The Employer, IUCN “The International Union for Conservation of Nature “intends to Hire heavy machinery (Intermittently and Continuously) and purchase some materials to build a number of soil erosion, prevention measures like Gabions, terraces, turning walls and check dame on the Ziglab Dam Catchment in Irbid governorate through CFW’s so, IUCN invites only the companies that classified in the construction field with not less than 3rd rank or logistics company that have the needed qualifications to submit their application according to the following TOR “Term of Reference”.

Important Note:
- The bidders will be evaluated according to documents mentioned on the required documents section, TOR and Quotation form so, it is must to submit all documents mentioned.
- The Rental Company, supplier, contractor, company, vendor, bidders and competitor have the same meaning.
- The heavy machinery, vehicles, equipment have the same meaning.

SCOPE OF WORK:

The Contractor shall supply the specified Vehicles and materials to execute the works specified below according to the TOR and Quotation form, under overall leadership and guidance of the IUCN and representative staff.

The work shall include, but not necessarily be limited to the followings:

❖ Rehabilitation of Access Road:

Clean waste, sediments, dewatering, spared, level, maintain, compact and excavate in any type of soil, transfer all unsatisfactory material to the dump area, in order to rehabilitate such temporary access road along the wadi bed to enable the labor buses to access the last intervention location.

❖ Excavation works:

Excavation in any kind of soil, rock, asphalt or base coarse etc., starting from existing ground levels to the bottom of foundation level, as specified and shown in the drawings include stock piling
(TOR) FOR: HIRE HEAVEY MACHINERY & PURCHASE MATERIALS

satisfactory material and disposal of excess & unsatisfactory material to an approval damping area, under site Engineer’s instructions and according to specifications.

- **Backfilling works:**
  
  Spread, level and compact selected backfilling material include material transfer, behind the internal face of the Gabion Wall and around the other Gabion structure and where specified on the drawings, from the foundation level to the specified level as shown on the drawings, the materials shall be spread in lifts not exceeding 25cm in un-compacted thickness, moisture conditioned to its optimum moisture content, and compacted to density not less than 85 percent of the maximum dry density as obtained by modified proctor compaction test (ASTM D 1557-09), under site engineer’s instructions and according to specifications.

- **Disposal:**
  - Excavated materials determined to be unsuitable for reuse, vegetative material, and debris from site preparation operations and other excavation works shall be disposed by hauling such materials and debris to an approved off-site disposal area. No rubbish or debris of any kind shall be permitted to be buried on the project site.
  - Burning of cleared and grubbed materials or other fires for any reason will not be permitted.

- **Protection:**
  
  Protect existing, trees, pavements, fencing, structures, walls, utilities, signs and private property outside of the limit of work or within the project area indicated to remain.

- **Transfer:**
  - Hauling/Transfer the boulders, stones and other materials from Crusher Stones to the work site.
  - Hauling/Transfer the boulders/stones along wadi bed from site to site.
  - Hauling/Transfer the Gabion Baskets, Geotextile, tools and wires from the storage area to the intervention/work location daily.
(TOR) FOR: HIRE HEAVY MACHINERY & PURCHASE MATERIALS

- Hauling/Transfer the materials/excavated material from the site to the dump area specified by the authorities.

**Time and Location:**

- Working day is started at 7:30 am until 4:30 pm through Sunday to Thursday.
- The start date of the work will on 10th September and ends on 14th November, 2019.
- The heavy machinery & the competent staff must be available through the duration of project and shall work parallel with the labors (CFW’s) along the work duration.
- The location of works is at Wadi Ziglab – Deer Abe Saeed - Irbid Governorate.

**Additional Terms & Conditions:**

- Requested vehicles shall be provided within 5 working days maximum after signing contract.
- The vehicles shall be operated only by competent personnel, familiar with operation such equipment which provided by supplier, the contractor shall provide with a person competent in operation the rental vehicles under the direction and fully control of the IUCN.
- Indemnity: IUCN is not responsible for any loss or injuries caused by the rental company/contractor use of the equipment.
- Loss or damage: IUCN is not responsible for the risk of loss or for any destruction or damage to the equipment and machinery.
- In case of any machine/vehicle breakdown while on duty, the rental company/contractor must replace it immediately and ensure the operational continued without any setback.
- The equipment must be licensed and insured through the rental duration.
- The competent Staff must be licensed and insured through the rental duration.
- the bidders must be providing IUCN with all support documents for vehicles and competent staff in order to evaluate them.
- all vehicles will be inspected before starting work and any difference in the identification documents the contract will be canceled without holding IUCN any responsibilities.
- IUCN has the right to extend this contract without any additional cost on the accepted rate.
- The winner company must assign a person in his own cost to stay at the site during the project period as a company representative to ensure that the operation process in the field go smoothly. If not, IUCN will Deduct 100 dinars per working day.

**Restrictions and Limitation:**

The rental company/contractor shall consider the followings restrictions while executing the works.

- The Wadi main stream has a very limited accessibility. Large vehicles and construction machines might not be able to easily access most of the Wadi area. Besides, the topography of the Wadi area is steep and has limited and narrow unpaved roads.

- Most of the Wadi areas are private ownership. Some of the Wadi main stream areas might be owned by the government. It is recommended to propose the interventions in the mainstream area, where the government owns the location, unless otherwise needed for proper sediment and erosion control purposes.

**Required documents for evaluation:**

- Declaration letter.
- Company profile.
- Company Registration certificates.
- Technical offer includes Compliance sheet for all items in BOQ according to the specs. (Comply, not Comply or N/A).
- Registration and license documents for vehicles and drivers.
- CV for the representative person
### Technical specifications of Heavy Machinery and materials - IUCN requirement

<table>
<thead>
<tr>
<th>No.</th>
<th>Items (description)</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dump Truck not less than (4) m with driver and fuel.</td>
<td>Vehicle should be in a good condition, price will be including Fuel, Driver, Insurance, Maintenance, and all related operational costs.</td>
</tr>
<tr>
<td>2</td>
<td>Dump Truck not less than (12) m with driver and fuel.</td>
<td>Vehicle should be in a good condition, price will be including Fuel, Driver, Insurance, Maintenance, and all related operational costs.</td>
</tr>
<tr>
<td>3</td>
<td>Chain Excavator minimum 20 ton, with jack hammer including a driver and fuel, this vehicle will be ordered before one day of work.</td>
<td>Vehicle should be in a good condition, price will be including Fuel, Driver, Insurance, Maintenance, and all related operational costs. (Hiring intermittent)</td>
</tr>
<tr>
<td>4</td>
<td>Hand Vibratory Roller, walk behind tandem minimum 750 kg, drum width between 0.65 m to 1 m including fuel.</td>
<td>Vehicle should be in a good condition, price will be including Fuel, Insurance, Maintenance, and all related operational costs.</td>
</tr>
<tr>
<td>5</td>
<td>Front and Backhoe loader (JCB) wheel with jackhammer with a driver and fuel.</td>
<td>Vehicle should be in a good condition, price will be including Fuel, Driver, Insurance, Maintenance, and all related operational costs.</td>
</tr>
<tr>
<td>6</td>
<td>Front Loader Wheel large size designed for loading, unloading, bulldozing, excavating, lifting including Competent person (driver) and fuel. this vehicle will be ordered before one day of work.</td>
<td>Vehicle should be in a good condition, price will be including Fuel, Driver, Insurance, Maintenance, and all related operational costs (Hiring intermittent)</td>
</tr>
<tr>
<td>7</td>
<td>Supply Water for construction use through Tank Truck not less than (8) m³ / per truck</td>
<td>The tank truck shall be equipped with sprinkler with platform and water pump, including cost of the driver and fuel.</td>
</tr>
<tr>
<td>8</td>
<td>Stone/ boulders</td>
<td>Attached in Annex 1</td>
</tr>
<tr>
<td>9</td>
<td>Basecourse</td>
<td>Attached in annex 1</td>
</tr>
</tbody>
</table>
Annex (I): Technical specifications of the Stones/Boulders and Base Course – IUCN requirement

- **Stones/Boulders:**

  The stones/boulders fill for gabion units shall be clean rough quarry stone or pit or river cobbles or a mixture of any of these materials, and shall be essentially free from dust, clay vegetative matter and other deleterious materials.

  Individual pieces of the stones/boulders must be 100-200 mm minimum for gabions, always we will check that the rock size is bigger than the hexagonal mesh opening (80*100 mm), within the center of a gabion basket smaller rock may be used and limited to the center of the gabion only.

  The stones/boulders shall be hard, tough, durable and dense, resistant to the action of air and water, and suitable in all aspects for the purpose intended and the materials must be approved by the site engineer.

- **Base Courses:**

  Crushed aggregate for base course shall meet the requirements of Class A when tested in accordance with AASHTO T 27 after mixing with water.

  Aggregates for use in base course construction shall be either crushed stone or crushed gravel. The fine aggregate shall consist of screenings obtained from crushed stone, gravel or sand. Aggregate shall be washed if necessary, to remove excessive quantities of clay, silty clay or salts.

  Crushed stone shall consist of hard, durable particles or fragments of stone, free from dirt or other objectionable matter and shall contain no more than 8% of flat, elongated, soft or disintegrated pieces.

  For the material in Items no. (8 &9), the contractor must undertake to inspect these materials on his own cost, according to the required specification in annex 1 from the Royal scientific society (RSS).
Preamble of the Quotation form:

- The Quotation Form is attached as Excel file.
- The Quotation Form have contained Nine items.
- The Quotation Form shall be read in conjunction with the TOR.
- The items set forth in the Quotation Form represent the character of the Work to be performed and are given for the purpose of enabling the Employer to compare Tenders on an equal basis. There is no expressed guarantee to the Tenderer that it will be required to perform the Work indicated under any one particular Item or group of items in the BOQ.
- The unit prices inserted in the Quotation Form shall be the full inclusive costs of the Work described under the Items, complete in place, and in accordance with the Contract Documents, including all costs and expenses which may be required in and for the construction of the Work described, together with any temporary Work and installations which may be necessary and all general risks, liabilities and obligations set forth or implied in the Contract Documents.
- The rates and prices inserted by the Tenderer shall apply throughout the Contract and to any additional work ordered by the Engineer.
- The accuracy of the quantities given in the Quotation Form are not guaranteed. Notwithstanding the quantities given in the Quotation Form, all works itemized therein will be subject to remeasurement. Such remeasurement will be in the unit of measurement shown and at the rate inserted against each item stated in the Quotation Form and final payment will be made on the remeasured quantities.
- Any item of work included in the Quotation Form which is not performed shall be omitted from the interim and final statements.
- The units of measurement for each item shall be as shown in the Quotation Form. Measurement shall be rounded up or down to the nearest whole unit and exact half units shall be rounded up.
- The Quotation Form shall be priced in Jordan Dinar (JOD) only.