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Rajasthan Urban Infrastructure Development Project

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No. F3 (201) (36)/RUIDP/PMU/PH-IVTC/5.5-57

Date: 12/03/2015

Minutes of 1<sup>st</sup> Meeting of Technical Committee held on 20/03/2015 for Rajasthan Urban Sector Development Program - RUSDP (RUIDP Phase-III)

1. 1<sup>st</sup> meeting of the Technical Committee of Rajasthan Urban Sector Development Program (RUSDP) was held on 20.03.2015 under the chairmanship of Additional Project Director, RUIDP in the meeting hall of RUIDP, Jaipur. List of participants who attended the meeting is enclosed at Annexure 'A'.
2. At the onset of the meeting, Addl. Project Director, RUIDP welcomed all the participants and briefed the Project scope. It was apprised that Government of Rajasthan approved a Project cum Program Loan of US\$500 million from ADB under RUIDP Phase III. Under project loan of US\$250 million (with project costs of US\$360 million including State counterpart of US\$110million), Water management works (water supply, sewerage, recycling of treated water etc) in six cities namely Sri-Ganganagar, Hanumangarh, Jhunjhunu, Pali, Bhilwara, Tonk will be executed. Policy based Program loan of \$250 million will support policy reforms and give impetus to urban development in the state.
3. Works under Water supply sector will include (a) distribution network improvement on District Metering Area (DMA) basis for Non Revenue Water (NRW) reduction for continuous water supply; (b) distribution network system in uncovered areas (c) house service connections and; (d) efficiency improvement in water supply through, reduction of NRW etc to cover 100% urban population. Works under sewerage sector will include (a) laying of sewerage network (b) property connections upto property chamber; (c) construction of sewage treatment plants and pumping stations and; (d) provision of reuse of treated sewage water. Sewer system will cover entire technically feasible and viable areas etc.
4. Both the agenda item were discussed in detail. Following deliberations and decision were made in the meeting:

**4.1 Agenda Item No 1: Technical Sanction for 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:**

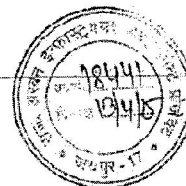
Agenda Item was discussed in detail including need of subproject; existing status and service levels on water supply and sewerage services in the town; scope of work proposed under the project; design criteria followed; pipe material adopted and; specification for various items of works; basis of estimates; Abstract of cost estimates etc.

Addl. Chief Engineer, PWD suggested to include Cement Concrete Road construction in grade M-30 Cement Concrete instead of RUIDP proposal of M-25 which was agreed for both the towns.

After detailed discussions, following works are approved for Tonk city.

**A. Water Supply**

- Construction of 4 ESRs (Annapurna Dongri, Ramdwara, Bisalpur colony, Solangpura).
- Supply and Installation of pumps for Two (2) nos. feeder main at RHB Headworks.
- Supply, Laying, Jointing and commissioning of transmission mains of DI pipeline in about 11kms length
- Distribution Network Improvement works on DMA basis for reduction of NRW in entire city. This includes replacement of existing old worn-out/ undersized, AC/ PVC pipeline and extension of distribution system to uncovered areas using HDPE / DI K-7 pipes (approx. length 425 Km).
- Metered House service connections for all consumers to cover 100% population (about 31,000)
- Instrumentation and control system with SCADA system for efficient operation of the entire water supply system including control of PHED installations.



#### B. Sewerage

- Providing sewerage collection network in approximate length of 250 Km in city area. This will cover 75-80 % population of the city. Areas where ever the residential layouts are scarcely distributed with low density of population are not considered.
- Providing House Sewer Connections upto property chamber (about 24,000 numbers).
- Construction of one Intermediate Sewage pumping station (SPS) for zone 1 at Bikapura (IHSDP scheme) to collect the sewage of zone 1 through gravity and further pumping it to proposed STP at Molaipura.
- Sewage pumping main of 700 mm dia DI-K9 pipe in about 4 Kms length from Intermediate SPS to STP zone 1.
- Construction of 2 nos. STP (Sewage Treatment Plant), one for zone 1 of capacity 16 MLD at Molaipura and another for zone 2 of capacity 4 MLD at Suran to cater 2031 requirement.
- Provision of 7.5 Km DI K-7 pipes (400 mm-2.5 Km, 700mm- 5.0 Km) for disposal of treated effluent to potential user/ in River/ adjoining nallaha.

#### C. Operation and Maintenance services for 10 years;

- Contract will have provision of long term (10 years) Operation and maintenance services.
- Provision is kept for sectional completion. Each section, on completion, will be put to service as soon as it is commissioned. Under water Supply Sector, O&M scope will be from Dhaualkhera CWR to consumer meters. It will include operation of pumps from Dhaualkhera CWR; RHB CWR; all the transmission and distribution pipelines; meter reading, billing and revenue collection, grievance redressal, house service connections and disconnection etc. In Sewerage Sector, O & M scope will include entire sewerage network, STP & SPS, pumping main, effluent pipe etc (assets constructed under this project), grievance redressal, house service connections and disconnection etc. The battery limit shall start from the property chamber outside the property boundary & up to STP. Costs of O&M services is estimated to Rs. 63.00 Crores
- Contract will be a performance based management contract.

**Table 1: Abstract of Costs of Tonk Package**

S.No	Work Description	Estimated Cost
1.0	<b>Water Supply</b>	
	Supply and installation of pumps; Water transmission Mains with DI k-9 pipe for a length of about 11 kms; Replacement/ Extension of Distribution Network in a length of about 425 kms; and House Service Connections;	Rs. 112.00 Crores
2.0	<b>Sewerage system</b>	
	Providing sewerage network in a approximate length of 250 Kms; Construction of one sewage pumping station (SPS); Construction of 2 Sewage Treatment Plant (STPs) of capacity 16 MLD and 4 MLD and House Sewer Connections.	Rs. 240.00 Crores
3.0	<b>Operation and Maintenance services</b>	
	Operation and Maintenance of entire system from date of sectional takeover till 10 years of Design Build completion period	Rs. 63.00 Crores
	<b>Total costs</b>	<b>Rs. 415.0 Crores</b>
	Add 15% for costs of tender premium; physical and price contingency; and price adjustment during construction period etc	62.50
	<b>Total costs for Technical Sanction</b>	<b>Rs. 477.50 Crores</b>

**4.2 Agenda Item No 2: Technical Sanction for 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 Pali:**

It was informed to the committee that works proposed by CLC, Pali are split into 2 Phases: (i) Phase I will include works of distribution network improvement including laying of distribution network in new areas (areas presently not covered with piped network) and house service connections etc (ii) Phase II will include other works mainly related to water production, treatment and storage etc. It was also informed to the committee that Phase II works also may be proposed under RUIDP phase III subject to availability of funds.

Adcl. Chief Engineer, PHED suggested that laying of distribution network in new areas should be considered only after phase II works related to water production, treatment and storage are ensured by RUIDP or PHED. This suggestion was agreed and TC directed to include this provision in the bid document.

After detailed discussions, following works are approved for Pali city:

**A. Water Supply**

- Replacement of Existing old/ worn out AC & PVC Clear Water transmission Mains with DI K-9 pipe for a length of about 22 km to fill ESRs.
- Replacement of Existing Distribution Network with all old worn out /undersized AC/PVC /HDPE distribution pipe line in a length of about 540 kms
- Providing Distribution Network in uncovered areas with HDPE/DI pipe, subject to availability of required quantity of water.
- Providing metered Service Connections about 50,000.

**B. Sewerage**

- Providing sewerage network in areas not covered under the existing sewerage works under UIDSSMT scheme in a approximate length of 300 Kms. Decentralised sewage treatment system may be considered in future for scarcely populated or areas which are non feasible to be connected to the central piped sewerage system based on detailed project report.
- Construction of additional Sewage Treatment Plant (STP) of capacity 15 MLD at Mandia Road to cover design population upto year 2031.
- Construction of one sewage pumping station (SPS).
- Providing House Sewer Connections to about 50,000 households. House service connection scope will be including property chamber to be constructed outside the property boundary.

**C. Operation and Maintenance services for 10 years:**

- Contract will have provision of long term (10 years) Operation and maintenance services.
- Provision is kept for sectional completion. Each section, on completion will be put to service as soon as it is commissioned. Under water supply sector, O&M scope will include distribution system; meter reading, billing and revenue collection, grievance redressal, service connections and disconnection etc. In sewerage sector, O&M of system from the property chamber outside the property boundary & upto STP (assets constructed under this project). The scope of O & M shall however also include the O & M of the existing outfall sewer varying in dia from 700 mm to 1400 mm already laid under UIDSSMT scheme.
- Contract will be a performance based management contract.

Table 2: Abstract of Costs of Pali Package

S.N.	Work Description	Estimated costs
1.0	<b>Water Supply</b>	
	Replacement of Existing Water transmission Mains with DI k-9 pipe for a length of about 22 kms; Replacement of Existing Distribution Network with HDPE/DI pipe in a length of about 543 kms; Distribution Network in uncovered areas with HDPE/DI pipe and Metered Consumer Service Connections	189.85 Crores
2.0	<b>Sewerage system</b>	
	Providing sewerage network in approximate length of 300 Kms; Construction of one sewage pumping station (SPS); Construction of Sewage Treatment Plant (STP) of capacity 15 MLD at Mandia Road and House Sewer Connections to connect about 43,000 houses.	243.42 crores
3.0	<b>Operation and Maintenance services</b>	
	Operation and Maintenance of entire system from date of sectional takeover till 10 years of Design Build completion period.	54.00 Crores
	<b>Total Estimated costs</b>	<b>487.37 Crores</b>
	Add 15% for costs of tender premium; physical and price contingency; and price adjustment during construction period etc.	73.10
	<b>Grand Total costs for Technical Sanction</b>	<b>560.47 Crores</b>

Meeting ended with vote of thanks to the Chair.

Encl. Annexure-A

(Ashok Chaudhary)  
Superintending Engineer, IV

No. F3 (201) (36)/RUIDP/PMU/Ph-III/TC/556-57

Date: 03/03/2015  
10/04

Copy to the following for information and necessary action:-

1. PA to Project Director, PMU, RUIDP
2. Addl. Project Director, RUIDP, Jaipur
3. Chief Engineer, Directorate of Local Bodies, Jaipur
4. Financial Advisor, RUIDP, Jaipur
5. Addl. Chief Engineer (Urban), PHED, Jaipur.
6. Additional. Chief Engineer PWD, Zone-I, Jaipur
7. ACE(T)/ SE(WS)/(WW)/SE (IV)
8. PIU, Incharge Tonk/Pali.

Superintending Engineer, IV

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जन स्वास्थ्य अभियानिको विभाग  
जिला खण्ड टोंक