

REQUEST FOR QUOTATION (RFQ)

RFQ Reference: RFQ/LBY/SFL/2021/022	
LOT 1: Supply and installation of Dialysis Centre Bent Bya / 40 KW Off- grid (with grid switch) Solar Power System in Bent Bya, Libya	Date: 16 April 2021
LOT 2: Supply and installation of Isolation centre & Medical Lab Bent Bya / 45 KW Off-grid in (with grid switch) Solar Power System in Bent Bya, Libya.	

SECTION 1: REQUEST FOR QUOTATION (RFQ)

UNDP kindly requests your quotation for:

Lot 1 - Supply and installation of Dialysis Centre Bent Bya / 40 KW Off-grid (with grid switch) Solar Power System in Bent Bya, Libya

and

Lot 2 - Supply and installation of Isolation centre & Medical Lab Bent Bya / 45 KW Off-grid in (with grid switch) Solar Power System in Bent Bya, Libya. (Lot 2), as detailed in Annex 1 of this RFQ.

This Request for Quotation comprises the following documents:

Section 1: This request letter

Section 2: RFQ Instructions and Data

Annex 1: Schedule of Requirements

Annex 2: Quotation Submission Form

Annex 3: Technical and Financial Offer

When preparing your quotation, please be guided by the RFQ Instructions and Data. Please note that quotations must be submitted using Annex 2: Quotation Submission Form and Annex 3 Technical and Financial Offer, by the method and by the date and time indicated in Section 2. It is your responsibility to ensure that your quotation is submitted on or before the deadline. Quotations received after the submission deadline, for whatever reason, will not be considered for evaluation.

Thank you and we look forward to receiving your quotations.

Issued by:

Signature:

Shohrukh Abdulloev Name: Title: Procurement Specialist (HoSC a.i.) Date: 16/04/2021

SECTION 2: RFQ INSTRUCTIONS AND DATA

Introduction	Bidders shall adhere to all the requirements of this RFQ, including any amendments made in writing by UNDP. This RFQ is conducted in accordance with the <u>UNDP Programme and Operations Policies</u> <u>and Procedures (POPP) on Contracts and Procurement</u>					
	Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this RFQ. UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.					
Deadline for	29 April 2021, Time: 14:00 hours, Tripoli, Libya time, ref. www.greenwichmeantime.com and					
the Submission of Quotation	via email at <u>tenders.ly@undp.org</u> .					
Site visit	An organized site visit, subject to government movement restrictions, is arranged on 21 April 2021 at below timing:					
	Lot 1 - Location: Dialysis Centre in Bent Bya, Libya at 10:00 hrs. (Tripoli Time) Project Location: 26.625923, 13.623148.					
	Lot 2 Location: Isolation centre & Medical Lab in Bent Bya, Libya at 12:00 hrs. (Tripoli Time) Project Location: 26.645228, 13.656177.					
	Focal Person(s): Eng. Moulay Bukayrat Cell: +218-92 443 2210					
	Eng. Ashraf Omar (for site visit) Cell: +218-91 711 8100					
Method of Submission	Quotations must be submitted as follows:					
300111551011	Dedicated Email Address at <u>tenders.ly@undp.org</u> .					
	 File Format: PDF, Word and Excel formats File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard. 					
	 All files must be free of viruses and not corrupted. 					
	 Max. File Size per transmission: 10 MB 					
	 Mandatory subject of email: RFQ/LBY/SFL/2021/022 					
	 Multiple emails must be clearly identified by indicating in the subject line "email no. X of Y", and the final "email no. Y of Y. 					
	 It is recommended that the entire Quotation be consolidated into as few attachments as possible. 					
Cost of	UNDP shall not be responsible for any costs associated with a Supplier's preparation and submission					
preparation of quotation	of a quotation, regardless of the outcome or the manner of conducting the selection process.					
Supplier Code of Conduct, Fraud,	All prospective suppliers must read the United Nations Supplier Code of Conduct and acknowledge that it provides the minimum standards expected of suppliers to the UN. The Code of Conduct, which includes principles on labour , human rights , environment and ethical conduct may be found at: <u>https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct</u>					
Corruption,	Moreover, UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors to observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at					

	http://www.undp.org/content/undp/en/home/operations/accountability/audit/office of audit an
	dinvestigation.html#anti
Gifts and	Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including
Hospitality	recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches, dinners or similar. In pursuance of this policy, UNDP: (a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question; (b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for the ractices in competing for, or in executing a UNDP contract.
Conflict of Interest	UNDP requires every prospective Supplier to avoid and prevent conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RFQ. Bidders shall strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Bidders must disclose in their Bid their knowledge of the following: a) If the owners, part-owners,
	officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this RFQ.
	The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this RFQ, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.
General	Any Purchase Order or contract that will be issued as a result of this RFQ shall be subject to the
Conditions of	General Conditions of Contract
Contract	Select the applicable GTC:
	General Terms and Conditions / Special Conditions for Contract.
	□ General Terms and Conditions for de minimis contracts (services only, less than \$50,000)
	General Terms and Conditions for Works
	Applicable Terms and Conditions and other provisions are available at UNDP/How-we-buy
Special Conditions of Contract	 Cancellation of PO/Contract if the delivery/completion is delayed by [indicate number of days] Others
	The Performance Guarantee referred to in Clause 10 of the General Conditions shall be deducted from each invoice of the Contractor for an amount of 10 (ten) percent of the invoice amount until it reaches 10 (ten) percent of the total estimated price of the Contract. Performance guarantee of 10% of the estimated price of the contract will be returned to the contractor, upon completion of 06 (six) months Defect Liability Period and issuance of Certificate of Final Completion. During the 06 (six) months of Defect Liability Period, the contractor is obligated to correct, repair and / or reconstruct any faults as may arise or any items listed in the Certificate of Substantial Completion by UNDP, at the Contractors own cost and within 14 (fourteen) calendar days of notification by UNDP.
	According to Clause 45 of the General Conditions, the liquidated damages for delay shall be 0.5 (zero- point five percent) % of the price of the Contract per day of delay, up to a maximum of 10% of the final price of the Contract.
Eligibility	A vendor who will be engaged by UNDP may not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or

	temporary suspension imposed by these organizations. Failure to do so may result in termination of
	any contract or PO subsequently issued to the vendor by UNDP.
	It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established
	by UNDP.
	Bidders must have the legal capacity to enter a binding contract with UNDP and to deliver in the country, or through an authorized representative.
Currency of Quotation	Quotations shall be quoted in United States Dollars (USD)
Joint	If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium
Venture,	or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to
Consortium	act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or
or	Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the
Association	legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture, Consortium or Association. Refer to Clauses 19 – 24 under <u>Solicitation policy</u> for details on the applicable provisions on Joint Ventures, Consortium or Association.
Only one Bid	The Bidder (including the Lead Entity on behalf of the individual members of any Joint Venture, Consortium or Association) shall submit only one Bid, either in its own name or, if a joint venture, Consortium or Association, as the lead entity of such Joint Venture, Consortium or Association. Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:
	 a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or b) they have the same legal representative for purposes of this RFQ; or
	c) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of, another Bidder regarding this RFQ process;
	d) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or
	e) some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this RFQ process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.
Duties and	Article II, Section 7, of the Convention on the Privileges and Immunities provides, inter alia, that the
taxes	United Nations, including UNDP as a subsidiary organ of the General Assembly of the United Nations, is exempt from all direct taxes, except charges for public utility services, and is exempt from customs restrictions, duties, and charges of a similar nature in respect of articles imported or exported for its official use. All quotations shall be submitted net of any direct taxes and any other taxes and duties, unless otherwise specified below:
	All prices must:
	 be inclusive of VAT and other applicable indirect taxes be exclusive of VAT and other applicable indirect taxes
Language of	English
quotation	Including documentation including catalogues, instructions and operating manuals.
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☑ List and value of ongoing Projects with UNDP and other national/multi-national organization with contact details of clients and current completion ratio of each ongoing project.				
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Clarifications	Requests for clarification from bidders will not be accepted any later than 3 days before the				
	submission deadline. Responses to request for clarification will be communicated via				
	procurement.ly@undp.org by emails only				
Evaluation	⊠The Contract or Purchase Order will be awarded to the lowest price substantially compliant offer				
method	Other One or more than one vendor, depending on the following factors:				
	Award for each Lot would be made to the "Lowest priced technically responsive, eligible and				
	qualified" vendor. As service provider may submit quotation for two Lots and may be lowest priced				
	for both Lots, therefore one service provider may get Purchase Order/ Contract for Lots where				
	service provider is the lowest priced technically responsive, eligible and qualified.				
Evaluation	SFull compliance with all requirements as specified in Annex 1				
criteria	⊠Full acceptance of the General Conditions of Contract				
	□Comprehensiveness of after-sales services				
	Earliest Delivery /shortest lead time				
	⊠Others				
	Minimum no. of years of experience in (civil works) general construction work: 5 (five) years				
	The company should have completed at least two similar in nature contracts with the contract				
	value of USD 50,000.00 for each contract. (Copies of contracts/POs and completion certificates				
	(handover of work) to be provided.				
	Qualification and suitability of the key personnel proposed for the contract including their				
	previous experience with same type of assignment:				
	a. Electrical Engineer/Project Manager - shall have a University Degree in Electrical engineering and				
	minimum 3 years of work experience;				
	b. Electrician - shall have a diploma and minimum of 3 years of work experience;				
	Submission of Implementation Timeline/Meeting the works completion deadline of (3 calendar				
	months).				
Right not to	UNDP is not bound to accept any quotation, nor award a contract or Purchase Order				
accept any					
quotation					
Right to vary	At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or				
requirement	decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of				
at time of	the total offer, without any change in the unit price or other terms and conditions.				
award					
Type of	Purchase Order				
Contract to	Contract Face Sheet (Goods and or Services) (this template is also utilised for Long-Term				
be awarded	Agreement) and if an LTA will be signed, specify the document that will trigger the call-off. E.g., PO,				
	etc.)				
	⊠Contract for Goods and-or Services				
	Other Type/s of Contract [pls. specify]				
Expected	30 June 2021				
date for					
contract					
award.					
Publication	UNDP will publish the contract awards valued at USD 100,000 and more on the websites of the CO				
of Contract	and the corporate UNDP Web site.				
Award					
Policies and	This RFQ is conducted in accordance with <u>UNDP Programme and Operations Policies and Procedures</u>				
procedures					
UNGM	Any Contract resulting from this RFQ exercise will be subject to the supplier being registered at the				
registration	appropriate level on the United Nations Global Marketplace (UNGM) website at <u>www.ungm.org</u> .				
	The Bidder may still submit a quotation even if not registered with the UNGM, however, if the Bidder				
	is selected for Contract award, the Bidder must register on the UNGM prior to contract signature.				

ANNEX 1: SCHEDULE OF REQUIREMENTS - LOT 1

Scope of Work - Dialysis Centre (LOT 1) - Supply and installation of Dialysis Centre Bent Bya / 40 KW Off-grid (with grid switch) Solar Power System

Project Location: 26.625923, 13.623148. Bent Bya, Libya

The system is designed to cover the Essential loads in Supply and installation of Dialysis Centre Bent Bya / 40 KW Off-grid (with grid switch) Solar Power System and the system will be grid interactive connected with battery backup system, which will allow many power sources options.

The system will import from the grid when loads are being more than the generated from PV and supply surplus electricity to the batteries when PV generates more than the loads, the batteries can be charged from Grid if PV output is not enough for loads and batteries.

The Contractor shall perform a detailed engineering site survey to acquire all necessary information for preparation of design documentation and discuss technical issues with representatives of all relevant stakeholders.

Contractor shall submit shop drawings for all architectural, civil, electrical and a complete photovoltaic solar system works, including a single line diagram showing all the components of the PV system, DC and AC distribution boards, PV Arrays lay out and battery backup systems connections and cables, wires cross section for all the system to be approved by the Engineer before executing the work.

Contractor shall submit the catalogues of each component showing the requested specifications stated at the bill of quantity.

The contractor shall submit the Manufacture testing certificate, country of origin, certified characteristics, test performance curves, spare parts regular (as recommended by manufacturer, maintenance manuals and manufacturer's warranty for each components of the system.

As-built drawings and writing setting parameters shall be submitted after handing over the work.

Upon completion of the installation, the contractor shall organize an on-site training program for operation and maintenance purpose involving nominated employer's staff. Such a program shall be carried out during the commissioning phase. The cost of the training shall be deemed to have been included in the tendered rates.

The price includes all builders' works, making good and reinstatement including necessary materials and workmanship as well as removal of unwanted materials to dump sites approved by the engineer to complete the job successfully.

All the electrical works shall be executed according to IEEE Standards, specifications and supervisor Engineer instructions.

The contractor shall arrange for all required safety measures, signs, and protections around the sites.

Delivery Requirements

Delivery Requirements			
Delivery date and time	Bidder shall deliver the goods Click or tap here to enter text. after Contract signature.		
Delivery Terms (INCOTERMS 2020)	DAP		
	□ Not applicable		
Customs clearance	Shall be done by:		
(must be linked to	Name of organisation (where applicable)		
INCOTERM	Supplier/bidder		
	Freight Forwarder		
Exact Address(es) of Delivery Location(s)	Dialysis Centre Bent Bya, Libya		
Distribution of shipping	As per the BoQ		
documents (if using			
freight forwarder)			
Packing Requirements	As per the BoQ		
Training on Operations and Maintenance	As per the BoQ		
Warranty Period	One Year after completion of works and acceptance certificate approved by UNDP		
	Engineer		
After-sales service and			
local service support requirements	As per the BoQ		
Preferred Mode of	Land		
Transport			

ANNEX 1: SCHEDULE OF REQUIREMENTS – LOT 2

Scope of work - Isolation centre & Medical Lab (LOT 2) - Supply and installation of Isolation centre & Medical Lab Bent Bya / 45 KW Off-grid (with grid switch) Solar Power System

Project Location: 26.645228, 13.656177. Bent Bya Libya

The system is designed to cover the Essential loads in Supply and installation of Isolation centre & Medical Lab Bent Bya / 45 KW Off-grid (with grid switch) Solar Power System and the system will be grid interactive connected with battery backup system, which will allow many power sources options.

The system will import from the grid when loads are being more than the generated from PV and supply surplus electricity to the batteries when PV generates more than the loads, the batteries can be charged from Grid if PV output is not enough for loads and batteries.

The Contractor shall perform a detailed engineering site survey to acquire all necessary information for preparation of design documentation and discuss technical issues with representatives of all relevant stakeholders.

Contractor shall submit shop drawings for all architectural, civil, electrical and a complete photovoltaic solar system works, including a single line diagram showing all the components of the PV system, DC and AC distribution boards, PV Arrays lay out and battery backup systems connections and cables, wires cross section for all the system to be approved by the Engineer before executing the work.

Contractor shall submit the catalogues of each component showing the requested specifications stated at the bill of quantity.

The contractor shall submit the Manufacture testing certificate, country of origin, certified characteristics, test performance curves, spare parts regular (as recommended by manufacturer, maintenance manuals and manufacturer's warranty for each components of the system.

As-built drawings and writing setting parameters shall be submitted after handing over the work. Upon completion of the installation, the contractor shall organize an on-site training program for operation and maintenance purpose involving nominated employer's staff. Such a program shall be carried out during the commissioning phase. The cost of the training shall be deemed to have been included in the tendered rates. The price includes all builders' works, making good and reinstatement including necessary materials and workmanship as well as removal of unwanted materials to dump sites approved by the engineer to complete the job successfully. All the electrical works shall be executed according to IEEE Standards, specifications and supervisor Engineer instructions.

The contractor shall arrange for all required safety measures, signs, and protections around the sites.

Delivery Requirements

Delivery Requirements			
Delivery date and time	Bidder shall deliver the goods Click or tap here to enter text. after Contract signature.		
Delivery Terms (INCOTERMS 2020)	DAP		
Customs clearance (must be linked to INCOTERM	 Not applicable Shall be done by: Name of organisation (where applicable) Supplier/bidder 		

	Freight Forwarder				
Exact Address(es) of	Isolation centre & Medical Lab Bent Bya, Libya.				
Delivery Location(s)					
Distribution of shipping	As per the BoQ				
documents (if using					
freight forwarder)					
Packing Requirements	As per the BoQ				
Training on Operations	As partha PaQ				
and Maintenance	As per the BoQ				
Marranty Pariod	One Year after completion of works and acceptance certificate approved by UNDP				
Warranty Period	Engineer				
After-sales service and					
local service support	As per the BoQ				
requirements					
Preferred Mode of	Choose an item.				
Transport					

ANNEX 2: QUOTATION SUBMISSION FORM

Bidders are requested to complete this form, including the Company Profile and Bidder's Declaration, sign it and return it as part of their quotation along with Annex 3: Technical and Financial Offer. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.

Name of Bidder:	Click or tap here to enter text.		
RFQ reference:	RFQ/LBY/SFL/2021/022	Date: Click or tap to enter a date.	

Company Profile

Item Description	Detail		
Legal name of bidder or Lead entity for JVs	Click or tap here to enter text.		
Legal Address, City, Country	Click or tap here to enter text.		
Website	Click or tap here to enter text.		
Year of Registration	Click or tap here to enter text.		
Legal structure	Choose an item.		
Are you a UNGM registered vendor?	□ Yes □ No If yes, insert UNGM Vendor Number		
Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):	□ Yes □ No		
Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):	□ Yes □ No		
Does your Company have a written Statement of its Environmental Policy? (<i>If yes,</i> <i>provide a Copy</i>)	□ Yes □ No		
Does your organization demonstrate significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade	□ Yes □ No		

institutions promoting such issues (If yes, provide a Copy)						
Is your company a member of the UN Global Compact		□ Yes □ No				
Bank Information		Bank Name: Click or tap here to enter text. Bank Address: Click or tap here to enter text.				
			tap here to enter			
			SWIFT/BIC: Click or tap here to enter text.			
			ncy: Click or tap	here to enter text.		
		Bank Account Number: Click or tap here to enter text.				
		Previous rele	vant experience	: 2 contracts		
Name of previous contracts	Cont	& Reference act Details ding e-mail	Contract Value	Period of activity	Types of activities undertaken	

Bidder's Declaration

Yes	No	
		Requirements and Terms and Conditions: I/We have read and fully understand the RFQ, including the RFQ Information and Data, Schedule of Requirements, the General Conditions of Contract, and any Special Conditions of Contract. I/we confirm that the Bidder agrees to be bound by them.
		I/We confirm that the Bidder has the necessary capacity, capability, and necessary licenses to fully meet or exceed the Requirements and will be available to deliver throughout the relevant Contract period.
		Ethics : In submitting this Quote I/we warrant that the bidder: has not entered into any improper, illegal, collusive or anti-competitive arrangements with any Competitor; has not directly or indirectly approached any representative of the Buyer (other than the Point of Contact) to lobby or solicit information in relation to the RFQ ;has not attempted to influence, or provide any form of personal inducement, reward or benefit to any representative of the Buyer.
		I/We confirm to undertake not to engage in proscribed practices, , or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we have read the United Nations Supplier Code of Conduct : <u>https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct</u> and acknowledge that it provides the minimum standards expected of suppliers to the UN.
		Conflict of interest: I/We warrant that the bidder has no actual, potential, or perceived Conflict of Interest in submitting this Quote or entering a Contract to deliver the Requirements. Where a Conflict of Interest arises during the RFQ process the bidder will report it immediately to the Procuring Organisation's Point of Contact.

Yes	No	
		Prohibitions, Sanctions: I/We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium members or subcontractors or suppliers for any part of the contract is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists and have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization.
		Bankruptcy : I/We have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future.
		Offer Validity Period: I/We confirm that this Quote, including the price, remains open for acceptance for the Offer Validity.
		I/We understand and recognize that you are not bound to accept any Quotation you receive, and we certify that the goods offered in our Quotation are new and unused.
		By signing this declaration, the signatory below represents, warrants and agrees that he/she has been authorised by the Organization/s to make this declaration on its/their behalf.

Signature:

- Name: Click or tap here to enter text.
- Title: Click or tap here to enter text.

Date: Click or tap to enter a date.

Reference Number: RFQ/LBY/SFL/2021/022

Project Name: Supply and installation of Dialysis Centre Bent Bya / 40 KW Off-grid (with grid switch) Solar Power System in Bent Bya, Libya - (LOT 1)

Project Location - Bent Bya, Libya

Item	Description	Unit	Qty	Rate in USD	Amount in USD
	Solar Power System				
A	 General The system is designed to cover the Essen The system will be grid interactive connected with battery batoptions. The system will import from the grid when loads are the surplus electricity to the batteries when PV generates more than PV output is not enough for loads and batteries. The Contractor shall perform a detailed engineering site survey of design documentation and discuss technical issues with Contractor shall submit shop drawings for all architectural, civil works, including a single line diagram showing all the component PV Arrays lay out and battery backup systems connections and approved by the Engineer before executing the work. Contractor shall submit the catalogues of each component shof The contractor shall submit the Manufacture testing certific performance curves, spare parts regular (as recommended manufacturer's warranty for each components of the system. As-built drawings and writing setting parameters shal Upon completion of the installation, the contractor shall be deem The price includes all builders' works, making good and workmanship as well as removal of unwanted materials to dump successfully. All the electrical works shall be executed according to IEEE instructions. The contractor shall arrange for all required safety measures, state is the state of the succession. 	ackup system being more in the loads, y to acquire th represe l, electrical a ints of the P ¹ l cables, win owing the r ate, countr ate,	m, which wi than the ge the batterie all necessary ntatives of and a comple V system, DO res cross sec requested sp y of origin, wi nufacturer, nitted after nsite training ogram shall e been includin oved by the sec , specificatio	Il allow man nerated fro s can be cha y informatic all releva ete photovo C and AC dis tion for all becifications certified ch maintenan handing g program f be carried uded in the ng necessa engineer to	ny power sources om PV and supply arged from Grid if on for preparation ont stakeholders. oltaic solar system stribution boards, the system to be a stated at the bill quantity. aracteristics, test ce manuals and over the work. for operation and d out during the e tendered rates. ry materials and complete the job pervisor Engineer

	PV Modules – 40 Kwp			
A1	Supply, install, connect and operate Mono Crystalline or Polycrystalline Photovoltaic Solar Modules with all material needed to have complete job ready for installing high quality PV modules with total arrays capacity to achieve 40 KWp. The item Includes supply, install &connect the following: • Water proof PV junction boxes IP65 for each array including DC Fuses, DC LTL, bus bars, terminals, ducts or trays, supports &labels suitable to the PV arrays loads. • Solar DC cables appropriately sized to connect the PV solar cells together and to the J.B and from J.B to the inverter directly to have a complete operational circuit with all conduits, clamps , trays and cable end terminations which shall be DC plug and socket connectors . The DC cables must be sized in accordance with the installation requirements applicable on site, the allowable voltage drop for DC cables between PV Arrays and inverter less than 1%. • The contractor must obtain 40 kwp from PV system as minimum. In case the proposed PV modules results in extra kw than this is deemed to be accounted for the proposed ratio. Contract will be pay only 40kwp.	Kwp	40	
A2	Inverters - 40 KW Supply, install, connect and operate DC/AC Off-grid (with grid switch) Solar Power System 3-phase inverter, Rated DC Voltage: 48V, Grid Input Voltage: 380 VAC, Input frequency: 50HZ, Output Voltage: 380 VAC, Output Frequency: 50HZ, Pure Sine Wav. with data communication unit with Ethernet connection, (monitoring and controlling unit). (Type is SMA or equivalent). The inverter with must be suited to any PV module configuration and depending on the system design and installation proposed and for the future extended also. The DC max power input rating should be equal or more than 40 KW of the PV modules capacity at standard test condition. The inverter unit shall be suitable for indoor and outdoor installations with IP65. The inverter AC nominal power output rating must be equal or greater than 40 KW compatible with the AC loads design. Protections: reverse polarity, short-circuit, overvoltage, undervoltage, over-discharge, antithunder. Include (MPPT Charge controller),Remote Control Unit (RC Unit) compatible with inverter rated power 40 Kw with all necessary (automatic transfer control box),interface modules and connections for masters & slaves , electrical cables and data communication unit with Ethernet connection, connectable in parallel and modularly extendable. The Battery Inverter must include the following concepts such as (Ac and	Set	1	

_	1			 1
A3	 DC coupling, High efficiency, intelligent battery management for maximum battery life, charge level calculation, extreme overload capability, and battery temperature sensing and battery current measurements). And connect all DC cables appropriately sized in accordance with the installation requirements and to connect the inverters with PV system designed with all conduits, clamps, trays and cable terminations end which shall be DC plug and socket connectors to have a complete job, the allowable voltage drop for DC cables between inverters and PV system not less than 1%. Battery Bank Supply, install, connect and operate 12V, 200AH gel Battery, 2.4 KWh, The batteries must provide high-quality and achieving superior performance, the manufacturing date must be new and not more than 6 months, suitable for every type of applications especially for solar renewable energy, designed Service Life 10 years with low internal resistance, designed to be deeply discharged. The Battery should provide benefits of being maintenance free, case flame retardant & non-hazardous. The price Includes supply, install &connect Battery temp. sensor (BTS) and the following: All necessary DC cables between the batteries together and to the battery fuse box to have a complete operational circuit with all bus bars, conduits, clamps, stainless steel bolts, washers and cable end terminations and all needed materials to complete the job. All DC cables must be sized in accordance with the installation requirements applicable on site , the allowable voltage drop must be less than 1%. Battery Banks rack from the same manufacturer of the batteries with dividers and all needed accessories to finish the job. the rack must be enough to carry 	No	70	
	all the weight of the required batteries for the system.PVMountingstructureSupply and install Module mounting structure from hot galvanized steel Angles foundation suitable to the dimension of selected PV modules and PV numbers, the mounting provides a fixed inclination of the modules 26-30 degree with 			
A4	structure must covered with approved type of Epoxy painting with approved colour with painting layers approved types with all testing, the structure includes bracing and double hot galvanized angles for dividers. The mounting structures and the foundations must be designed structurally to be suitable to withstand all static loads (weight of modules, wind loads etc) that might occur according to the Site conditions. The mounting structure components are bonded together to guaranty potential equalization.	L.S	1	

	All works and materials must be according to drawings, specifications and supervisor instructions and approval.			
Α5	Earthing System For AC Side Supply, install, connect and operate complete independent earthing system for PV solar system, must be separated of the main earthing system to obtain 2 ohm max resistance. the item includes (all required copper electrodes 15mm2 driven into ground to achieve the resistance low than 2 ohm, manholes with iron cover, earth joints, clamps, ducts , conduits and 25 mm2 flexible earthing copper wires and cables from the AC system components to the electrode to complete the system as specifications and supervisor engineer instruction's and approval.	L.S	1	
A6	Earthing for PV Structure Supply, install, connect and operate complete independent earthing system for PV solar system, must be separated of the main earthing system to obtain 2 ohm max resistance. the item includes (all required copper electrodes 15mm2 driven into ground to achieve the resistance low than 2 ohm, manholes with iron cover, earth joints, clamps, ducts , conduits and 25 mm2 flexible earthing copper wires and cables from the PV system components to the electrode to complete the system as specifications and supervisor engineer instruction's and approval.	L.S	1	
Α7	Supply, testing, commission, and maintenance all related of the electrical works in the site work. The price shall include supplying and installation of all needed material and works and provide all missing parts like electrical boards, missing cables, circuit breakers(DC/AC). junction box, cable tray, PVC conduits, fix all the system defects to ensure safe operation, (unless paid separately in the BoQ items) all in accordance with the requirement of the relevant Standards and the engineer's instructions	L.S	1	
	Total workscarried to summary			

Reference Number: RFQ/LBY/SFL/2021/022 Project Name: Supply and installation of Isolation centre & Medical Lab Bent Bya / 45 KW Off-grid (with grid switch) Solar Power System - (LOT 2)

Project Location - Bent Bya Libya

ltem	Description	Unit	Qty	Rate in USD	Amount in USD		
	Solar Power System						
	 General The system is designed to cover the Essential loads in of Isolation centre & Medical Lab Bent Bya. The system will be grid interactive connected with battery backup system, which will allow many power sources options. The system will import from the grid when loads are being more than the generated from PV and supply surplus electricity to the batteries when PV generates more than the loads, the batteries can be charged from Grid if PV output is not enough for loads and batteries. 						
	 The Contractor shall perform a detailed engineering site survey to acquire all necessary information for prepare of design documentation and discuss technical issues with representatives of all relevant stakes. Contractor shall submit shop drawings for all architectural, civil, electrical and a complete photovoltaic solar sworks, including a single line diagram showing all the components of the PV system, DC and AC distribution boar Arrays lay out and battery backup systems connections and cables, wires cross section for all the system to be apply the Engineer before executing the work. 						
A	 Contractor shall submit the catalogues of each component showing the requantity. The contractor shall submit the Manufacture testing certificate, countr performance curves, spare parts regular (as recommended by manufacturer, warranty for each components of the system. 	y of origin	n, certified	characteri	stics, test		
	 As-built drawings and writing setting parameters shall be submitted after handing over the work. Upon completion of the installation, the contractor shall organize an on site training program for operation and maintenance purpose involving nominated employer's staff. Such a program shall be carried out during the commissioning phase. The cost of the training shall be deemed to have been included in the tendered rates. The price includes all builders' works, making good and reinstatement including necessary materials and workmanship as well as removal of unwanted materials to dump sites approved by the engineer to complete the job successfully. All the electrical works shall be executed according to IEEE Standards, specifications and supervisor Engineer instructions. 						
	• The contractor shall arrange for all required safety measures, signs, and pr	otections a	round the	sites.			

	PV Modules – 45 Kwp			
A1	Supply, install, connect and operate Mono Crystalline or Polycrystalline Photovoltaic Solar Modules with all material needed to have complete job ready for installing high quality PV modules with total arrays capacity to achieve 45 KWp. The item Includes supply, install &connect the following: • Water proof PV junction boxes IP65 for each array including DC Fuses, DC LTL, bus bars ,terminals, ducts or trays, supports &labels suitable to the PV arrays loads. • Solar DC cables appropriately sized to connect the PV solar cells together and to the J.B and from J.B to the inverter directly to have a complete operational circuit with all conduits, clamps , trays and cable end terminations which shall be DC plug and socket connectors . The DC cables must be sized in accordance with the installation requirements applicable on site, the allowable voltage drop for DC cables between PV Arrays and inverter less than 1%. • The contractor has to obtain 45 kwp from PV system as minimum. In case the proposed PV modules results in extra kw than this is deemed to be accounted for the proposed ratio. Contract will be pay only 45kwp.	Kwp	45	
	Inverters - 45 KW Supply, install, connect and operate DC/AC Off-grid (with grid switch) Solar Power System 3-phase inverter, Rated DC Voltage: 48V, Grid Input Voltage: 380 VAC, Input frequency: 50HZ, Output Voltage: 380 VAC, Output Frequency: 50Hz, Pure Sine Wav. with data communication unit with Ethernet connection, (monitoring and controlling unit). (Type is SMA or equivalent). The inverter with must be suited to any PV module configuration and depending on the system design and installation proposed and for the future extended also. The DC max power input rating should be equal or more than 45 KW of the PV modules capacity at standard test condition. The inverter unit shall be suitable for indoor and outdoor installations with IP65.			
A2	The inverter AC nominal power output rating must be equal or greater than 45 KW compatible with the AC loads design. Protections: reverse polarity, short-circuit, overvoltage, undervoltage, over-discharge, antithunder. Include (MPPT Charge controller),Remote Control Unit (RC Unit) compatible with inverter rated power 45Kw with all necessary (automatic transfer control box),interface modules and connections for masters & slaves , electrical cables and data communication unit with Ethernet connection, connectable in parallel and modularly extendable. The Battery Inverter must include the following concepts such as (Ac and DC coupling, High efficiency, intelligent battery management for maximum battery life, charge level calculation, extreme overload capability, and battery temperature sensing and battery current measurements). And connect all DC cables appropriately sized in accordance with the installation requirements and to connect the inverters with PV system designed with all conduits, clamps, trays and cable terminations end which shall be DC plug and socket connectors to have a complete job, the	Set	1	

	allowable voltage drop for DC cables between inverters and PV system not less than 1%.			
A3	Battery Bank Supply, install, connect and operate 12V, 200AH gel Battery, 2.4 KWh, The batteries must provide high-quality and achieving superior performance, the manufacturing date must be new and not more than 6 months, suitable for every type of applications especially for solar renewable energy, designed Service Life 10 years with low internal resistance, designed to be deeply discharged. The Battery should provide benefits of being maintenance free, case flame retardant & non-hazardous. The price Includes supply, install &connect Battery temp. sensor (BTS) and the following:.All necessary DC cables between the batteries together and to the battery fuse box to have a complete operational circuit with all bus bars, conduits, clamps, stainless steel bolts, washers and cable end terminations and all needed materials to complete the job. All DC cables must be sized in accordance with the installation requirements applicable on site ,the allowable voltage drop must be less than 1%. Battery Banks rack from the same manufacturer of the batteries with dividers and all needed accessories to finish the job. the rack must be enough to carry all the weight of the required batteries for the system.	No	65	
Α4	PV Mounting structure from hot galvanized steel Supply and install Module mounting structure from hot galvanized steel Angles foundation suitable to the dimension of selected PV modules and PV numbers, the mounting provides a fixed inclination of the modules 26-30 degree with vertical supports, plates, screws and casting concrete foundations B250 (0.4*0.4*0.4) m3 for each leg, The PV structure must covered with approved type of Epoxy painting with approved colour with painting layers approved types with all testing, the structure includes bracing and double hot galvanized angles for dividers. The mounting structures and the foundations must be designed structurally to be suitable to withstand all static loads (weight of modules, wind loads etc) that might occur according to the Site conditions. The mounting structure components are bonded together to guaranty potential equalization. All works and materials must be according to drawings, specifications and supervisor instructions and approval.	L.S	1	
	Earthing System For AC Side			
Α5	Supply, install, connect and operate complete independent earthing system for PV solar system, must be separated of the main earthing system to obtain 2 ohm max resistance. the item includes (all required copper electrodes 15mm2 driven into ground to achieve the resistance low than 2 ohm, manholes with iron cover, earth joints, clamps, ducts, conduits and 25 mm2 flexible earthing copper wires and cables from the AC system components to the electrode to complete the system as specifications and supervisor engineer instruction's and approval.	L.S	1	

	Earthing for PV Structure			
A6	Supply, install, connect and operate complete independent earthing system for PV solar system, must be separated of the main earthing system to obtain 2 ohm max resistance. the item includes (all required copper electrodes 15mm2 driven into ground to achieve the resistance low than 2 ohm, manholes with iron cover, earth joints, clamps, ducts, conduits and 25 mm2 flexible earthing copper wires and cables from the PV system components to the electrode to complete the system as specifications and supervisor engineer instruction's and approval.	L.S	1	
Α7	Supply, testing, commission, and maintenance all related of the electrical works in the site work. The price shall include supplying and installation of all needed material and works and provide all missing parts like electrical boards, missing cables, circuit breakers(DC/AC). junction box, cable tray, PVC conduits, fix all the system defects to ensure safe operation, (unless paid separately in the BoQ items) all in accordance with the requirement of the relevant Standards and the engineer's instructions	L.S	1	
	Total workscarried to summary			

ANNEX 3: TECHNICAL AND FINANCIAL OFFER - GOODS

Bidders are requested to complete this form, sign it and return it as part of their bid along with Annex 2: Quotation Submission Form. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.

Name of Bidder:	Click or tap here to enter text.	
RFQ reference:	RFQ/LBY/SFL/2021/022	Date: Click or tap to enter a date.

Currency of the Quotation: USD INCOTERMS: DAP							
ltem No	Description	UOM	Qty	Unit price	Total price		
1.	LOT 1: Total work for Supply and installation of Dialysis Centre Bent Bya / 40 KW Off-grid (with grid switch) Solar Power System in Bent Bya. (as per the priced BOQ – Annex 2A)	LOT 1	1				
Total Final and All-inclusive Price							

Currency of the Quotation: USD INCOTERMS: Click or tap here to enter text.					
ltem No	Description	UOM	Qty	Unit price	Total price
1.	LOT 2: Total work for Supply and installation of Isolation centre & Medical Lab Bent Bya / 45 KW Off- grid in (with grid switch) Solar Power System in Bent Bya, Libya. (as per the priced BOQ – Annex 2A)	LOT 2	1		
Total Final and All-inclusive Price					

Total amount Lot A	
Total amount Lot B	
Grand Total Lot A+B	

Compliance with Requirements

	You Responses		
	Yes, we will comply	No, we cannot comply	If you cannot comply, pls. indicate counter - offer
Minimum Technical Specifications			Click or tap here to enter text.
Delivery Term (INCOTERMS)			Click or tap here to enter text.
Delivery Lead Time			Click or tap here to enter text.
Warranty and After-Sales Requirements			Click or tap here to enter text.
Validity of Quotation			Click or tap here to enter text.
Payment terms			Click or tap here to enter text.
Other requirements [pls. specify]			Click or tap here to enter text.

Other Information:

Estimated weight/volume/dimension of the Consignment:	Click or tap here to enter text.
Country/ies of Origin:	Click or tap here to enter text.
(if export licence required this must be submitted	
if awarded the contract)	

I, the undersigned, certify that I am duly authorized to sign this quotation and bind the company below in event that the quotation is accepted.				
Exact name and address of company	Authorized Signature:			
Company NameClick or tap here to enter text.	Date:Click or tap here to enter text.			
Address: Click or tap here to enter text.	Name:Click or tap here to enter text.			
Click or tap here to enter text.	Functional Title of Authorised			
Phone No.:Click or tap here to enter text.	Signatory: Click or tap here to enter text.			
Email Address:Click or tap here to enter text.	Email Address: Click or tap here to enter text.			