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REPUBLIC OF THE PHILIPPINES PAMBANSANG PANGASIWAAN NG PATUBIG (National Irrigation Administration) Lungsod ng Quezon

MEMORANDUM CIRCULAR

MC # <u>71</u>, s. 1991

TO

: ALL REGIONAL IRRIGATION MANAGERS, PROJECT MANAGERS, OPERATION MANAGERS, IRRIGATION SUPERINTENDENTS, DISTRICT CHIEFS AND ALL OTHER CONCERNED National Irrigation Administration

SUBJECT : GENERAL GUIDELINES AND PROCEDURES FOR UTILIZATION OF THE PARCELLARY MAPS

Parcellary survey and mapping activities under the on-going Irrigation Operation Support Project (IOSP) is basically geared to firmup the service areas of mational irrigation systems (NIS). The parcellary division/sheet maps together with updated data from the division masterlist and the Irrigation Fee Register (IFR) would allow effective monitoring and verification of seasonal irrigation service fee (ISF) billings. These documents would further permit NIA to adopt strong management actions and sanctions for concerned staff responsible for not billing irrigated/planted lots.

The attached implementing guidelines and procedures are to be strictly complied with in all NISs incofar as the use of parcellary maps is concerned.

This MC does not totally amond MC No. 52, s. 1982 "Billing and Collection Manual for Irrigation Service Fee" except for some minor operational details. Further, the new MC is relevant to the utilization of parcellary maps only. MC #52 is still very much in effect.

This memorandum supersedes all other MCs and other Office Orders pertaining to the use of parcellary maps and shall take effect during the first cropping season of Calendar Year 1992.

> (SGD.) JCSE B. DEL ROSARIO, JR. Administrator

October 14, 1991

IMPLEMENTING GUIDELINES AND PROCEDURES FOR UTILIZATION OF PARCELLARY MAPS

1.0 INTRODUCTION

- 1.1 <u>Rationale</u>. "To provide adequate level of and timely service to, the beneficiaries of irrigation systems and in order to promote the farmer's capacity to pay and willingness to pay irrigation service fee (ISF) which is the main source of corporato income."1/
- 1.2 <u>Strategy</u>. An estimated 20% of reported irrigated/planted farm lots are found not billed in a typical cropping season. In most instances, billing is often delayed. In 1989 alone, about 53% of current ISF billings were not collected.

To address these problems, every National Irrigation System (NIS) is being provided with parcellary maps through the Irrigation Operation Support Project (IOSP). By using the parcellary maps in monitoring and evaluation of system operation, it is anticipated that the present ISF billing process can be improved.

- 2.0 PARCELLARY SURVEY AND MAPPING ACTIVITIES
 - 2.1 <u>Purpose</u>. The following are the objectives of parcellary survey and mapping activities:
 - a) Firmup service areas of NISs by surveying areas without parcellary maps and updating existing parcellary maps;
 - b) Provide accurate records of individual irrigated landholdings through a masterlist of beneficiaries of irrigation service;
 - c) Update current incomplete and outdated Irrigation Fee Register (IFR) records;
 - d) Allow effective monitoring and verification of seasonal ISF billings including enhancing NIA's ability to detect and remedy discrepancies;

1/ Excerpts from the Strategies Paper prepared for the various operating units of NIA, January 7, 1991.

- e) Prepare ISF bills well ahead of the close of cropping season, based on field progress reports; thus improving collection efficiency, and;
- f) These procedural improvements are envisioned to provide the adoption of strong management actions and sanctions for personnel who are not (i) reporting irrigated/planted lots, (ii) billing irrigated farm lots, and (iii) collecting ISF from benefited lots. The system/scheme will also provide basis to reward efficient and effective performers.
- 2.2 <u>Main Features and Characteristics</u>. The output of the activities undertaken for parcellary survey and mapping includes the following:
 - a) Parcellary Division Map (PDM)
 - 1. Scale 1:4,000. In case of NIS with majority of farm lot sizes below 500 sq n, a convenient and/or smaller scale is used.
 - 2. Dimensions: width 1 meter; length variable, adjusted to accommodate one WRFT division with an area of 750-1,000 ha (Figure 1).
 - 3. Information and details: contains (i) the Title Block (Figure 2); (ii) conventional legends to denote features/structures and landmarks of the whole area; (iii) unfixed North Arrow Point; (iv) Parcellary Sheet Map boundary lines; and (v) system's boundary limits.
 - 4. NIA farm lots with their respective lot numbers, and/or cadastral lot numbers, name of landowner/CLT holder/lot tiller/farmer, and gross area (to the nearest hundrodth of a hectare).
 - b) Parcellary Sheet Map (PSM)
 - 1. Scale: 1:4,000. In case of NIS with majority of farm lot sizes below 500 sq n, a convenient and/or smaller scale is used.
 - 2. Dimensions: Width 50 cm, length 94 cm (Figure 3).
 - 3. Information and details: contains (i) the Title Block (Figure 4); (ii) conventional legends to denote features/structures and land marks of the whole area; (iii) North Arrow Point fixed due North; (iv) Index for adjoining sheets.

- 4. NIA farm lots with their respective lot numbers and/or endastral lot numbers, name of landovmer/ CLT holder/lot tiller/farmer and gross area (to the nearest hundredth of a hectare).
- 5. Tabulated list indicating NIA let numbers with their corresponding irrigated area (firmed-up) and name of landowner/CLT helder/let tiller/farmer.
- c) System's General Layout Map
 - 1. Scale (dependent on service area):

Service Area (ha)	Scale
5,000 vr less	1:7,500
5,001 - 10,000	1:10,000
10,001 - 25,000	1:20,000
above 25,000	1:25,000

- 2. Information and details: contains (i) the Title Block; (ii) conventional logends to denote features, irrigation structures, landmarks of the whole area; (iii) unfixed North Arrow Foint; (iv) WRFT division boundary lines; and (v) system's boundary limits of service area.
- d) Division Masterlist
 - 1. Numerical list containing lot numbers and/or cadastral lot numbers, names of landowner/CLT holder/lot tillor/farmer, and firmed-up service area.
 - 2. Alphabetical list containing names of landowner/CLT holder/lot tiller/farmer, lot numbers and/or cadastral lot numbers, and firmed-up service area.
- e) Irrigation Fee Register
 - 1. Every individual NIA farm lot has its own IFR. However, this does not mean a new set of IFR but an updated IFR.

3.0 PROCEDURE IN USING THE PARCELLARY MAPS IN OPERATION MONITORING

3.1 The overall process

The table below shows the general overview of the standard implementation strategy to be followed by NIS.

VC	TIVITY/EVENT	SYMBOL	DATA SOURCE AND RESPONSIBILITY CENTER	COLOR WET SEASON	CODE 2/ DRY SEASON
1.	Irrigatod/ Plantod Areas	slash	WRFT's (Waternaster's) weekly report of irrigated and planted areas (LIPA) to the IS.	green slash	rod slæsh
2.	Billed Areas	1/2 back slash above 1 1/2 back slash below 1	 A. Bills Prepared Bill Processor's (Billing Clerk's) Bill and Statement of Account on a per let basis as approved by the IS. B. Bills Served Collection Officer/ Deputized Bill Collectors Summary List of Acknow- ledged Bill and State- nent of Accounts 	1/2 green back slash / 1/2 green back slash	1/2 red back slash / 1/2 red back slash
3.	Collected/ Paid Areas	circle around 1 & 2	System Cashier's Weekly report of collection based from collection officer's/ deputized Collection Officers' report.	green circle	red circle

2/ Using different colors, the process can be extended to accompdate the following year's activity depending on the space available in the individual lots.

ACT	IVIT	YŽEVENT	: SYMBOL :	DATA SOURCE AND RESPONSIBILITY CENTER	COLOR C WET : SEASON :	DRY
4.	Exe Are	npted as		WRFT's report of List of Lots with Total Crop Failure (LLTCF) and		
	а.	Total Crop Failure		Amended List of Lots Planted (AALP)	a.green:	X
	Ъ∙	crop failure	: shaded: : lower : : portion : of X :		b.green	b. red

3.2 The details

RESPONSIBILITY CENTER	PROCEDURE		
WRFT (WATERMASTER)	I. <u>IRRIGATED/PLANTED AREAS (Figure 5)</u> : 1. Properes/submits 2 copies of LIPA weekly (end of week) to IS.		
Irrigation Superintenden (IS)	 Reviews/approves original copy of LIPA and forwards to BP. Using LIPA copy No. 2 color codes irrigated/planted lots in the Parcellary Sheet Maps (PSM) with slash as shown in Item 3.1. Forwards LIPA copy No. 2 to BP. Field inspects unreported planted lots; resolves problems/ issues and rectifies discrepancies between service area and irrigated/ planted areas. 		
Bill Processor (DF)	II. <u>BILLED AREAS (Figures 6 & 7)</u> : A. Bills Propared (Figure 6): 6. Prepared Bills and Statement of Accounts (BSA) based on original LIPA.		

RESPONSIBILITY CENTER	FROCEDURE		
BP	7. Using LIFA copy No. 2, marks with a check the lot numbers where bills have been prepared and forwards to IS.		
	8. Color codes lots with bills propared with a 1/2 back slash above the slash symbol.		
IS	9. Ensures that irrigated/planted lots are properly billed; resolves problems/issues and rectifies discrepancies between planted and areas with bills propared.		
-	B. Bills Served (Figure 7):		
BP	10. Corrects, adjusts and cancels BSAs based on approved LLTCF and ALLP. Submits 2 copies of corrected BSAs to IS and a summary of approved exemptions for approval.		
	11. Approves all ESAs on a per lot basis		
IS	12. Forwards 2 copies of BSAs to the Collection Officer/ Deputized Bill Collector (CO/DEC).		
	13. Distributes/gives original copy of BSA to the landowner or Farmer Tiller (FT).		
CO/DEC	14. Requests LO/FT to acknowledge receipt of BSA-1 by signing at the back of BSA-2.		
ł.	15. Receives original BSA-1.		
LO/FT	16. Acknowledges receipt of BSA-1 by signing at the back of BSA-2 and submits to CO/DEC.		

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ESPONSIBILITY CENTER) 		PROCEDURE
CO/DEC	6 6 7 8 8 8 8 8 9	17.	Prepares summary list of acknowledged BSAs and submits to IS.
		18.	Color codes lots with bills served with a 1/2 back slash below the slash symbol.
ÏS	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	19.	Ensures that all irrigated/ planted lots are properly served with bills; resolves problems/issues and rectifies discrepancies between lots billed and served.
	III.	COLLEC	TED/PAID AREAS (Figure 8):
CO/DBC	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20.	Submits Weekly Report of Cash Collection (ROCC) with Official Receipt (OR) and Weekly Report of In-Kind Collection (ROIC) with Acknowledgement Receipt (AR) to the System's Cashier (SC).
SC		21.	Prepares and submits Weekly Report of Collection to the IS.
		22.	Color codes collected/paid lots with a circle.
IS		23.	Ensures that all irrigated, planted and billed lots are reported as paid; resolves problems/issues and rectifies discrepancies between billed and collected areas.
	IV.	EXEMPT	ED AREAS (Figure 9):
		24.	Prepares and submits list of lots with Total Crop Failure (LLTCF) to IS for approval.
WRFT	- 9 9 9 9 9 9 9 9 9 9 9	25.	On a later date, prepares and submits Amended List of Lots Planted (AALP) to IS for approval.

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RESPONSIBILITY CENTER			PROCEDURE
		26,	Verifies and approves LLTCF and later the ALLP.
IS		27.	Forwards approved LLTCF and ALLP to BP.
		28.	Using the approved LLTCF and ALLP corrects, adjusts and cancels BSA accordingly.
BP		29.	Prepares Sunmary of Approved Exemptions and submits to the IS.
		30.	Color codes lots with exemptions:
			a. For lots with total crop failure shade all spaces of the symbol.
IS			b. For lots with partial crop failure shade only the lower portion of .
		31.	Monitors and verifies areas reported for excaption or areas with crop damages.
		32.	Reconnends farmers' request for exemption to the Regional Office.
	5 9 9 9 9 9 9 9	33.	Upon approval of Regional Office, distributes copies to the end-users and BP.
BB	g	34.	Posts exemptions to IFR.

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· 4.0 IMPLEMENTING GUIDELINES

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4.1 Distribution List

The distribution of parcellary survey and mapping output is shown in the following table:

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00 00 00 00	Output	: Kept in the ISO:	SMD : NIACO:	RIO	IS	BP	SC	WRFT
• 1 • 7 • •	• PDMs a. ^O riginal White Prints		X	X				• • • • •
2	• PSMs a. Original b. White Prints		X	X	X			
	• System's Layout a. Original b. White Prints	8 X 8 8 X 8 8 X 8 8 X 8	X	X	8 8 8 8 8	80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
4	• Division Masterlist (Numerical & Alpha- betical) a. Original b. Copies		X.	X				* * * *
:5	. Irrigation Fee Registe: a. Original				g • • • • •	: X	• • • • •	6 • • •
= L	Legend: ISO - Irrigation System Office SMD - Systems Management Department RIO - Regional Irrigation Office IS - Irrigation Superintendent BP - Bill Processor SC - System's Cashier WRFT - Water Resources Facilities Technician							

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4.2. Standardization of Methods/Approach

- 1. Only the parcellary sheet maps (PSM) shall be color coded and arranged accordingly on a per division basis.
- 2. The PSM may be: a) book bound; b) organized as a flip chart and/or c) displayed in the IS office depending on their number for easy and convenient monitoring and evaluation.
- 3. In the case of big systems where the data source and responsibility centers are not the same as those of the smaller systems as previously discussed, an equivalent or similar color coding scheme representing smaller areas either through the zone, working station, rotational area and other levels can be adopted.
- 4. The general procedure is for the Chief of the System to be able to detect easily gaps in service, irrigated/planted, billed, exempted and collected/paid areas as the farming activities progress.

4.3. Future Updating of System's Record

The records of service area, individual irrigated landholdings as reflected in the parcellary maps, layout maps, division masterlist and the irrigation fee register shall be updated on an annual basis to reflect areas converted to residential, connercial and industrial lots and for any other causes that diminish original system's record. This updating also includes the generation of new areas.

- 4.4 Monitoring, Evaluation and Report Submission
 - a) System Level
 - 1. Based on the implementation of these guidelines and procedures, the following reports to the RIO on a monthly basis up to termination of each of the cropping seasons are required:
 - (i) Irrigated and Planted Areas, by division level with the corresponding firmed-up service area and summarized by system level.
 - (ii) Billed areas, by division level and summarized by system level.



- (iii) Collected/Paid areas, by division level and summarized by system level.
- (iv) Benefited areas.
- b) Regional Level
 - 1. Based on the reports coming from the Systems level the RIO are to submit on a monthly basis the following reports to SMD, NIACC.
 - (i) Irrigated/Planted Areas, by systems level with the corresponding firmed-up service area and summarized by regional level.
 - (ii) Billed areas, by systems level and summarized by regional level.
 - (iii) Collected/Paid areas, by systems level and summarized by regional level.
 - (iv) Benefited areas.

Item (i) is already being reported nonthly thru the 0 & M of NIS (coded report). Therefore, items (ii) to (iv) should only be added to this monthly coded report being sent to SMD, NIACO.



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LENGTH VARIABLE (TO ACCONODATE A DIVISION)

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TITLE BLOCK (STANDARD SIZE)

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	REPUBLIC OF THE PHILIPPIP MATIONAL IRRIGATION ADDITIS	ies Ration
	REGION	
	ADDRESS OF REGION	
	HANE OF SYSTEM / PROJECT	**************************************
	ADDRESS	
	DIVISION	
-	PARCELLARY DIVISION WAP	
SCALE	•	1:4000
SURVEYED :	UPDATED:	, , , , , , , , , , , , , , , , , , ,
	URFTZUHZUHT	
IRRIG	TION SUPERINTENDENT CHIEF	, CAN DIVISION
APPROVED:		
	REGIONAL IRRIGATION MANAGER	
SHEET	0F	PAGE NO



Fig. 2 SAMPLE PARCELLARY DIVISION MAP

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FIG. 3. PARCELLARY SHEET MAP (PSN) SPECIFICATIONS

TITLE BLOCK (STANDARD SIZE)

an a	REPUBLIC OF THE PHILIPPINES NATIONAL IRRIGATION ADDIMISTRATION REGION					
	ADDRESS OF RE	GION				
	NAME OF SYSTEM	/ PROJECT				
	PARCELLARY SH	eet map				
	SCALE ;	1:4000				
SURVEYED:		UPDATED :				
	WRFT74H74HT					
IRRIG	ATION SUPERINTENDERT	CHIEF, O&M DIVISION				
APPROVED:						
	REGIONAL IRRIGATION NAM	AGER				
SHEET	0F	PAGE NO				



Fig. 4 SAMPLE PARCELLARY SHEET MAP

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