**Request for Proposal (RFP)**

The International Organization for Migration (IOM) is looking for **Vendor/Farm** for **providing equipment and cultivation support to hydroponic farms in three project location for three months** as per below Terms of Reference (ToR):

1. **Overview and background of RFP:**

IOM has established hydroponic farms in two project locations during the year 2018-2019 under a project titled: Building Resilience of Returning Migrants from the Andaman Sea through Economic Reintegration and Community Empowerment. The farms were developed as part of establishing community enterprise with aim to providing economic benefit to the project beneficiaries are the key share holder of the enterprise. Therefore the key objective of establishing such enterprise of hydroponic farm was to improve the economic situation of the returning migrants and livelihood conditions in the target communities.

The farm was established to produce high quality and high market demand vegetable like capsicum, honey dew, tomato. After establishing the two farms in Narshingdi and Jhenaidah has been completed one cycle of production. And one farm in Sirajganj is in process of development that has to be completed by October 2019. After two cycle, the farm was further assessed and identified the requirement of more support and equipment for achieving high yield of growing such vegetables. The same is needed for the farm to be established in Sirajganj.

Therefore the proposed RFP is developed for looking eligible **Vendor/Firm** for supply materials for smooth operation of three hydroponic farms e.g Narshingdi, Jhenaidha and Sirajganj.

1. **Scope and deliverables of the project :**

The vendor will cover all the following areas

1. Assess three hydroponic farms in Narshingdi one hydroponic farm in Jhenaidah and one farm in
Sirajgonj to necessary requirement for re-cultivation. The materials shall be durable following national standard and considering the seasonality and weather conditions of Bangladesh.
2. Develop Plantation tubes for each shed which will include connected and manually solution/micronutrient circulation system with required reservoir. The plantation system will be hydroponic drip water culture by coco peat and coco coir. Bag decoration will be one bag one tree. Each bag will be 2 kilograms in weight.
3. Chiller will be set with nutrient solution reservoir for cooling the nutrient solution.
4. Provide coco washed and buffering coco peat and coco coir which EC ( Electric Conductivity) will be less than 0.7 micro Siemens.
5. Provide all the required materials/equipment’s and technical support for seed germination and plantation of the plant for production.
6. Provide ceiling net for decreasing heat.
7. Provide side net for controlling insect attacks.
8. Provide mulching paper for floor.
9. Develop an operation manual on farm plants monitoring activities and roles which shall include all the technical checklist for the farm operation staffs to follow. Train staffs on monitoring the plants and mentor regularly.
10. Provide project completion report after completion of the above activities.
11. The consultant shall provide all the supports through involving in on ground operation and quality control through physical presence when required. Submit monthly update report based on prescribed format to the board members of community enterprise
12. **Role and deliverables:**

The Following items should deliver by the vendor

1. Provide all the installation and preparation related services to the CE with and ensure required standard of the materials.
2. All the materials and equipment’s installed shall be durable (expected life) for at least 10 years except electric and electronic device. Electric and electronic device liability depends on manufacturer guaranty and warranty.
3. Shall ensure standard technical specifications of all the materials and equipment’s based on pre -approved technical specifications by IOM and POPI
4. Will train the operation staffs of the business as well as the contact persons implementing partners and IOM.
5. Shall be responsible for ensuring required quantity of production according to the business plan of the CE. Any deviation technical challenge need to solve timely to ensure success of the CE.
6. Shall communicated to CE in advance of any technical difficulties and suggest practical alternative for solving the problem. Shall be responsible for solving any technical problem faced by the CE.
7. Ensue timely delivery of all the outputs.

**Materials and equipment need For Narsingdi(3 shed):**

|  |  |  |
| --- | --- | --- |
| **1** | **Description of equipment** | **Unit**  |
| 1.1 | Coco peat for two season | 3 |
| 1.2 | Coco peat Grow bag | 2250 |
| 1.3 | Coco peat carrying, washing, drying, packeting, setup  | 3 |
| 1.4 | Chiller for reservoir  | 3 |
| 1.5 | Mulching paper for Floor | 3 |
| 1.6 | Ceiling Net | 3 |
| 1.7 | Side Net | 3 |
| 1.8 | Blower fan | 12 |
| 1.9 | Micronutrient solution cost (One season) | 3 |
| 2.0 | Seed  | 3 |
| 2.1 | Staff salary |  |
| 2.2 | Electricity bill | 3 |
| 2.3 | Diesel  | 3 |

**Materials and equipment need For Jhenaidah:**

|  |  |  |
| --- | --- | --- |
| **1** | **Description of equipment** | **Unit** |
| 1.1 | Electricity  | 1 |
| 1.2 | Coco peat Grow bag | 750 |
| 1.3 | Coco peat carrying, washing, drying, packeting, setup  | 1 |
| 1.4 | Chiller for reservoir  | 1 |
| 1.5 | Mulching paper for Floor | 1 |
| 1.6 | Ceiling Net | 1 |
| 1.7 | Side Net | 1 |
| 1.8 | Blower fan | 4 |
| 1.9 | Micronutrient solution cost (One season) | 1 |
| 2.0 | Seed  | 1 |
| 2.1 | Staff salary |  |
| 2.2 | Electricity bill | 1 |
| 2.3 | Diesel  | 1 |

**Materials and equipment need For Sirajgonj:**

|  |  |  |
| --- | --- | --- |
| **1** | **Description of additional equipments** | **Unit** |
| 1.1 | Electricity wiring with main breaker, capaciter, earthing bar | 1 |
| 1.2 | Tube well with 1 HP Motor | 1 |
| 1.3 | Submersible pump | 1 |
| 1.4 | Water tank stand and it’s wiring | 1 |
| 1.5 | Sand for Greenhouse basement | 1 |
| 1.6 | Generator full setup | 1 |
| 1.7 | Change over switch and wiring | 1 |
| 1.8 | Ceiling Net | 1 |
| 1.9 | Side net | 1 |
| 1.10 | Blower Fan | 4 |
| 1.11 | Chiller for reservoir | 1 |
| 1.12 | Mulching Paper for floor | 1 |

1. **Key deliverables of the vendor and timeframe:**

|  |  |  |
| --- | --- | --- |
| Sl No. | Key Deliverables | Timeframe |
| 01 | Technical specification of all the equipment’s and materials for approval | Before signing the contract |
| 03 | Construction start report submit to IOM | 05 days of signing the contract |
| 04 | Construction completion and physical delivery of farm | 45 days of signing the contract |
| 06 | Project completion report | 60 days of signing the contract |
| 07 | Start farm operation in collaboration with CE management with right micronutrient solution and plants | 65 days of signing the contract |
| 08 | Mentoring for 12 months (as and when required).  | (as and when required). |
| 09 | Micronutrient solution for 1 year | Bulk |

**7. Method of Application:**

Interested Vendors/ Firms are invited to submit: a) technical proposal and b) financial proposal elaborating the competence of the Consultants/Firm to undertake the assignment along by **20 August, 2019**, e-mail to faahmed@iom.int and CC: nafza@iom.int; and clearly mention *RFP: CO-547/2019/018: equipment and cultivation support to hydroponic farms in three project location*in subject line of the email. **Please note that maximum limit of attachment should be 9 MB**

**8. Required Documents:**

Organization/Individual consultant need to submit technical and financial proposal.

***Each Submission Must Include the Following:***

1. **Technical Proposal** with detailed methodology, tools and work plan.
2. **Firm/Vendor Profile:** A brief summary of the firm/Vendor and CV of the expert including records on past experience in similar assignments and name of the references.
3. **Financial Proposal** listing all costs associated with the assignment.

**9. Professional and Related Experiences:**

**The proposed team from the firm or the consultants should have following competences.**

* Previous experience on greenhouse development
* Experience on developing hydroponic farm
* Have the backward linkage of the Hydroponic farm
* Have proper knowledge to prepare the nutrient solution
* Experience on environmentally friendly farming methods
* Have linkage in agriculture supply chain
* Ability to transfer the knowledge of maintaining the farm
* High level of integrity.

The Proposal should be written in English.

Deadline of submission technical and financial Proposal by August 20, 2018

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**Any attempt for persuasion will be considered as a disqualification**

**ONLY SHORT-LISTED CONSULTANTS/ORGANIZATIONS WILL BE ASSESSED**

**FIRMS WILL BE RESPONSIBLE FOR ANY TAX OR VAT ISSUES IF APPLICABLE.**