



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
Regional Field Office No. VII  
**Office of the Regional Executive Director**  
DA-RFO 7 Complex, Highway Maguikay, Mandaue City 6014, Cebu  
Tel. Nos. (032) 268-5187 / 238-2163; Fax No. (032) 268-3063 email: darfu7@gmail.com

## **MEMORANDUM ORDER**

NO. 59

Series of 2021

**SUBJECT: SUPPLEMENTAL GUIDELINES ON THE OPERATION AND MAINTENANCE OF TRUCK-MOUNTED WATER WELL DRILLING RIG AND GEO-RESISTIVITY METER IN SUPPORT TO GROUNDWATER DEVELOPMENT FOR IRRIGATION**

To ensure the full services and proper utilization of the truck-mounted water well drilling and georesistivity meter in support to groundwater development for irrigation, the following guidelines shall be observed as follows:

### **Responsibilities of DA-RFO 7**

The RFO shall:

1. Assist the beneficiary in the application of permits;
2. Responsible in the O&M of the drilling machine;
3. Provide technical staff who will operate the drilling rig;
4. Conduct georesistivity test for potential site before the conduct of drilling activities;
5. Record data during drilling operation for monitoring purposes.

### **Responsibilities of Beneficiaries**

The beneficiaries shall:

1. Apply for Drilling Permit and Water Right Permit;
2. Provide necessary data/documents needed in the drilling operation;
3. Secure/responsible in the ROW settlement where the well will be established;
4. Provide additional laborer to assist in the establishment of well;
5. Allocate funds for the fuel, lubricants, various supplies, materials, and other related expenses during the groundwater development and establishment of well. The estimated cost is attached as Annex.

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Any unforeseen event/activity shall be discussed and agreed upon by the beneficiaries and the Department.

This guideline shall take effect upon signing by the proper authorities.

Done this 27th day of September 2021.

**ATTY. SALVADOR D. DIPUTADO, LL.M., Ph.D.**  
Regional Executive Director

Approved by:

  
**WILLIAM D. DAR, Ph.D.**  
Secretary  
Department of Agriculture

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## Annex A

### ESTIMATED ANNUAL OPERATION AND MAINTENANCE COST OF DRILLING RIG (PhP)

PARTICULARS	YEARLY	EVERY 4 YEARS
<b>I. OPERATIONAL COST</b>		
Salary of Operators	903,465.60	
TEV	2,112,000.00	
Other Supplies	4,715,502.24	
<b>Sub-total</b>	<b>7,730,967.84</b>	
<b>II. MAINTENANCE COST</b>		
1. Fuel	668,160.00	
2. Change oil	48,000.00	
3. Car Wash	9,600.00	
4. Tires		90,000.00
<b>Sub-total</b>	<b>725,760.00</b>	<b>90,000.00</b>
<b>TOTAL</b>	<b>8,456,727.84</b>	<b>90,000.00</b>

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**DETAILED COMPUTATION OF THE OPERATION AND MAINTENANCE COST OF  
 DRILLING RIG (PhP)**

**A. SALARY**

Staff	SALARY GRADE	Monthly Salary (PhP)	No. of Months	Total (PhP)
Sr. Driller	16	36,052.80	12	432,633.60
Driller	12	25,664.00	12	307,968.00
Driller Helper	3	13,572.00	12	162,864.00
<b>Salary per Month</b>				<b>75,288.80</b>
<b>Annual Salary</b>				<b>903,465.60</b>

**B. TRAVELLING EXPENSES**

Staff	No. Production Well per Month	Average No. of Days per Well	TEV per day (PhP)	Total (PhP)
Permanent Staff	2	11	2,000.00	44,000.00
Sr. Driller	2	11	2,000.00	44,000.00
Driller	2	11	2,000.00	44,000.00
Driller Helper	2	11	2,000.00	44,000.00
<b>Average Travelling Expense per Month</b>				<b>176,000.00</b>
<b>Operation for 12 months</b>				<b>2,112,000.00</b>

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### C. SUPPLIES AND MATERIALS PER MONTH

ITEM	QUANTITY	UNIT COST (PhP)	AMOUNT (PhP)
1) 8" dia.x 6m uPVC pipe (blank pipe)	9	14,624.28	131,618.52
2) 8" dia.x 6m uPVC pipe (screen pipe/slotted pipe)	9	21,600.00	194,400.00
3) Bentonite (25kg/bag)	55	840.00	46,200.00
4) Pea Gravel	6	1,800.00	10,800.00
5) Centralizer (8"dia.)	18	480.00	8,640.00
6) Grease (500ml)	1	300.00	300.00
7) Gloves (pair)	10	100.00	1,000.00
<b>MONTHLY COST (PhP)</b>			<b>392,958.52</b>
<b>ANNUAL COST (PhP)</b>			<b>4,715,502.24</b>

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