

إعلان مناقصة

التاريخ
2021/01/31

يعلن مكتب المشتريات بوكالة غوث و تشغيل اللاجئين الفلسطينيين UNRWA – مكتب غزة
الإقليمي - عن طرح المناقصة التالية:

رقم المزاد	اسم المزاد	موعد و مكان التسليم
V22S/Q/05/2021	تدريب فني الكهروضوئية	الثلاثاء، 9 فبراير 2021 الساعة 12:00 ظهراً

فعلى الراغبين بالمشاركة في هذه المناقصة تحميل ملف المناقصة من موقع بوابة معلومات
الأونروا على الرابط التالي <https://gfoportal.unrwa.org>.

ملاحظات هامة

- 1- لن يُقبل أي عرض يتم تسليمه بعد الموعد المحدد أعلاه لاستلام المظاريف.
- 2- سيتم عقد اجتماع تحضيرى خاص بالمناقصة يوم الأربعاء 2021/02/03 الساعة العاشرة صباحاً
في قاعة اجتماعات دائرة التوريدات والمشتريات
- 3- يتم تسليم العرض الفني في مكتب المشتريات.
- 4- العرض المالي يتم إرساله بالبريد الإلكتروني على العنوان التالي فقط GFO-TChairman@UNRWA.ORG

لمزيد من المعلومات، يرجى التواصل مع مكتب المشتريات – الخدمات بالاتصال على رقم 08-2887182 أو
جوال رقم 0592-905-340.



علاء الكريبي

قائم بأعمال مدير دائرة المشتريات والتوريدات



**UNITED NATIONS RELIEF and WORKS AGENCY
FOR PALESTINE REFUGEES**
Request for Quotation No. V22S/Q/05/2021
PROVISION OF TECHNICAL TRAINING FOR PV SYSTEMS

ANNEX A

TERMS OF REFERENCE

1. Background

- UNRWA TVET and Youth Division has secured support from GIZ to launch a Project entitled '**Enhanced employability of Palestine Refugees in Gaza in the field of solar energy for improved livelihood opportunities and improved management of scarce resources.**
- Technical Vocational Education and Training (TVET) has been identified as a crucial vehicle for achieving youth employment, social inclusion, building the resilience of the poor, for the recovery and long-term stability of communities and countries and for easing the impact of widespread poverty and protracted conflict in Gaza.
- Furthermore, by providing TVET training in the field of renewable energy, the project will help address the scarce energy availability in Gaza Field, and will contribute to the streamlining of local innovations in the field green economy.
- The project will be aligned with UNRWA TVET Strategy (endorsed in 2014) and will take into consideration offering equal opportunities for females and males, with a special focus on empowering vulnerable women. One of the project's main outcomes is to achieve the following:
 - 1.1. Course curricula developed adopting the Competency-based approach
 - 1.2. Instructors capacity for providing quality training in GTC and KYTC built and enhanced
 - 1.3. VTCs workshops and equipment's related to Solar Energy and Photovoltaic established or upgraded.
 - 1.4. Apprenticeship for skilled labourers graduates

For the outcome #1.2, the planned activities are as follows:

- a. Provide advanced technical training for VTCs instructors on solar systems technology by local experts with possibility to be done with international experts with using online training modality.
- b. Develop training modules in the pedagogy for effective curricula delivery.
- c. Delivery of training targeting TVET instructors according to the CBT.



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2. Purpose

UNRWA seeks the services of contractor to provide technical training of PV systems for 20 TVET instructors of vocational courses (PV systems, Electrical works) for both Khan Younis and Gaza Training Centres, and semi-professional courses (Mechatronics and Electronics) for Gaza Training Centres. Due to the different instructor's needs and level of knowledge in solar energy systems, the training will be delivered in three different training courses as follows:

- 1- Intermediate level - training course for the new trade instructors of PV solar energy systems technologies and electrical installation.
- 2- Advanced level training course for technical Instructors-Mechatronics who have professional knowledge and experience in dealing and working on control and solar energy systems.
- 3- Advanced level training course for technical instructors-electronics and automated control who have professional knowledge and experience in dealing and working on electronics maintenance and solar energy systems.

NOTE: the training will be hosted by KYTC (course #1) and GTC (Courses # 2 and 3) considering that the contractor is responsible to avail transportation for trainees at both centres and to provide all health and safety supplies and Personal Protective Equipment during the training inside UNRWA TVET centres and the required Beverage & Lunch as well. In addition to identified training tools and equipment rather than available tools and equipment if needed according to the defined training outline.

Training period is 20 days in total for three groups

3. Scope of work

The Contractor will perform the following tasks:

- (a) Provide Intermediate technical training for of PV and electrical courses instructors based on following needed knowledge and practical skills (group of 10 trainees) 10 training Days, in total of 50 training hours.
 1. Developing a Safety Plan
 2. Solar system sizing (off grid, on grid)
 3. Advances in Solar systems component installing (Panels, Inverter, Batteries, Wiring)
 4. Advances in Installing Ground-& Roof Mounted Structures
 5. Tools and Techniques for operation and Maintenance
 6. Inverters Operation



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7. Preventive Maintenance of Solar systems
8. Corrective Maintenance of Solar Systems

(b) Provide advanced training for Mechatronics course instructors (group of 5 trainees in 5 training Days – total 25 training hours), based on the following needed knowledge and practical skills

NOTE: (partial on-line training of international experts is accepted)

SCADA for Solar System; the training shall cover the following topics:

1. Benefits of SCADA
2. SCADA components and architecture
3. Managing and optimizing solar electric photovoltaic (PV) system using SCADA
4. Optimize energy production and consumption based on location, orientation and plant conversion efficiency
5. Enhancing your real-time energy production and conversion efficiency
6. How SCADA technology will improve quality of system components
7. Role of SCADA in SOLAR system performance monitoring
8. SCADA security and control

(c) Provide advanced training for Electronics course instructors (group of 5 trainees in 5 training Days – total 25 training hours), based on the following needed knowledge and practical skills

NOTE: (partial on-line training of international experts is accepted)

Maintenance of PV inverters; this training shall cover the followings topics:

1. AC to DC converters
2. Switched Mode Power Supplies (SMPS)
3. DC to DC converters
4. DC to AC converters
5. Multi-stage battery chargers
6. Maximum Power Point Tracking (MPPT) solar chargers
7. Diagnosis of faults (converters, inverters)

After completion of the training contractor must provide certificates for the participants based on the related course to every participant of the three group of training courses.



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Beverage & Lunch

- (d) Provide two high quality refreshment breaks every training day after 2.5 hours.
The breaks shall include; biscuits, hot drinks (Tea, Coffee, Nescafé), and cold water.
- (e) Provide one high quality lunch meal for participants every training day, as following menu on every other day bases.
Day 1 Chicken (250g) with rice +chips+ green salad + soft drink
Day 2 Grilled meet (250g) + hummus+ chips +green salad + soft drink

4. Duration of service

The duration of the contractor training services will be within one month from the day of signing the contract

5. Payment schedule

Payments shall be linked to deliverables as follows:

Payment	Percentage	Deliverable
Payment 1	100 %	After satisfactory completion of the required service.

6. Reporting

- The Contractor might be exposed to site visit by GFO team.
- The implementation of training will be monitored by UNRWA–GFO team.
- Final completion training report will be sent to Mr. Mohammed Al-Agha

7. For any quires, please contact :

- Mr. Basel Habil E-mail: b.habil@unrwa.org , Mobile #: 00970- 592-905751
- Mr. Mohammed Wuhaidi E-mail: m.elwuhaidi@unrwa.org, Mobile #: 00 970-597-920212



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Technical Criteria

S.	Item Description	Compliant/ Non-Compliant
1.	Training plan of the three courses matching the scope of training (Para 3.A , 3.B and 3.C)	
2.	Trainers CVs for the three training courses (preferred certified trainer), includes the international experts where applicable for online training	
3.	Description of Training room infrastructure and facilities (including training tools and equipment)	
4.	Training materials about the covered course (handouts)	

- Bidder must pass all above points to be qualified for financial stage.
- Offer shall include Training agenda & Location
- Any other supporting documents of PV training certificates, achievement awards, or local- international accreditation are preferable.



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Price Table

No.	Description	Unit	Quantity <i>group</i>	Unit Price \$	Total Price \$
1.	Intermediate training for PV and Electrical courses (as per scope of work Para. A) Including Beverage & Lunch for 10 trainees.	First Group 10 Training days	1		
2.	Advanced Technical training for Mechatronics course (s per scope of work Para. B including Beverage & Lunch for 5 trainees	Second Group 5 Training days	1		
3	Advanced Technical training for Electronics course (s per scope of work Para. C including Beverage & Lunch for 5 trainees	Third Group 5 Training days	1		
Grand Total					

- *Number of training days are 10 days for Intermediate training*
- *Number of training days is 5 days for the advanced training of Mechatronics course.*
- *Number of training days is 5 days for the advanced training of Electronics course.*
- *The Intermediate training course will be parallel with the advanced training courses.*

Supplier Name

Signature

Date



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NOTES & CONDITIONS:

1. This is a one - envelope quotation:-
 - a. File one: Technical Part. (to be handed to procurement office)
 - b. File two: Financial Part (via Email GFO-TChairman@UNRWA.ORG).
2. RFQ shall be submitted on or before **Tuesday, 09/02/2021 at 12:00 P.M Gaza Time.**
3. **A Pre-Bid meeting will be held on Wednesday 03/02/2021 at 10:00 a.m at PLD Meeting Room**
4. Prices should be in **USD**.
5. The supply of goods, services and works to UNRWA is VAT exempt. In the event that this is not the case, Paragraph 19 of the General Conditions of Contract for the Provision of Goods and / or Services will apply.
6. Without prejudice to the applicability of all the terms and conditions of the contract under which the tender is implemented, bidders are reminded that price(s) quoted by them as the Total Price shall be deemed to include all their obligations under the contract and for all other matters and things necessary for their delivery of the goods and/or services, including all charges, overheads, and other costs of whatsoever nature.
7. UNRWA General Conditions of Contract for the Provision of Services (Annex III) are integral to and binding on any contractual agreement related to this RFQ.
8. **The contract will be awarded as a package.**
9. The AGENCY reserves itself the right, however, to waive any such defect in Tender received. It also reserves to itself, the right to reject any and all Tenders, including that of the lowest Tenderer, for any reason whatsoever without disclosing the reason therefore.
10. For contracts for goods and/or services, the contractor would represent and warrant that "it shall ensure that the procurement of goods and/or services under this Contract shall be in accordance with international law, United Nations Security Council and General Assembly resolutions, and the rules, regulations, and policies promulgated by UN principal organs, and consistent with the United Nations Guiding Principles on Business and Human Rights."
11. For partnerships, the Partner would undertake to UNRWA that "it conduct itself in accordance with international law, United Nations Security Council and General Assembly resolutions, and the rules, regulations, and policies promulgated by UN principal organs, and consistent with the United Nations Guiding Principles on Business and Human Rights."
12. The contractor should be committed to COVID-19 pandemic preventive measures while delivering the services to the beneficiaries.

Supplier Name

Signature

Date