REQUEST FOR QUOTATION (RFQ)  
FOR  
THE INSTALLATION OF 60 KW SOLAR ENERGY SYSTEM WITH NET METERING AT  
WORLD WIDE FUND FOR NATURE HEAD OFFICE, FEROZEPUR ROAD LAHORE  
(WWF-Pakistan)

WWF-Pakistan wants to hire the services of a reputable vendor for supplying, erection, commissioning and maintain solar energy system with net metering at the head office located inside Ali Institute of Education, P.O Box 5180, Near Ghulab Devi Hospital Ferozepur Road Lahore.

The vendor is required to provide following equipment and services:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Brand</th>
<th>Specification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar Panel (Tier 1)</td>
<td>JA Solar/Canadian/Jinko</td>
<td>540W JAM72S30-540/MR (1500V)</td>
<td>Monocrystalline</td>
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<tr>
<td>Inverter</td>
<td>Huawei/Sungrow</td>
<td>Grid Tied Inverter SUN2000-30KLT-M3 Three Phase, 4MPPT, IP-66 with Built in DC and AC SPDs</td>
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<tr>
<td>Smart Dongle 4G</td>
<td>Huawei</td>
<td>For online monitoring</td>
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<tr>
<td>Panel Mounting Structure</td>
<td>Local</td>
<td>Galvanized Iron, 3x1 Structure, 15° tilt, Pitch= 4.88m, Landscape Orientation with Civil Works 19 Civil Foundation: RCC 1x1x1 feet</td>
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</tr>
<tr>
<td>DC Cables</td>
<td>Newage, Fast</td>
<td>DC Cables: 1. 1C x 4mm sq DC 1500V Copper (up to 45m per run)</td>
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<tr>
<td>AC Breaker Box</td>
<td>IP54, Powder Coated Enclosures with housing space for 1x63A, AC 3P Breaker and AC SPD Type II</td>
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<tr>
<td>AC Breakers</td>
<td>ABB, Schneider</td>
<td>63A, 3P, MCB, 600V AC</td>
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<tr>
<td>Earthing Cable</td>
<td>Newage, Fast, Pakistan</td>
<td>Earthing Cables: 1. 1C x 6mm sq DC 450/750V Copper for PV Modules 2. 1C x 16mm sq 450/750kV Copper for Structures / 30 KTL Inverter</td>
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<tr>
<td>AC SPD</td>
<td>Sun Tree</td>
<td>AC SPD’s Type II</td>
<td></td>
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<tr>
<td>Earthing Pits</td>
<td>DC Earthing Pit (2) AC earthing Pit (1)</td>
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<tr>
<td>Lightning Arrestor</td>
<td>3ft Copper Rod, Copper ball, MS pipe 6 ft, 1x1x1 Civil Pad</td>
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<tr>
<td>Operations and Maintenance</td>
<td>1 Year Complementary Maintenance against defects, faults and workmanship. (Does not include module cleaning)</td>
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<tr>
<td>Net Metering</td>
<td>1. Net-Metering Compliant Site 2. Drawings, Forms, Schedules, Affidavit and Registered Company/Engineer Checking and Endorsement. 3. Net metering fee 4. Bi-directional Meters including CTs 5. DC SPDs, if needed. If needed</td>
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<tr>
<td>Civil Work</td>
<td>Concrete Pads under frame legs (10&quot;x4&quot;x4&quot;) or as per site requirement and condition</td>
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</table>
1. The vendor shall be installing complete setup at mentioned place in Lahore
2. The vendor shall be providing free operation and maintains (O&M) service for the installed system for 1 year starting from the date of installation/production of solar energy
3. The vendor will be assisting to the technical staff for resolving any technical issues during operation and giving training to the recommended staff of the organization for the system under O&M contract.
4. The vendor must do the physical survey and provide the maximum size of the solar plant along with all relevant calculations based on PV system software with optimized production of a number of produced units.
5. Panels should be Mono PERC and make should be of top Tier-1 companies preferably Longi, Jinko / JA / Canadian.
6. Inverter should be of a good manufacturer namely Huawei, SMA, or Sungrow with 10-year warranty
7. DC CABLES should preferably be imported or Newage / Pakistan cables
8. The structure must have 10-year warranty
9. Vendor must provide 1-year FOC O & M including weekly cleaning and checkup.

Interested companies/contractors meeting the following criteria should respond and submit the proposal in a sealed envelope by 22nd March 2023 to:

Zahid Sultan Jadoon  
Sr. Director Operations  
WWF-Pakistan  

For any queries, please write to wwfadmin@wwf.org.pk and tehsans@wwf.org.pk

Requirements:
1. Minimum ( 05 years) of experience in providing Solar Energy Solutions with net metering
2. Should have at least completed 5 General Civil / Construction Related Projects.
3. Be able to demonstrate working ability under the COVID-19 (Corona Virus) circumstances as per the construction works guidelines issued by the Government of Pakistan.
4. Should be able to follow all the required Health, Safety and Environmental (HSE) protocols, as specified under the WWF-Pakistan HSE safeguard policy.
5. Should be able to comply with all the national and provincial construction standards and labor protocols.

Proposal submission requirement
- Technical proposal of work scope
- Financial proposal with unit rates and total cost of work (Cost must be inclusive of all taxes). Tax will be deducted as per Govt applicable rates.
- Company Profile

Following additional documents are required and would be used for **Technical/ Financial Evaluation**:

1) Covering Letter;
2) Copy of Company Registration Certificate;
3) Copy of valid NTN Certificate;
4) Copy of valid Sales Tax Registration Certificate (if applicable);
5) Copies of certificate of professional / technical association;
6) Complete Profile / Introduction of Organization (including name of Chief Executive, Partners, Professionals, etc.);
7) Financial Soundness Proof (Bank Reference or Bank Statement or Audited Report / Accounts);
8) Copy of any international / local affiliation (if any);
9) Copy of ISO 9001 / 2000 Certificates / local and international standards (if any);