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Government of Rajasthan
Rajasthan Urban Sector Development Program



BIDDING DOCUMENT

for the

Procurement

of

Construction of Work of Water Supply Distribution Network Improvement with house service connections for Non Revenue Water reduction and continuous water supply and providing Sewer Network with house connections, construction of Sewage Treatment Plant & allied works and Operation services of the entire system for 10 years at Tonk

Under International Competitive Bidding

(Following ADB's single stage two envelope bidding procedure)

Part 1– Technical Bid –Volume 1

Issued on: 24 March, 2015

Invitation for Bids No.: RUSDP/ICB/01

ICB No.: RUSDP/Tonk/01

Employer: Local Self Government Department, GoR
Represented by Rajasthan Urban Infrastructure Development Project (RUIDP)

Country: India

Component	Study	Design	Rehab	Build	Operate	Maintain (minor/major)
and other sewers						
Pumping Main	Yes	Yes	No	Yes	Yes	Yes
House Service Connections up to property chamber	Yes	Yes	No	Yes	Yes	Yes
Customer Service Centers (common for water supply and sewerage)	Yes	Yes	No	Yes	Yes	Yes
Management Information System	Yes	Yes	No	Yes	Yes	Yes
bill generation and delivering (common for water supply and sewerage)	Yes	Yes	No	Yes	Yes	Yes

Q. Important Milestone and Key Time periods under Contract

49. Important milestone and key time periods as per the terms of Contract are given in Table 5

Table 5: Milestone and Key Time Periods

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event start of	Activities
1	Mobilisation	30	Contract signing	As per para 51
2	Preparation and approval of Service Improvement Plan (SIP)	180	Contract signing	As per para 52
3	SIP Implementation	1095	approval of SIP in part or full	Design, Construction, testing, commissioning and completion of all works as per milestones to deliver water and sewerage

Section 6 – Employer's Requirements

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event start of	Activities
				services
Water supply works:				
4	Distribution Network including house service connections in 3 DMAs	210	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of distribution networks including giving house service connections
5	Distribution Network including house service connections in additional 3 DMAs (total 6 DMAs)	360	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of distribution networks including giving house service connections
6	Supply, installation and commissioning of pumping units including electrical installations	450	Approval of relevant component of SIP	Four pumps are installed in the pump house to be constructed by PHED (PHED to construct pumphouse)
7	Construction of two SRs and connected feeder mains	450	Approval of relevant component of SIP	Two ESRs completed. Supplying, laying, jointing, testing and commissioning of feeder mains completed
8	Construction of two SRs and connected feeder mains	630	Approval of SIP in part or full	Two ESRs completed. Supplying, laying, jointing, testing and commissioning of feeder mains completed

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Section 6 – Employer's Requirements

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event start of	Activities
9	Distribution Network including house service connections in DMA of non sewerage area	540	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of distribution networks including giving house service connections
10	Distribution Network including house service connections in 30% of total DMAs	720	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of distribution networks including giving house service connections
11	Distribution Network including house service connections in 60% of total DMAs	870	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of distribution networks including giving house service connections
12	Distribution Network including house service connections in all finalised DMAs	990	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of distribution networks including giving house service connections
13	Completion of entire water supply works including taking over the PHED works, preparation of as built drawing etc	1095	Approval of SIP in part or full	4 pumps installed, 4 new SRs constructed, connecting feeder mains completed, distribution network including house service connections completed and commissioned,

Section 6 – Employer's Requirements

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event start of	Activities
				completion of all other works included in SIP, taking over of PHED works
Sewerage services				
14	Construction of STP Zone 2 (Dhaulakhera 4 MLD) and connected Outfall and main sewers (size 250 mm and above)	450	Approval of relevant component of SIP	STP at Dhaulakhera completed, electrical mechanical works installed and tested. Supplying, laying, jointing, testing and commissioning of outfall and main sewers etc of size 250 mm and above
15	Construction of STP No. 1 (Molaipura 16 MLD) and connected pumping main	540	Approval of relevant component of SIP	STP at Molaipura completed, electrical mechanical works are installed and tested. Supplying, laying, jointing, testing and commissioning of pumping main from SPS to STP
16	Construction of SPS and connected trunk sewers, main sewers etc (upto size 250 mm and above)	540	Approval of relevant component of SIP	SPS completed, electrical mechanical works are installed and tested. Supplying, laying, jointing, testing and commissioning of Trunk Sewers all size upto size 250 mm and above completed
17	Sewerage	720	Approval of	Supply, laying, jointing,

Section 6 – Employer's Requirements

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event of start	Activities
	Collection Network including pipes upto property chamber in entire area of S No. 10 of this table and connecting with main sewers to make it functional		SIP in part or full	testing and commissioning of sewage collection networks and connecting with main sewers to reach to STP and make functional including property chamber and pipes upto property chamber
18	Sewerage Collection Network including pipes upto property chamber in area of S No. 11 of this table and connecting with main sewers to make it functional	870	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of sewage collection networks and connecting with main sewers to reach to STP and make functional including property chamber and pipes upto property chamber to complete entire collection network
19	Sewerage Collection Network including pipes upto property chamber in area of S No. 12 of this table and connecting with main sewers to	990	Approval of SIP in part or full	Supply, laying, jointing, testing and commissioning of sewage collection networks and connecting with main sewers to reach to STP and make functional including property chamber and pipes upto property chamber

Section 6 – Employer's Requirements

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event of start	Activities
	make it functional			
20	Completion of entire sewerage works and preparation of as built drawing etc	1095	Approval of SIP in part or full	Completion of entire system and making the system fully functional
Operation Service delivery				
21	Operation and maintenance of each DMA/ zone/ subzone/ area	upto contract completion date	from the date of initial takeover or commissioning of zone	O&M of assets, water supply and sewerage service provision as per performance criteria in each zone, meter reading, billing, collection etc for the commissioned and taken over scope of work
22	Operation and maintenance of entire system as per scope of work	3650 days	from the date of final takeover	O&M of system from Dhaulakhera CWR to consumer in water supply sector and entire sewerage works including collection from household to treatment at STP including meter reading, billing and collection system etc. In case PHED system is not completed by that time, System created by RUIDP will be maintained only.

S.No.	Sectional Milestone	Time from stipulated date of contract start(days)	Event of start	Activities
23	Handing over back to Employer	30 days	30 days before End of O&M period	Joint verification of assets, Issuance of O&M period completion certificate and Joint signing of Handing Over document

Note: To the extent possible, water supply pipeline and distribution system and sewerage collection system including house connections on a particular road will be laid simultaneously. Water supply distribution network will be largely synchronized with sewerage works during execution.

R. Phasing of Contract

50. The Contract is divided into two phases (i. design & build ii. Operation services) spread over the contract period; from the stipulated date of Contract Commencement up to the Contract Completion Date.

- I. mobilization, preparatory and construction period as per approved service improvement plan and
- II. Operation, Maintenance, Manage, Repairs and Service Delivery Period during the contract period as per the sectional completion of work from initial takeover date (in case of sectional completion), till contract period.

I. Mobilization Period

51. 30 days is mobilization period. During mobilization period contractor is required to:

- Establish a furnished project office in Tonk city limit
- Employ the staff required for starting the preparatory work
- Mobilise the survey teams
- Provide the computer hardware, software required for, GIS based maps preparation, hydraulic modeling, project management etc. along with connectivity
- Establish furnished Engineer's office