

Republic of the Philippines Department of Environment and Natural Resources

FOREST MANAGEMENT BUREAU

Visayas, Avenue, Diliman, 1100 Quezon City

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MEMORANDUM

FOR

All Regional Executive Directors

FROM

The Assistant Secretary for Policy, Planning and Foreign Assisted and

Special Projects, and Director, in concurrent capacity

SUBJECT :

CALIBRATION **ESTABLISHED** OF THE AUTOMATED

WEATHER STATIONS (AWS)

DATE

DEC 23 2021

This pertains to the agreements made during the Webinar on Data Analysis and Operationalization of Science-Based Real-Time Watershed Instruments held last August 17-19, 2021, on the calibration of the Automated Weather Station (AWS) established by DENR Regional Offices under the Watershed Instrumentation activity of the DENR.

In this regard, you are hereby requested to directly coordinate with the Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) for the calibration of the established AWS within your Region, soonest. Same is imperative in order to obtain accurate and precise measurement of meteorological data that are within the standards recognized and acceptable by the PAGASA and World Meteorological Organization (WMO).

In this regard, please find the attached copy of the agreements made during the abovementioned webinar, the calibration procedure from PAGASA, and the sample incoming instrument form reflecting the calibration price of each parameter for one (1) unit of AWS, for your ready reference.

FOR YOUR INFORMATION AND GUIDANCE, PLEASE.

MARCIAL C. AMARO, JR., CESO III

Copy furnished:

The Undersecretary for Field Operations and Environment



Republic of the Philippines
Department of Environment and Natural Resources
FOREST MANAGEMENT BURGAU

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Website https://www.forestry.dem.gov.ph FOREST RESOURCES CONSERVATION DIVISION

MEMORANDUM

FOR

The Assistant Secretary for Policy, Planning and Foreign Assisted

and Special Projects, and Director, in concurrent capacity

THRU

The OIC Assistant Director

FROM

The Chief. Forest Resources Conservation Division

SUBJECT

REPORT ON THE WEBINAR ON DATA ANALYSIS AND

OPERATIONALIZATION OF SCIENCE-BASED REAL-TIME

WATERSHED MONITORING INSTRUMENTS

DATE

This has reference on the recently concluded "Webinar on Data Analysis and Operationalization of Science-Based Real-Time Watershed Monitoring Instruments" held last August 17-19, 2021 via Zoom Meeting.

The said webinar aimed to capacitate technical personnel from field offices, concerned bureaus and agencies on how to: (a) capacitate technical personnel of Field Offices to generate datasets, knowledge, information and technology from modern and science-based instruments; (b) acquire basic skills and protocols to collaborate and operationalize the watershed instruments as multipurpose centers for research, education, training and extension activities; and (c) gain basic knowledge on how to analyze and use the generated real-time data and information in designing watershed management interventions.

The resource speakers for the webinar came from the Philinstrument Corp. (PIC), University of the Philippines Los Baños (UPLB), Department of Public Works and Highways (DPWH), Philippine Atmospheric, Geophysical, and Astronomical Services Administration (PAGASA) and National Water Resource Board (NWRB). A total of 68 participants from CAR, NCR, Regions 1, 2, 3, CALABARZON, MIMAROPA, 5, 6, 7, 8, 9,10, 11, 12, and 13 and representatives from Policy and Planning Service, Office of the Undersecretary for Finance, Information Systems and Climate Change, Office of Undersecretary for Field Operations and Environment, Office of Assistant Secretary for Field Operations — Luzon, Office of Assistant Secretary for Field Operations — Wisayas, and Office of Assistant Secretary for Field Operations — Mindanao attended the webinar.

Among the major agreements made during the above-mentioned webinar are as follows:

ITEM	AGREEMENT	CONCERNED OFFICE	
On the submission of quarterly and annual reports on watershed instrumentation monitoring	1.a. Submission of quarterly on the analysis of data generated from the AWS, AWLS, and CTD within the priority watersheds of the Regions.	All Regional Offices FOREST MANAGEMENT BURE	
		SEP 2 2 2021 RECORDS UNIT	

ITEM	AGREEMENT	CONCERNED OFFICE	
	Quarterly: Every 15 th day of the month of the following quarter Annual: Every 15 th day of Jan of the following year		
	1.b. On AWLS - Analysis of data from AWLS to include: a) correlation of precipitation occurrence and water level; b) correlation of streamflow during low flow and mid flow season and water level (rating curve analysis).	All Regional Offices and PIC	
	I.c. On AWS Use of threshold values of rainfall (available in PAGASA website) that may result to flooding downstream.		
	1.d. On CTD - Data from Philippine Standard for Drinking Water to be used as threshold		
2. On regional presentation of the quarterly reports on AWS, AWLS, and CTD	A meeting with Regional Offices, PPS Central Office, FRCD, FPPKMD will be arranged for the Regions' presentation of data visualization and analysis.	FMB	
3. On the manual of watershed monitoring instruments	Manual on Handheld Instruments to be provided to Regional Offices.	FMB	
4. On the sharing of data	FMB (FRCD, FPPKMD, KISS)		
5. On CTD installation	Conduct of lecture on site selection, installation along with budgetary requirement for the establishment of CTD with FMB, NWRB, PIC and Dr. Cruz.	FМВ	
6. On the calibration of AWS instruments.	To include in the TOR of the supplier that instruments to be procured are calibrated by concerned agencies such as PAGASA prior to delivery.	TOR- FMB Procurement - Regional Offices	
	To calibrate AWS instruments from NCR	NCR, PAGASA, and PIC	
	On the calibration of installed instruments	Regional Offices	

ITEM	AGREEMENT	CONCERNED OFFICE Regional Offices	
7. On the road map for the installation of instruments on priority critical watershed	7.a. To install a complete set of instruments (AWS in the upstream, midstream, and downstream, AWLS and CTD) per priority critical watersheds		
	7.b. To review/reevaluate the number of unit of AWS/AWLS/CTD to install per watershed	FMB-WEMS	
8. On the measurement of sediment using sediment bed load sampler instrument (lack of weighing seale and standard duration for collection of sediments)	To coordinate with EMB Central Office/Regional Office	FMB and DENR Region 2	

Attached herein is the copy of the proceedings during the Webinar on Data Analysis and Operationalization of Science-Based Real-Time Watershed Monitoring Instruments, for your reference.

FOR YOUR INFORMATION.

FOR. ALICIA L. CASTILLO Chief, Watershed Ecosystem Management Section Officer In Charge, FRCD



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)

PICL-F-02

Effectivity date: February 11, 2021 Ver. No. 01

INCOMING INSTRUMENT FORM

NOTE: Strictly follow the instructions

- 1. Fill out the Incoming form and send us via email irdu@pagasa.dost.gov.ph .
- 2. PICL will send back the form with confirmed schedule.
- 3. Print two (2) copies of the filled form before proceeding to the PICL together with the instrument/s.

Required fields are marked *

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Company Location: *					
Contact Person: *					
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Parameter/s to be Calibrated * (Please tick the appropriate box)		Qty *	Unit Price	Amount	
☐ PRESSURE (940 hPa - 1020 hPa) Barometer, Barograph, Digital			1	700	700
TEMPERATURE (0 °C - 50 °C) Room, Max. & Min., Liquid, Thermograph, Dial Type and Digital			1	850	850
☐ RELATIVE HUMID			1	700	700
		Hygrograph	1	650	650
RAIN GAUGE Tipping Bucket, Cylindrical (10 - 300 mm/hr) (Graduated cylinder or Dip stick, thru measurement and computation)			1	800	800
☐ WIND (Anemometer)	(2 m/s - 100 m/s		1	1,755	1,755
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[&]quot;tracking the sky...helping the country"



Calibration Services Steps

- 1. E-mail us @ irdu@pagasa.dost.gov.ph for application of calibration request.
- You will receive Incoming Instrument Form (I.I.F) for company and instrument/s details.
- Confirmation will be given by PICL staff with the scheduled date of visit.Follow the instructions stated in the (I.I.F).
- 4. Proceed at PICL receiving area on scheduled date with your confirmed (I.I.F).
- 5. Present (I.I.F) to the PICL staff on duty for verification.
- Billing Statement / Outgoing Form (O.F) will be sent before the date of payment/pick up indicated in the (I.I.F).
 Follow the instructions stated in the (O.F).
- Present Official Receipt (original) and surrender the copy of Billing Statement / (O.F) at the PICL staff.
- 8. While waiting, kindly fill-up our Satisfaction Survey Form (S.S.F).
- Sign the Billing Statement / (O.F) to receive the Instrument/s and Calibration Certificate.

Check the Instrument/s and Calibration Certificate before leaving the PICL.

Prepared by:

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