



DELHI JAL BOARD, GOVT. OF NCT. OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER (WEST)-I
BERI WALA BAGH, SUBHASH NAGAR, NEW DELHI

NO. DJB/EE(WEST)-I/2016/

DATE :- 07-09-2016

EXPRESSION OF INTEREST (EOI) DOCUMENT

Delhi Jal Board, invites 'Expression of Interest' (EOI) from the consulting firms/agencies to provide consultancy services for the work of **Consultancy Services for carrying out Hydraulic Modelling of Khyala UGR and BPS.**

1. Background :-

khayala Underground Reservoir and Booster Pumping Station is more than 40 years old and was commissioned to cater the demand of large area of west Delhi including rural areas. With the increase in population and piecemeal development, infrastructure available is not sufficient for uniform distribution of water. As per TCE report the command area of this installation is re-defined spread over 10.5 Sq Km(Approx) having boundary within Inner in East, Outer Ring Roads in West, Nazafgarh Drain in the North & Nazafgarh Road in South. Approx. population is 3.5 lacs. Since more and more population is added inside the boundary mark for this installation, infrastructure/ water distribution was never upgraded as per designed parameters. There are large variations in availability of water in terms of pressure and duration at deferent locations in spite of having adequate water at the installation. Hence, a techno-economical study and its solution is the need of hour along with ascertaining the structural safety of the installation for equitable distribution of water under on the command of this UGR.

2. Objectives

The objective of the consultancy is to analyse the existing water supply network and to find out deficiency in the existing water supply network and to prepare detailed designing based on present and projected population, Cost estimation under the command of Khyala UGR & BPS (Phase-I & II) for equitable distribution of water at adequate pressure and quality. The main objective is to implement a sustainable water supply infrastructure. The proposed network should also be capable of continuous supplies.

1. Scope of work :-

The scope of services will include but not limited to the following.

- (a)** Assessment of structural condition of existing Khyala UGR/BPS, Efficiency, Head, Discharge of pumps installed and supply network.
- (b)** Establishment of Baseline Conditions through detailed study & reviewing of existing study reports. However the data, project, plan initiative under the reports need to be ascertained, condition assessment and physical evaluation of present water supply system based on optimal combination of field and secondary data, data from planning wing and local offices etc. Hydraulic networking for the existing water supply system to ascertain the system deficiency.
- (c)** Topography survey, Social survey of the area comprises of no. of properties, floors in each property, population of each house, status of water connection (exist, authorized or un authorized), and use of ground water.
- (d)** Identification of existing water network including sizes, material, depth, alignment, updating of GIS mapping record including location of Tee points and sluice valves etc.

- (e) The Consultant shall have access to and shall review the existing water supply transmission and distribution plans available in hard copy with the DJB. Much of the information on these plans has already been transferred to a GIS platform (ArcGIS) by DJB and can be used as a starting point for developing a comprehensive GIS for the command area.
- (f) In addition, the Consultant shall review existing design criteria, DJB booster stations operation records, groundwater usage records and all existing other relevant information, reports, data, documents, maps, policies, plans and records pertaining to scope of the Project.
- (g) Creation of DMA, Identifying the inlet and outlet points of DMAs and location of flow meters.
- (h) **Analysis:** The consultant shall determine the design and the demand rates based on appropriate projection technique. The designs shall be in compliance with the relevant Indian Standards (as amended up to date, with all correction slips), CPHEEO manual and followed after discussions with the Delhi Jal Board. Prepare network system / model with proper zoning using the updated information available & analysis of network model through using Water GEMS software program from the tasks above and the proposed strengthening measures through optimization and analysis of the model.
- (i) Prepare detailed estimate for strengthening of UGR and providing, laying of peripheral & distribution network and to submit in three sets with Soft copy.
- (j) Preparations of Drawings for network system.
- (k) Preparation of detailed project report and submit the same in three copies along with Soft Copy.

4. The total period for the consultancy assignment will be Two months.
5. **Following eligibility/qualification criteria will be used to shortlist the consultants.**
 - a) The applicants may be an independent single firm or in joint venture or in consortium with other firms.
 - b) In the EOI it must be clearly indicated/stated who the “Lead partner” is if it is a joint venture/consortium. The lead partner must possess similar experience and technical expertise in areas relating to this project.
6. Firms interested to be considered for short listing may intimate EE (West)-I. DJB in writing about their technical capabilities by providing the following, which will be used to shortlist the consultants.
 - a) List of similar assignments **completed** successfully with brief project description, relevancy, and information of cost of the services, cost of project, employer and funding agency. A certificate from the department be attached.
 - b) List of similar assignments **in progress** with brief project description relevancy, information of cost of the services, cost of project, employer and funding agency.
 - c) Strategies showing sustainable water management. The firms may be required to make a presentation.
 - d) Company profile and a list of relevant skills with the staff and indicative Curriculum Vitae.
 - e) Project delivery capability in India.
 - f) Company registration certificate/s and document/s
 - g) Latest Annual Report and audited accounts.

- h) Document/s clearly showing last three (3) year annual turn-over figures.
- i) Eligibility statement.

All above documents / certificates for the firm / and joint venture / consortium partners must be submitted in the EOI.

Only the firms having the required qualifications shall be considered for short listing. Only the short listed firms or association shall be invited to submit their detailed proposals for the consulting services.

Consulting firms barred from participating in any project funded by the Govt of India or any other international donor (i.e JICA, World bank, ADB, DFID) on the date of submission of their EOIs, will not be eligible to participate in this project. A declaration to that effect shall be furnished by applicants.

7. The complete proposal indicating the firm's interest in taking up the assignment with all relevant information as above copies of relevant documents for verification and full contact address shall be submitted in four hard copies and one soft copy at the address mention below on or before last date and time submission of EOI given in the Notice Inviting Expression of Interest for this work i.e **up to 3.00 P.M of 16 Sept 2016.**
8. No application shall be received after the deadline.
9. The expression of interest shall be submitted in a sealed cover, indicating therein "Expression of Interest for Delhi Jal Board, Govt of NCT of Delhi, for the work of **Consultancy Services for carrying out hydraulic modelling of Khyala UGR and BPS.**

10.DJB shall examine the proposal and evaluate them as per information and documents submitted by the consultants/firms to finalize the list of short listed consultants. However, DJB reserves the right to accept or reject any or all of the EOIs without assigning any reason whatsoever.

11.DJB shall not accept any explanation for any delay in transit or any reasons in receiving any EOI beyond the last date and time as mentioned in this invitation notice.

12.The expression of interest with all documents shall be send to

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(NARENDER KUMAR)
EXECUTIVE ENGINEER (WEST)-I

Copy to :-

1. P.A to CEO
2. Mem(WS)/CE(West)/Dir(F&A)/DOV/SE(W) along with one spare copy
3. EE(EDP) Cell – to upload on DJB official Website
4. AO(W)/Z.Es/AAO(W)-I/DM/Cashier(W)
5. PRO(W)to published in all the leading News Paper in India/Notice Board
6. DJB Contractor Welfare Association(Regd)Villa No. 36, block BA(Paschimi) Shalimar bagh, Delhi-110008

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