# SCOPE OF SUPPLY TABLE (to be filled by the bidders)

# Lot 1 – Centrifugal pumps for pilot plant purposes

|  |  |
| --- | --- |
| **UNIDO REQUIREMENTS** | **TO BE COMPLETED BY THE INVITEE** |
| Item | Name and requiredparameter | QTY | Unit price US $ | Total price US $ | Compliance yes/no | Remarks |
| **LOT 1 - Centrifugal pumps for pilot plant purposes** |  |  |  |  |  |
| 01 | **Technical characteristics:*** Type of fluid: Fertilizer solution with suspended solids
* Type of impeller: open.
* Flow speed (Q): 2 m 3 / h
* Head (H): 70 m (7 bar)
* Working Max. Temp: 80 ° C
* pH: Between 4 to 7 depending on the formulation
* Fluid density: Normally between 1.1 Y 1.3, Maximum 1.5 kg /m3.
* Rpm: to be specified by the supplier.
* Pump material: Complete Stainless Steel 316L
* Explosion-proof
* Operating power voltage: 220 V - 60 Hz, three-phase
* Protection: IP 54
* Kindly provide installed motor power and power consumption at operating point.
* Equipment appropriate for application in tropical countries.
* Scope of supply: complete pump with mechanical shaft seal, motor, coupling, base plate and spare parts for a 2-year operation, ready to be integrated into the piping system.
 | 2 |  |  |  |  |
|  | **Sub-Total, EX-Works:** | US $ |  |  |  |  |
| **II. Installation**  | US $ |  |  |  |  |
| **III. Cost of transportation:**  | US $ |  |  |  |  |
| **IV. Cost of Insurance at 110%:** | US $ |  |  |  |  |
| **Total price LOT 1 CIP Havana, Cuba[[1]](#footnote-1):** | US $ |  |  |  |  |

# Lot 2 – Vacuum pump for pilot plant purposes

|  |  |
| --- | --- |
| **UNIDO REQUIREMENTS** | **TO BE COMPLETED BY THE INVITEE** |
| Item | Name and requiredparameter | QTY | Unit price US $ | Total price US $ | Compliance yes/no | Remarks |
| **LOT 2 - Vacuum pump for pilot plant purposes** |  |  |  |  |  |
| 01 | **Technical characteristics:*** Suction capacity: 5 m 3 / h
* Final vacuum (abs): 120 mbar
* Power:app.0.4 kW
* Voltage: 220 V, three phase
* Frequency: 60 Hz
* Protection: IP 54
* Working Max. Temp: 80 ° C
* pH: Between 4 to 7 depending on the formulation
* It is working for a small fertilizer plant in an ammoniac environment.
* Rpm: to be specified by the supplier.
* Pump material: Complete Stainless Steel 316L
* Scope of supply: complete pump with motor, base plate and spare parts for a 2-year operation, ready to be integrated into the piping system.
* Kindly provide installed motor power and power consumption at operating point.

 | 1 |  |  |  |  |
|  | **Sub-Total, EX-Works:** | US $ |  |  |  |  |
| **II. Installation**  | US $ |  |  |  |  |
| **III. Cost of transportation:**  | US $ |  |  |  |  |
| **IV. Cost of Insurance at 110%:** | US $ |  |  |  |  |
| **Total price LOT 2 CIP Havana, Cuba[[2]](#footnote-2):** | US $ |  |  |  |  |

# Lot 3 – Mobile filtration unit

|  |  |
| --- | --- |
| **UNIDO REQUIREMENTS** | **TO BE COMPLETED BY THE INVITEE** |
| Item | Name and requiredparameter | QTY | Unit price US $ | Total price US $ | Compliance yes/no | Remarks |
| **LOT 3 - Mobile filtration unit** |  |  |  |  |  |
| 01 | **Product type:** **Technical characteristics:*** Maximum flow 6 m 3 / h
* Filtration area 0.09 m 2
* Capacity: 3 liters; 3,5 kg.
* Installation (cm) 59 Height 25x25 space
* Material: AISI-316
* Maximum pressure: 9 bar
* Temperature: 120 o C
* Operational data: 9 max. bar; 120 C .
* Input connection: app. 1 ½″ BSP
* Output connection: app.1 ½″ BSP
* Particle sizes for the filter tissues: 97% less than 150 microns.
* The scope of supply must include spare parts for a 2-year operation.

*Further details for this Lot are included in the Annex to this Technical Specification.* | 1 |  |  |  |  |
|  | **Sub-Total, EX-Works:** | US $ |  |  |  |  |
| **II. Installation**  | US $ |  |  |  |  |
| **III. Cost of transportation:**  | US $ |  |  |  |  |
| **IV. Cost of Insurance at 110%:** | US $ |  |  |  |  |
| **Total price LOT 3 CIP Havana, Cuba[[3]](#footnote-3):** | US $ |  |  |  |  |

# Lot 4 – Semiautomatic dosing machine

|  |  |
| --- | --- |
| **UNIDO REQUIREMENTS** | **TO BE COMPLETED BY THE INVITEE** |
| Item | Name and requiredparameter | QTY | Unit price US $ | Total price US $ | Compliance yes/no | Remarks |
| **LOT 4 - Semiautomatic dosing machine** |  |  |  |  |  |
| 01 | **Product type**: * Semiautomatic dosing machine

**Technical characteristics:*** Dosing speeds: 2 different dosing speeds
* Dosing range from 100cc to 25 liters
* Sparkling products with viscosities of up to 15,000 cp
* Electricity: 220 volts, 60 Hz
* Type: semi-automatic with manual handling of bottles / containers

*Further details for this Lot are included in the Annex to this Technical Specification.* | 1 |  |  |  |  |
|  | **Sub-Total, EX-Works:** | US $ |  |  |  |  |
| **II. Installation**  | US $ |  |  |  |  |
| **III. Cost of transportation:**  | US $ |  |  |  |  |
| **IV. Cost of Insurance at 110%:** | US $ |  |  |  |  |
| **Total price LOT 4 CIP Havana, Cuba[[4]](#footnote-4):** | US $ |  |  |  |  |

# Lot 5 –Reactors of 5 liters and 20 liters with accessories for laboratory and pilot plant

| **UNIDO REQUIREMENTS** | **TO BE COMPLETED BY THE INVITEE** |
| --- | --- |
| Item | Name and requiredparameter | QTY | Unit price US $ | Total price US $ | Compliance yes/no | Remarks |
| **LOT 5 - Laboratory equipment - Reactors for laboratory and pilot plant purposes – 5 liters and 20 liters with accessories** |  |  |  |  |  |
| 1 | **Product type**: * Reactor of 5 liters with accessories for laboratory and pilot plant.

*Further details for this Lot are included in the Annex to this Technical Specification.* | 1 |  |  |  |  |
| 2 | * Reactor of 20 liters with accessories for laboratory and pilot plant.

*Further details for this Lot are included in the Annex to this Technical Specification.* | 1 |  |  |  |  |
|  | **Sub-Total, EX-Works:** | US $ |  |  |  |  |
| **II. Installation**  | US $ |  |  |  |  |
| **III. Cost of transportation:**  | US $ |  |  |  |  |
| **IV. Cost of Insurance at 110%:** | US $ |  |  |  |  |
| **Total price LOT 5 CIP Havana, Cuba[[5]](#footnote-5):** | US $ |  |  |  |  |

1. Carriage & Insurance Paid To; kindly provide information and costing for: storage (if applicable), shipping (e.g. use of single trip containers, etc.), loading and off-loading. [↑](#footnote-ref-1)
2. Carriage & Insurance Paid To; kindly provide information and costing for: storage (if applicable), shipping (e.g. use of single trip containers, etc.), loading and off-loading. [↑](#footnote-ref-2)
3. Carriage & Insurance Paid To; kindly provide information and costing for: storage (if applicable), shipping (e.g. use of single trip containers, etc.), loading and off-loading. [↑](#footnote-ref-3)
4. Carriage & Insurance Paid To; kindly provide information and costing for: storage (if applicable), shipping (e.g. use of single trip containers, etc.), loading and off-loading. [↑](#footnote-ref-4)
5. Carriage & Insurance Paid To; kindly provide information and costing for: storage (if applicable), shipping (e.g. use of single trip containers, etc.), loading and off-loading. [↑](#footnote-ref-5)