

## **Scope of Work**

### **Pumping Equipment Procurement**

#### **Background**

The USAID Indonesia Urban Water, Sanitation and Hygiene, *Penyehatan Lingkungan Untuk Semua* (IUWASH PLUS) program is a five year-and-a-eight-month initiative designed to assist the Government of Indonesia (GOI) in increasing access to water supply and sanitation services as well as improving key hygiene behaviors among urban poor and vulnerable populations. USAID IUWASH PLUS works with governmental agencies, the private sector, NGOs, communities and others to achieve the following "high level" results:

1. An increase of 1,100,000 people in urban areas with access to improved water supply service quality, of which at least 500,000 are from the poorest 40% of the population (also referred to as the "Bottom 40%" or "B40"), vulnerable groups or Indonesia's eastern provinces; and
2. An increase of 500,000 people in urban areas with access to safely managed sanitation.

To ensure that improvements in access to WASH services are sustained, USAID IUWASH PLUS is guided by a development hypothesis that focuses on strengthening service delivery systems, so they can more effectively reach the poorest and most vulnerable segments of the population. In order to achieve this at scale, the program undertakes activities through four interrelated components, including: 1) improving household WASH services; 2) strengthening city WASH institutional performance; 3) strengthening the WASH financing environment; and 4) advancing national WASH advocacy, coordination and communication. In support of these components, USAID IUWASH PLUS also implements a Local Sustainability and Innovation Component (LSIC) that is designed to stimulate WASH innovations that strengthen community, private sector and government WASH service provision.

The Swiss State Secretariat for Economic Affairs (SECO) acting through the United States Agency for International Development (USAID) share the mutual goal of improving performance of water utilities to increase access to clean water in Indonesia, particularly to address two technical challenges that are especially impactful: (1) high rates of non-revenue water (NRW); and (2) poor energy efficiency (EE). To provide a comprehensive and measurable NRW reduction and EE improvement in Indonesia, SECO agreed to co-finance USAID for a three-year technical assistance program, implemented under the current USAID IUWASH PLUS program with seven PDAMs in two regions, i.e. West Java and Central Java provinces.

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## Activity Summary

As concerns urban water supply service delivery, IUWASH PLUS places emphasis on improving performance among local water utilities (or “PDAM”). While there are multiple areas where PDAM performance improvements can be registered, there are two technical challenges that are especially impactful and, in the case of Indonesia, particularly persistent. These include: 1) high rates of Non-Revenue Water (NRW); and low energy efficiency (EE).

On February 2019 the United States Agency for International Development (USAID) and Swiss State Secretariat for Economic Affairs (SECO) signed a partnership to improve the technical and financial performance at seven water utilities (PDAMs) at West Java and Central Java Provinces, with special focus on reduction of NRW, Increased Energy Efficiency and Capacity Building programs on various key technical and non-technical topics. Also, the program supports the central government Performance Based Grant for NRW and Efficiency Energy program under NUWSP

One of the causes of the financial problems by PDAM is inefficient or old pumping systems, used by PDAM in their water production plants as well as their distribution network (booster pumping systems). The SECO team has conducted Energy Efficiency Audits in two PDAMs in West Java and two in Central Java and identified that the pumping systems can be improved cost-effectively. The recommendations were agreed by management of each PDAM, including division of responsibilities for the procurement. For this reason, IUWASH PLUS plans to procure specific pumping equipment as outlined below. The pumping equipment will be installed at PDAM in one location in Central-Java, in PERUMDA Air Minum Kota Magelang (see details in table below)

## Scope of Works

The scope of works of this procurement contract consist of the following:

- Procurement of 2 units of pumps completed with motor and base plate, 1 unit automatic water level control panel inverter / VSD and 1 unit vacuum pump as shown table below.
- Delivery to Mata Air Kanoman Kota Magelang,
- Installation of pumps, motor and automatic water level control panel, vacuum pump with motor & DOL control panel.
- Testing and commissioning.

Overview of the specified equipment to be delivered to the related Water Treatment Plants are shown in table below. Details on specifications of each of the 4 units are included in Annex I.

Type of Equipment	Volume (unit)	Delivered to
Distribution Pump (75 liter/second)	2 unit	Mata Air Kanoman PERUMDA Air Minum Kota Magelang
Water Level Control Panel Inverter / VSD 160 kW	1 unit	
Vacuum Pump (56 m3/h) with Control Panel DOL 2 kW	1 unit	
Delivery Cost include loading & unloading	1 x	

Total: 4 units

## Requirements:

### 1. Administrative Requirements :

- Bidder must having their own business in a fixed place (permanent shop / office / showroom) and do not submit purchases or work orders to other sub vendors
- Bidder is an authorized business entity equipped with a valid business license certificate
- Bidder must submit detail statement letter regarding the availability of equipment required
- Bidder must submit statement letter regarding the quotation submitted

### 2. Budget Proposal Requirements

#### 1. Details of Budget Breakdown:

- Volume stated is minimum and could be extended with same unit cost
- Please submit price per item, list & spec of equipment, attached
- The final price must be written in Rupiah
- must specify the applicable offer price period
- Please complete budget resume in Annex 2

#### 2. Payment period : the bidder are required to follow the terms and method of payment.

- Down Payment : 20%, when ordering
- Delivery : 60%, when Material On Site
- Installation : 10%, after pumps and electrical panel are finishing install
- Testing and Commissioning : 10%, declared with the minutes of testing and commissioning

#### 3. Delivery period : the bidder are required to submit detailed delivery schedule by giving the number of days required for each the procurement of the goods until delivery and transaction are completed

#### 4. Information that cannot be included in it can be added at the end of the offer/proposal.

**Bid Process Planning (estimation):**

1. RFP Issued to Potential Bidder : June 10, 2021
2. Pre-Bid Meeting and Q & A : June 15, 2021
3. Proposal Submission : June 24, 2021
4. Proposal Evaluation : June 25, 2021
5. Proposal Clarification : June 28-29, 2021
6. Contract Signing : July 07, 2021

**Additional information for winner:**

- USAID IUWASH PLUS will check the condition of the goods to ensure that all purchased quality of pumping equipment and accessories meet the required standard and quality
- The vendor has to conduct a product demonstration in the receiving locations
- The vendor has to provide warranty statement
- The vendor has to provide certificates for all equipment
- USAID IUWASH PLUS will pay all the equipment upon well received and complete (with the certificates & guarantee letter)

**Statement:**

1. RFQ issuance does not require USAID IUWASH PLUS to approve the offer
2. The bidder shall not be reimbursed for cost incurred during offer preparation and delivery
3. The General Cooperation Agreement between the United States Agency for International Development (USAID) and the Government of Indonesia exempts Value Added Tax (VAT) on all commodities of goods and services obtained through this agreement
4. All payments will be made in Rupiah and all invoices must also be in Rupiah

## ANNEX I: EQUIPMENT SPECIFICATIONS

### REQUIREMENTS FOR PERUMDA AIR MINUM KOTA MAGELANG

#### 1) Distribution Pump

Number units	: 2 x
Model	: End Suction Volute Pump
No. of Stage	: Single
Equipment Installed	: motor, base plate, coupling, pressure and compound gauge
Discharge (Q)	: 75 liters / second,
Head (H)	: 120 meters
Motor Efficiency	: IE3
Motor Details	: 132 KW / 3Phase / 380V / 50 Hz / 2 pole

#### 2) Water Level Control Panel Inverter

Number units	: 1 x (@1x160 kW)
Type	: Automatic Water Level Control Panel Inverter / VSD 160 kW
Type	: Free Standing
Incoming	: Bottom Entry
Outgoing	: Bottom Entry
Plate Thickness	: 1.8 mm
Standard Size	: H:1900 mm, W: 800 mm, D: 600 mm
Panel Paint	: RAL 7032
Description	: MCCB 3P, 160-400 A, 36 kA : VSD 3P, 380-480 VAC, 160 kW : Water Logic Control (WLC) : Pressure Transmitter 10 bar 4-20 mA : Connector & Cable Transmitter : Digital Power Meter : Human Machine Interface 7" 24 VDC : Electrical Socket 220 VAC 16A : Pilot Lamp Indicator : Selector Switch 3 position (A-O-M) : Terminal Block Power : Terminal Block Control : Busbar R/S/T/N 30x5 mm : Busbar Grounding 20x3 mm : Fan IP 220 VAC (including Housing)

### 3) Vacuum Pump

Number units	: 1 x
Model	: Liquid Ring Vacuum Pump
No. Of Stage	: Two
Equipment Installed	: motor, base plate, coupling, pressure and compound gauge Piping and acesories set for 2 distribution pump, Water Tank capacity min 100 liters
Discharge (Q)	: 56 m <sup>3</sup> / hour,
Head (H)	: 33 mbar
Motor Efficiency	: IE2.
Motor Details	: 2 kW / 3Phase / 380V / 50 Hz / 4 pole
Control Panel	: DOL

## Annex 2: TEMPLATE OF COST PROPOSAL

Cost proposal						
Mechanical & Electrical Pumping Equipment						
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Packet Number	Type of Equipment	Volume	Brand / Type	Rp. Juta	Specifications	Notes
1	Distribution Pump (75 l/s)	2				
2	Water Level Control Panel Inverter / VSD 160 kW	1				
3	Vacuum Pump (56 m3/h)	1				
4	Delivery Cost Include Loading & Unloading	1x				
	Totals	4				

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