

Engineering, Procuring, Construction, Commissioning (EPC) and Performance run followed by Ten years O&M of Sewerage Treatment Plant of 20 MLD capacity at Sushilapura of Jaipur City based on "Sequential Batch Reactor (SBR) Technology".

ADDENDUM-1

A Pre-Bid meeting was held under the chairmanship of Director Engineering-IV on 27th December-2022 at 3:00 PM at "Manthan Hall" JDA, Jaipur regarding the work of "**Engineering, Procuring, Construction, Commissioning (EPC) and Performance run followed by Ten years O&M of Sewerage Treatment Plant of 20 MLD capacity at Sushilapura of Jaipur City based on "Sequential Batch Reactor (SBR) Technology"**". Addenda to the bid document in the context of queries raised by Participants are as follows:-

Sr. No.	Reference to Clause and Context	Existing Provision	As Amended
1.	Volume-II, Scope of work & Technical Specifications, Section-I: Clause No. 2.14, Pg no 214, NIB, Schedule & Specifications, pg. no. 8	2.14 Contract Period The total Contract Period shall be as follows: Construction Period :24 Months (including Monsoon)	2.14 Contract Period The total Contract Period shall be as follows: Construction Period : 18 Months (including Monsoon)
		Schedule-F: Time of Completion The work should start by date of commencement as mentioned in Work order and complete within 24 months for the construction phase followed by O&M 120 months.	Schedule-F: Time of Completion The work should start by date of commencement as mentioned in Work order and complete within 18 months for the construction phase followed by O&M 120 months.
	Volume-I, ITB & GCC Section-II: GCC, (e) pg. no. 75	Time allowed for the completion of work (to be reckoned from the 15th day after the date of written order to commence the work) is 24 Months.	Time allowed for the completion of work (to be reckoned from the 15th day after the date of written order to commence the work) is 18 Months .

Addendum – 1

Engineering, Procuring, Construction, Commissioning (EPC) and Performance run followed by Ten years O&M of Sewerage Treatment Plant of 20 MLD capacity at Sushilapura of Jaipur City based on "Sequential Batch Reactor (SBR) Technology.

Sr. No.	Reference to Clause and Context	Existing Provision	As Amended
2.	NIB, Schedule-VII, Pg no 32 & NIB, Bid Evaluation Sheet, 3 e (ii), pg. no. 48	Bid Capacity, Bid Capacity = $A \times N \times 3 - B$ N = Number of years prescribed for completion of the Work for which bids are invited. 2.0	Bid Capacity, Bid Capacity = $A \times N \times 3 - B$ N = Number of years prescribed for completion of the Work for which bids are invited. 1.5
3.	Volume-II, Section-I: Scope of work & Technical Specifications, Clause No. 1.14.1, Pg no 233	N = 2.0 years All roads shall be of asphalt macadam and minimum 5 meters wide.	N = 1.5 All roads shall be of asphalt macadam and minimum 3.75 meters wide.
4.	Volume-II Scope of Work & Technical Specifications, Clause: 2.2 Process Design, Page 191	Minimum 4 Nos. of SBR Basins with adequate volume shall be provided.	Minimum 2 Nos. of SBR Basins with adequate volume shall be provided.

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Sr. No.	Reference to Clause and Context	Existing Provision	As Amended
5.	Volume-II Scope of Work & Technical Specifications, Clause : 2. Coarse Screen Channels, Page 186 Volume-II Scope of Work & Technical Specifications, Clause : 1.2 Fine Screen Channel , Page 189	Coarse Screen Channels: Min. two mechanical screen working and one mechanical screen standby of 20 mm clear spacing and each screen shall be provided of 50% peak flow capacity. Number of Units : 2 Mechanical (Working) + 1 Mechanical (Standby) each of 50% Peak Flow capacity. Fine Screen Channels: Min. two Mechanical Fine Screens (Working) and one Mechanical Fine screen (standby) shall be provided in fine screen channels. Number of Units : 2 Mechanical (Working) + 1 Mechanical (Standby) each of 50% Peak Flow capacity.	Coarse Screen Channels: Two mechanical screens (1 working and 1 standby) of 20 mm clear spacing and each screen shall be provided of 100% peak flow capacity. Number of Units : 1 Mechanical (Working) + 1 Mechanical (Standby) each of 100% Peak Flow capacity. Two mechanical screens (1 working and 1 standby) shall be provided of 100% peak flow capacity. Number of Units : 1 Mechanical (Working) + 1 Mechanical (Standby) each of 100% Peak Flow capacity.
6.	Volume-II Scope of Work & Technical Specifications, (B)I , Page 183	Flow Measurement Flow measurement before the distribution box for SBR shall also be measured through parshall flume fitted with suitable sensors.	Flow Measurement Deleted.

Addendum – 1

Engineering, Procuring, Construction, Commissioning (EPC) and Performance run followed by Ten years O&M of Sewerage Treatment Plant of 20 MLD capacity at Sushilapura of Jaipur City based on "Sequential Batch Reactor (SBR) Technology.

Sr. No.	Reference to Clause and Context	Existing Provision	As Amended
7.	Volume-II Scope of works & Technical Specifications, page 197 & 198	COTDM feed sump & pump house: Nos. of COTDM MACHINES Working as per requirement + Min. 50% Standby	COTDM feed sump & pump house: Nos. of COTDM MACHINES Minimum 2 no COTDM machines (1 working + 1 standby) of similar capacity shall be provided
8.	NIB, Annexure-II, Pg no 35	Bank Guarantee Performa for Bid security deposit The amount covered under the above Bank Guarantee shall automatically be credited in the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through ISFC code No ICIC0006754.	Bank Guarantee Performa for Bid security deposit The amount covered under the above Bank Guarantee shall automatically be credited in the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through IFSC code No ICIC0006754.

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Executive Engineer (DR-I)
 • JDA, Jaipur

Clarification – 1

Engineering, Procuring, Construction, Commissioning (EPC) and Performance run followed by Ten years O&M of Sewerage Treatment Plant of 20 MLD capacity at Sushilapura of Jaipur City based on "Sequential Batch Reactor (SBR) Technology.

A pre-bid meeting for the work of "Engineering, Procuring, Construction, Commissioning (EPC) and Performance run followed by Ten years O&M of Sewerage Treatment Plant of 20 MLD capacity at Sushilapura of Jaipur City based on "Sequential Batch Reactor (SBR) Technology" was held on 27.12.2022 at 3:00 PM in "Manthan Hall" of JDA. Following are the clarifications on the queries received/raised by the various participants:

Sr. NO.	ISSUE NO.	CLAUSE NO. CHAPTER NO.	AS PER TENDER DOCUMENT	PARTICIPANT'S QUERY	RESPONSE/ CLARIFICATIONS
Participant-1:					
1.	1)	Cl. 2.3.1. Design Basics Pg.184 of 595 Hydraulic flow Diagram	Invert Level of incoming Sewer 408.50 m, Ground Level (AGL) at Site 409.74 m, Finished Ground Level (FGL) at Site 410.50 m.	The invert Level of the incoming Sewer, Ground Level (AGL) at the Site differs from the levels provided in HFD, which are 99 m and 100 m, respectively. Kindly clarify.	HFD levels are indicative only. Concept of HFD was developed considering FGL as 100.00 m datum. Bidders have to ascertain their own concept of HFD considering AGL as 409.74m
2.	2)	Hydraulic Diagram flow	IL = 99 m and HFL = 99 m	We understand that IL and HFL indicated in HFD are at the same level. Kindly confirm.	HFD levels are indicative only. Concept of HFD was developed considering FGL as 100.00 m datum. Bidders have to ascertain their own concept of HFD.

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Sr. NO.	ISSUE NO.	CLAUSE NO. CHAPTER NO.	AS PER TENDER DOCUMENT	PARTICIPANT'S QUERY	RESPONSE/ CLARIFICATIONS
					HFL to be considered as 410.50 m for STP structures.
3.	3)	Cl. 2.3.4. B 2.2 SBR Process Design, Plant Layout (Description 7)	As per the tender, A minimum of 4 Nos. of SBR Basins with adequate volume shall be provided. In addition, 0.50 m Free Board shall be provided to each Basin.	In the Plant layout, two SBR basins are provided, ed whereas, in technical specification, four numbers are shown. Kindly confirm the minimum Nos. of the basin to be provided.	Refer Sr. No. 4 of Addendum-1.
4.	4)	1.2 Location of Plant	As per the tender, the proposed STP site is located upstream of Sushilpura Bridge between the Dravyavati river and the army area.	Kindly provide the GPS co-ordinate of the proposed STP site or the link to Google Maps Location	GPS co- ordinate of the proposed STP site are 26.899252, 75.762185
5.	5)	1.2 Location of Plant	Raw Sewage Pumping Station of 20 MLD Capacity comprising Diversion chamber, Connection of incoming sewer from existing channel to Receiving Chamber, Receiving Chamber, Coarse Screen Channels, Degritting Chamber, Wet Well along with Pumping Main at STP area.	Kindly provide the distance of the existing channel to receiving chamber.	Bidders are advised to visit the site & assess such data.
6.	6)	Running Hours of Sludge Dewatering Machine	The maximum running hours for the COTDM machine are mentioned as 12 Hours.	12 hours running of the COTDM machine is on the very lower side. COTDM machine should run for at least 20 hours a day. Please confirm your acceptance.	No change. As per Bid document.
Participant-2:					
7.	1)	Notice Inviting Bid	Completion Period of work: 18 months (for the construction phase followed by O&M for 120 months)	Please confirm the construction period.	Refer Sr. No. 1 of Addendum-1.

Ans

Sr. NO.	ISSUE NO.	CLAUSE NO. CHAPTER NO.	AS PER TENDER DOCUMENT	PARTICIPANT'S QUERY	RESPONSE/ CLARIFICATIONS
		Volume-II Scope of Work & Technical Specifications, Clause : 2.14 Contract Period, Page 214	Construction Period: 24 months (including Monsoon)		
8.	2)	Volume-II Scope of Work & Technical Specifications, Clause : 2.3 Detailed Scope of Work, Page 184	2.3.1 Design Basis Peak Factor = 1.5	Considering Average Flow of 20 MLD ; the corresponding population is approximately 1.5 Lacs. As per CPHEEO manual 2013, Chapter 3, Page 3-3, Table 3.2, peak factor for population above 50,001 upto 7,50,000 is 2.25. The peak factor mentioned in tender is 1.5. We understand that the mentioned peak factor is correct, and that the duration of peak flow would be 3 hours in morning and 3 hours in evening. Please confirm.	Confirmed.
9.	3)	Volume-II Scope of Work & Technical Specifications, Clause : 2. Coarse Screen Channels, Page 186	Min. two mechanical screen working and one mechanical screen standby of 20 mm clear spacing and each screen shall be provided of 50% peak flow capacity.	Considering the capacity of STP proposed in the tender i.e., 20 MLD along with peak factor of 1.5, we feel that Min. one Mechanical Coarse / Fine Screens (Working) and one Mechanical Coarse /	Refer Sr. No. 5 of Addendum-1.

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Sr. NO.	ISSUE NO.	CLAUSE NO. CHAPTER NO.	AS PER TENDER DOCUMENT	PARTICIPANT'S QUERY	RESPONSE/ CLARIFICATIONS
		Volume-II Scope of Work & Technical Specifications, Clause : 1.2 Fine Screen Channel , Page 189	Min. two Mechanical Fine Screens (Working) and one Mechanical Fine screen (standby) shall be provided in fine screen channels.	Fine screen (100 % standby) are sufficient for the required pre-treatment of sewage. Please confirm.	
10.	4)	Volume-II Scope of Work & Technical Specifications, Clause: 2.2 Process Design, Page 191 8. Drawings, Page 540	Minimum 4 Nos. of SBR Basins with adequate volume shall be provided. Plant Layout: 2 SBR Basins are shown	Considering the site layout and capacity of STP i.e 20 MLD, we understand that Minimum 2 Nos. of SBR Basins with adequate volume shall be provided. Please confirm.	Refer Sr. No. 4 of Addendum-1.
11.	5)	Volume-II Scope of Work & Technical Specifications, Clause: 5.7 Roads, Pathways & Vehicular Parking Area, Page 201 Volume-II Scope of Work & Technical Specifications, Clause : 1.14 Roads and Pathways Page 233	All Roads shall be minimum 3.75 m wide of bitumen with RCC kerb stone & drain on both side of 350 mm RCC pipe of class NP-3 with manhole at suitable intervals. 1.14.1 All roads shall be of asphalt macadam and minimum 5 metres wide. Vehicular access shall be provided for all Plant structures and buildings.	We understand that Clause 5.7, Roads, Pathways & Vehicular Parking Area, Page 201 needs to be followed for road width. Please confirm.	Refer Sr. No. 3 of Addendum-1.

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Sr. NO.	ISSUE NO.	CLAUSE NO. CHAPTER NO.	AS PER TENDER DOCUMENT	PARTICIPANT'S QUERY	RESPONSE/ CLARIFICATIONS
Participant-3:					
12.	1)	Schedule & Specifications, page 7	Completion period of Design Built work: 18 months	Schedule F: Time of completion: The work should start by date of commencement as mentioned in Work order and complete within 24 months for the construction phase followed by O&M 120 months. (Pg No. 8) Section-2: General Conditions of Contract : Time allowed for the completion of work (to be reckoned from the 15th day after the date of written order to commence the work) is 24 Months. (Pg No. 75) Please confirm the completion period of Design built works.	Refer Sr. No. 1 of Addendum-1.
13.	2)	Volume-II Scope of works & Technical Specifications, page 183	Clause-2.2 (B) Flow measurement Bidder shall provide ultrasonic flow meter on common header of raw sewage pumping transfer pumps in order to measure the flow. Flow measurement before the distribution box for SBR shall also be measured through parshall flume fitted with suitable sensors.	As per understanding, bidder can opt for flow measurement either at common header of Raw sewage transfer pumps or at Parshall flume before splitter box. Since placing two flow measuring devices only at	Refer Sr. No. 6 of Addendum-1.

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				Primary treatment unit will be inefficient. Kindly Confirm.	
14.	3)	Volume-II Scope of works & Technical Specifications, page 186 & 189	2 Mechanical (Working) + 1 Mechanical (Standby) each of 50% Peak Flow capacity	Since two working and one standby screens are mentioned in tender, we suggest one working and one standby screen both designed at peak flow. Since with smaller capacity of STP, single channel at peak flow will be easy to operate and maintain as compared to channel at 50% peak flow (width of channel will decrease). Kindly confirm.	Refer Sr. No. 5 of Addendum-1.
15.	4)	Volume-II Scope of works & Technical Specifications, page 187	Raw Sewage transfer pumps: Flow : 420 m3/hr with Suitable Head (3 working + 3 Standby)	Since the provided flow for Raw sewage transfer pumps are not inclusive of recycle flow from COTDM machine, the bidder should be allowed to choose the combination of pumps with capacity as per final Process design in adherence to 4.5.4 (Chapter-4, CPHEEO manual). Kindly confirm.	Capacity of raw sewage transfer pump given in tender is minimum and can be finalized as per process design however, quantity shall be (3 working + 3 Standby).
16.	5)	Volume-II Scope of works & Technical	2.0 Sequential Batch reactor (SBR) Units	Minimum 2 Nos of SBR basin will suffice the requirement of	Refer Sr. No. 4 of Addendum-1.

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Sr. NO.	ISSUE NO.	CLAUSE NO. CHAPTER NO.	AS PER TENDER DOCUMENT	PARTICIPANT'S QUERY	RESPONSE/ CLARIFICATIONS
		Specifications, page 191	Minimum 4 Nos. of SBR Basins with adequate volume shall be provided. In addition, 0.50 m Free Board shall be provided to each Basin.	20 MLD STP at Sushilpura, Jaipur Pg No. 540, tentative plant layout of Sushilpura STP also indicates 2 Nos SBR basins. Kindly confirm.	
17.	6)	Volume-II Scope of works & Technical Specifications, page 197 & 198	COTDM feed sump & pump house: Hydraulic Retention Time: 24 hrs. min. of Average Daily Sludge Production COTDM & COTDM House: Nos. of COTDM MACHINES Working as per requirement + Min. 50% Standby Maximum Operation Hours per day 12 hours (6 days a week)	1 Nos working COTDM and 1 Nos Standby COTDM to be provided. Please confirm. For above provided combination of COTDM machines (7 days working, 12 hrs./day), the COTDM feed sump can be reduced to a HRT of 12 hours instead of 24 hours as complete standby COTDM is provided (Retention of sludge for 24 hours will create nuisance). Kindly confirm.	No change. As per Bid document. Minimum 2 no COTDM machines (1 working + 1 standby) of similar capacity shall be provided. Refer Sr. No. 7 of Addendum-1.
18.	7)	Guidelines for break-up (B-1), page 575	1 Civil Works 45 to 50% 2 Inter connecting piping works 5 to 7% 3 Mechanical works, 23 to 30% 4 Electrical works 9 to 13% 5 Instrumentation 3 to 5%	RUIDP & RUDESICO tenders for EPC works, Design & drawings are also considered as a part of billing break-up, 2 to 5 % shall be considered as a payment break-up for Process design & drawings. Kindly confirm.	No change. As per Bid document.

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			6 Trial run, Testing & commissioning of entire plant etc. complete 5% Total 100%		
19.	8)	Preamble to Price Schedule, page 573	The Bidder shall include in his Price Bid, Trade Tax, Income Tax, GST, any surcharge and all other Central Govt. and State Govt. Taxes and Duties as applicable; Any payment will not be reimbursed for any new Tax or any increase in Tax during execution of the Works.	Since the GST regulations or any surcharge to be levied by Central or State government are not in the reach of contractor, we suggest to freeze the taxes inclusive which were implied till the date of submission of bid. Any other tax introduced or increased after bid submission will be paid separately to the bidder during execution.	No change. As per Bid document.
20.	9)	Volume-II Scope of works & Technical Specifications, page 202	However, at one side of plot along the army cantonment area, height of wall should be around 4.00 m or as suggested by defense officials from finished ground level & top of wall shall be of barbed wire fencing (GI wire gauge 18).	During site visit, it was observed that boundary wall already exist towards army cantonment area with varied heights. Kindly confirm if that boundary needs to be repaired or completely new boundary has to be constructed.	No change. As per Bid document.

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Notes:-

1. Bid clarifications are just the explanation of the bid condition and do not form part of the bid documents. Only Addendum issued in this regard shall be treated as integral part of the bid documents and contractor agreement thereof.
2. Bidders please note carefully that all stamp papers to be used shall be of Rajasthan government only.
3. The original Bank Guarantees required to be submitted shall be in the prescribed format. No change in the format of BG shall be acceptable.
4. All the documents, annexures, affidavits, undertakings, etc. must be duly signed & stamped by the bidder. All the documents including the bid document along with addendums, copy of Bank Guarantee shall be uploaded.


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