

1- Project name:

Digital Documentation of the **Seven Widows Quarter-Battir**.

2- objectives:

- 2.1. Survey and documentation of the **Seven Widows Quarters** in Battir (the historic core) using digital documentation technique (3d laser scanner & photography).
- 2.2. Capacity building through training of 4-6 Architects and Engineers on heritage documentation using digital documentation technique (using 3d laser scanner) the trainee should be involved in the whole documentation process.

3- Expected outputs:

3.1. Seven Widows Quarters Survey & Documentation

- a) Topographic survey - the polygonal of the entire surveying will not be admitted an error of not more than 3 cm. Topographic survey should focus on the acquisition of the target associated with the laser scanner point clouds.
- b) 3D laser scanner database - the database must be delivered in digital format containing an archive of all the scans, the recordings of scans in a single reference system and the connection between the laser scans and the topographic cloud of points associated. The scans should cover all surfaces of the walls in front of the buildings with a mesh not larger than a point every 5 mm. The consultant Shall offer suggestions for improvements to the database as regards the structural survey with the point cloud and the landscape system and shall offer proposals for detection of green areas by laser scanner.
- c) Detailed 2-dimensional (2D) survey drawings in both pdf and AutoCAD readable and editable formats for the **Seven Widows Quarters** (metric) that includes:
 - i) Floor plans at scale 1:50 & 1:100
 - ii) 6-8 cross sections at scale 1:50 & 1:100 (the location of sections should be agreed with project coordinator)
 - iii) Buildings Elevations at scale 1:100 & 1:50

- iv) Levels for all spaces, legend of building materials in all drawings.
- v) Pen assignment used.
- d) Using data from a 3D laser scanner technique, to survey the architecture of the exterior facades with all the decorative details, terraces, tiles, Courtyards, roof and all technical installation and infrastructures. The drawings, in nominal scale 1:50; will be realized with technical adjustments to get drawings scale (1: 100). The drawings will contain information about all the wall hangings, electrical cables, doorbells, fixtures and basic analysis of degradations. The consultant shall give an appropriate description of the individual layers of the digital drawings on architectural drawing and for the drawings of the degradation.
- e) photographic atlases - the consultant will provide photographic atlases on the system in analysis, providing testing tools on the study of color and ensuring the development of digital atlases with images in raw format with a Full HD resolution; the issues on which to suggest the atlases will be proposed by the consultant.
- f) A detailed 3D model in readable and editable formats for the **Seven Widows Quarters** in Battir; the three-dimensional model will be built based on point clouds laser scanner and photo textures. It will then build a simplified three-dimensional model for registration of the database on the reliable coordinates of the 3D model, obtained by the laser scanner survey. the three-dimensional model will be mapped with photo-plans. The consultant should explain to the owner on how to manage and edit the data from the model.
- g) A presentation summarizing the findings and results of the survey and architectural analysis.

3.2. A comprehensive training courses

Heritage documentation using digital techniques (3d laser scanning and photogrammetry). In addition to preparing a digital manual for the project documentation process (includes short videoclips).

- The training should include theoretical session, practical and on-site session. (including onsite data acquisition and data processing)
- The trainees should be involved in delivering part of the work under the direct and full supervision of the consultant. The consultant is fully responsible of all the deliverables.
- The offer should include program of the training including deliverables.

4- Provisional outputs:

a) Existing dry-stone walls plan for surrounding areas, the work should include survey of the existing open areas of the dry-stone walls including levels, different materials and outline of the dry-stone walls in AutoCAD and pdf readable and editable formats. The survey will be according to the attached map

b) Film for the website, or interactive website. an example

<http://www.pbs.org/ancient-invisible-cities/home/>

<https://www.youtube.com/watch?v=wmNjpzzFT7c&feature=youtu.be>

c) An ESRI map story that will be published under Taawon and to geomolg.ps an example

<https://farogarcia.websharecloud.com/?v=om&t=p:default,c:overviewmap,m:t&om=om1&om1=x:24.766,y:6.685,zoom:4&p=sabastiya-heritage-0a3a6d5b>

d) High Resolution Photographs for the Seven Widows quarters to be used for presentation & publications

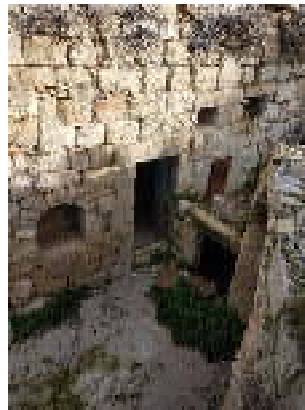
e) Project booklet

5- Location Aerial photos

The below map shows the buildings which are included in the project (the blue rectangles) and the site around it:



6- Project photos



7- General Submission Requirements

- 7.1. The name of the Owner is: **Jerusalem Old cities Revitalization programme / Taawon.**
- 7.2. Proposal title is: **Digital Documentation of the Seven Widows Quarter-Battir.**
- 7.3. Technical and financial proposals required and should be submitted **separately in 2 closed envelops.**
- 7.4. Additional information in the Technical Proposal includes detailed CV that includes all the projects, all the staff, registration and classification from official authorities.
- 7.5. Technical and Financial proposals should be valid for **120 days** at least.
- 7.6. The Technical proposal should include a **Bid Bond guarantee with an amount of 2,000\$ valid for 120 days from the date of submission.**
- 7.7. Local Consultants Should submit **valid Vat exemption Certificate.**
- 7.8. The Financial offer should include all costs (flight tickets, country entry fees, transportation, accommodation, logistics, sundry's...)
- 7.9. Taawon is not responsible to issue visa and / or country entry permission.

8- Proposals Submission date

Submission of technical and financial proposals should be **on Thursday 15th of August 2019, to Taawon offices in Ramallah.**

9- Clarifications

Any requested clarification or questions should be submitted **to waocjrp@taawon.org till Tuesday 30th of July 2019, and the answers will be sent by mail on Thursday 1st of August 2019.**

10- Project Duration

Project Implementation Period **120 calendar days.**

11- Project insurances and guarantees

- 11.1. Performance Bond guarantee **with an 10% of the contract value** should be submitted by the winner consultant within 28 days of issuing the initial awarding letter.

11.2. The winner consultant should issue an **insurance policy that covers any material and equipment's damages.**

11.3. The winner consultant should issue an **insurance policy that cover his team and third parties against accidents.**

12- Project payments

The client will issue 3 payments as follow:

1st payment 20% of the contract value upon approval of the detailed scheduled work plan.

2nd payment 40% of the contract value after finalizing the field work and implementing the training course and receiving the 1st draft of the documentation.

3rd payment 40% of the contract value once receiving and reviewing final report and requested documents in reference to the main expected outputs and after the approval of the owner .

*****Local consultants should issue Zero Vat invoices that stamped from the official Authorities in the Palestinian territories**

13- Delays and penalties

13.1. The anticipated ceiling for the project implementation period **is 120 calender days .**

13.2. If the owner decided that the delay is due to the Consultant's negligence, the consultant will be liable to liquidate damage of 10% maximum percentage of the final contract value (0.005 per working day) after that the owner has the right to terminate the contract and he will not be liable for any payments after the end of that period.

13.3. The owner has the right to refuse to extend the implementation period , and terminate the contract due to negligence of the Consultant at any time , and liquidate the performance bid bond and the owner will not be liable for any payments after the end of the implementation period.

14- Reporting

the Consultant is to submit the following reports and information to the client

14.1. Monthly progress report, the report should include; (1) a general statement on the progress achieved, summarizing the work performed by each member of the Consultant's team.

14.2. Details of challenges encountered or expected to be encountered in the execution of the work.

15- Data intellectual property

Intellectual property and copyright of all documents produced within the framework of this Consultancy Agreement as well as all contents, information and materials (survey forms, charts, software, database, images , maps ,data , reports ,correspondence , etc.) used and resulted from the survey or the reports or any part of this Consultancy are protected by copyright ,trademarks, service marks , patents or other proprietary rights and laws.

Without prior written authorized approval from the Taawon, the sale, modification, distribution, redistribution, copy, reproduction, public/ private display, performance or publication or creation of derivative works of such material or content is prohibited. Notwithstanding the above, the consultant can use the data for private usage, as long as he/she keep intact all copyright and other proprietary notices. Taawon also strictly prohibit retrieval of systematic/unsystematic data or any other content of this consultancy material in order to create or compile, directly or indirectly data without written permission from the both parties.

16- Evaluation

The consultant will submit the following offers:

16.1. Technical Offer that should include:

- Consultant resume /team members' resumes
- Work methodology
- time schedules
- Samples of pervious work
- Equipment's list and Specification (to be used for survey and documentation)

Technical offer will be evaluated as the follow:

Evaluation Item	Highest score	Score
Consultant resume /team members' resumes	15	
Work methodology	15	
Training course structure	15	

time schedules	15	
Samples of pervious work	20	
Equipment's list and specification	20	
Total	100%	

WA will not evaluate and / or open the financial offers of the consultants who will not pass 70% in the Technical evaluation

16.2. Financial Offer according to the below table **(offers should be submitted in separated closed envelop:**

Item		Price (USD)
1	Seven Widows Quarters Survey& documentation	
2	A comprehensive training course	
3	Provisional outputs	
	a) Existing dry-stone walls plan for surrounding areas , the work should include survey of the existing open areas of the dry-stone walls including levels, different materials and outline of the dry-stone walls in AutoCAD and pdf readable and editable formats. The survey will be according to the attached map	
	b- Film for the website	
	c- An esri map story	
	d-High resolution photographs	

	e - Project booklet	
	Total (1 and 2)	
	Total (provisional Items 3)	