

داكار

Main Office

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REQUEST FOR QUOTATION

Supply and Installation of Complete Solar Water Supply System for Sayed Abad and Kotal Sorkh Villages Injil District of Herat Province

اعلان برای داوطلبی برای تهیه و نصب واتر پمپ با سیستم انرژی آفتابی در قریه های سید آباد و کوتل سرخ ولسوالی انجیل ولایت هرات

دفتر مرکزي گولايي وزيراباد پست بکس ۲۰۸ کابل، افغانستان تيلفون:۹۳۲۰۲۲۳۰۷۵+ موبايل: ۹۳۷۰۰۲۸۸۲۳۲ ايميل: www.dacaar.org

DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024 Date: March 28, 2024

DACAAR invites interested parties to submit their sealed offers for Supply & Installation of Two Complete Sets Solar Water Supply Systems with Fixed Stands and Water Pumps for Injil District of Herat Province as described in Annex (I).

Sealed offers must reach to DACAAR Main Office Logistics Unit located in Street No. 12, Paykobe-Naswar, Qalae-Fathullah, Kabul Province till 4:00 pm April 03, 2024.

The bid opening session will be held on April 04, 2024 at 10:00am in DACAAR Main Office in Kabul Province and the bid winner will be notified shortly after the bid opening session.

Terms and Conditions for the bid winner/participation

- 1. Delivery and Installation of Solar Water Supply System is in Sayed Abad and Kotal Sorkh Villages Injil District of Herat Province as described in Annex (II).
- 2. Installation & Delivery of Solar pump & solar system should be carried out by the company technicians.
- 3. DACAAR technical staff at site will inspect the function of solar system water pumps, before delivery and after installation in the targeted area.
- 4. The bidders have to provide solely information regarding the panels, panels stand and pumps, Also, prepare all the lists of materials needed in this project and attach the design of the solar system to their offer. (e.g. name of manufacturer etc..). Pump daily output design is also needed; otherwise, the offer will not be accepted. However, the materials for this project is herein inlisted in Annex (I), the supplier still can provide their own list required as per their deliberation, as well as to provide desing for connecting the solar panels with main switch and inverter.

داکار از کمپنی های علاقمند و واجد شرایط که خواهش اشتراک در پروسه داوطلبی داکار را داشته باشند دعوت به عمل میآورد تا در داوطلبی برای تهیه و نصب دو سیت مکمل سولر غیر متحرک واتر پمپ زیر آبی مجهز با سیستم انرژی آفتابی در ولسوالی انجیل و لایت هرات اشتراک نمایند که تفصیلات آن در ضمیمه (I) تذکر یافته است

آفرها باید الی تاریخ 03 اپریل 2024 ساعت 4:00 عصر به شعبه لوجستیکی دفتر مرکزی داکار واقع پایکوب نصوار سرک 12 قلعه فتح الله ولایت کابل سپرده شود.

مجلس آفرگشایی ساعت 10:00 قبل از ظهر تاریخ 04 اپریل 2024 در دفتر مرکزی داکار در ولایت کابل صورت میگیرد که متعاقباً برنده داوطلبی در اسرع وقت اطلاع خواهد یافت.

شرایط برای برنده داوطلبی/ اشتراک کننده گان

- [. انتقال و نصب سولر غیر متحرک واتر پمپ زیر آبی مجهز با سیستم انرژی آفتابی در قریه های سید آباد و کوتل سورخ ولسوالی انجیل ولایت هرات که در ضمیمه (II) ذکر گردیده صورت میگیرد.
- انتقال و نصب سولر پمپ و سولر سیستم باید توسط اشخاص مسلکی شرکت صورت بگیرید.
- پرسونل داکار نحوه کار سولر سیستم و واتر پمپ را قبل از انتقال و بعد از نصب کردن در ساحه مربوطه نظارت خواهند نمود.
- داوطلبان مکلف اند تا معلومات (مشخصات) مکمل را در مورد پنل های سولر، انورتردیجیتلی یا کنترولرعمومی دیجیتلی و پمپ زیر آبی که توسط انرژی سولر کار میکند، آب دهی روزانه یا ساعتوار، و کمپنی ساخت پنل ها و پمپ ها را ارایه نماید همچنان تمام لست مواد مورد ضرروت برای این پروژه لست شده است، ولی باز هم داوطلبان میتوانند که لست مواد مورد ضرورت این پروژه که اضافه ویا کمبود از لست داده شده باشد ضمیمه آفر خویش نمایند، همچنان لین دوانی شیشه های سولر همرای مین سویچ و انورتر را ترسیم و ضمیمه آفر خود نمایند در غیر آن آفر که معلومات فوق الذکر در آن گنجانیده نشده باشد، داکار از آن صرف نظر خواهد کرد.

- 5. The contractor must practically show total power (kw) generated by solar panels in proportion to the number of solar panels and submit DACAAR field colleague verified documents to DACAAR main office.
- 6. Minimum three years' guarrenty of complete system is required after successfully installation of complete solar systems and this fact must be clearly mentioned in the offer.
- 3% of total contract value will be seized as a service/ maintenance guarantee with DACAAR for three years. This amount will be refunded when the service/ maintenance guarantee period is successfully served.
 - If, the contractor is not responding during one week for the issue of system maintenance, then DACAAR reserves the rights to use the 3% guarantee to fix the system.
- 8. In case of delay without logical reasons in delivery & installation of Solar Systems 0.5% of total cost of undelivered items/ incomplete work will be charged as penalty for each official day of delay.
- Prices shall be given in Afghani (AFN) and shall include transport plus loading, unloading and complete installation of the systems in targeted areas. Offers without sign and stamp will not accepted.
- 10. The bid winner must deposit 10% of total contract value as a contract performance guarantee to DACAAR Bank Account, the amount is refundable after successful completion of the contract.
- 11. 2% Tax will be applicable on the companies which have valid business license and 7% Tax will be applicable on the companies that have invalid business license or on individuals who don't have business license, will be deducted from the contractor as a withholding tax. DACAAR will pay that amount to Ministry of Finance, the amount starts from (1 AFN).
- 12. Payment will be made after successfully & complete installation of solar pump with submission of invoice, confirmation of DACAAR relevant sites accountable within 15 working days.

- قراردادگیرنده باید پاور مجموعی سیستم را نظر به تعداد شیشه های سولر عملاً نشان داده و اسناد آنرا که تصدیق انجنیر ساحوی داکار در آن موجود باشد، به دفتر داکار ارایه نماید.
- ک. حد اقل معیاد تضمین و خدمات مکمل سیستم بعد از نصب تسلیمدهی مکمل سولرسیستم برای مدت سه سال میباشد، که این موضوع باید بشکل واضح و روشن در اسناد داوطلبی مشخص گردد.
- 7. %3 از مجموع ارزش قرارداد بطور ضمانت به مدت سه سال نزد داکار محفوظ میماند، و بعد از تکمیل مؤفقانه دوره ضمانت کار کرده گی سیستم این مبلغ به قرارداد گیرنده قابل برداخت میباشد.
- اگر قرارداد گیرنده در طول یک هفته به موضوع ترمیم و نگهداری شبکه پاسخ ندهد، داکار حق استفاده از ضمانت 3 فیصد قید شده را برای ترمیم سیستم محفوظ میدارد.
- در صورت تأخیر رساندن سیستم ها بدون عذر موجه در وقت معینه آن، مبلغ 0.5 فیصد از ارزش اموال/کار تأخیر شده به طور جرمانه در برابر هر روز رسمی تأخیر از طرف قراردادی تأدیه خواهد گردید.
- 9. قیمت ها باید به افغانی داده شود و شامل قیمت (مالیه دولتی، انتقال، بارگیری، تخلیه و نصب سولرسیستم باشد) قیمت های بدون مهر و امضا قابل قبول نمیباشد.
- 10. شرکت برنده باید مبلغ %10 از مجموع ارزش قرارداد را بحیث تضمین اجرائیوی مؤفقانه قرارداد را به حساب داکار جمع نماید، و مبلغ متذکره بعد از تکمیل مؤفقانه قرارداد باز بر داخت میباشد.
- 11. %2 مالیه برای شرکت هائیکه دارای جواز با اعتبار میباشد، و %7 مالیه برای شرکت هائیکه دارای جواز معیاد اعتبار آن ختم باشد، و یا اشخاصیکه جواز ندارند توسط داکار وضع گریده و به وزارت مالیه پرداخت میشود، آغاز مبلغ مالیه از (1 افغانی) میباشد.
- 12. تأدیه پول بعد از تکمیل نمودن مؤفقانه قرارداد و بعد از تصدیق نمودن مسؤل ساحوی داکار در جریان 15 روز کاری قابل اجرأ میباشد.

- 13. Award of the contract will be based on the price, quality, capacity & potentiality of bidder. The evaluation of bidder and their product will be carried out and DACAAR reserves the right to make the decision of awarding contract.
- 14. DACAAR (Logistics Unit) adheres to National and International laws on child labour, DACAAR makes sure all its suppliers and vendors abide by such laws preventing child labour in all DACAAR activities countrywide.
- 15. DACAAR has a zero-tolerance policy on sexual exploitation, abuse and harassment, which is defined and described in the policy document "DACAAR policy on preventing and handling sexual exploitation, abuse and harassment".
- 16. The Humanitarian Organizations (HO) may conduct on- site visit in the contractor's premises (or may take similar measures) to ensure compliance.

- 13. برنده شدن قرارداد نظر به قیمت، کیفیت، توانائی و ظرفیت داوطلب بوده، و بعد از بررسی کمپنی و اجناس صورت میگیرد. البته داکار حق تصمیم گیری در این زمینه را دارا میباشد.
- 14. دفتر داکار (شعبه لوژیستیک) با درنظرداشت قوانین ملی و بین المللی برای جلوگیری از کار کودکان مصمم بوده و سعی میکند که تمام فعالیتهای تهیه کننده گان و مشتریان این اداره به این اصل یابند باشند.
- 15. داکار دارای پالیسی عدم تحمل در مورد سوء استفاده، بد رفتاری و آزار و اذیت جنسی میباشد و موقف داکار در همچون مسایل بطور تفصیلی در پالیسی مذکور تشریح شده است.
- 16. سازمان های بشر دوستانه (HO) ممکن است تا از محلات و سایت ها به بخاطر اطمینان خاطر و تطبیق درست کار توسط قرار داد گیرنده بازدید بعمل آورده ویا ممکن است اقدامات مشابهی را انجام دهند.

For more details, please visit DACAAR Logistics Unit Main Office Kabul, Sunday through Thursday, from 8:00AM to 03:00PM. Or contact on below Email Addresses: jamal@dacaar.org or wasimullah@dacaar.org

Yours Sincerely,

Manager – Logistics Unit Date: March 28, 2024

ANNEX (I)

فورم ارائه آفر / Budget Breakdown

DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024

Lot I: Complete Solar Water Supply System in Sayed Abad Village Injil District of Herat Province:

S/N	•		Total QTY	Unit Price (AFN)	Total Price (AFN)
1	Submersible Water Pumps, European Made IP(65-68). Total static head 91m with water flow 1.05 liter/sec.	No	1		
2	Digital Solar Inverter, European Made IP(65-68) with water proof metal box and proper lock. The digital Solar Inverter to provide required power from solar panels to the submersible water pump and run the system normally in the year (Jan-Dec).	No	1		
3	Monocrystalline/Polycrystalline Solar Panels European made Grade A IP68. The solar panels will be according to the required submersible pump and inverter powers.	Watts	5,400		
4	Stand for the Solar Panels to be considered according to attached specifications and drawings.	lump sum	1		
5	Submersible Drop power Cable according to pump power design from Inverter to Submersible water pump (made in Turkey or Iranian).	Meter	128		
6	Power Cable 1*6mm ² from Solar panels to Inverter (Made in Turkey or Iranian).	Meter	80		
7	Dry Running sensor inside the well, for protection of submersible water pump with required cable and other needed accessories.	lump sum	1		
8	Grounding/earthing (earthing System or Grounding System of network work as a safety measure from lightening arrestor to protect human life as well as equipment and other needed accessories according to attached specifications and drawings).	Set	1		
9	Electrical conduit pipe for external power cables (Made in Taiwan).	Meter	45		
10	Auto fuses AC/DC (Made in Turkey) with other required accessories.	lump sum	1		
11	Wire tie white and black	Pocket	2		
12	Water flow meter and needed fittings/ accessories in accordance the pump rising pipe diameter (Made in Turkish or Iranian).	lump sum	1		
13	Plastic rope for holding solar submersible water pump diameters (16)mm φ with all needed accessories	Meter	220		
14	Delivery pipe (PE 100, PN16 DN50mm) according to design with required connections, and necessory fittings from submersible water pump outlet up to Ground water Reservoir inlet. The trenches excavation must be (1m deep and 0.7 m wide).	Meter	678		
15	Transportation to village	lump sum	1		
16	Installation charges	lump sum	1		
	Grand Total including 2/7% Governemt Tax, Transportation and Ins	tallation C	Costs: AFN	1	

Bidder Name:	اسم آفر دهنده:
Address & Stamp:	آدرس کمپنی و مهر کمپنی:
Mobile No:	نمبر موبائيل :
Email Address:	آدرس ایمل:
Delivery Time:	زمان تحویلدهی:

acceptable.

ANNEX (I)

فورم ارائه آفر / Budget Breakdown

DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024

Lot II: Complete Solar Water Supply System in Kotal Sorkh Village Injil District of Herat province:

S/N	·		Total QTY	Unit Price (AFN)	Total Price (AFN)
1	Submersible Water Pumps, European Made IP(65-68). Total static head 107m with water flow 1liter/sec.	No	1		
2	Digital Solar Inverter, European Made IP(65-68) with water proof metal box and proper lock. The digital Solar Inverter to provide required power from solar panels to the submersible water pump and run the system normally in the year (Jan-Dec).	No	1		
3	Monocrystalline/Polycrystalline Solar Panels European made Grade A IP68. The solar panels will be according to the required submersible pump and inverter powers.		5,400		
4	Stand for the Solar Panels to be considered according to attached specifications and drawings.	lump sum	1		
5	Submersible Drop power Cable according to pump power design from Inverter to Submersible water pump (made in Turkey or Iranian).	Meter	128		
6	Power Cable 1*6mm ² from Solar panels to Inverter (Made in Turkey or Iranian).	Meter	80		
7	Dry Running sensor inside the well, for protection of submersible water pump with required cable and other needed accessories.	lump sum	1		
8	Grounding/earthing (earthing System or Grounding System of network work as a safety measure from lightening arrestor to protect human life as well as equipment and other needed accessories according to attached specifications and drawings).	Set	1		
9	Electrical conduit pipe for external power cables (Made in Taiwan).	Meter	45		
10	Auto fuses AC/DC (Made in Turkey) with other required accessories.	lump sum	1		
11	Wire tie white and black	Pocket	2		
12	Water flow meter and needed fittings/ accessories in accordance the pump rising pipe diameter (Made in Turkish or Iranian).	lump sum	1		
13	Plastic rope for holding solar submersible water pump diameters (16)mm φ with all needed accessories	Meter	220		
14	Delivery pipe (PE 100, PN16 DN50mm) according to design with required connections, and necessory fittings from submersible water pump outlet up to Ground water Reservoir inlet. The trenches excavation must be (1m deep and 0.7 m wide).	Meter	453		
15	Transportation cost to village Installation charges	lump sum	1		
16	Installation charges	lump sum	1		
	Grand Total including 2/7% Governemt Tax, Transportation and Inst	tallation C	osts: AFN		

Bidder Name:	اسم آفر دهنده:
Address & Stamp:	آدرس کمپنی و مهر کمپنی:
Mobile No:	نمبر موبائيل :
Email Address:	أدرس ايمل:
Delivery Time:	زمان تحویلدهی:

ANNEX (II)

Information about Types and Guaranty/Warranty of Solar Panels and Solar Pumps / معلومات و گرنتی سولر پنل و پمپ DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024

Complete Solar Water Supply System in Sayed Abad and Kotal Sorkh Villages Injil District of Herat Province:

No	Manufacturer of solar Submersible water pumps (Name of Company)	Guaranty period of submersible Water pumps (year)	Name (Model) of Solar Panels (Name of company)	Guaranty period of solar panels (year)	Name (Model) of Digital water proof Inverter (Name of company)	Guaranty period of water proof Inverter (year)
I	Name of company: Model or out let size by inch: Total power by Kw: Made in:		Name of company: Model & out put by Watt: Made in:		Name of company: Model: Total power by Kw: Made in:	
II	Name of company: Model or out let size by inch: Total power by Kw: Made in:		Name of company: Model & out put by Watt: Made in:		Name of company: Model: Total power by Kw: Made in:	

ANNEX (III)

پلان تخمینی کار / Tentative Work Plan

DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024

Complete Solar Water Supply System in Sayed Abad and Kotal Sorkh Villages Injil District of Herat Province:

Lot#	QTY	Items Description	Location of Installations	Contract Date	Completion Date
I	1 Set	Supply and Installation of Complete Solar Water Supply System Water Pump	Sayed Abad Village Injil District of Herat Province	Starts Upon DACAAR Contract Final Approval	May 10, 2024
II	1 Set	Supply and Installation of Complete Solar Water Supply System Water Pump	Kotal Sorkh Village Injil District of Herat Province	Starts Upon DACAAR Contract Final Approval	May 10, 2024

ANNEX (IV)

Technical Specification for Solar Pump Systems DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024

Part I: Complete Solar Water Supply System in Sayed Abad Village Injil District of Herat Province:

S/No	Specification	Unit	Quantity	Remark
1	uPVC Casing pipes/filtters Class E installed in the Tube Well	M	110.0	Inner diameter of uPVC Casing pipe is 8"= 203.2mm.
2	Total Depth of Production Well (PW)	M	110.0	Plan
3	Static Water level (SWL) of the Production Well	M	15.0	Plan
4	Well discharge	Lit/Sec	2.50	Plan
5	Water Draw Down of Tube Well	M	20.0	Plan
6	Dynamic Water Level in the Production Well	M	35.0	Plan
7	Submersible Water Pump Installation Depth	M	108.0	Plan
8	Height of Water Tank from the Well surface to top of the water tank	M	46.0	The water Tank ground surface is 43m higher than the Tube Well Surface + 3m height of the water tank.
9	Length of water delivery Pipe (PE 100-PN16 DN50mm) from submersible water pump to the Water Tank base.	M	678.0	The water tank is located 570m away from the Tube well, The trenche excavation must be (1m deep and 0.7 m wide).
10	Length of Electrical Cable from Pump to Inverter	M	128.0	Solar Panel stand is (20)m away from Tube Well and inverter is 10m a way from solar panels, the cable power losses will be calculated by bidder/supplier in accordance to the cable length and pump power.
11	equired Discharge	Lit/Sec	1.05	During handover the solar system should work for 8 hours/day and provide 30.24 m3/day
12	Static Head	M	91.0	1 bar extra for best water flow inside the Water Tank.
13	Total head	М	Static Head + Head losses	Head losses will be calculated by bidder/Supplier, according to delivery PE Pipe length, diameter and fittings for calculation of Total head.

ANNEX (IV)

Technical Specification for Solar Pump Systems DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024

Part II: Complete Solar Water Supply System in Kotal Sorkh Village Injil District of Herat Province:

S/No	Specification	Unit	Quantity	Remark
1	uPVC Casing pipes/filtters Class E installed in the Tube Well	M	110.0	Inner diameter of uPVC Casing pipe is 8"= 203.2mm.
2	Total Depth of Production Well (PW)	M	110.0	Plan
3	Static Water level (SWL) of the Production Well	M	18.0	Plan
4	Well discharge	Lit/Sec	2.70	Plan
5	Water Draw Down of Tube Well	M	37.00	Plan
6	Dynamic Water Level in the Production Well	M	55.00	Plan
7	Submersible Water Pump Installation Depth	M	108.0	Plan
8	Height of Water Tank from the Well surface to top of the water tank	M	42.0	The water Tank ground surface is 39m higher than the Tube Well Surface + 3m height of the water tank.
9	Length of water delivery Pipe (PE 100-PN16 DN50mm) from submersible water pump to the Water Tank base.	M	453.0	The water tank is located 345m away from the Tube well, The trenche excavation must be (1m deep and 0.7 m wide).
10	Length of Electrical Cable from Pump to Inverter	M	128.0	Solar Panel stand is (20)m away from Tube Well and inverter is 10m a way from solar panels, the cable power losses will be calculated by bidder/supplier in accordance to the cable length and pump power.
11	Required Discharge	Lit/Sec	1.00	During handover the Solar System should work for 8 hours/day and provide 28.8 m3/day
12	Static Head	M	107.00	1 bar extra for best water flow inside the Water Tank.
13	Total head	М	Static Head + Head losses	Head losses will be calculated by bidder/Supplier, according to delivery PE Pipe length, diameter and fittings for calculation of Total head.

Some Necessary Specifications:

- 1. When constructing multiple fixed stee and RCC stands, it is important to use reinforced concrete with a mixture ratio of M (1:1.5:3). The solar fixed stand is meant to be located on the ground, and the embedded strong hooks (J bolt 16mm steel bar) must be placed in the RCC column/ring beams. All steel bars should be deformed 60 grade and used in accordance with the attached drawing of the solar panels fixed stand. If solar stand is on the ground, 5cm PCC M (1:2:4) is under RCC footings and 5cm gravel/crash on the proper compacted base according to the attached drawings of solar panels fixed stand. If solar panels are on the roof, the RCC ring beam size will be (25*25) cm, 4N12 and stirrup diameter is 10mm on 20cm c/c.
- 2. Under the RCC footings, 5cm PCC M (1:2:4) with 5cm gravel/crash on the properly compacted base is used for the solar panel fixed stand according to the attached drawings.
- 3. Potential bidders should consider the use of 50x50mm steel angle iron, with an average thickness of 4mm, for vertical, horizontal, and crossed stands to support solar panel frames. Additionally, the use of 100x45mm steel girders with an average thickness of 8mm, secured with proper nut and bolts or welding at all joints, is recommended to resist all types of loads and pressures such as high winds, heavy snow, and earthquakes. Please refer to the attached drawings of the solar panel fixed stands for more information.
- 4. The angle irons of solar panels fixed stand should be well protected, it's recommended to apply proper corrosion-resistant coatings as well as additional two oil coats.
- 5. The location of the solar system and solar fixed stand should be adjusted according to the selected site and well-pumping test result.
- 6. Bidders are required to calculate the total head and power losses in pipes, fittings, and power cables in accordance with the system requirements and their own design. It is important to note that extra charges will not be accepted, except in exceptional cases where the Deputy Director/Head of Program approves it, and only if the situation demands it. However, in case of any ground reality, deductions are possible. It is mandatory to ground/earth all the elements, including the solar system lightning arrestor, by connecting them one by one to the ground copper rod using Copper-Cabled, Aluminum rod or box antenna as per the drawing of the fixed stand for the solar panel.
- 7. It is important to consider the wirings of the solar panels (series and parallel) based on the power requirements of the submersible pump and the inverter.

Note: It is crucial that the submersible water pump, controller/inverter, and solar panels are of European made and comply with all technical specifications and standard norms (national and international). For instance, the solar panel must be EU madem, grade A and produced recently, with an IP68 rating. The production company confirmation and all certificates are required for the solar panel, pump and inverter. Additionally, the inverter should have an IP65-68 rating. As this is an emergency project with limited time therefore, we designed/requested solar system as planned, as the well is not constructed so the design of the solar system may change as per actual design parameters.

ANNEX (V)

Drawings & Design / ديزاين

DACAAR RFQ 29 PRF-239 and 240/ECHO/2306-ECHO/ECHO1.6.9/WSHE/HRT-2002/03.2024 Complete Solar Water Supply System in Sayed Abad and Kotal Sorkh Villages Injil District of Herat Province







