC Redundant UPS of required capacity with 1 hour backup (For 6 Nos. UGR withBPS).	Nos.	5	6			
					3.7	Electromagnetic Flowmeter DN700	Nos	2	3			
					3.9	Electromagnetic Flowmeter DN900	Nos	2	7			
					3.10	Ultrasonic Level Transmitter	Nos.	23	25			
					3.11	Water Level Switch	Nos.	27	31			
17.	III				3.12	Local Level Gauge for UGRs	Nos.	18	20			
			SCADA &		3.13	Pressure Transmitter	Nos.	47	60			
			Instrumentation		3.14	Pressure Switch	Nos.	7	9			
			Works		3.15	Pressure Gauge	Nos.	67	90			
					3.16	Drain Pit Level Controller	Nos.	6	7			
					3.19	Local Control Panels	Nos.	9	10			
					3.20	On Line Residual Chlorine Analyser	Nos.	7	8			
				<u> </u>	3.21	On Line Turbidity Analyser	Nos.	7	8			
				-	3.22	Bar Graph Indicator	Nos.	55	63			
					5.13	Fire Alarm System for BPSs (Cold Wire/Wireless Technology).	Nos.	05	06			

S.N.	Vol	Page	Clause	Corrigendum and Addendum								
				The foll	lowing items of work have been added at the end of	the Pric	e Schedule (	)M-MIS	C.			
				Item	Description	T 7 *4	0 444	Rate		Amount		
									Foreign	Local	Foreign	
				6.0	O&M of Additional House Connections beyond 5%							
		limit for Customer Services (meter reading and										
				others as specified in the contract) during								
					post-construction O&M period.		1100					
			Part-1, Section IV,	6.1	1st Year	No.	1100					
18.	III	993	Price Bid, Section B, 6.2 2 <sup>nd</sup> Year No. 2200									
18.	111	993	Price Schedule	Price Schedule 6.3 3 <sup>rd</sup> Year No. 3300	3300							
		0.	OM-MISC	6.4	4 <sup>th</sup> Year	No.	4400					
				6.5	5 <sup>th</sup> Year	No.	5500					
				6.6	6 <sup>th</sup> Year	No.	6600					
				6.7	7 <sup>th</sup> Year	No. 7700						
				6.8	8 <sup>th</sup> Year	No.	8800					
				6.9	9th Year	No.	9900					
				6.10	10 <sup>th</sup> Year	No.	11000					
				The payment for this item will be made for actual number of house connections on prorata basis for the respective year.								
				The foll	lowing additions of drawings are made in the Volum	e IV of	Bid Docume	nt. Provi	ded as Anı	nexure 1.		
				1. Jhand	dewalan Pumping Station- SLD for 11 KV/415V Main	Electric	al panel. Dra	wing No.	P-225-324-	E-SLD-0	02	
				Howeve	er, in the drawing, pumps head value 30m, 30m, 16m &	16m m	ay be read as	35m, 35n	35m, 35m, 21m & 21m respectively.			
19.	IV			2. Propo	osed Layout and Section of UGR & Pump House at Jha	ndewala	n. Drawing N	No. P-225	-323-M-UC	GR-JHW-0	)01	
				(Re	evision R1)- Sheet 1 of 2							
				3. Propo	osed Layout and Section of UGR & Pump House at Jha	ndewala	n. Drawing N	No. P-225	-323-M-UC	GR-JHW-C	001	
				(Re	evision R1)- Sheet 2 of 2							

# JICA Assisted Delhi Water Supply Improvement Project in Chandrawal WTP Command Area (ID-P225) REPLIES TOPRE-BID QUERIES PACKAGE 3 (CENTRAL)

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 3: Central Zone).

**NIT Number and Date** : NIT No. 02 (2021-22)/EE (EAP)-Idated20.04.2021

S.N.	VOLUME /SECTION	CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
1.	Volume-I	ITB 19.3	19	Bid Security	As per Section 1, Instruction to Bidders Cl. 19.2 (c) Bid Security can be in the form of "a cashier's or certified check". We presume that FDR (Fixed Deposit Receipt) will be accepted against bid security. Kindly confirm.	No, Fixed Deposit Receipt (FDR) is not acceptable against Bid Security.
2.	Volume-II	Section VI, A. Scope of Work, Sub Section-2, Clause no. 3	198	UGR	As per Clause no. 3, At UGRs locations, rehabilitation of UGRs and associated works of roads, drainage, landscaping, fencing and lighting at the site area is in the scope of the bidder. But, as per our site visit, it is observed that drains are not available in most of the locations. We presume that it is not required to construct new drains wherever it is not exist.	Rehabilitation also includes for new construction of these works as required as per site condition.
3.	Volume-II	Section VI, A. Scope of Work, Sub Section-5, Clause no. 5.2.2	232	Hindu Rao UGR	Rehabilitation work shall be done, while maintaining the continuous water supply at Hindu Rao UGR. To meet these criteria, additional chamber is to be constructed. As per the site condition, additional space is not available. Kindly review and suggest.	Additional space for construction of temporary sump may be explored near OHT, otherwise put up online booster for by-passing the UGR
4.	Volume- 2	Part 2, Section VI, A Scope of work, Sub-section 5, Scope of UGRs and	235- 236	Proposed UGR details	BOQ UGRs capacities of Cantt Palam, Talkatora, Hasanpur and Hindu Rao are not matching with the capacities indicated in drawings.	The capacities mentioned in the drawing are indicative only. The capacities mentioned in

S.N.	VOLUME /SECTION	CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
	Volume-3	BPSS Civil Works,  Part-1, Section-IV, Price Bid, Section B, Price Schedules S. No. iv, (CW-DB-C), Item No. 1.6 to 1.10	922			the BOQ (Price Schedule) shall be considered.
5.	Volume II	Section VI Part D, O&M works Sub-  Modality of O&M Employer for Operator's established doing O&M on behalf of client and confirm	We understand that electricity charges will be paid by the Employer for Operator's establishments such as offices for doing O&M on behalf of client and call centers etc. Please confirm.	Refer to C&A No. 3, Sr. No. 12.		
		no. 1.4		and Payment	We understand that electricity charges Operator's O&M Office will be paid by DJB. Since in the STP/WTP plants this practice is already established. Please suggest.	140. 12.
6.	Volume-II	Section-VI, D. O&M Works, Subsection-1, Clause no. 1.12 & 1.13	812- 814	Minimum Staff to be deployed for O&M for Civil and E & M Works Division	Further, as per the clause 1.12 & 1.13 (Page 812 to 814) of volume II, the minimum O&M manpower during construction phase is 436 numbers & post construction phase is 355 numbers. In our considered opinion and based on our assessment, the project can be operated efficiently with relatively less manpower. Hence, we request you to make this minimum number of staffs mentioned above as indicative and kindly allow the contractor to deploy the required number of staffs based on their assessment for smooth & proper functioning of O&M.	As per Bid documents.
7.	Volume II	Section VI Part D, O&M works, Sub- Section-1, Clause no. 1.12	812	Minimum Staff to be deployed for O&M	The Manpower mentioned in the tender is not sufficient for O&M., we request you to please add following MANDPOWER as mandatory Project Manager Hydraulic Engineer GIS Engineer NRW Manager Customer Service Asst Manager	As per Bid documents.

S.N.	VOLUME /SECTION	CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
					Store In-charge Store Assistants – 1 no. Admin Staff – 2 no. Office Assistants – 2 no. Water Tanker Supervisor – 1 per 4 command areas Billing Data Compiler New Connection Engineers – 2 no. Legal Compliance Staff – 2 nos. Zonal Supervisors (1 per 8 DMAs) H&S Engineers – 2 nos. Meter Testing Engineer – 1 per 50000 meters	
					Apart from the Manpower mentioned in the tender, we request you to please add following positions which are necessary for the implementation of the project on a long term.  1. Project Manager 2. NRW Manager 3. Hydraulic Engineer 4. GIS Engineer 5. Customer Service Asst Manager 6. Store In-charge 7. Store Assistants – 2 no. 8. Billing Data Coordinator 9. New Connection Engineers – 2 no. 10. Legal Compliance Staff – 2 nos. 11. Zonal Supervisors (1 per 7-8 DMAs) 12. H&S Engineers – 3 nos. 13. Meter Testing Engineer – 1 per 30000 meters 14. Water Tanker Supervisor – 1 per 3-4 command areas 15. Admin Staff – 1 no. 16. Office Assistants – 1 no. Please add the same in mandatory manpower requirements.	
8.	Volume-II	Section-VI, D.	827-	Key	As per sub section II of volume II (Page 827-838), there is	As per Bid documents.

S.N.	VOLUME /SECTION	CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
		O&M Works, Subsection-2, Clause no. 1.12 & 1.13	828	Performan ce indicator for Distributio n system O&M	no mention about maximum compensation payable by contractor during O&M towards non-achievement of KPIs. Hence, we request you to limit the maximum compensation to 10% of accepted O&M price as being followed in tenders across India. The above request was accepted during the first call of this project ( Reference: Sl. No. 1 Corrigendum No. 9 dated 02.07.2019)	
9.	Volume III	Part 1, Section-IV, Schedule of Price Adjustment Data, Table A, Part C	848	Operation and Maintenan ce	As per the schedule of price adjustment data, the weightage for labour component is given as 40%. Generally, projects of this nature are labour intensive and it contributes to almost more than 75% of the total O&M cost. Hence, we request you to increase the weightage accordingly which will help us to submit a better techno-commercial proposal & will ease the process of finalization.	Refer C&A no. 3, S. No. 11
10.	Volume III	Part 1, Section-IV, BOQ, A. Preamble , S.No.19	854	BOQ- O&M Works	The O&M cost is to be quoted as Lump Sum. However, in practice, any increase in the number of connections actually found will considerably increase the variable part of O&M cost. Therefore, we request you to clarify how this additional cost will be compensated to the Contractor if the number of connections actually found is more than the number of connections indicated in the BoQ.	Refer to C&A no. 3, S. No. 18
11.	Volume-III	Section-IV, Part 1, Price Bid, Section B- Price Schedules, CW-DP, BOQ item no. 4.3	894	BOQ	As per the Distribution BOQ item no. 4.3, precast reinforced cement concrete in vertical & horizontal fins are provided. Kindly provide the drawing and specify where it will be used?	This item is generally used in hanging portion of chajjahs or parapet walls and will be paid as per requirement at site.
12.	Volume-III	Section-IV, Part 1, Price Bid, Section B- Price Schedules, CW-DP, BOQ item no. 4.8	896	BOQ	As per the Distribution BOQ item no. 4.8, precast reinforced cement concrete waffle units are provided. Kindly provide the drawing and specify where it will be used?	This item will use for construction of precast units for laying of 100mm dia DI pipes in narrow lanes and will be paid as per requirement at site.

S.N.	VOLUME /SECTION	CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
13.	Corrigendu m & Addendum No 2	Part 2, Section-VI, D O&M Services Sub—section 2, Clause 2.3	Sr. No. 31		The corrigendum issued for shortfall in demand is not clear. It is mentioned that KPIs will be only deemed to be achieved proportionately with reference to the volume of water actually supplied.  Our understanding is that, for example, if water supplied is only 50% of the guaranteed quantity, then the KPIs would also be deemed to be proportionately met i.e. 50% even though it is not Contractor's default.  Kindly clarify / modify the response accordingly.	The contractor shall establish the net quantity and pressure heads that can be available in each DMA under various supply conditions (quantity of water released) from WTP by running the hydraulic model. Such data will be taken as target value for KPI purpose.  The meaning of pro-rata is to consider the reduced value of water quantity and pressure head as the target value.
14.	Corrigendu m and Addendum no. 2	Section-IV, Price Bid, Section B- Price Schedules, Item no. 1.6 (CW-DB-C)	SI. No. 39-41		In the addendum it is mentioned as "add" regarding capacities. For example Package-3, SI. No. 39, it is mentioned as 'add 21.79 ML' capacity. In original BOQ it is mentioned as 11.80 ML. Hence we presume that 11.80 ML has to be replaced to 21.79 ML. Kindly confirm.	Refer to C&A no. 3, S. No. 13
15.	General				Please confirm that the building to be used for O&M office and Customer Service activities will be provided by DJB free of cost to the Contractor.	This is provided as BOQ item under Price Schedule CW-G. (Refer to C&A no. 3, S. No. 12)
16.	General				3% PG for O&M has to be submitted. We once again request you to allow us to submit PG O&M for annual O&M value or Net present Value of total O&M value.	As per Bid Documents.
17.	General				We presume that existing pipeline will not be disturbed till the completion of new pipeline. If it is disturbed, supply of water to affected areas will be in the scope of DJB. Kindly confirm.	As per bid documents

S.N.	VOLUME /SECTION	CLAUSE	PAGE	SUBJECT	CLARIFICATION REQUIRED	DJB'S REPLY
18.	General				At UGRS & BPS locations, demolition and disposal, transportation and stacking at places designated by DJB is given as LS. Kindly specify the lead for the disposal of the material.	As per Bid document and C&A No. 2.
19.	General				We request you to allow us to submit the printed price bids in the excel file provided by you instead of writing in the Hard copy for bid submission.	Price Bids printed separately but duly signed and sealed can be submitted along with the original price bid (blank) put in the same envelope.
20.	General			Extension of Bid Submissio n Date	We request you to provide minimum 2 weeks of time for bid submission.	Refer letter of issue for C&A No. 3





