

বাংলাদেশ অফিস :  
১২/৮, ইকবাল রোড, ব্লক-এ,  
মোহাম্মদপুর, ঢাকা-১২০৭  
দূরাল্পনীঃ ৪১০২২৪১৭, ৪১০২২৪৯১  
এনজিওএবি নিবন্ধন নং: ৫৬১  
মেয়াদ: ১৫-১১-২০৩১ খ্রী:

**BANGLADESH OFFICE :**  
12/8, Iqbal Road, Block-A  
Mohammadpur, Dhaka-1207  
Tel: +880 2 41022417, 41022491  
Web : www.worldconcern.org  
NGOAB Registration No: 561  
Validity: 15-11-2031

**Ref: WC / THRIVE / RFQ / 19052026 / 290**  
**May 19, 2026**  
**Dear Proprietors,**  
**Greetings from World Concern!**

World Concern is inviting you to submit a sealed or emailed price Quotation for the **portable solar pumping Systems** across one (01) designated areas under the THRIVE Project in Kalapara, Patuakhali.

Hence, vendors are requested to submit quotations per items, based on the detailed specifications attached with this RFQ. The quotation must include all materials, labor, equipment, and services required for full completion of the works as per specifications. The Work Order will be awarded to the vendor whose quotation meets all technical requirements and offers the most competitive price.

Please include delivery timeline, work completion schedule, and origin of the supplies used in your quotation. **Please submit your quotation to the address mentioned below by 4:30 pm on June 1, 2026.** Please note that oral quotations will not be accepted. If you have any questions regarding this Request for Quotations (RFQ), feel free to contact the Procurement Officer via written communication or by cell phone at **+8801731433661** during business hours (9:00 am to 4:00 pm).

Please be informed that email copy and hard copies of quotations will be accepted only within the stipulated deadline.

**Email Submission:**  
**Email: [wcbinfo@worldconcern.org](mailto:wcbinfo@worldconcern.org)**

**Hard Copy Submission:**  
World Concern (Bangladesh)  
12/8 Iqbal Road, Block-A  
Mohammadpur, Dhaka-1207



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**Specification for the portable solar pump**

SL	ITEMS	DESCRIPTION	ORIGIN	UOM	QTY
1	PV Module	<b>High-Efficiency Solar PV Module (430 Wp)</b> <b>Brand:</b> LONGi (original) high-performance module <b>Product warranty:</b> minimum 20 years (5*430)	China	Nos	5
2	Pump & Controller	<b>Surface Irrigation Pump (2HP, AC Pump)</b> <b>Power:</b> 2HP / 1.5kW (Single Phase, AC) <b>Suction &amp; Delivery:</b> 3" x 3" <b>Suction Head:</b> 7–10 meters <b>Flow Rate:</b> Around 3,00,000–3,60,000 Liters/day (≈6 hrs operation) <b>Irrigation Area:</b> 16–18 bigha <b>Warranty:</b> 2–3 years <b>Use:</b> for large-scale surface irrigation and solar-powered pumping. <b>Brand:</b> Bangladeshi ( EXP: RFL/ACI) <b>Controller:</b> 1.5KW, Single Phase, Micno KE300A-01 series solar pump inverter, both AC and DC input.	BD & China	Nos	1
3	3KW Hybrid Solar Inverter	Hybrid Solar Inverter: Input: 120VDC-430VDC Output: 230VAC, 48VDC <b>Brand: Growatt</b>	China	Pcs	1
4	Suction Hose Pipe	PVC Suction Hose Pipe (3")	BD	Meter	10
5	Delivery Hose Pipe	Delivery Hose Pipe (3")	BD	Meter	30
6	PV Cable	1×4 RM UV Resistance DC Solar Cable with Male and Female Connectors <b>Brand: Leader</b>	BD	Meter	50
7	Connection Cable	1×4 RM DC Cable	BD	Meter	30
8	Ground Cable	1×1.5 RM BYA Green, BRB	BD	Meter	10
9	Waterproof Electrical Enclosure	1' x 1' MS Waterproof Junction Box	BD	Set	1
10	Lightning Protection System	Copper pole 4' long, including base plate and fittings.	BD	Set	1
11	GI Pole	10 FT GI Pole, REB Standard	BD	Nos	1
12	Accessories	Cable Tie, PVC Tape, Electric Hose Pipe (3/4", 10m)	BD	Set	1



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13	(3) Three-wheeler Easy Bike for transporting a complete single-unit pump setup.	<p><b>Driving Mileage:</b> ≥90km  <b>Payload Capacity:</b> ≥1000-1200kg  <b>Grade Ability:</b> 15-20°  <b>Passengers:</b> 2  <b>Chair:</b> front Split body and back Split body as per photo  <b>Power:</b> 48V, 1000W  <b>Posterior Bridge:</b> Normal operation Afterburner  <b>Rear Axle Tube:</b> Integral bridge tube  <b>Brand Name:</b> SHULONG/Equivalent  <b>Maximum Speed:</b> 50-70Km/h  <b>Driving Type:</b> Electric  <b>Body Type:</b> Open  <b>Front / Rear Tires:</b> Front / back: 3.50-12 (non-interchangeable)  <b>Size:</b> 1.0 * 1.5 m  <b>Tire Size:</b> 450-14  <b>Meter:</b> Electronic machinery  <b>Use For:</b> Cargo (solar and pump in-built)  <b>Headlamp:</b> LED (single lamp)  <b>Electric Machinery:</b> 48V, 1000W  <b>Brake System:</b> Front drum+Rear drum (Steel/Rod 3 pcs)  <b>Voltage:</b> 48 V  <b>Controller:</b> 48V Easy Bike Motor Controller  <b>Chassis:</b> 1.5 and 2.5 box pipe (BSRM)</p> <p><b>Solar frame: Custom Size</b>  <input checked="" type="checkbox"/> <b>Type:</b> Detachable box-frame structure for easy bike  <input checked="" type="checkbox"/> <b>Size:</b> 7-8 ft (L) × 5-6 ft (W) × 7-8 ft (H) Suitable for the 430W, 5Pcs Solar Panel  <b>Materials:</b></p> <ul style="list-style-type: none"> <li>• MS Square Pipe (40×40 or 50×50 mm, 2.5-3 mm thickness)</li> <li>• MS Flat bar for reinforcement</li> <li>• Steel hinges for folding panels</li> <li>• Lock pins + U-bolts for chassis fixing</li> <li>• Aluminum solar mounting rails</li> <li>• Rubber pads for vibration control</li> </ul> <p><b>Design:</b></p> <ul style="list-style-type: none"> <li>• 2 side panels left + 2 side panels right (foldable)</li> </ul>	BD/ China	Set	1
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		<ul style="list-style-type: none"> <li>• 1 top panel (fixed)</li> <li>• All side panels open at ~23° angle</li> <li>• Strong cross-bracing for wind stability</li> <li>• Detachable from main vehicle frame</li> </ul> <p>Anti-corrosive paint and finishing with silver-coloured paint. (BSRM) <b>Motor:</b> 48v, 1000 W <b>Battery Bank:</b> Apollo LFP48150 (48V, 150AH) Lithium Battery, 5Years Warranty. <b>Charge Time(h):</b> 5-7h <b>Steering Mode:</b> Handle style <b>Braking Mode:</b> Front / rear drum brake <b>Certification:</b> China/BD</p>			
14	Iron Remover Plant with tank	<p>4-Step Water purification system</p> <ul style="list-style-type: none"> <li>• Multimedia filter</li> <li>• Iron removal filter</li> <li>• Activated carbon filter</li> <li>• Sediment filter</li> </ul> <p>*Capacity: 1000-2000LPH Tank Capacity: 300L Tank</p>	BD/China	Set	1
16	MCB	2P, 10A MCB Brand: Schneider/ABB	China	Pcs	2
17	Labour, technician, and installation costs		BD	Job	1

## 1. Base Vehicle Structure

### Easy Bike Body Modification

The original easy bike body will be modified into a **flat platform body**.

### Proposed Flat Body Size

- **Length:** 7–8 feet  
(excluding the driver's cabin/seat)
- **Width:** 5–6 feet

The platform should be made using:

- Heavy-duty MS square pipe frame
- Anti-rust coated steel structure
- Strong suspension support for carrying solar structure weight. Capacity Around-1000KG



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**2. Solar Structure Concept**

A removable and movable solar box structure will be installed on the flat body.

The structure will contain:

- **5 Solar Panels Total**
  - 2 panels on the left side
  - 2 panels on the right side
  - 1 fixed panel on the top

The structure will look like a **semi-box enclosure**, where:

- Front side → Open
- Rear side → Open
- Bottom → Open
- Left and right sides → Covered with foldable solar panels
- Top → Covered with fixed solar panel



**2.1: Solar Panel Arrangement**

**Side Solar Panels (Foldable)**

**Quantity**

- 4 panels total
  - 2 left side
  - 2 right side

**Size:** Approximate side coverage:

- **Length:** 7 feet
- **Height:** 8 feet

**Folding System**

The side panels must:

- Fold inward or upward
- Be movable using:
  - Heavy-duty hinges
  - Hydraulic support
  - Locking arm system



**Operating Angle**

When opened or deployed:

- Panels must stay at approximately:  $\theta \approx 23^\circ$

This angle helps improve:

- Solar efficiency
- Rainwater drainage
- Wind resistance



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**2.2: Top Solar Panel**

**Quantity:** 1 panel

**Size:** Approximate dimension: 7 × 5 feet

**Position**

- Mounted permanently on top
- Fixed at approximately:  $\theta \approx 23^\circ$

**No Folding Required**

**2.3: Detachable Locking System**

The complete solar structure should be detachable from the easy bike body.

**Locking Mechanism**

A strong lock-and-release system will connect:

- Solar structure frame
- Main flat body chassis

**Recommended System**

\*Industrial locking clamps \* Bolt-lock mechanism \*Quick-release latch system \*Safety pin locking

This will allow:

- Easy maintenance \*Easy transportation \* Structure removal when required
- Conversion back to normal flat-body easy bike

**2.4: Structural Material Recommendation**

**Frame Material**

Recommended:

- MS Square Pipe
- Galvanized Steel
- Lightweight Aluminium (optional for lower weight)

**Note:** This project is a mobile solar-powered multi-purpose system designed for irrigation, battery charging, and safe water supply. The main platform is a customized electric easy bike with a detachable solar structure carrying 5 high-efficiency 430Wp solar panels. The structure includes foldable side-mounted panels and one fixed top panel, allowing maximum solar energy collection while remaining movable and removable for flexible transportation and maintenance.

The system integrates a 2HP solar irrigation pump, a 3KW hybrid solar inverter, an iron remover water purification plant, and an easy bike battery charging system. All equipment, including controllers, batteries, and control panels, will be installed inside the easy bike body for compact and organized operation.

An intelligent load management system will ensure that only one major operation runs at a time for efficient energy utilization. When the irrigation pump operates, battery charging and the water purification system remain off. When battery charging is active, the water purification system remains off. Similarly, when the iron remover water filter operates, other systems remain inactive.

The project aims to provide sustainable irrigation, eco-friendly transportation, and safe drinking water using renewable solar energy in rural and remote areas.



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## Terms & Conditions

### 1. Scope of Supply

The winning vendor must supply all required materials, fittings, equipment, and fully execute solar system and provide the target areas of kalapara, Patuakhali.

### 2. Inclusive Quotation

The quotation must include:

- All materials, labor, transportation, tools, equipment, fittings, and other incidental costs.
- VAT (10%) and Tax (5%), which will be deducted at source as per Government of Bangladesh regulations.

### 3. Payment Terms

Payment will be made only after satisfactory completion of the work and submission of all required documentation as report, through Account Payee Cheque or Bank Transfer.

### 4. Work Completion Timeline

The selected vendor must complete all work within **20 (twenty) days** from the date of receiving the Work Order, ensuring high-quality workmanship and full compliance with the instructions provided by the Site Engineer.

### 5. Compliance & Safety Requirements

The contractor must:

- Follow all **safety guidelines** for labor and equipment
- Ensure safe waste disposal and environmental compliance
- Protect nearby structures, trees, and community pathways during construction

### 6. Quality Assurance

Materials used must comply with:

- Engineer-in-Charge instructions
- All items will be as per specification and of good quality.

### 7. Site Supervision

Work must be carried out under:

- The supervision of the engineer
- Regular monitoring visits by World Concern staff

### 8. Warranty / Defect Liability Period

The contractor shall provide a **minimum 6-month defect liability period**, covering:

- Inactivity of the system
- If original spare/items are not installed.

### 9. Security Money

World Concern will retain 5% of the total contract value as security money for a period of six months.

### 10. Penalty Clause

In case of:

- Delay in work completion
- Inferior quality
- Non-compliance with instructions



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**You are requested to submit the documents listed below along with the quotation: Incomplete quotation will not be considered.**

1. Quotation (You should include VAT & Tax as per Government rules, payment terms, delivery terms, and the expiration date of quotation).
2. Received copy of RFQ (signed & stamped)
3. Company Profile (Optional)
4. First/Second/Third-Class Contractor Certificate (Proof of Local Government certified contractor category.)
5. TIN / E-TIN Certificate
6. Income Tax return submission Certificate/acknowledgement (Updated)
7. Updated Trade License
8. Bank Account Details/ Copy of Bank Cheque
9. BIN Certificate (VAT Registration Certificate)
10. National ID Copy of the Proprietor
11. Bank Solvency certificate
12. Three Work Order/Purchase Order copies of the related category (last 3 years) as proof of experience in the applied product of service.

**N.B: World Concern reserves the right to cancel the RFQ process at any time.**

With thanks and best regards.



**Prodip Peter Gomes**  
Finance and Procurement Manager  
World Concern (Bangladesh)  
Mobile +8801714080127