



DELHI JAL BOARD

NAME OF WORK –Expression of interest (EOI) for “**Performance Based Contract for Leakage Detection and Reduction**”

(Revision 1)

Executive Engineer (Project)W-I
DELHI JAL BOARD
Room No.511, Varunalaya Phase-I
Jhandewalan, Karol Bagh
New Delhi – 110 005

DELHI JAL BOARD; GOVT. OF NCT DELHI
OFFICE OF THE EXECUTIVE ENGINEER (PROJECT) W – I
ROOM NO.511; VARUNALAYA PHASE-I: KAROL BAGH,
NEW DELHI-05

No: F.2 ()/E.E (Project) W-I/2016/

Dated:

EXPRESSION OF INTREST (EOI)

On behalf of DJB, EE (Project) W-I invites Expression of Interest (EOI) for **“Performance Based Contract for Leakage Detection and Reduction”**.

Last date & time for download : 11.04.2017 at (2.45 PM)
Date of pre-bid meeting : NA
Last date and time for submission of EOI : 11.04.2017 at (3:00PM)
Date/Time opening of EOI : 11.04.2017 at (3:05PM)

EOI document may be downloaded from DJB website <http://www.delhijalboard.nic.in>.

EE (Project) W-I

Copy to:-

1. Vice Chairman, DJB-for kind information pl.
2. Secy to CEO / Mem.(A) / Mem.(F) / Mem.(WS) / Mem.(Dr.) /Addl. CEO / CVO. for kind information.
3. C.E.(Projects)W/East/Central/South/West/Planning
4. Dir. (F&A)/S.E (Project) W-I/II/(P)W
5. Jt. Director F&A,I-II,/ AO (Proj.)/AAO. (Proj).

EE (Project) W-I

DELHI JAL BOARD

OFFICE OF THE EXECUTIVE ENGINEER (PROJECT) W-I
VARUNALAYA, PHASE-I, JHANDEWALAN, NEW DELHI- 110005

EXPRESSION OF INTREST (EOI) Performance Based Contract for Leakage Detection and Reduction

Delhi Jal Board invites Expression of Interest (EOI) for the work of “**Performance Based Contract for Leakage Detection and Reduction**”.

Background:

DJB is supplying potable water to the large population of NCT of Delhi and is committed to supply potable water to each and every household of Delhi. DJB's Water Treatment facilities treat around 900 MGD water daily and is distributed through approx. 14000 Kms of transmission and distribution network. The water supply system has leakages of several kinds both visible and invisible in nature. Most of the leakages are hidden in nature and locating them is a big challenge, which involves great deal of effort, time and labour, and many times it is not possible owing to several constraints. Several methods are available to detect these leakages like acoustic, smart ball, infrared radiation, and through Helium gas etc. In its efforts to provide efficient and reliable water supply in the city, DJB has initiated water supply pipeline leakage detection and reduction program to reduce physical loss of water through networks.

In order to improve overall efficiency and reduce NRW; DJB has already given 3 pilot projects namely Nangloi WTP Command Area, Malviya Nagar UGR Command Area, Mehrauli – Vasant Vihar Area on PPP basis. Additionally 2 projects are underway covering Chandrawal and Wazirabad WTP Command Areas.

Remaining area is proposed to be covered under Leakage Detection and Reduction Project in phased manner. Initially, selective small DMA areas or UGR command areas as identified by DJB (Leakage Detection Pilot Project Area) will be considered as Pilot Project under this proposal and after evaluation of performance, this project will be spread out to cover the remaining area.

Pipeline Leaks if gone un-noticed for long time become one of the major reasons for physical loss of water, The focus of current work is to identify the visible/Invisible leaks and repairs thereafter in order to reduce physical Water Loss.

Tasks:

Following tasks are envisaged at this stage, however, bidder shall submit the detailed methodology and timeline for the activity.

- (i) Survey of Project area, study and verification of isolation of network areas, suggest improvements/modifications if necessary.
- (ii) Baseline 30-day measurement of inflow volume, estimation of metered /unmetered /unauthorized /illegal consumption volume and logging of 24 hour pressure variation at inlets and across project area prior to starting any activities.
- (iii) Pressure measurement and finalizing suitable leakage reduction strategy followed by leak detection surveys (using any or all kind of equipment and technologies). Submission of Leakage Detection Plan for DMAs.
- (iv) Leakage Detection Work: Identification of leakages in the water supply system including house service connections upto meter. Propose repair/replacement of pipelines and service connections wherever required in order to reduce water loss.(Note: Success rate for leak detection should be minimum 75% i.e. %age of leakage point suggested and actual leakage found should be minimum 75%. In case success rate is less than 75%, expenditure done by DJB on waste full pits / pit excavated but no leakage found, will be recoverable from the agency.)**
- (v) Monthly leakage detection and repair report,
- (vi) Continuous monitoring of flow and pressure and weekly summary of flow and pressure statistical report and Bimonthly Consumption and Water Loss Report.

Timeline:

Duration for survey, pressure loggers' installation and baseline establishment is 3 months which may be completed earlier also. Duration of pilot study and work is 24 months after baseline freezing. Intermediate project assessment will be done after 9 months (3 months establishment period + 6 months execution period).

Payments:

These Services will be remunerated by DJB:

- (i) Monthly Performance based fee – Part payment shall be released in ratio of water loss percentage reduced and retained over study period. Pressure may increase during the project period; however the performance fee shall not change. Payment based on reduced NRW shall be released monthly till project period.

(ii) Incentive fee per detected illegal connection

These are all-inclusive payments for water loss detection works. Combined these two items cover all fixed cost, overheads, profits, manpower, machinery, equipment, transport as well as all materials and works required to carry out all leakage detection activities that might become necessary to achieve the objective of the contract.

Interim Advance payment: Interim advance payment for per km length of water line surveyed not exceeding Rs 10000/ km(Ten thousands) will be made for first round of Leakage Detection Survey subject to adjustment in 1st cycle NRW bill payments. No advance after 1st round survey.

Invitation for EOI:

- Expression of Interest therefore, is called for Performance based Contract for Leakage Detection and Reduction.

The applicants may be an independent single firm or in joint venture or in consortium with other firms. 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.

Documents to be submitted:

Firms interested to be considered for short listing may intimate EE P (W)-I, DJB in writing about their technical capabilities. Following documents shall be enclosed with EOI, which will be used for short listing.

- 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. The agency should have done LEAK DETECTION work at least for the city having population more than 10 lacs or network of 1000 Km.
- b) List of similar works/ assignments in progress with brief project description relevancy, information of cost of the services, cost of project, employer and funding agency.
- c) Strategies and feasible methods for current project. 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 turnover 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 shortlisted firms or association shall be invited to submit their detailed proposals.

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.

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.

No application shall be received after the deadline.

Pre Bid Meeting/Visit/Communication

Pre Bid Meeting already held. Prospective applicants may visit the office of the Authority to review the available documents and data at any time prior to last date of receipt of EOI. The contact person for this purpose shall be:

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Submission of EOI:

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 **Performance Based Contract for Leakage Detection and Reduction**. The soft copy of EOI may be mailed to ee1.djb@gmail.com. & se.pwater@yahoo.co.in.

DJB shall examine the proposal and evaluate them as per information and documents submitted by the 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.

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.

The expression of interest with all documents shall be sent to

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