I. Introduction

Cambodia is one of the most disaster-prone countries in the world and is highly impacted by climate change-induced flooding and droughts. Weak adaptive capacity, poor infrastructure and limited services exacerbate the country’s vulnerability to climate variability. Monsoon rains are common from May to October bringing over ¾ of the country’s annual rainfall which results in the Mekong and its tributaries, as well as Tonle Sap Lake recurrently flooding. An ever-increasing problem is the occurrence of erratic rainfall, which has contributed to more frequent droughts in Cambodia. Droughts, coupled with poor management of water sources, have severely impacted communities and their food security. ActionAid International Cambodia (AAC) began working in Cambodia as a country initiative of AAI in 2000 and set up as a country programme in 2004. AAC is a non-profit, non-religious, and non-politically aligned organisation. The principles of a human rights-based approach underpin AAC’s work in Cambodia and seek to shift and transform power through empowering and mobilizing communities to engage in advocacy and campaigning, building solidarity and working together to create innovative solutions to ensure that every person can enjoy life of dignity, with freedom from poverty and inequality.

Advancing Early Warning Systems in Cambodia (AESC) Project is funded by GSMA Mobile for Development Foundation, Inc., covered from 01st October 2023 to 31st March 2025. ActionAid Cambodia is working in partnership with existing AAC local implementing partners namely Rural Friend Community Development (RFCD) based in Pursat province, Children and Women Development Centre in Cambodia (CWDCC) based in Kampot province, Mlub Prumviheathor Center (MPC) – Local NGO based in Koh Kong province and Cooperation for Alleviation of Poverty (COFAP) – Local NGO based in Kampong Thom province. Advancing Early Warning Systems in Cambodia (AESC) project’s purpose is to strengthen humanitarian anticipatory action by upgrading the groundwater level monitoring sensors to transmit real-time water level data to a national-level early warning system (EWS) broadcasting platform in Cambodia and in the previous project funded by SDC and ECHO we have install 35 of ground water level monitoring, in among of 35 GWLM, have only 15 of GWLM are well function and we plan to replace new the 20 of GWLM in this project.

The objective of this proposal is to find a supplier to provide a good service in installing 20 groundwater sensors and hosting online groundwater level monitoring on the Website page in 4 provinces Oddar Meanchey, Preas Vihear, Kratie, and Stung Treng provinces as detail below:

a) Hosting online Groundwater Level Monitoring on the Website page
b) Supplying Supply 20 of sensor groundwater level monitoring including site installation, domain, and hosting fee.

Qualified suppliers or contractors registered in the business listing are encouraged to apply. Scope of work The specific requirements of each material and technique will be described below. Selected companies or suppliers will be involved in this work with the participation of ActionAid Cambodia. ActionAid Cambodia highly encourages any company or supplier who can afford the entire supply and service of the project (materials and service of the two above). We also welcome other companies or supplies who have received bids and are able to supply any of the above projects. We will review and consider based on the quality of service and price of each supplier or company accurately.

- Online Groundwater Level Monitoring on the Website page was hosted.
- 20 groundwater sensors were installed in the project target with good quality, accountability, transparency, and on time.

II. Technical Requirement:

- Online Groundwater Level Monitoring on the Website page was hosted.
- 20 groundwater sensors were installed in the project target with good quality, accountability, transparency, and on time.

Specification of Ground Water Sensor:

- Level Range: 0-30m
- Operating Voltage: 3.8VDC
- Working Temperature: -40 C to 80 C
- Blind Zone 50cm
- Solar Panel: 5W, 6V
- Enclosure: Aluminium
- Connectivity: 4G
- Accuracy: 0.25%FS
- Waterproof

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<tr>
<th>No</th>
<th>Description</th>
<th>Specification</th>
<th>Remark</th>
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<tr>
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<th>Website of hosting groundwater sensor</th>
<th>▪ Online Groundwater Level Monitoring on the Website page was hosted</th>
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<tbody>
<tr>
<td>2</td>
<td>Ground Water Sensor</td>
<td>▪ Level Range: 0-30m</td>
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<tr>
<td></td>
<td></td>
<td>▪ Operating Voltage: 3.8VDC</td>
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<td>▪ Waterproof</td>
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There are three steps in providing the service:

**A. Before**
- Provide orientation about groundwater sensor overview including how to install, monitor, and maintenance to AAC and key person.
- Develop a clear work plan including a time frame of providing service (eg. Installation date etc.,)
- AAC checks the quality or brand of the product (Specification of Ground Water Sensor)

B. During
- Provide orientation about groundwater sensor overview including how to install, monitor, and maintenance to the groundwater sensor committee, AAC partner staff, and the community stakeholders.
- Providing good service with the following work plan
- Go to the field to install free of charge

C. After
- Providing a maintenance service for a fee of charge in six months after the installed

III. Location:
Please see the attachment below for 20 locations of GWLM in 4 provinces

![Location_Groundwater Sensor (4 Provinces).xlsx]

IV. Deliverables and time frame

The selected supplier must follow the timeframe and tasks from 14th December to 29th Feb 2023 with the actual timeline below:

<table>
<thead>
<tr>
<th>No</th>
<th>Tasks</th>
<th>Timelines</th>
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</table>
| 1  | ▪ Provide orientation about groundwater sensor overview including how to install, monitor, and maintenance to AAC and the concerned person.  
 ▪ Develop a clear work plan including a time frame of providing service (eg. Installation date etc.,)  
 ▪ AAC checks quality or brand of the product (Specification of Ground Water Sensor) | December 2023 |
<p>| 2  | Provide orientation about groundwater sensor overview including how to install, monitor, and maintenance to the groundwater sensor committee, AAC partner staff, and the community stakeholders | December 2023 |
| 3  | Go to the field to install free of charge | Jan-Feb 2023 |
| 4  | Provide orientation about groundwater sensor overview including how to install, | Jan-Feb 2023 |</p>
<table>
<thead>
<tr>
<th>monitor, and maintenance to the groundwater sensor committee, AAC partner staff, and the community stakeholders</th>
<th>Feb-Aug 2023</th>
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<tbody>
<tr>
<td>Providing a maintenance service for a fee of charge in six months after the installed</td>
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</table>

V. Budget:

The bidder’s price for this job will be determined and expressed in dollars, including taxes. Bidders should specify the cost per unit and the cost for all materials quoted in the bidding form by your company. The unit price provided is based on the specifications and scope of work described in the appendix of each material. Payment will be made based on the results of the agreed-upon implementation and will be verified by ActionAid Cambodia and stakeholder representatives if it differs from the planned technical scope and scope of work.

VI. Submit proposal:

All bidding documents must specify the subject and be sent in a sealed envelope to the office of ActionAct Cambodia in Phnom Penh before 4th December 2023 at 16:00 at: # 33, Street 71, Sangkat Tonle Bassac, Khan Chamkarmon, PO Box 66, Phnom Penh.

VII. Content of submit proposal:

All requests must comply with the requirements, including the following attachments:

- Interesting of this bidding
- Draft estimate expense of budget (Form by supplier)
- Plan of the timeframe of this scope of work
- Supplier attachments with documents such as: certificates of registration company, VAT registration.
- Bank information (3-month bank statement)
- Material or equipment for support GWLM
- Reference and documentation of experience

Note: Companies or suppliers may use the attachment form of their organization or company to participate in the bidding, but must provide sufficient information that ActionAct requires above or contact the organization to obtain a bidding form from ActionAid Cambodia. For some equipment such as GWLM sensors and other materials the supplier may provide as much information as it can at each of the above points).

VIII. General condition:

- The proposal must be in-depth in accordance with the technical specifications contained in this document.
- Under no circumstances will ActionAid Cambodia provide any means of transportation or cost.
- The dollar price proposed by the bidder is a fixed price, unchanged despite currency fluctuations and price differences (construction materials, fuel, etc.).
- All requests, including appendices and supporting documents, must be in English or Khmer.
- Relevant technical questions during the application and application form can be contacted to Mr. Vieng Lundi by email: Lundi.Vieng@actionaid.org or 012 959 466
Successful candidates will be announced with a statutory contract of ActionAct Cambodia, including provisions relating to the assurance of quality of work and materials. No work can be started without a fully signed contract between ActionAid Cambodia and a successful bidder.

IX. Process of Bidding:

All bids will be opened jointly by the Committee of ActionAid Cambodia after the announcement is closed. Successful contractors will be notified of the selection via email or appropriate means of communication. Any bidder's attempt to bias or influence ActionAid Cambodia other than the guidelines set forth in this RFP in the process of reviewing, evaluating and comparing proposals, or to obtain confidential information. Others related to the decision regarding the delivery of the contract may result in the immediate rejection of the bidder's request.

Request evaluation

The following evaluation process will be used:

Step 1: Check the documents confirming that the company is registered in the Kingdom of Cambodia to carry out construction work or supply materials or install solar or drilling wells.

Step 2: After completing the first step, ActionAid Cambodia will evaluate the remaining proposals based on the following criteria:

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<th>No</th>
<th>Criteria</th>
<th>Score</th>
<th>Score given</th>
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<tbody>
<tr>
<td>1</td>
<td>Plan of Action</td>
<td>10%</td>
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<tr>
<td>2</td>
<td>Price of material</td>
<td>30%</td>
<td></td>
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<tr>
<td>3</td>
<td>Staff and skill</td>
<td>30%</td>
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<tr>
<td>4</td>
<td>Experience and document of reference</td>
<td>30%</td>
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V. Cancellation of Request (RFP)

ActionAid Cambodia reserves the right to cancel this RFP at any time or not to give it to any company or change the terms and conditions. All bids submitted are at the sole cost of the bidder. Neither ActionAid Cambodia nor all regional implementing partners have any responsibility for this RFP.