



**BAGUIO WATER DISTRICT**  
*"Serving Mankind is Serving God"*  
 003 Purok BWD, Brgy., Marcoville, Baguio City  
 Tel. No. 442-4858 Fax No. 442-4858/444-7245

Document No.:	ADM-PUR-F006
Effectivity Date:	February 15, 2020
Revision No.:	00

**Nº 34867**

**PURCHASE ORDER**

Supplier : <b>FANM ENTERPRISES INC.</b>	P.O. No. : <b>34867</b>
Tel No./ Fax No. : <b>(02)932-4361</b>	Date : <b>August 17, 2022</b>
Address / TIN : <b>Batasan Hills, Quezon City</b>	PR No./Abstract No. : <b>08-061P</b>

Gentlemen/ Madam,

Please furnish this Office the following articles subject to the terms and conditions contained herein.

Place of Delivery : <input type="checkbox"/> Pick up <input checked="" type="checkbox"/> FOB BWD Warehouse <input type="checkbox"/> Deliver at site	P.O. Valid Until : <u>30 days</u> Warranty : <input type="checkbox"/> Six months <input checked="" type="checkbox"/> One year <input type="checkbox"/> Others(Pls. Specify)
Date of Delivery : <input type="checkbox"/> Working days <input checked="" type="checkbox"/> Calendar Days upon receipt of PO	<input checked="" type="checkbox"/> 1% Retention Required <input type="checkbox"/> Performance Bond Required (5% if in check/50% if GSIS surety bond)
* 8-12 weeks Delivery Term : <input type="checkbox"/> full <input type="checkbox"/> partial delivery allowed	<input checked="" type="checkbox"/> Subject to testing / inspection prior to payment Payment Term : <input type="checkbox"/> COD <input checked="" type="checkbox"/> 30 Days <input type="checkbox"/> Others(Pls. Specify)

Quantity	Unit	Description/Specifications	Unit Cost	Amount
2600	units	Water Meter 1/2"Ø Brand: Dorot	2,400.00 ₱	6,240,000.00
150	units	Water Meter 1"Ø Brand: Dorot	18,250.00	2,737,500.00
5	units	2" Water Meter complete with steel companion flanges & BNG Dorot	48,812.00	244,060.00
2	units	3" Water Meter complete with steel companion flanges & BNG Dorot	57,314.00	114,628.00
600	pieces	Water Meter Inserts 1/2"Ø Brand: Dorot (Please refer to the attached sheet for complete detailed specifications) x x x x	1,250.00	750,000.00
				<b>₱ 10,086,188.00</b>


Usage / Requisitioner **For Commercial Division use - for 2022 c/o JD Caramo**

Prepared by:  <b>MARCOS G. LAMANGAN</b> Purchasing Supervisor	Checked by:  <b>MONA LISA D. PENAFIEL</b> Admin Division Manager	Audited by:  <b>LUZVIMIN G. RAMOS</b> Internal Auditor	Recommending Approval:  <b>ATTY. MA. LUISA C. TENEDERO</b> AGM-Adm./Com./Fin.	Approved By:  <b>ENGR. SALVADOR M. ROYECA</b> General Manager
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Conforme:	Signature over Printed Name of Supplier	Date
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Funds Available:  <b>BERNADETTE B. VELASQUEZ</b> Finance Manager	Acct. : Operating / Maintenance Expense <input type="checkbox"/> CAPEX <input checked="" type="checkbox"/> Other Payables <input type="checkbox"/>
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	<b>BAGUIO WATER DISTRICT</b> 003 Purok BWD, Barangay Marcoville, Baguio City (074) 442-4858 / (074) 444-7245	Document No.	ADM-PUR-F006
		Effectivity Date	February 15, 2020
	<b>PURCHASE ORDER</b>	Revision No.	00

Purchase Order No. 34867 dated August 17, 2022

Item 1: 2,600 pieces DOROT DMD-A Multi-Jet Water Meter ½"Ø

Item 2: 150 pieces DOROT DMD-A Multi-Jet Water Meter 1"Ø

Item 3: 5 pieces DOROT 2"Ø Water Meter complete with steel companion flanges & BNG

Item 4: 2 pieces DOROT 3"Ø Water Meter complete with steel companion flanges & BNG

#### I. TYPE OF METER:

- Multi-jet dynamically balanced vane wheel. (DMD-A)
- Register assembly must be dry type hermetically sealed.
- Anti-magnetic. Magnetic coupling must be protected from external magnetic fields of 1500 gauss.
- With removable strainer at the inlet with an effective area of at least three (3) times the body inlet.
- The dial lens shall be high impact glass lens and abrasion resistant.
- Regulator knob must be located outside the meter casing and shall be provided with seal protector

#### II. DIMENSIONS:

The size of the meter mean the clear internal diameter inlet to all outlet from meter.

The overall length of the meter between connector faces shall be as follows:

	½"Ø	1"Ø
Length of meters without connectors and gaskets	165-190mm	225-260mm

#### III. MAIN CASING:

- The body must be made of corrosion-resistant copper alloy
- The casing must have the following markings:
  - Direction of flow on at least one side.
  - Meter serial number and shall be located at the bonnet or at the body of the meter.
  - The **BWD logo** shall be inscribed inside the face dial (as per sample).

#### IV. PERFORMANCE:

- The meter must be able to retain accuracy based on the following performance index when tested in the test bench:

	Unit	½"Ø	1"Ø
Maximum Flow rate, Qmax	cu.m/hr.	3	7
Nominal flow rate, Qn:	cu.m/hr.	1.5	3.5
Transitional flow rate, Qt:	l/h	120	280
Minimum flow rate, Qmin:	l/h	30	70
Accuracy between Qmax and Qt:		±2%	±2%
Accuracy between Qt and Qmin:		±5%	±5%
Register Capacity	Cubic meter	From 4 to 6 digits	
Smallest readable unit	Cubic meter	0.0001	
The meter must still be able to register the flow when subjected to "JERKING" test @ Qmax			



**V. WORKING PRESSURE:**

- Working Pressure: **10 bars or 145psi**

**VI. HEADLOSS:**

- Meter shall allow a loss of head not to exceed 1.00 bar at Qmax
- Head loss evaluation shall no longer be undertaken during the performance test which would adopt a series type of calibration test.

**VII. OTHER FEATURES:**

- Meter should be designed for easy assembly and dis-assembly without the use of special tools or equipment and should be easy to maintain and repair.

**VIII. OTHER REQUIREMENTS:**

Two (2) samples of water meters shall be submitted for testing. One (1) meter shall be tested for accuracy and the other shall be dismantled for physical examination.

For the winning bidder – the sample meter that passed the accuracy test shall form part of the delivery.

Testing of the water meters shall be conducted with the presence of the authorized representative of the bidder.

An authorized representative from the bidder must be present during the conduct of test. Should the supplier opt not to send a representative, it shall mean that they have waived their rights to witness the testing and the results of the said testing will be valid and final.

**IX. CONDITIONS OF TESTING AND ACCEPTANCE:**

All delivered meters that passed the physical evaluation shall be subjected to meter performance testing evaluation.

All meters shall be tested as delivered without any adjustments to be made during the testing. If less than twenty percent (20%) of the total water meters do not pass the tests, the number of failed water meters shall be returned to the supplier for replacement. The replacement water meters shall be subjected for re-testing and the supplier will be required to pay fifty pesos (P50.00) fee for every replaced water meter that will undergo re-testing. The frequency of replacing the failed water meters and their subsequent re-testing will be allowed only once. Failure to pass the re-testing of the said replaced water meters would mean cancellation of the same (replaced water meters that underwent re-testing) from the Purchase Order.

However, if more than twenty percent (20%) of the total water meters do not pass the tests, the number of water meters that passed the tests shall be paid to the supplier, and the remaining balance of the untested water meters including the water meters that failed the test will be cancelled from the Purchase Order.

An authorized representative from the supplier must be present during the conduct of test. Should the supplier opt not to send a representative, it shall mean that they have waived their rights to witness the testing and the results of the said testing will be valid and final.

**X. SCHEDULE IN THE DELIVERY OF WATER METERS:**

8 – 12 weeks upon receipt of confirmed Purchase Order



## **XI. WARRANTY:**

The water meters shall be guaranteed against defects in workmanship and materials for a period of one (1) year from date of acceptance. Defective meters covered within the warranty period shall be replaced with new units without charge within fifteen (15) calendar days upon receipt of notice, subject to BWD evaluation and acceptance.

## **STANDARD SPECIFICATIONS FOR WATER METERS (2"Ø AND ABOVE)**

### **I. TYPE OF METER:**

- Turbine or propeller type
- Hermetically or vacuum sealed
- Sealed register

### **II. MAIN CASING:**

- The body casing shall be cast iron or ductile iron
- Coating shall be epoxy or polyester
- Flange type
- Complete with companion flange and BNG

### **III. PERFORMANCE:**

- The supplier shall be required to submit test results. The test parameters shall include the Maximum Flow, Nominal Flow, Transitional Flow and Minimum Flow.
- The BWD shall accept the water meters based on the test results submitted by the supplier.

### **IV. WORKING PRESSURE:**

- The maximum working pressure shall be 16 bars.

### **V. OTHER FEATURES:**

- Meter should be designed for easy assembly and disassembly without the use of special tools or equipment and should be easy to maintain and repair.
- Register Capacity: Minimum of six (6) digits
- The water meter could be installed horizontally, inclined or vertically
- The supplier must submit distributorship certification
- Super dry type with copper can register (IP68)
- Hermetically sealed register (magnetic coupling)
- Low Head Loss
- Easy maintenance of the measuring unit
- Dial plate can be supplied in metric or imperial units
- The totalizer has big and clear numerals
- Maximum working temperature: 60°C
- Register maybe rotated at 360°
- Equipped with an option for electrical output
- Hot water meters in sizes 2"Ø to 8"Ø

### **VI. WARRANTY:**

- The water meters shall be guaranteed against defects in workmanship and materials for a period of one (1) year from date of acceptance. Defective meters covered within the



warranty period shall be replaced with new units without charge within fifteen (15) calendar days upon receipt of notice, subject to BWD evaluation and acceptance.

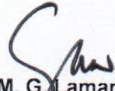
**Item 5: 600 pieces Water Meter Inserts ½"Ø DMD-A Multi-Jet Magnetic Driven  
DN 15mm**

**Includes the following parts & part numbers:**

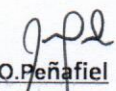
- 1. Lid
- 2. Lock Pin
- 4. Sliding Gasket
- 5. Glass
- 6. O-Ring
- 7. Ultrasonic Welding Ring
- 8. Register
- 9. Central Gear
- 11. Magnetic Shield Ring
- 12. Register Chamber
- 13. Tightening Gasket
- 14. Turbine
- 15. Measuring Chamber
- 16. Bottom Strainer
- 23. Inlet Strainer

**Usage: For Commercial Division use – for 2022 c/o JD Caramé**

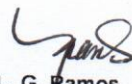
Prepared by:

  
M. G. Lamangan  
Purchasing  
Supervisor


Checked by:

  
M.O. Peñaflor  
OIC Administrative  
Div. Manager

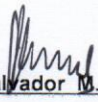
Audited by:

  
L. G. Ramos  
Internal Auditor


Recommending Approval:

  
Atty. M.L.C. Tenedero  
AGM Adm./Com./Fin./ICT

Approved by:

  
Engr. Salvador M. Royeca  
General Manager



	<b>BAGUIO WATER DISTRICT</b> <b>Bids and Awards Committee</b> <b>(In-house)</b>	Document Code: BAC_IH
		Document No. BAC_IH_F002
		Effective Date: 16 March 2020
	<b>RESOLUTION</b>	Revision No. 00

**BIDS AND AWARDS COMMITTEE**  
**RESOLUTION NO. 047-2022**  
(RQ No. 06-061P; Water Meters and Inserts)

**WHEREAS**, the Baguio Water District-Bids and Awards Committee (BWD-BAC), in accordance with the provisions of Republic Act (RA) No. 9184, conducted the bidding for the procurement of a) two thousand six hundred (2600) units ½" water meters; b) one hundred fifty (150) units 1" water meters; c) five (5) units 2" water meters complete with steel companion flange & BNG; d) two (2) units 3" water meters complete with steel companion flanges and BNG and e) six hundred (600) pcs ½" water meter inserts, all with the required specifications under Request for Quotation (RQ) No. 06-061P dated 17 June 2022, under a two-envelope system of bidding but not on a one-lot purchase;

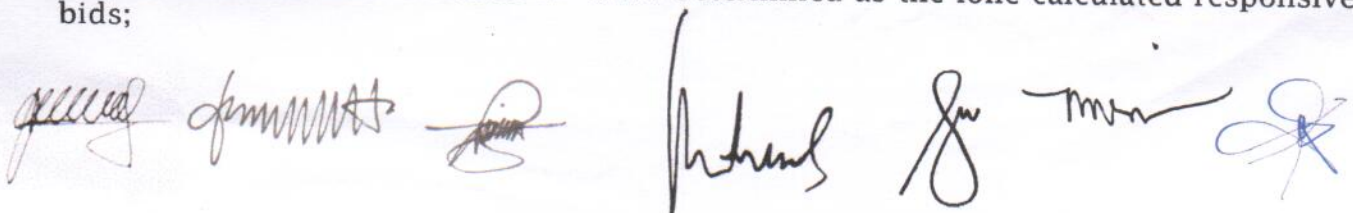
**WHEREAS**, the approved budget unit cost for the said procurement are a) Php2,400.00/unit - ½" water meters; b) Php18,250.00/unit - 1" water meters; c) Php48,812.00/unit - 2" water meters complete with steel companion flange & BNG; d) Php57,314.00/unit - 3" water meters complete with steel companion flanges and BNG and e) Php1,250.00/pc - ½" water meter inserts;

**WHEREAS**, only **FANM ENTERPRISES, INC.** submitted its bid and during the opening of legal and technical bids on 13 July 2022, it was determined that **FANM ENTERPRISES, INC.** submitted complete documentary requirements and two (2) water meter samples with Serial Nos. 18-07-0266969 and 18-07-0266966, both Dorot brand, for accuracy test and physical examination;

**WHEREAS**, upon evaluation by the Technical Working Group of their offers, it was determined that **FANM ENTERPRISES, INC.** submitted complying bids for items *a - e* and the two (2) ½" water meter samples passed the accuracy test (*Annex "A"*) thus, its financial bid was opened and the bids as read and calculated are as follows:

NAME OF BIDDERS	OFFERED BRAND	BID AS READ AND CALCULATED (unit)	% VARIANCE FROM ABC	ABC (unit)
<b>FANM ENTERPRISES, INC.</b>				
a. ½" water meters	Dorot	Php2,400.00	0	Php2,400.00
b. 1" water meters	Dorot	Php18,250.00	0	Php18,250.00
c. 2" water meters complete with steel companion flange & BNG	Dorot	Php48,812.00	0	Php48,812.00
d. 3" water meters complete with steel companion flanges and BNG	Dorot	Php57,314.00	0	Php57,314.00
e. ½" water meter inserts	Dorot	Php1,250.00	0	Php1,250.00

**WHEREAS**, upon qualification and careful examination, validation and verification of all the documents submitted by and of the financial bids of the complying bidder, it has been determined that **FANM ENTERPRISES, INC.** submitted complete documents and its financial bids for items *a - e* are determined as the lone calculated responsive bids;

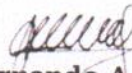


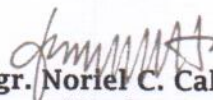


**NOW THEREFORE, on motion duly seconded, be it**

**RESOLVED**, as it is hereby resolved, to award the procurement of a) two thousand six hundred (2600) units ½" water meters; b) one hundred fifty (150) units 1" water meters; c) five (5) units 2" water meters complete with steel companion flange & BNG; d) two (2) units 3" water meters complete with steel companion flanges and BNG and e) six hundred (600) pcs ½" water meter inserts to **FANM ENTERPRISES, INC.** with the offered brand and specifications, for being the lone calculated responsive bidder in this particular bidding.

**UNANIMOUSLY APPROVED (05 August 2022)**

  
**Engr. Fernando A. Peria**  
Vice-Chairperson

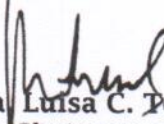
  
**Engr. Noriel C. Calpito**  
Member

  
**Atty. Chanell Dolor D. De Guzman**  
Member

  
**Engr. Michael Jordan E. Sison**  
Member


  
**Geovani L. Piza**  
Member

  
**Atty. Maria Ruffa M. Dizo**  
Member

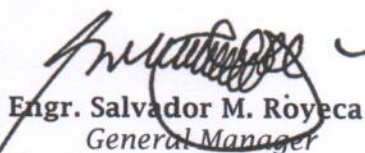
  
**Atty. Ma. Luisa C. Tenedero**  
Chairperson

Attested by the Secretariat:

  
**Apple Jane P. Aviles**

  
**Sharlene M. Durante**

Approved by:

  
**Engr. Salvador M. Royeca**  
General Manager