

BRIHANMUMBAI MUNICIPAL CORPORATION

(Water Supply Projects)

ChE/WSP/P/ 3557 dtd. 09.01.2023

INVITATION FOR BIDS

1. The Municipal Commissioner for and on behalf of BRIHANMUMBAI MUNICIPAL CORPORATION (BMC) invites e-tenders on item rate basis consisting of three packets (Technical i.e. packet A & B and Price Packet C) for providing “Consultancy Services for Feasibility Study of integrating Potable Water (produced from seven Waste Water Treatment Facilities) with water supply system of Mumbai City” for the following scope under National / International Competitive Bidding from reputed consultancy firms who meet the eligibility requirements and possess the technical & financial capabilities mentioned in the bidding documents.

The scope of the consultancy work includes following but not limiting to:

The scope of the assignment separately for each of the WWTFs is as follows. However, the consultant should also determine feasibility of an integrated and holistic solution covering multiple WWTFs under the scope :

A) Integration of potable water produced from each WWTF with BMC’s water supply system :

- i. Study of volume and time wise availability of produced treated water from proposed WWTF, land required for further treatment of this water upto direct potable standards.
- ii. Data Collection of existing water supply system around WWTF.
- iii. Detailed Hydraulic study of the water supply system / network around WWTF. Understand it’s zoning, supply hours, pressures, problems, supply pattern, identify the capacity of mains / distributaries /system to accommodate proposed produced potable water.
- iv. Design of integration system by modifying distribution system/ laying new pipeline as required, valves, related appurtenant structures. Design of pressure, volume & time of the injection / integration of produced potable water, accordingly design of pumping station for integration, area requirements of the system. The entire system shall be

designed to achieve efficient and hassle-free integration of entire volume of the produced potable water from WWTF with existing water supply system of the area around WWTF.

- v. Study & suggest the changes in supply hours, study the hydraulic impact of the integration of the produced potable water on the water supply system and on withdrawals from BMC's other existing water sources.
- vi. In case the proposed ATTP is temporarily incapacitated the provisions to be complied to maintain the uninterrupted water supply in the relevant area shall be explored.
- vii. Identify statutory, regulatory, other clearances required for the scheme.
- viii. Design, General Arrangement Drawings, preliminary cost estimates, construction time schedule.

B) Integration of potable water produced from each WWTF with BMC's service reservoirs:

- i. In addition to above mentioned direct-Integration of produced potable water from each WWTF, the option of conveyance of produced potable water upto and mixing with nearby or suitable water supply service reservoir shall also be explored for each WWTF.
- ii. The study / design of capacity of service reservoir to accommodate additional produced water, study of its command area, zoning, supply hours, pressures, volume of produced potable water.
- iii. Design of integration system with new pipeline, valves, related appurtenant structures. Design of pressure, volume & time of integration of produced potable water with service reservoir water. Accordingly design of pumping station for integration, area requirements of the system. The entire system shall be designed to achieve efficient and hassle-free integration of entire or partial volume of the produced potable water from WWTF with nearby / suitable service reservoir waters.
- iv. Study & suggest the changes in supply hours, study the hydraulic impact of the integration of the produced potable water on the water supply system and on withdrawals from BMC's other existing water sources.
- v. In case the proposed ATTP is temporarily incapacitated the provisions to be complied to maintain the uninterrupted water supply in the relevant area shall be explored.
- vi. Identify statutory, regulatory, other clearances required for the scheme.
- vii. Preparation of entire scheme, General Arrangement Drawings, sizing of each units, area requirement, preliminary cost estimates, construction time schedule.

C) Integration of potable water produced from each WWTF with BMC's Vehar lake in Bhandup Complex:

- i. Feasibility study of conveying produced potable water from all seven WWTF locations upto Vehar lake in Bhandup Complex for storage in Vehar lake / integration with Vehar lake water.
 - ii. Study of Vehar lake storage, rainfall and run off of Vehar lake catchment area, unutilized capacity of Vehar lake, pattern of Vehar Lake overflow, related reconnaissance / topographic or any other surveys.
 - iii. Feasibility study of construction of new WTP, Pumping Station and Storage in Bhandup Complex after deriving above conveyed water from Vehar lake, area requirements.
 - iv. Feasibility Study of existing water supply networks, sources, conveyance system. Integration of above conveyed water with water supply system downstream of Bhandup Complex, and modifying the existing distribution network to accommodate this additional water.
 - v. Preparation of entire scheme, General Arrangement Drawings, sizing of each units, area requirement, cost estimates, construction time schedule.
- D) After completing the feasibility study scope mentioned in A , B and C above, the consultant shall recommend the most feasible and techno-commercially feasible option for each WWTF respectively along with draft feasibility report in consultation with BMC, incorporating BMC's suggestions & submission of final feasibility report in hard /soft copies.
- E) Identify potential consumers for the produced potable water from 7 WWTFs (if it is not to be integrated with water supply network) estimated usage for each category of consumer, design of suitable system for potable water distribution point, draft & final report.
- F) Preparation and submission of 7/8 minutes' animated audio video presentation about entire studies done for scope of works mentioned under A,B,C & D above with techno-commercial recommendations, salient features, technical parameters, benefits etc. complete combined for all proposed options under the assignment.

2. The consultancy firms may obtain further information from the office of the

Corporation at:
Deputy Chief Engineer
(Water Supply Projects) Consultancy Cell,
First Floor, Engineering Hub Building,
Dr. E. Moses Road, Worli Naka,
Worli, Mumbai- 400 018, Maharashtra
Email: dychecc01@gmail.com

3. Consultancy contract period will be 18 months from the date of the commencement of service.
4. The forms of Tender documents are available on the e-Tendering website <https://mahatenders.gov.in>. The aspiring Applicants will have to download Tender form, from the website mentioned above after payment of applicable fees. The bidder has to fill in online format and upload information regarding Tender Online. Also he /she has to download the Tender application form from website, fill it and upload the scanned copy of duly filled form, along with required documents.
5. For registration enrolment for digital signature certificates and user manual, please refer to respective links provided in e-tendering tab. Vendors can get digital signature from any one of the Certifying Authorities (CA) licensed by controller of certifying authorities namely Safecrypt, IDRBT, National Informatics Center, TCS, CUSTOMS, MTNL, GSFC and e-Mudhra CA.
6. For purchasing the Tender documents, the bidders will have to get registered with e-tender portal (<https://mahatenders.gov.in>) for the e-tendering process and obtain login credentials to participate in the online Tender process. The details of the same are available on <https://mahatenders.gov.in>. For registration, enrolment for digital signature certificates and user manual, please refer to respective links provided in e-tendering tab on <https://mahatenders.gov.in>.
7. The Earnest money deposit (E.M.D.) is Rs.7,00,000/- (Seven Lakh only).The bidder is required to pay 90 % E.M.D online i.e. Rs. 6,30,000 /- (Rupees Six Lakh thirty thousand) through <https://mahatenders.gov.in>. The balance 10 % E.M.D. i.e Rs. 70,000/- (Rupees Seventy thousand only) is required to be paid in the form of Demand Draft (DD) payable to Brihanmumbai

Municipal Corporation; the DD shall be submitted in the office of the Deputy Chief Engineer(Water Supply Projects) Consultancy Cell located at the address mentioned in clause (2) above after submission of bids & before the opening of packet A, failing to which their Packets A & B shall not be opened and the bidder shall be considered non-responsive and his 90 % EMD, if paid, shall also be permanently forfeited. The bidder has to prepare & submit Tender Documents Online on or before last date of submission as mentioned in tender notice.

8. Minimum Technical & Financial Qualification Criteria:

	<u>Technical -</u>
i	One FS/DPR/Detailed engineering Assignment of water network study for not less than 30 sq km area in last 7 years.
	Or
ii	Two FS/DPR/Detailed engineering Assignmentsof water network study for not less than 15 sq km area in each assignment in last 7 years.
	Or
iii	Three FS/DPR/Detailed engineering Assignments of water network study for not less than 10 sq km area in last 7 years.
	<u>Financial -</u>
iv	Average annual turnover of consultancy firm in the last five (5) financial years shall be minimum INR 30 crores.

- The Applicant should upload the documents in readable form, He should take trial of uploads by taking printout. The unreadable documents will be treated as null & void. The remaining documents will be evaluated. The decision of opening Authority regarding this will be binding to all applicants.
- Wholly owned Indian subsidiaries of foreign Consultancy firms will be allowed to claim the technical and financial credentials of only their parent firm, subject to the submission of the requisite documentary evidence alongwith Parent Company Undertaking with the bid in Packet 'B'. In absence of above documents and undertaking experience of Parent company shall not be considered for deciding technical capacity / qualification.
- International consultants having prescribed technical & financial credentials and ready to accept the fees in Indian Rupee in the bank account in India can bid for the tender.

9. The Municipal Commissioner reserves the right to reject all or any of the e- tender(s) without assigning any reasons at any stage.
10. The BMC reserves the right to cancel the e-tenders before submission/opening of e-tenders, postpone the e-tenders submission/opening dates and to accept/reject any or all e-tenders without assigning any reason thereof.
11. This tender document is not transferable.
12. Packet A, B & C shall be opened on dates as mentioned in the time schedule. All the responsive and eligible bidders can be present, if they so wish, at the time of opening of bids, in the office of Chief Engineer (WSP). The Packet C of the bidder shall be opened if bids submission in Packet A & B satisfies/includes all the stipulated requirements and same are found acceptable to the Authority.
13. Bidders are requested to submit and upload the tenders in time on or before the stipulated day so as to avoid rush at the closing hours. BMC will not be responsible for poor connectivity of network / internet services / connectivity of servers / snag in system /breakdown of network / or any other interruptions. If any online information uploaded but not received by Bid creator (BMC) within stipulated time limit, BMC will not be held responsible at any cost and such bids cannot be validated. Any online intimation / information asked to be submitted by Bidders /Contractors or sent to bidders/ Contractors, if not receiving or bounced back at the receiving end due to any problem in the server or connectivity, BMC will not be held responsible.
14. The sale of E-tenders shall commence on 11.01.2023, 11 A.M. and shall close on 13.02.2023, 3.00 P.M. E-tenders shall be uploaded up to 4.00 P.M. on 13.02.2023 and Packet 'A' & 'B' of bids will be opened on the next working day i.e. on 14.02.2023 at 12.30 PM.

The Packet 'A' & 'B' shall contain all duly certified credential documents, filled up forms & schedules, undertakings and other information etc. required as stipulated in the tender as per e-tendering process and "Item data" shall contain duly filled 'Bill of Quantities' online.
15. Only the technical packets 'A' & 'B' will be opened on Mahatender portal in the office of The Deputy Chief Engineer (Water Supply Projects), Consultancy Cell located at the address mentioned at Clause No.2 above on 14.02.2023 at 12.30 PM in the presence of bidder's authorised representatives who choose to attend. The price packet will be opened after technical evaluation, on a date which will be intimated to the technically responsive bidders. In the event of specified

date of opening of bids being declared as holiday for the BMC, bids shall be opened on the next working day. Bidders should note that timing of downloading/submission/opening of tender shall be considered as per BMC web time only.

16. In order to obtain first-hand information /opinion on the assignment, the bidders are advised to visit the individual sites of the existing Waste Water Treatment Facilities mentioned in Appendix-5, before submitting their proposal. Required assistance may be obtained from the “office of the Deputy Chief Engineer (Water Supply Projects) Consultancy Cell located at the address mentioned in clause (2) above with prior appointment in writing except Saturday, Sunday & Public Holidays.
17. Pre-bid meeting will be held in the Office of Deputy Municipal Commissioner (Special Engineering)’s conference room, 3rd floor, Annex Building, Municipal Head Office, Mahapalika Marg, Fort, Mumbai – 400 001, INDIA on 19.01.2023 at 2.30 PM.
18. Bids shall remain valid for a period of 180 days after the date of technical bid opening mentioned at Sr. No. 14 above.
19. Payment under this consultancy contract will be in Indian Rupees only.

Sd/-
Chief Engineer
(Water Supply Projects)