

## DOCUMENT - 2

### \* FORMAT FOR RECORDING CONSULTATIONS

<b>District</b>	: Guntur	<b>Date</b>	: 13.06.2011
<b>Locality</b>	: Guntur Municipal Corporation and other locations of service reservoirs	<b>Time</b>	: 11:00 a.m to 02.00 p.m
<b>Municipality / Corporation</b>	: Guntur Municipal Corporation	<b>Venue</b>	: Municipal Corporation Conference Hall and other locations of service reservoirs
<b>Sub-project</b>	: Comprehensive water supply improvement project in Guntur	<b>Duration</b>	: 3.00 hrs.

### 1. Sub-project Description

As part of the initiative taken by the Commissioner & Directorate of Municipal Administration (CDMA), Government of Andhra Pradesh under the Andhra Pradesh Municipal Development Project (APMDP), a project on comprehensive planning of water supply improvement in Guntur Municipal Corporation (GMC) is in the process of detailed engineering studies. M/s. Aarvee Associates Architects Engineers & Consultants Pvt., Ltd., Hyderabad is providing the consultancy services for this project. With initiative and help from the Guntur Municipal Corporation (GMC), Consultant has given the presentation at Stakeholders Meeting twice at the GMC premises and other consultations at service reservoirs. The major objectives of the project are:

- Assessing the status of existing water supply system in Corporation area.
- Develop an action plan to improve the system performance immediately in the form of project interventions (immediate interventions, short term and long term interventions).
- Preparation of a draft Detailed Project Report (DPR) including preparation of social & environmental assessment and management framework.
- Preparation of Capacity Building and Action Plan.
- Financial Analysis

The details of the water supply improvement scheme proposed in Guntur Municipal Corporation area upto Feasibility stage and Concept plan is given for various project components are given below: ,

- **Sources of water and Intake structure:**

The major sources of water in GMC are 1. Vengalayapalem infiltration galleries, 2. Kommamuru canal, 3. Guntur canal and 4. Mangalagiri canal system. The intake structure is constructed near Undavalli village, which servers the ultimate water requirement of GMC upto 2041. The intake

structure is proposed adjacent to the intake at Undavalli village.

- **Water conductor system or Rising main:**

The new water conductor system is proposed parallel to the existing Guntur Canal system, which will pass through Undavalli intake to – Mangalagiri pumping station -Takkellapadu WTP.

- **Summer storage tank:**

There is one summer storage tank exists at Sangam Jagalamudi having capacity of 1840 ML and the proposed storage tank near Nallapadu with a capacity of 1080 ML to serve the surrounding villages of GMC.

- **Water Treatment Plants (WTPs):**

There are three WTPs are existing, two nos. at Takkellapadu – Old: 45 + New: 45 = 90 MLD and one at Sangam Jagalamudi – 27.3 MLD. The proposed WTP to be constructed near Takkellapadu with a capacity of 65 MLD (Year 2026) and 46.5 MLD (2041).

- **Elevated Service Level Reservoirs (ELSRs):**

There are 24 nos. Elevated Service Level Reservoirs (ELSRs) present and another 15 nos. of ELSRs will be proposed by considering the water supply demand upto 2041.

- **Distribution System:**

The distribution system will be partially replaced by new lines to meet the requirements for the year 2041. The entire town will be covered with distribution system by implementation of the proposed water supply improvement project.

## 2. Issues raised by the community and responses provided

S.No.	Key Issues Identified	Response by the Urban Local Body
1	<p><b>Technical issues:</b></p> <p>i) The proposed scheme shall be designed to meet the requirements of Year 2041 projected population. In this regards, stakeholder suggested to the consulting firm to work closely with the Corporation engineers for the design of the Detailed Project Report.</p> <p>ii) Explore the feasibility of sustainable water supply system by gravity.</p>	<p><b>Responses:</b></p> <p>i) Yes, the DPR is prepared in close coordination with the Corporation engineers.</p> <p>ii) Majority of the project is planned by gravity.</p>

	<p>iii) In old Guntur, the Existing water water pressure in the distribution system is inadequate. Due to inadequate pressures, the consumer needs to pump the water from sump to overhead tank</p> <p>iv) In old Guntur, the two service reservoirs were constructed in the year 1975 to meet the water supply demand. However, no additional reservoirs are constructed afterwards to meet the present demand.</p> <p>v) All the project components should be constructed with highest degree of quality norms.</p>	<p>iii) In the proposed improvement scheme, the distribution network system is designed to meet the minimum residual pressure head of 7.0 m. Hence, the water pressure problems in the GMC area will be solved.</p> <p>iv) Additional service reservoirs are proposed in the GMC area to meet the water demand of the projected population for the year 2041.</p> <p>v) The project is designed &amp; will be constructed with sound engineering techniques by considering national and international (World Bank) norms.</p>
2	<p><b>Social Issues:</b></p> <p>i) Stakeholders requested to increase the quantity of the water to be supplied in the Corporation area.</p> <p>ii) The residents of GMC are ready to pay the water supply charges of Rs. 200 per month, if GMC supplies quality and adequate quantity of water.</p> <p>iii) After allocation of the World Bank fund to the proposed water supply improvement scheme, the construction work should be carried out with sincere efforts as per the ground requirements of the project.</p>	<p><b>Responses:</b></p> <p>i) The proposed water supply improvement scheme is designed for 135 lpcd, which may solve the requirements of the GMC.</p> <p>ii) The proposed scheme is designed to meet the GMC requirements comprehensively with quality and quantity.</p> <p>iii) The GoAP and World Bank audit norms will be followed to spend the amount as per ground reality.</p>
3	<p><b>Environmental Issues:</b></p> <p>i) Chlorination is improper resulting in water pollution occurring in old Guntur area.</p> <p>ii) Replacement of the old pipelines, which are causing frequent pollution.</p> <p>iii) The majority of the GMC area is short of water supply pressures and the water is being polluted near drainage crossings in the GMC area. These two problems should be taken care off.</p>	<p><b>Responses:</b></p> <p>i) ULB officials promised and directed the concerned engineers to maintain adequate free residual Chlorine in the distribution end.</p> <p>ii) All the old pipelines will be replaced to arrest the frequent leakages, mitigate the water losses and pollution.</p> <p>iii) In proposed project such drainage crossings will be avoided</p>

### 3. Follow up Action Required

<b>Key Issue 1</b>	The water supply improvement scheme should be designed to meet the population demand of 2041.
<b>Key Issue 2</b>	The project shall be designed in close coordination with Corporation engineers.
<b>Key Issue 3</b>	Study the feasibility of sustainable water supply system by gravity.
<b>Key Issue 4</b>	The water pressure in the distribution system is to be maintained with minimum head of 7.0m
<b>Key Issue 5</b>	Additional Service Reservoirs to be constructed in the old Guntur to meet the present and future population demand.
<b>Key Issue 6</b>	All the highest degree of quality norms to be followed during the construction and operation of the project.
<b>Key Issue 7</b>	Willingness to pay the water supply charges for Rs. 200/- needs to be considered in financial and economic evaluation.
<b>Key Issue 8</b>	The residual Chlorine of minimum 0.2 ppm is to be maintained in the distribution end.
<b>Key Issue 9</b>	Replacement of old pipelines which are having frequent leakages in the distribution.
<b>Key Issue 10</b>	Water supply is polluted near drainage crossing shall be rectified immediately.

### 4. Follow up Action Taken

<b>Key Issue 1</b>	The scheme is designed to meet the population demand of 2041.
<b>Key Issue 2</b>	While designing the same procedures has been adopted.
<b>Key Issue 3</b>	As per the engineering design, a balancing reservoir with pumping arrangement is proposed near Undavalli to carry the raw water from River Krishna to Water Treatment Plant at Takkalapadu by gravity only.
<b>Key Issue 4</b>	The request is considered in the design.
<b>Key Issue 5</b>	The Service Reservoirs are proposed to be constructed to meet the year 2041 demand.
<b>Key Issue 6</b>	The national and World Bank quality norms will be followed during construction and operation phases of the project.
<b>Key Issue 7</b>	All the financial and economic analysis will consider the willingness to pay charges towards the water supply.
<b>Key Issue 8</b>	The same is considered and Commissioner directed all the engineers to do so.

<b>Key Issue 9</b>	The same will be considered and will be implemented under the proposed improvement scheme.
<b>Key Issue 10</b>	The water pollution problem in the cross drainage area will be rectified and the same will be avoided in the proposed scheme.