



**MR 41/2015**

**SUPPLY OF DIESEL FLOW METERS FOR FEA'S  
POWER STATIONS**

## **Fuel Meter Specification**

The Fiji Electricity Authority (FEA) would like to install fuel meters at its various power stations. The fuel is discharged via fuel receiving manifolds at its larger installations in Kinoya and Vuda Power Station. Pictures are attached for your reference. For single tank installations, the delivery truck uses its installed pump to discharge the fuel to the tanks.

A common problem encountered during the discharge process is the additional extra readings on the meters due to excessive air being pumped via the meter during the discharge process. FEA would like to eliminate this discrepancy between the supplied volume and the actual readings on the meter.

FEA is requesting for high quality discharge fuel flow meters that can provide a reasonable level of assurance to FEA with regards to the actual discharge volumes.

### **Requirement:**

Meter shall be of the positive displacement design having rotary motion without thrust or flow impingement. No eccentric, sliding, reciprocating or oscillating parts to induce excess liquid shear or liquid compressibility within meter element. Rotary parts to be horizontally supported on both sides by solid support bearings and rotor journals of materials compatible with product to be metered. Rotary drive and meter adjustment output to all readout devices shall be non-cyclic without pulsation and capable of meter accuracy adjustment of 0.02% or better. Meter calibration adjustment device must be externally accessible, not requiring of any readout equipment for calibration or replacement. Meter measuring element shall have a minimum torque and shall immediately respond to product low flow movement.

### **1. Products:**

i. Diesel (Kinoya, Vuda, Levuka, Sigatoka, Namaka, Qeleloa, Rakiraki, Deuba, Rokobili, Korovou, Savusavu, Labasa )

ii. Heavy Fuel Oil (Kinoya and Vuda Power Station only)

**2. Operating Temperature:** 15°C to 45°C

**3. Flange Size:** 3" and 4"

**4. Working Pressure:** 150 PSI

**5. Flow-rate:** 2000 LPM (Maximum)

**Additional:** Air eliminator & Strainer Assembly, Mechanical numerical register, resolution in dekaliters c/w 5 digits resettable and 8 digit non-resettable totalizer

**Optional:** Delivery ticket printouts

**Notes:**

1. Based on current installed LC Meter specification
2. Flanges to be ANSI Class 150 type
3. An efficient air elimination system can also be quoted

**Submission of Tenders**

**Two (2) hard copies** of the tender bids in sealed envelope shall be deposited in the tender box located at the Supply Chain Office at the FEA Head Office, 2 Marlow Street, Suva, Fiji.

**Courier charges for delivery of Tender Document must be paid by the bidders.**

**This tender closes at 4:00pm, on Wednesday 8<sup>th</sup> of April, 2015.**

Each tender shall be sealed in an envelope with:

The envelope bearing only the following marking:

**Tender- MR 41/2015 – Supply of Diesel Flow Meters for FEA's Power Stations**

The Secretary, Tender Committee  
Fiji Electricity Authority

Supply Chain Office

Private Mail Bag, Suva

**It must also indicate the name and address of the tenderer on the reverse of the envelope.**

**All late tenders, unmarked Envelopes and envelopes without bidder's name and address on the reverse of the envelope. (Bids via e-mail or fax will not be considered).**

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360 or (+679) 9991587.**