# 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 required  parameter | 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

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| --- | --- | --- | --- | --- | --- | --- |
| **UNIDO REQUIREMENTS** | | | **TO BE COMPLETED BY THE INVITEE** | | | |
| Item | Name and required  parameter | 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 required  parameter | 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

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| --- | --- | --- | --- | --- | --- | --- |
| **UNIDO REQUIREMENTS** | | | **TO BE COMPLETED BY THE INVITEE** | | | |
| Item | Name and required  parameter | 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 required  parameter | 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)