

## TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

SI No.	Description of items	Quantity
File No.	PUR/462/ERTG/RK/E/2023-24	
1	<b>Supply, Installation and Commissioning of Gas Storage Tank, Gas Compressor, Gas Pipeline and Biogas Burner.</b>  <b>(DETAILED SPECIFICATIONS AS PER ANNEXURE – I, II and III)</b>	01 Lot.

### 1. DELIVERY, INSTALLATION & COMMISSIONING:

The delivery, installation and commissioning are to be completed within 60 days from the date of issue of purchase order. The installation, commissioning and training shall be carried out by your expert- engineers of supplier/Manufacture. During fabrication & installation necessary training on operation and maintenance of the goods/system shall be imparted to relevant Scientist/Engineer/Technicians.

### 2. PAYMENT TERMS:

100% payment shall be paid within 30 days after delivery, installation and commissioning of Gas Storage Tank, Gas Compressor, Gas Pipeline and Biogas Burner of acceptance of the material upon submission of claim supported by the acceptance certificate issued by the purchaser.

### 3. BID SECURING DECLARATION FORM:

Bid Securing Declaration is to be submitted by the Bidder as per the format prescribed in the tender document.

### 4. WARRANTY:

12 months' warranty to be provided by the supplier from the date of acceptance of ordered goods.

### 5. MANUFACTURER AUTHORISATION FORM:

Manufacturer Authorisation Form to be provided by the supplier.

### 6. PLACE OF DELIVERY AND INSTALLATION:

Khajra Gram Panchayat, Keshiary Block, Paschim Medinipur.

### 7. MAKE IN INDIA CERTIFICATE FOR LOCAL CONTENT

Certificate for local content to be provided by the supplier in form 14 (Format attached along with Tender Document). Percentage of value addition & Name and address of the factory where the value addition was made should be mentioned clearly in the Form 14.

## Technical Specification

Supply, Installation & Commissioning of following items

**1. Item No – 01:**

**Description: Gas Storage Tank**

**Quantity: 1 No.**

- Qty: 1 No.
- Volume: 7.5 cum (7500 lit)
- Dimension: (Dia.: 1.6 m & Length: 3.75 m)
- Operating Pressure: 8 bar
- Maximum Pressure: 12 bar
- Minimum Thickness: 8.0 mm
- Top and bottom hemi-sphere: 200 mm
- Support Leg: 500 mm (above G.L)
- Mounting of Pressure Gauge (0-16 bar)
- Pressure Relief Valve: at 8 Bar
- Inlet Line:  $\frac{3}{4}$  inch with Flow Control Valve
- Delivery Line:  $\frac{3}{4}$  inch with Flow Control Valve
- Bottom Cleaning Line:  $\frac{3}{4}$  inch with Ball Valve
- MOC: MS (IS 2062)
- Paint: Anti-Corrosion (Inside & Outside)

**2. Item No – 02:**

**Description: Gas Compressor**

**Quantity: 1 No.**

- Qty: 1 No.
- Flow Rate: 200 lpm (7.0 cfm)
- Motor: 2.2 kW (3hp); 3 Phase; 50 Hz
- Single Stage Compressor
- Associated Tank: 160 lit
- Operating Pressure: 8 bar
- Maximum Pressure: 12 bar
- Mounting of Pressure Gauge (0-16 bar)
- Pressure Switch: Operating Pressure at 8 bar
- Safety Valve: Spring loaded operated at 8 bar

**3. Item No -03:**

**Description: Gas Pipeline (Gas Pipeline to be installed to 35 Nos individual household from Gas Storage Tank)**

- Description: Gas Pipeline
- Dimension:  $\frac{3}{4}$  th inch (NPS); Schedule 40
- Qty: 500 m

- MOC: MS Seamless
- Mounting of Pressure Gauge (0-14 bar): 4 Nos
- Valve:  $\frac{3}{4}$  inch with Flow Control Valve: 10Nos
- Fittings: Elbow, Tee, Sockets etc
  
- Dimension:  $\frac{1}{2}$  th inch (NPS); Schedule 40
- Qty: 600 m
- MOC: MS Seamless
- Mounting of Pressure Gauge (0-14 bar): 35 Nos
- Valve:  $\frac{1}{2}$  th inch with Flow Control Valve: 35 Nos
- Fittings: Elbow, Tee, Sockets etc
  
- Dimension:  $1\frac{1}{2}$  th inch (NPS); Schedule 20
- Qty: 100 m
- MOC: Galvanized Iron
- Fittings: Elbow, Tee, Sockets etc

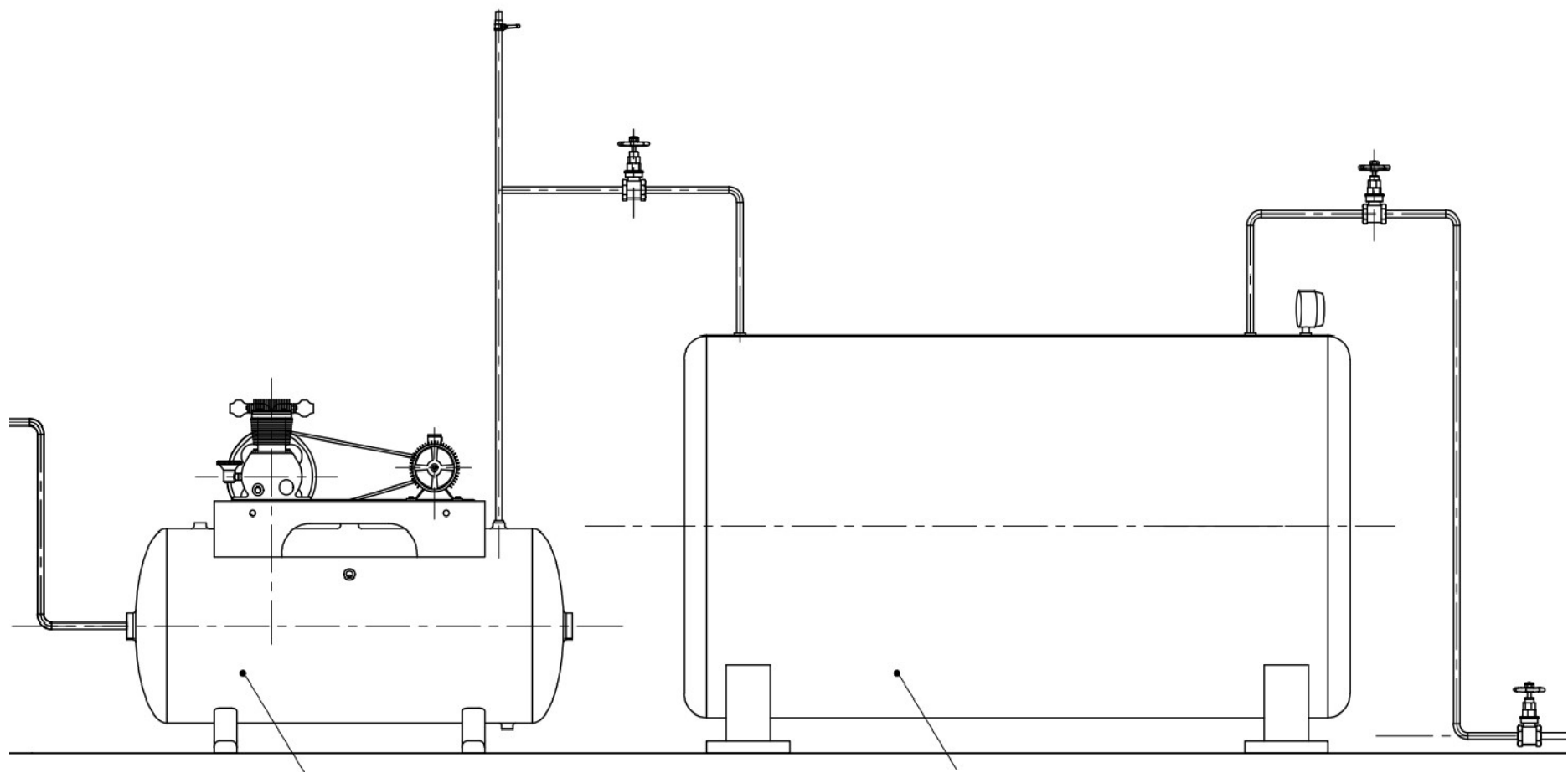
**4. Item No -04:**

**Description: Biogas Burner (Gas Burner to be installed to 35 Nos individual household from Gas Pipeline)**

- Qty: 35 Nos
- Fuel: Biogas (Calorific value ~ 4500kCal/m<sup>3</sup>)
- Dia: 4 inch
- Flow Rate: 0.2-0.5 m<sup>3</sup>/hr

**Place of Supply & Installation:**

Khajra Gram Panchayat, Keshiary Block, Paschim Medininpur



Compressor

Gas Storage Tank

