

IVIILLEININIUIVI CHALLENGE ACCOUNT - JORDAN Partners in Development

Water Smart Homes-Infrastructure Works

PART 2 WORKS REQUIRMENTS

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Types of Repairs & Replacements



WSHs- Infrastructure Works

Types of Repairs & Replacements

1.Water Storage Tanks

2.Water Piping

3.Sanitary Fixtures

4. Drainage and Sewage Systems.



Water Storage Tanks

- >Types : Water Plastic Tank
- Location : Roof Tank or Ground Tank
- Capacity : 2000 L or 1000 L Water Storage Tank

500 L or 250 L In-House Water Storage Facility.

Water Roof Tanks







Water Ground Tanks





Water Piping



Type : Galvanized Steel Pipes

Size & Location :

Exterior (3/4") connections between water meter and storage tank, from storage tank to the house.

Interior (1/2") in-house water network.

All the connections shall be EXPOSED and include all necessary fittings to complete the work.

Exterior Water Piping





Interior Water Piping







Sanitary Fixtures

- Hand Basin
- Flush Toilet
- Turkish Toilet
- Shower Tray
- Kitchen Sink
- Accessories : Angle valves, Water hose Pipe, Water Drainage Pipe, Flushing Device, Taps and Mixers,



Hand Basin



Turkish Toilet





Water Drainage Pipe





Water Taps & Mixers







Drainage and Sewage Systems



>Replacing UPVC Pipes , 56mm (2") and 110mm (4")

Connection to the WAJ Swage Network

> Emptying the Septic Tank

Replacing UPVC Pipes







Geographical Distribution of the Repairs



In-house repairs in the city of Russeifeh distributed as

follow:

Area	No. of Dwellings
Hittin Camp	506
Mesherfah	310
Russeifeh	487
Total	1,303

Water Smart Homes- Infrastructure Works: Russeifeh







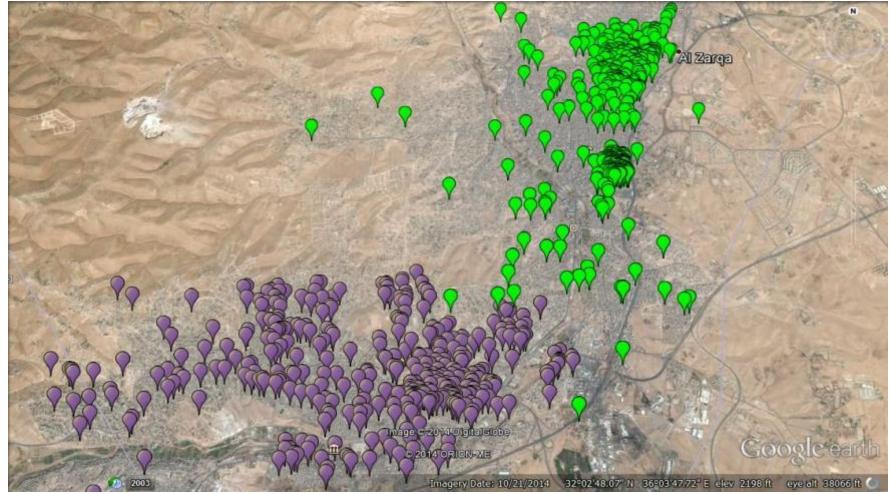
In-house repairs in the cities of Russeifeh & Zarqa

distributed as follow:

Area	No. of Dwellings
Russaifa	881
Awajan	231
Prince Talal	504
Russaifa	146
Zarqa	390
The middle	236
Zarqa camp	154
Total	1,271

Water Smart Homes- Infrastructure Works: Russeifeh & Zarqa



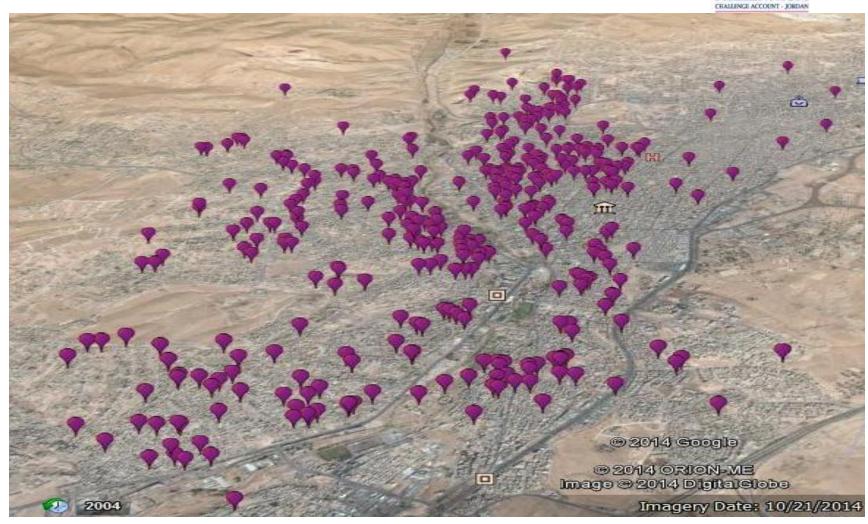




In-house repairs in the city of Zarqa distributed as follow:

Area	No. of Dwellings
Hussein Neighborhood	430
Janaah	85
White mountain	713
Total	1,228

Water Smart Homes- Infrastructure Works: Zarqa





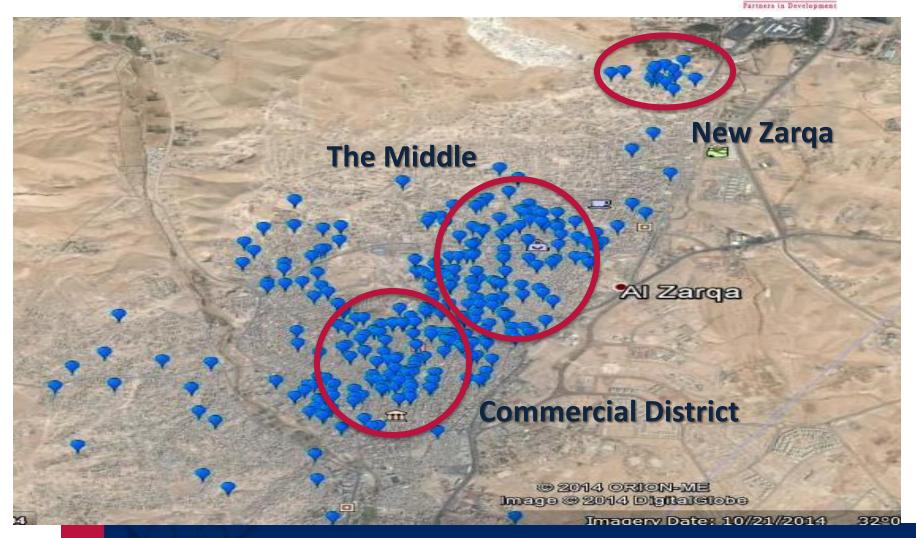
- In-house repairs in the city of Zarqa (Commercial
- District, New Zarqa and The Middle) and in the towns
- of : Dulayl, Hashemeyeh, Azraq, Sokhna and Perrin,
- with the following distribution:

Water Smart Homes- Infrastructure Works:

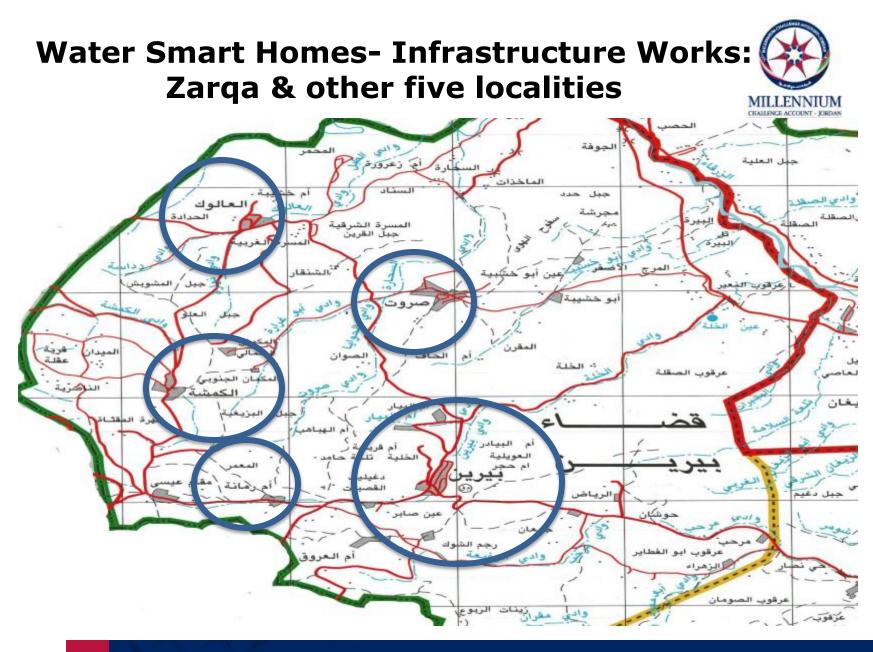
Zarqa & other five localities



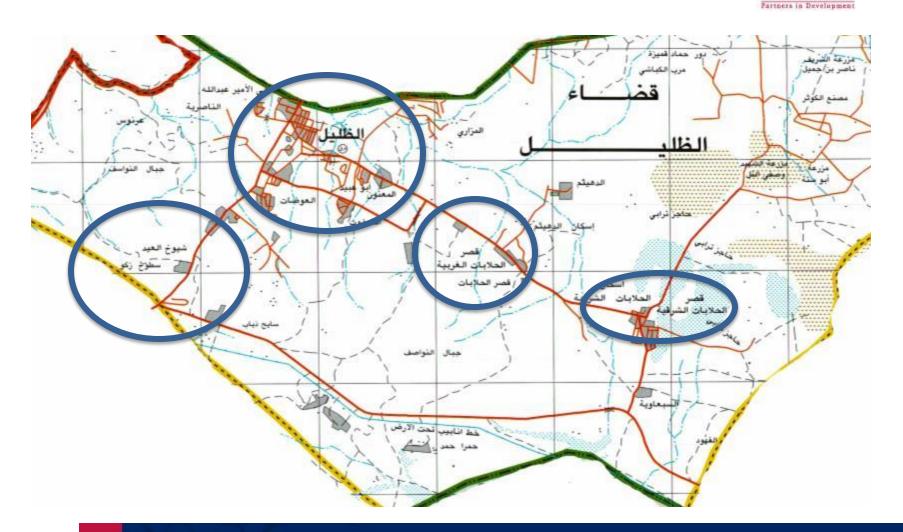
Area	No .of Dwellings
The city of Zarqa	449
The town of Perrin	232
The town of Dulayl	194
The town of Sokhna	181
The town of Hashemeyeh	155
The town of Azraq	105
Total	1,316

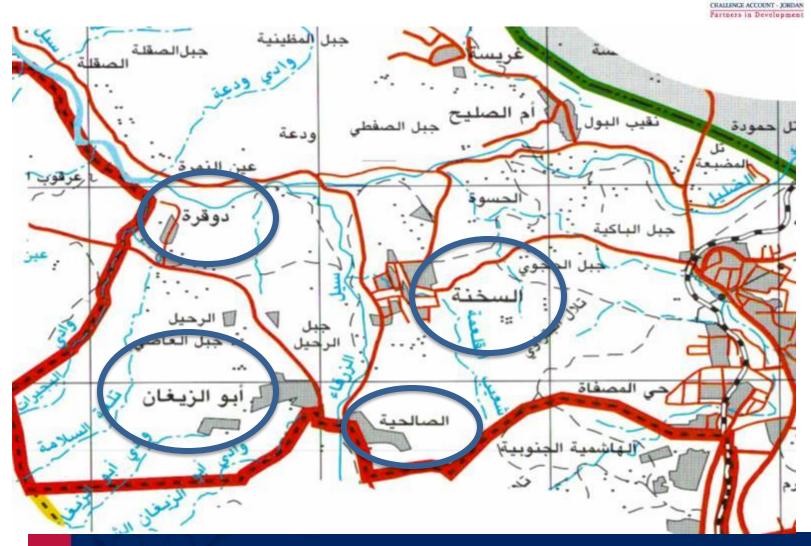


CHALLENCE ACCOUNT - JORDAN



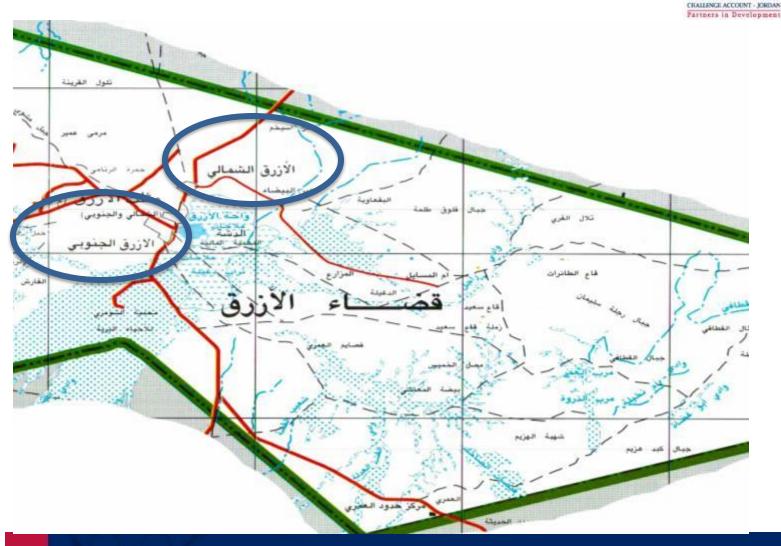
CHALLENCE ACCOUNT - JORDAN





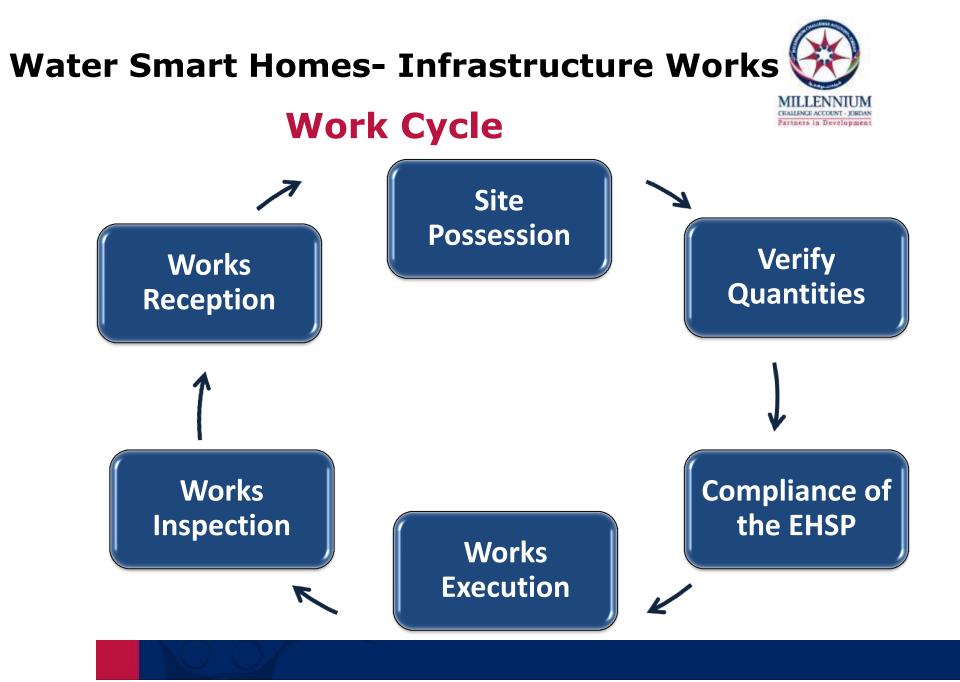








Work Cycle





Field Organization Of The Contractor



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Field Organization Of The Contractor

- Site Engineer (1)
- Assistant Engineer (2)
- Forman (1)
- Women Facilitators Coordinator (1)
- Woman Facilitator (8)
- Plumbers (8)
- Assistant Plumber as needed
- Non Skilled labor as needed
- In general, minimum (8) working teams are required to execute the works within 12 months period.



Field Organization Of The Contractor



>Why the contractor should employ the Woman Facilitators ???

Due to the nature of the works, local culture and practices, the contractor shall incorporate in each work team a local woman as a facilitator and one woman as overall facilitator coordinator.

Field Organization Of The Contractor



Roles & Responsibilities of the Women Facilitators

 Contacting the NAF beneficiaries to coordinate the initiation of the repairs

 Coordinating the needs that the NAF beneficiaries would require during the execution of the works

 Training the NAF beneficiaries and their neighbors on in-house water management and basic plumbing

Conflict resolution

Field Organization Of The Contractor



Roles & Responsibilities of the Women Facilitators Coordinators

- Following up the performance of Women Facilitators
- Replacing any Woman Facilitators in case of absence.
- Coordinating and reporting to the field office.
- Conflict resolution

Contractor Staff Training



The Contractor Staff will receive THREE different trainings from the Consultants:

- 1- One day training for plumbers, assistant plumbers and nonskilled workers on the procedures to execute the works under the WSHs-INF contract. In addition to EHS Plan.
- 2- Women Facilitators and W.F. coordinator will receive the following training:
- House water management (quality &quantity)
- Basic plumbing maintenance
- Interpersonal communication
- Conflict resolution
- Gender equity approaches

Contractor Staff Training



- 3- The Resident Engineer, Assistant Engineers, Forman will receive along with the Consultants Supervisors the following training:
- Procedures to execute the works under the work
- Work planning
- Forms
- inspection
- EHS Plan
- The Contractor shall provide the venue and hospitality for all the training and will guarantee the attendance of all appointed staff.



Environmental, Health and Safety Plan



>EHS Plan establishes the framework needed to ensure safety and good health of employees involved in the construction activities, the project beneficiaries and finally the general public.

The Contractor shall read, understand and comply the EHS plan.

Environment, Health and Safety Plan

- > The Contractor should ensure all safety measures are followed in the working sites. The Supervisor will verify the compliance of the EHS Plan at each construction site before allowing the start of any repair works.
- The Contactor visibility and identification
- The safety equipments (item 2 in BOQ)

Environment, Health and Safety Plan



>Trafficking In Persons Risk Management

>TIP will not be tolerated on the construction sites. All contractor personnel must be over 18 years old and must be paid according to Jordanian Labor Law.

> The contractor shall sign a Declaration for notparticipating in TIP.



Work Procedures



Work Procedure



FORMS

1.Work Form

2.Site Possession Form

3.Measurement Form

4. Environmental, Health and Safety Checklist

5.Works Inspection Form

6.Works Acceptance Form



- **Working Hours**
- Working Hours should be from 9 am 5 pm
- The work plan should consider special working hours for some crews considering that in some cases there could not be access to the dwellings during normal construction working hours.



>Special Needs of Beneficiaries

When the Contractor schedules an appointment with the NAF beneficiary, it will request information about any special needs of the beneficiaries to be able to address them properly during the execution of the repair works.



Cost Structure



>BOQ

- Units and Quantities (new or replacement)
- Site Possession

>Unit Price Consistency evaluation



Connection to WAJ Sewage Network



Connection to WAJ Sewage Network

Connection to WAJ sewage network includes:

- Septic Tank Decommissioning
- Collection manhole in the dwelling.
- Connection manhole to WAJ sewage network , should

be made under WAJ specifications.

Package	No. of cases
Package I	2
Package II	2
Package III	2
Package IV	1



THANK YOU