

**HYDERABAD METROPOLITAN WATER SUPPLY & SEWERAGE BOARD**



**EXPRESSION OF INTEREST**

**EOI.No.03/ HMWSSB/CGM (E)/TC/T3/NRW/Storage Reservoirs/Exp.Int/2016-17 dt: 14.10.2016.**

**Consultancy services for Conducting study on various storage reservoirs of HMWSSB for estimating NRW and proposing various methods for its Reduction”**

**Introduction**

The Drinking water is supplied to the twin cities and the surrounding Municipalities (GHMC area) through Six Sources i.e, Osmansagar, Himayatsagar, Manjira, Singur, Krishna and Godavari since 1920 in a phased manner. The treated water is about 355 MGD is transmitted through pipes of different sizes to the storage systems comprising of: (a) clear water reservoirs at water treatment plants (b) Master Balancing Reservoirs (c) Principal Distribution Reservoirs and Secondary Distribution Reservoirs. Out of 355 MGD the storage capacity of the total reservoirs is about 200 MG and the system consists transmitting water to Master balancing Reservoirs, Principal distribution reservoirs and secondary distribution reservoirs then to the consumers. The age of some of these reservoirs is more than 50 years. Now these reservoirs are observed leaking through side walls, floor slab resulting in increase of NRW which is about 10% amounts to approximately 35 MGD. Hence it is essential to arrest the leakages of the reservoirs through modern applications.

**Sd/-**

**CHIEF GENERAL MANAGER (ENGG)  
TRANSMISSION CIRCLE**

## I.SCOPE OF WORK

2.0 The scope of the services to be provided under this contract is:

HMWSSB is looking for consultancy services for the preparation of conducting study on various storage reservoirs of HMWSSB for estimating NRW and proposing various methods for its Reduction. The consultancy should execute conceptual planning and design aspects taking cognizance of the present and future requirements of the said selected reservoirs.

Some of the areas where the consultancy has to undertake studies and submit reports are

1. To Study all the Reservoirs located in the HMWSSB Jurisdiction.
2. Investigate the water leakages through Side walls and assess the quantity and remedies to rectify the leakages.
3. Investigate and study the leakages in reservoir Floor Slab and a solution to rectify the Floor Slab.
4. Investigate and study of seepage of water in foundation and pipeline at Inlet and outlet chambers.
5. Investigate and study of stability and strength of the side walls ,minor repairs / replacement etc
6. Investigate and study on structure stability and strength on existing slab, beams, Columns and recommend suitable suggestion for repair and strength to sustain the chlorine gas/ Liquid mix.
7. To study and propose various alternative procedures and suggesting the best procedure to undergo rectification without any shutdown to the existing water supply from the reservoirs.
8. To find out an economical solution for rectifying the leaks of the Reservoirs.

Interested firms/consultants must provide submit expression of Interest for the job which must be delivered to the office address not earlier than **22<sup>nd</sup> October 2016**

Sd/-

**CHIEF GENERAL MANAGER (ENGG)**  
TRANSMISSION CIRCLE.