



WATER AND SANITATION AGENCY (LDA)

59-F GULSHAN-E-RAVI LAHORE

Technical Bid

RECEIPT NO. _____
DATED _____
OPENING DATE _____
(FOR OFFICE USE ONLY)

TENDER NO.P&S/25.01/6165 - REPLACEMENT OF MEDIA OF ALREADY INSTALLED 24-NO WATER FILTRATION PLANTS (ARSENIC & BIOLOGICAL CONTAMINATION REMOVAL ULTRAFILTRATION TECHNOLOGY BASED)(4000 Ltr/hr)

NAME OF FIRM _____

ADDRESS _____

COMPLETION PERIOD 45-DAYS

DCR NO. _____ DATED _____ RS. _____

ISSUED BY _____ Name of Branch _____

INSTRUCTIONS FOR BIDDERS

1. The bidder should quote rate after careful study of bid document.
2. The rates should be quoted both in figures as well as in words. Similarly, the total amount of the individual items should also be mentioned both in figures as well as in words.
3. The bid must accompany NTN certificate from concerned Income Tax Office without which the bid will not be entertained.
4. Any rebate on tendered rates of item/whole bid cost shall not be accepted.
5. Bid will be valid for the 120 days.
6. No tender will be received telegraphically or by post.
7. Conditional tender will not be accepted.
8. The bidder must provide PRA Certificate along with bid.
9. In case the total tendered amount is less than 5% (Five) of the approved estimated (DNIT) amount, the lowest bidder will have to deposit additional performance security from the Scheduled Bank ranging from 5.01% to 10%.


 (Anran Ahmad Qureshi)
 DIRECTOR (WWT)
 WASA LDA LAHORE


SPECIAL CONDITIONS

1. The bidders shall have to provide authorization letter from original Equipment manufacturer.
2. The manufacturer shall be NSF certified.
3. The replacement of materials shall be in accordance with the specified requirements and compatible to the existing filtration plants.
4. The Contractor shall provide the necessary import documents to WASA Lahore at the time of delivery concerning replacement material.
5. The Contractor shall pay all the duties, taxes and transportation charges etc by itself and provide copy to WASA
6. The Contractor shall provide shipping documents of the imported equipment / material supplied.
7. The successful bidder shall have to arrange pre-shipment inspection at manufacturer's site of work by a firm of international repute regarding their correctness and genuineness in respect of specification mentioned in the bid Schedule. The certificate so issued be provided at the time of delivery at site failing which material will not be accepted.
8. The Contractor shall attach relevant documents as a support which is required in technical evaluation criteria duly signed and stamped by bidder otherwise bidder shall not be qualified / responsive.
9. The decision of Technical Evaluation committee shall be final and acceptable by the bidders.
10. The successful bidder shall have to provide three **(03)** year warranty of filter media shall be responsible to rectify any default including replacement with new one.
11. The successful bidder shall have to submit within **15** days of issuance of acceptance letter. Performance security @**10%** of contract amount which shall be released after **03** months beyond the successful completion of contract.
12. **Mode of Payment:** **70%** payment will be made on delivery of filter media on site and **20%** payment will be made on replacement of filter media and **10%** of Gross amount of work done shall be retained by WASA as retention money which shall be released after expiry of warranty period i.e **03** years.
13. The Contractor shall ensure by his own means and guarantee that the product water in every respect shall be in accordance with the **WHO** guidelines. The composition of the feed water, in terms of its constituents and their variations, of whatsoever nature, shall not prevent him from achieving the desired performance results.
14. In case any deficiency found in quality of product water in the water test reports submitted by the firm maintaining the O&M of filtration plants shall be solely responsibility of the firm providing filtration media and its rectification including replacement of filter media.
15. Bid security in the shape of **CDR** amounting to **Rs. 433,622.00** must be attached with technical bid failing which the bid may be rejected.
16. The sub-contractor's experience shall be considered for evaluation.
17. Only the sub-contractor share, by value, shall be considered to meet.
18. The General Experience and financial resources of sub-contractor shall not be considered to those of the bidder for purpose of qualification of the bidder.
19. In Case of experience as sub-contractor the bidder must produce agreement (Containing detail work/Activities performed during agreement) with prime contractor.
20. **Joint Venture** must comply with the following requirements: -
 - a) Following are minimum requirements for Joint Venture: -


(Imran Ahmad Qureshi)
DIRECTOR (WWT)
WASALDA LAHORE

- i) In accordance with PEC Bye Laws, Foreign Firms are required to form JVs with local Firms.
- ii) The lead partner shall meet not less than 40% percent of all qualifying criteria given in paras heretofore.
- iii) Each of the partners shall meet not less than 25% percent of all the qualifying criteria given in paras heretofore.
- iv) The joint venture must collectively satisfy the technical evaluation criteria. Heretofore, for which purpose the relevant figures for each of the partners shall be added together to arrive at the JV's total capacity. Individual members must satisfy each of the requirements.
- v) The lead partner shares shall not be less than 50% and shares of each partner of JV shall not be less than 25%.
- vi) The JV agreement must registered with sub registrar mentioning the joint and several liabilities with respect to the contract and Joint account of the firms to whom the transactions shall be made.
- b) Any change in a technically responsive/ qualified JV after evaluation, shall be subject to the written approval of the client such approval may be denied if: -
 - i) Partner(s) withdraw from a JV and remaining partners do not meet the qualifying / technical evaluation criteria;
 - ii) The new partners to a JV are not stand qualified/ responsive individually or as another JV; or
 - iii) In the opinion of the Client, a substantial reduction in competition would result.
 - iv) One firm shall not be partner in more than one JV.
- c) Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement dully registered with sub-registrar providing the joint and several liabilities with respect to the contract.

1. The technically evaluation of a JV does not necessarily qualify any of its partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may be declared qualified / technically responsive if they meet all the requirements as described in technical criteria and any partner of JV has requested/shall request for the same and then his qualification shall be subject to the written approval of the Client.
2. The Bidder (including all members of a JV) must not be associated, nor have been associated in the past, with the consultants or any other entity that has prepared the design, specifications and bidding documents for the project, or was proposed as Engineer for the contract, over the last five (05) years. Any such association may result in disqualification/ non-responsiveness of the Bidder.
3. A qualified firm/contractor/JV may participate only in one bid only for the contract. If a firm submits more than one bid, singly or as a JV, all bids including that bidder will be rejected.
4. **Equivalent:** Equivalency of any component shall be subject to prior approval from DMD(Engg).


(Anran Ahmad Qureshi)
DIRECTOR (WWW)
WASA LDA LAHORE

TECHNICAL EVALUATION CRITERIA

1. Authorization from Original Equipment Manufacturer.
2. The manufacturer should be NSF approved.
3. Registration certificate / Memorandum of Association / Article of Association / Partnership deed registered with sub-registrar/ Affidavit of sole proprietorship.
4. PEC License C-5 with specialization in ME-06.
5. Registration with FBR & PRA (NTN & PNTN).
6. Experience of similar nature i.e installation or replacement of filter media ("**Sum of scope of work shall not be less than "installation of 15 No. water filtration plants" or "15 No. replacements of filter media"**") in last **15 years** with Governments Departments/Semi Government/ Public and Private Sector.
7. Average annual turnover of Rs. **29 Million** in last **03-years**.
8. Net worth / credit facilities / liquid assets of Rs. **15 Million**.
9. Personal Capabilities having **01 No.** mechanical engineers.
10. Audited financial reports of last three (**03**) years from reputed chartered accountant firm.
11. No Black Listing and Litigation on Judicial stamp paper of Rs.**100**.
12. The technical evaluation shall be on knockout basis. A bidder must have to fulfill all requirements as stated above.


(Imran Ahmad Qureshi)
DIRECTOR (QWT)
WASA LDA LAHORE

Technical Bid

For

TENDER NO.P&S/25.01/6165 - REPLACEMENT OF MEDIA OF ALREADY INSTALLED 24-
NO WATER FILTRATION PLANTS (ARSENIC & BIOLOGICAL CONTAMINATION REMOVAL
ULTRAFILTRATION TECHNOLOGY BASED)(4000 Ltr/hr)

S.#	Description	Bidder to Specify
A	Replacement of Existing Filtration / other Media of Filtration Plants	
i	Replacement Materials	
ii	Gravel Media	
iii	Quartz sand media	
iv	Activated carbon media (Coconut shell type and NSF certified)	
v	Granular Ferric Hydroxide Arsenic Media (Europe / USA or equivalent)	

Name of Firm _____

Address _____

Signature _____


(Imran Ahmad Qureshi)
DIRECTOR (WWT)
WASA LDA LAHORE

List of 24-NO Filtration Plants

Sr. No.	Site Address
1	Shadman market
2	Usman Block, new Garden Town
3	Maskeen Pura
4	Nonarian
5	Dholanwal
6	Hunza Block (AIT)
7	1-B-II- Township
8	Mela Ram
9	Babu Sabu
10	Gulshan-e-Shalimar
11	Hammon Shah Park
12	Pani Wala Talab
13	Shah Kamal Road, Mujahidabad Park Mughalpura
14	Guwal Mandi College For Women
15	Akbari Gate
16	Shah Alam Fawara Chowk
17	Nehru Park
18	Main Out fall
19	Ahata Thanaderan
20	Khizrabad, Govt. Girls Middle School and Govt. dispensary Shalimar
21	5 C-II Green Town
22	Lahore Zoo
23	Krishna Gali Guwal Mandi
24	B-Block Faisal Town

ATTESTED


IMRAN AHMAD QURESHI
 Senior Construction Engineer
 E & M Division, W & A, Lahore

Arsenic Removal Media:

Chemical composition:

Active substance: $\text{Fe}(\text{OH})_3$ and $\beta\text{-FeOOH}$: 55 - 60 %
Water content: 40 - 45 %

Physical data:

Type Designation	Granular
Grain size:	0.30 - 2.0 mm
Percentage	< 0.30 mm: < 10 %
Percentage	> 2 mm: < 10 %
Density of grains:	1.5 - 1.7 kg/dm^3
Bulk density:	1.05 - 1.2 kg/dm^3
Specific surface:	> 220 m^2/g (dry substance)
Origin:	Europe / USA or equivalent

Activated Carbon:


Carbon Type	Coconut Shell
Particle Size	1.0 - 1.7 mm
Uniformity Coefficient (max)	2.0 (max)
Iodine No., Wt. % (min)	1000 (min)
Hardness No., Wt. % (min)	98 (min)
Abrasion No., Wt. % (min)	90 (min)
Apparent Density, g/cc	0.49 - 0.53
Water Soluble Ash, Wt. %	(max) 2.0
Contact pH	9.0 - 10.0
Type Designation	Granular
Origin:	Europe / USA or equivalent

Silica Sand:

Origin	Local
Size	05-1.75mm
Particles removal range	20-40 micron

Ultra-Filtration Membrane

Type of membrane	Multibore 7
Pore Size	0.02 Micro meter
Membrane area	50 m^2
Membrane Working Pressure	5 bar maximum
Material Module	PVC-U, White
Material Membrane	PES(Polyethersulfone)
Working Temperature Range	1-40 $^{\circ}\text{C}$
Virus Removal Efficiency	99.99% log4
Bacterial removal efficiency	99.9999% log 6
Length with end cap (L)	1680 mm
Manufacturer	INGE
Origin	Europe / USA or equivalent


IMRAN AHMAD QURESHI
Senior Construction Engineer
E & M Division, WASA, LDA, Lahore
(Imran Ahmad Qureshi)
DIRECTOR (WWT)
WASA LDA LAHORE


(Imran Ahmad Qureshi)
DIRECTOR (WWT)
WASA LDA LAHORE