



WATER AND SANITATION AGENCY (LDA)

ZAHOOOR ELAHI ROAD, LAHORE.

TERMS OF REFERENCE (TOR)

FOR

HIRING OF CONSULTANTS FOR

“REHABILITATION OF SEWERAGE AND WATER SUPPLY SYSTEM IN YOUHANABAD, KAHNA SUB DIVISION WASA, LDA, LAHORE”

Resident Supervision for:

Sr. No.	SCHEMES
SEWERAGE SYSTEM	
i	Improvement of Sewerage System at Old Nishter Colony Lift Station to Mundri Chowk, F-Block Youhanabad.
ii	Improvement of Sewerage System at Mundri Chowk to Tally Chowk F-Block Youhanabad.
iii	Improvement of Sewerage System at Sammary Chowk D-Block to Rohi Nalah Youhanabad.
iv	Improvement of Sewerage System at Tally Chowk to Makha Chowk F-Block Youhanabad.
v	Improvement of Sewerage System at Tally Chowk to Billa Pan Shop Chowk F-Block Youhanabad.
vi	Improvement of Sewerage System at D-Block Youhanabad to Rohi Nalah.
vii	Improvement of Sewerage System at Fiaz Advocate Chowk to Darbar Chowk F-Block Youhanabad.
viii	Tube Desilting of Trunk Sewer Line Through Vench Machine in Youhanabad.
ix	Repair and Maintenance of Broken Manholes in Different Streets of Youhanabad.
WATER SUPPLY	
	Laying of Water Supply System in Different Blocks of Youhanabad.
FILTRATION PLANT	
	Supply and Installation of 01 No. Water Filtration Plant.
DISPOSAL WORK	
	Improvement of Youhanabad and Nishter Colony Lift Station.

1. BACK GROUND

The Government of the Punjab is going to rehabilitate the poor condition of localities of minorities under the project "Development of Model localities of Minorities", to be executed by Lahore Development Authority. However, the components pertaining to water supply & sewerage system have to be executed by WASA Lahore. Therefore, WASA Lahore intends to hire consultancy services for the resident supervision of above-mentioned projects / schemes.

2. OBJECTIVES:

- i) Resident supervision of the work as per approved design, drawings, standard specifications and within the condition of the provisions of the contract.
- ii) Methodology for execution of work, on round the clock basis to achieve the progress.
- iii) Suggestions for use of improved / latest construction techniques, materials and equipments.
- iv) Timely completion of the work for public convenience.

3. SCOPE OF WORK / DUTIES AND RESPONSIBILITIES OF THE CONSULTANT.

The scope of work under this consultancy shall mainly consist of Resident Supervision for the above-mentioned schemes of water supply, sewerage, filtration plant and disposal work. The duties and responsibilities of the consultant shall include, but not limited to:

- i. The consultant shall supervise all the civil, mechanical & electrical works for each scheme & certify that the executed works are as per approved design, drawings, standard specifications, technically sanctioned estimates and within the provision of contract agreement.
- ii. The consultant shall supervise contractor's job and all work related matters and shall ensure that methodology adopted by contractor for execution of works is adequate and in accordance to the relevant standards / practices. If found any deficiency, the consultant shall give advice to the contractor for remedial measures informing concerned Officer of WASA.
- iii. The consultant shall examine the work schedule prepared by the contractor; recommend any modifications / alteration, if required. Consultant shall also monitor progress carefully and certify that the work executed at site is strictly according to the schedule approved by the client. In case, if the contractor is lagging behind from the schedule, the consultant will point out and propose remedial measures to meet the target.

- iv. The consultant shall assure & certify that the construction material brought by the contractor at site to be used in the execution of work is strictly in accordance to the standards & specifications and certify that the laboratory test reports meet the standards
- v. The consultant will supervise all field / laboratory tests of material and works as per methods described in the specifications and will submit a copy of all field / laboratory test reports to the concerned. The field equipment required will be provided by the contractor whereas the consultant would arrange technician / supervisory staff to supervise the tests as per standard procedure / requirement laid in the specifications. For laboratory test sampling will be carried out by the consultant and laboratory fee will be paid by the contractor.
- vi. The consultant shall certify under his seal, the contractor's bills / payments, clearly indicating that the quality of work executed at site is in accordance to the specifications, design, drawings, technically sanctioned estimate and contract agreement within the 48 hours of submission of bill to the consultant. The consultant shall certify the quantity of work executed at site and make recommendations regarding payment to the contractor alongwith Test Reports.
- vii. The consultant shall be responsible for Resident Supervision of the work through qualified graduate engineers and other supervisory staff having sufficient experience in the relevant field. The consultant's team shall perform its duties with due diligence and efficiency, in accordance with the best engineering practices, standards & consultants technical / professional approach.
- viii. The consultant shall keep the record of daily inspection reports & reports of all tests and will hand over the same to the client on monthly basis.
- ix. Consultant shall prepare presentations/Reports etc related to the Project as and when required / demanded by Management / Executing Agency.
- x. Consultant shall be responsible for all arrangements for site visits by Management or any Govt. Representative (through Contractor).
- xi. The consultant shall that measures taken by contractor for safety of the public, properties and staff working at site are adequate and in accordance to the international standards / practices. If found any deficiency, the consultant shall give advice to the contractor for remedial measures informing concerned Officer.
- xii. To evaluate and make recommendations to the client for actions to be taken against contractor claims, disputes and time extensions.
- xiii. To carry out detailed final inspection of the work along with Client's staff and submit Completion Report along with the completion drawings (GIS based) after completion of work. Take and submit photographs before start of work, during execution and after completion of work.
- xiv. The consultant shall recommend to the Engineer for issuance of completion certificate stating that the work has been completed as per specifications, drawings, estimates and contract agreement.

4. CORE TEAM OF EXPERTS:

The consultant will be required to provide following staff for the assignment to supervise the work:

Sr. No.	Position	Qualification	Experience	Man-Months
1.	Resident Engineer (Civil)	B.Sc Civil Engineering	07 years	09
2.	Assistant Resident Engineer (Electrical / Mechanical)	B.Sc Electrical / Mechanical Engineering	03 years	01
3.	Site Inspector / Quantity Surveyor	D.A.E (Civil)	03 years	09

5. TIME DURATION:

The time duration for the instant consultancy work is Nine (09) Months.

6. SCHEDULE OF SUBMISSIONS OF DELIVERABLES:

Sr. No.	Report / Document	Period (days)	No. of Copies
1.	Monthly Progress Report	Each Month	05 Hard + 02 Soft
2.	Completion Report along with Completion Drawings	On Completion of Work	05 Hard + 02 Soft

7. MISCELLANEOUS:

1. The presentations, as and when required during the whole period of the assignment will be made by the consultant on multimedia to the satisfaction of WASA and Govt. of Punjab.
2. No boarding, lodging, transport and office facilities will be provided by WASA to the consultant.
3. Coordinate between contractors of different groups for levels, grades and alignment etc. of different infrastructure and services.
4. The consultant should adjust / reduce the deputed staff as per pace of work during execution.