2.6.2.3 User's Guide for Computer-Aided Planning

1. INTRODUCTION

The PW4SP Data Management User's Guide explains the procedure of encoding data and generating tables and figures for the PW4SP. The Guide consists of the following sections.

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- Section 2: hardware and software required to successfully run the PW4SP Data Management System
- Section 3: the concept of the microcomputer architecture and an overview of hardware configurations
- Section 4: fundamentals to operate the system with internal architecture
- Section 5: basic concept of sofware operation
- Section 6: a complete list of data files and worksheets in the PW4SP Data Management System
- Section 7: data linkages
- Section 8: the procedure of updating the PW4SP
- Section 9: standard report format

2. SYSTEM REQUIREMENTS

The following are the basic requirement to successfully run the PW4SP data management.

Software:

Hardware:

DOS Ver. 6.22 80486 CPU at 66 MHz. **Operating System:** Computer: Windows Environment: MS-Window Ver 3.11 RAM: 8 MB (minimum) Spreadsheet: MS-Excel Ver 5.0 Hard Disk: 200 MB (minimum) MS-Word Ver 6.0 Word Processing: 3.5 inch, High Density Floppy Drive: 5.25 inch, High Density VGA Monitor Monitor: Printer: 80 column (Can handle A4 size paper). Any brand which supported Mouse: by MS-Windows

Miscellaneous: 500 watts Automatic Voltage

Regulator and Surge Protector

3. MICROCOMPUTER SYSTEM

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All computers, whether large or small, basically operate on the same fundamental principles. The hardware and software of a mainframe computer and a microcomputer have the same components and fulfill the basic functions necessary to any computer system.

The computer is seen as a powerful tool that can enable us to expand the horizons of our knowledge. It allows processing of large volume of data or complex pattern of information that would otherwise be difficult to organize and understand. Moreover, it allows for an easily manipulation of data.

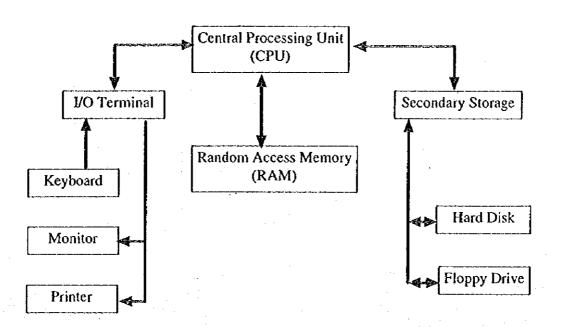
There are two major components of a microcomputer: the hardware and the software. These two components complement each other in order to fulfill their basic function.

A microcomputer hardware is made up of several components based on the functions they perform in the system and how they interact with the other components.

The principal elements of a computer system are:

- Central Processing Unit (CPU)
- Main Memory (RAM)
- Secondary Storage Devices (disk, drives, magnetic tapes, etc.)
- Input/Output Devices (terminals, printers, etc.)

The CPU does the actual computing. It is capable of simple arithmetic and logical operations, such as addition and data comparison, that are executed at exceedingly high speed. The power of a computer directly stems from the speed and accuracy with which the CPU can carry out computations and move information around. The main memory of the computer is usually referred to as *Random Access Memory* or RAM. This part of the computer contains the programs and information that are currently being processed by the CPU. Secondary storage devices, such as magnetic disk, is capable of holding large amount of data. Programs and data are normally stored on these secondary devices and could be retrieved when needed. They are then loaded into the RAM and executed. The results of the processing can then be written into the secondary storage device or sent to an output device such as the monitor or printer. Peripheral devices or Input/Output (I/O) devices allow the user to put data into a computer or receive output from a computer. A terminal is a peripheral that contains both a keyboard for input and a monitor for output. Other peripherals include printers and plotters.



The diagram below presents the basic hardware component of a microcomputer system.

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Floppy Drive is the most common type secondary storage used in personal computer today. It acts as an external drive from which the users insert the floppy disk to store and retrieve information. The floppy disk comes in three sizes: 3.5 inches, 5.25 inches and 8 inches. It is characterized by thin circular plastic sheets coated with iron oxide so that magnetic patterns recorded on it can be retained. The surface is similar to a magnetic tape used to record music. The disk is contained in a square cardboard envelope in which it spins. The 3.5 inches diskette is contained in a hard plastic case with a metal shutter that protects the magnetic media. A floppy disk can store from 80 kilobytes to 1.44 megabytes of data. Floppy disk system is slower and has less storage capacity than hard disk system, but its lower cost makes it a popular choice for personal computer.

Hard disk is made of magnetic metal, and can either be removable or non-removable. The most common type of hard disk found in personal computer today is non-removable. This disk typically holds from 10 megabytes to 1.5 gigabytes of information. Each megabyte is equivalent to 1,048,576 characters of information, or roughly 1,800 single-spaced typewritten pages; hence, this is a very efficient way to store large volume of information.

Keyboard is an external device that acts as a primary interface between the human operator and the computer. The keyboard has 3 basic components: the typewriter keyboard which is composed of alphabet characters; the calculator pad which is composed of numeric characters; and the function keys which serve as special macro key for various softwares. Monitor is the screen or video display peripheral and serves as the main output device on a personal computer. It is used to display text and graphics information and is available in a variety of sizes and types. Monitors can be divided into two broad groups: those designed to display text information; and those designed to display graphics information, such as charts or picture. Within the graphics group, there are color or monochrome (single color) displays. A high quality graphic color monitor is capable of showing high resolution pattern and is recommended for application in MS-Window, Excel, or AutoCAD.

Printer is another common peripheral found in personal computer system. The 2 common type of printers are dot matrix and laser printer. The dot matrix printer produces its image by printing a group of dots that forms the image of a character or symbol. Several methods are used to create the pattern of dots. The most common are impact, thermal, and ink-jet technologies. The laser printer produces its image by means of electrophotograph similar to the principle of photocopy machine.

4. **OPERATING SYSTEM**

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An operating system is a set of control program that manages the computer's resources and create a well-defined software environment for computer applications. Computer hardware by itself can perform little useful work. A computer requires a software to be able to communicate and do useful work. The first layer of software in a computer system is the operating system. This is *what starts*, or *boots up*, the machine helps in pulling itself up by its own bootstraps and establishes a predetermined set of conditions so that applications can be run. When the computer is turned-on or the reset button is pressed, the control is pass to a set of control programs found in the ROM, a firmware store in computer chips. These programs perform several tasks: (1) to check if hardwares are functioning correctly; (2) to load a set of control program from the disk to the memory; and (3) to pass control to a routine which will accept the user input. At this point, the operating system is loaded and the user can execute an application program such as MS-Windows, MS-Word, or Excel.

An operating system by itself has two levels of functionality. The first level is seen by the user running the applications and utilizing system commands and utilities. At this level, each operating system has its own set of command used to accomplish frequently performed tasks such as copying files, renaming files, and formatting disks. Normally, frequently-used functions are included in the operating system as system commands. The second is at the programming level. All operating systems contain a set of pre-packaged routine which performs the "primitive" functions necessary in almost all applications. Such functions, like

sending a character to the screen, reading and writing information from a disk file, and accepting input from the keyboard are common to nearly all programs. This level of functionality gives the programmer a set of standardized routines to perform this task.

Operating systems, such as DOS or UNIX contain many useful utilities and provide a rich set of function, which simplify the programmer's job writing application and controlling the hardwares.

5. SOFTWARE

The operating system alone renders the computer nearly useless, unless the user is capable of directly communicating to the hardware. In order to use the computer system, a software, is needed. Various softwares are available for different purposes, such as MS-Word for word processing, Excel for spreadsheet and Foxpro for programming.

5.1. MS-WINDOWS

MS-Windows is a popular software that duplicates the function performed by DOS at the system level. Most of the commands are represented by descriptive figures called *icons*. Navigating around the windows is through a pointing device called mouse. To execute a command, the user only need to bring the mouse pointer to the desired command described by the icon and press the right button. The execution starts without typing any single character in the keyboard, unlike the DOS convention that needs typing a series of characters comprising the filename. In windows, the computer screen is referred to as the *desktop*. When working, the application and documents must be in the windows. The windows on the desktop must also be arranged. If an application is left for a while, the windows are shrunk to an application icon, and still, the application keeps running on the background. When an application is shrunk, the windows place their application icon at the bottom edge of the desktop until it is again restored to window size.

With windows, several powerful applications can be run simultaneously. For example, switching from a word processing application to a spreadsheet, and then to database application with a few simple moves while quitting one application and restarting another, can easily be done.

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Two Kinds of Windows

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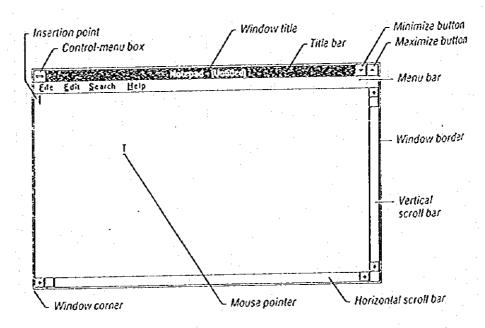
Application windows contain running applications. The name of the application, the associated document, and the application's menu bar appear at the top of the application window. Application windows can be positioned anywhere within the desktop borders.

Document windows appear only with application that can open two or more documents at one time inside the same workspace. For example, with Windows File Manager, one can open a number of directories at the same time. Each directory appears in a separate document window (called a directory window) in the File Manager workspace.

Parts of a Windows

Each application and some documents the user choose to work on, open as separate windows. Every window has some common elements, however, not all windows use all the items.

The elements as illustrated below are the tools for working with the window and the application or document within the window.



The Control-menu box located in the upper-left corner of the window is the most useful menu when the use of a keyboard is preferred. The Control-menu commands can resize, move, maximize, minimize and close windows, and switch to Task List.

The *title bar* shows the name of the application or document. If more than one window is open, the title bar of the active window has a different color or intensity compared to the other title bars.

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The *window title*, depending on the type of window it appears, can be the name of an application and the name of the document, or a placeholder. In such case, "untitled" normally appears.

The *menu bar* lists the available menus. Most applications have a File menu, an Edit menu, and a Help menu as well as other menus unique to the application.

The Scroll bar can move the parts of the document into view when the entire document will not fit in the window. With the bar, unseen portion of the lists and other information that is too long to fit in the allotted space can also be viewed.

The *Maximize and Minimize buttons* enlarge the active application window to fill the entire desktop or shrink the window to an icon. Document windows enlarge just to fill the application workspace and not the entire desktop. After enlarging the window, the Maximize button changes to a Restore button. Restore button can be used to return the window to its previous size.

The Window border is the outside edge of a window. It can lengthen or shorten each side of the border.

The Window corner can be used to shorten or lengthen two sides of a border at the same time.

The *Workspace* is where most of the work with an application are done. For example, the content of the documents appears in the workspace when starting a wordprocessor. Hence, an application can allow the opening of more than one document window within this workspace.

The selection cursor shows where the user is in an individual document. It marks the place in the text or graphics where the user begins typing or drawing. The arrow-shape mouse pointer appears if you have a mouse installed. It is used to indicate items the user wants to select with mouse.

Starting Windows

At the DOS prompt, type win and press ENTER.

When starting windows, the Program Manager window is automatically opened with the Main Group window opening inside it and other window groups represented as group icons located at the lower edge of the Program Manager window as show in the illustration in below.

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Quitting Windows

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1. Quit any application that are currently running.

- 2. Click Program Manager's File menu to open it.
- 3. Click Exit Windows.
 - The Exit Windows confirmation dialog box appears.
- 4. Click OK to exit windows.

Keyboard

- Quit any application that are currently running. Press ALT-F to open Program Manager's File Menu.
 Press X (the underlined letter in Exit).
- Or use arrow key to move the highlight to Exit Window and the press ENTER.
- 3. The Exit Windows confirmation dialog box appears.
- 4. Press ENTER to choose OK and exit windows.

Starting Window Application

To make starting application easy, Window offers three methods:

Choose a program item from a group window in Program Manager.

Choose a program file from the appropriate directory window in File Manager.

Choose the Run command from the File menu in Program Manager or File Manager.

Starting Applications from Program Manager

As long as an application belongs to a group, the easiest way to start is to choose from the group window. If a document is included with the application, it will be loaded into the application workspace.

Mouse

1. Open the Program Manager window, if not already open, and open the group window that contain the application you want to start.

2. Double-click the icon for the application.

Keyboard

1. Open the Program Manager window, if not already open, and open the group window that contain the application you want to start.

- 2. Use the arrow keys to move the highlight to the icon for application.
- 3. Choose Open from the File menu and press ENTER.

Starting Applications from File Manager

You start an application from File Manager by opening the program file from a directory window. You can execute an application program file having .COM, .EXE, .PIF, or .BAT filename extension. If the application can run in a window environment, the window will appear in front of any File Manager windows that are open.

Mouse	1. Start File Manager and open the directory window
	that contain the program file.
	2. Double-click the filename.
Keyboard	1. Start File Manager and open the directory window
legoourd	that contain the program file.
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Use the arrow keys to move the highlight to the icon for application.

3. Choose Open from the File menu and press ENTER.

Starting Applications with the Run Command

The Run command is a handy way to start applications that you want to run only occasionally or have not yet added to a group. You can open a document at the same time you start the application. Unless the program file is in your current path, you need to know the exact directory location and name of the program file before you can start the application.

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1. Choose Run from the File menu in Program Manager or File Manager.

The Run dialog box appears.

- 2. Type the pathname and the exact filename of the program file, including the extension if there is one.
- 3. If you want the application to shrink to an icon as soon as it starts, make sure the Run Minimized check box contain an X.
- 4. Choose OK or press ENTER.

5.2. MS-EXCEL

Excel is a spreadsheet type of software package that operates under the MS-WINDOWS operating system. The primary document in Excel is called a *workbook*. The workbook is similar to a ledger that stores information and each workbook is made up of *sheets*. The sheet is virtually divided into *column* and *row*; the column run horizontally and denoted by an alphabet starting with A and the row run vertically and denoted by number starting from 1. The intersection of column and row is called *cell*. The cell is the basic component of worksheet that accept different data types. The most common data types are character, number, date, logical value and formula.

Standard Toolbar

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The standard toolbar that normally appears at the top of screen helps select options. Such options can open workbook, print and save worksheet, and ask for help. The following is a list of the individual icons and their respective functions.

÷	Excel	s Standard Toolbar
Button	Nome	Function
	New Workbook	Creates a new workbook
	Open	Opens a document
	Save	Saves the active workbook
8	Print	Prints the active workbook
Q	Print Preview	Shows the active document in print preview mode

	Exce	l's Standard Toolbar
Button	Nor	ne Function
X	Speller	Checks the spelling of the document
	Cut	Cuts the selection to the Clipboard
ß	Сору	Copies the selection to the Clipboard
	Paste	Places the Clipboard contents at the insertion point
X	Format Painter	Copies and pastes formats for cells and objects
	Undo	Undoes the lass action or command
<u>S</u>	Repeat	Repeats the last action or command; this is the same as the redo feature in Word 6
Σ	AutoSum	Insects the SUM function and shows sum range
F	Function Wizard	Starts the Function Wizard
	Sort Ascending	Sorus selected rows in ascending order
Ž.	Sort Descending	Sorts selected rows in descending order
X	ChardWizard	Activates the ChareWizard
	Text Box	Inserts text or text box
	Drawing	Turns the drawing toolbar on or off
100%	Zoon	Control Sets the view of the document
	Τίρ ₩ί	zard Turns the TipWizard toolbar on or off
<u>}?</u>	Help	Displays Help

Excel's Standard Toolbar

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Button	Nome	Function
Arial	Font	Sets the font for the selection
10	Font Size	Sets the font size for the selection
<u></u>	' Bold	Boldfaces the selection
<u>2</u>	Italic	Italicizes the selection
	Underline	Underlines the selection
	Align Left	Left-aligns the selection
	Center	Centers the selection
	Align Right	Right-aligns the selection
	Center Across Columns	Centers the selection across columns
(5)	Currency Syle	Changes the selected cells to default currency style
%	Percent Syle	Changes the selected cells to default percent style
	Comma Sote	Changes the selected cells to default comma style
¥:0 7.00	Increase Decimal	Adds one decimal place (o the number format
7.00 + .0	Decrease Decimal	Removes one decimal place from the number format
	Borders	Enables you to select a border for the selection
<u>16</u>	Color	Sets the color for the selection
	Font Color	Sets the color for the selected font

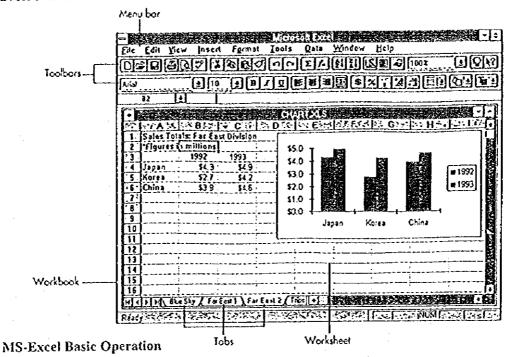
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Basic Part of Excel Screen



Following the description of the basic operation, the mouse is used as a pointing device instead of a keyboard. The word *click* means the user must press the left button of the mouse; double click means two successive clicks; and *enter* means the user must press the Enter key in the keyboard. Basic operation dealt only to the routine necessary to update the PW4SP data base.

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Creating a New Worksheet

When you enter Excel, it opens up to a new workbook, by default it contain 16 worksheets. You can use any of the worksheets. Even if there is an open workbook, you can still open another by moving the mouse pointer in the New icon (upper left of the screen below the menu bar). Click on it.

Saving the Workbook

- I. Move mouse pointer to File menu and click on it to bring the File menu option.
- 2. From the option available. Select Save.
- 3. If the document your saving is new. The Save As dialog box appear. In the File Name box type the name of the workbook.

Enter Data in a Cell

1. First select the *cell* by moving the mouse pointer and clicking the right button. This routine place the insertion point in the active cell, which is highlighted on-screen with border around it.

- 2. You can start entering the data from your keyboard or numeric keypad.
- 3. To confirm the input, you can press ENTER or move the mouse pointer to the Formula bar and click the Check icon.

Editing Cell Contents

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- Double-click the cell containing the data you want to edit. To edit in the formula bar, click in the formula bar. In case the formula bar is not displayed, choose Formula Bar from the View menu located at the top row of screen.
- 2. Edit the cell contents.
- 3. To confirm the modification made in the cell, click the Check icon in the formula bar or press ENTER. To cancel edits, click the X icon in the formula bar or press ESC.

Clearing Cells

- I. Select a cell or range of cells that you want to clear.
- From the Edit menu, choose Clear, and from the option available, you the choose All, Contents, Formats, or Notes.
 Shortcut: Press DEL.
 - 5.....

To clear cells by dragging

- 1: Select a cell or range of cells that you want to clear.
- 2. Move the mouse pointer in the *fill handle* (lower right corner), drag the fill handle toward the area of cell or range, then the selected area will become gray.
- 3. Release the mouse button.

Copying Cells

- 1. Select the cells containing the data you want to copy.
- 2. From the Edit menu, choose Copy.

3. Select the upper-left cell of the paste area. Beware that any values or formula in the paste area will be replaced.

Undo Command

1. To undo your last command, click the Undo button. From the Edit menu, choose Undo.

Creating Border around Cell

- 1. Choose the Cell menu from Format menu.
- 2. Choose the side you want put the border, and then choose type of border.
- 3. Click OK button.

Deleting Rows and Columns

- 1. Select the row or column
 - To delete more than one row or column, extend the selection to include all the rows or columns you want to delete.

2. From the Edit menu, choose delete (Entire rows or column)

3. Click OK button

Inserting Rows and Columns

1. Select the row or column

To insert more than one row or column, extend the selection to include the number of rows or columns you want to insert.

2. From the Edit menu, choose Insert (Entire rows or column)

3. Click OK button.

Selecting a Sheet or Sheets

To select a single sheet, click the sheet tab.

To select two or more sheets

- 1. Click the sheet tab for the first sheet you want to select.
- 2. If the sheets you want to select are adjacent, hold down the SHIFT key and click the tab for the last sheet.
 - If the sheets you want to select are non-adjacent, hold down the CTRL key and click the other sheet tabs.

Ungroup Selected Sheets

1. Move the mouse pointer to the sheet tab. Click the left button of the mouse.

2. While the mouse pointer still on the sheet tab, click the right button and choose the Ungroup Sheets.

Inserting Worksheet

1. Select a sheet or sheets in the workbook.

2. From the Insert menu, choose Worksheet.
 The new sheet or sheets will be inserted to the left of the sheet tab you select.
 Shortcut: SHIFT+F11

Deleting Worksheet

1. Select a sheet or sheets in the workbook.

2. Move the mouse pointer to the sheet tab, and click the right button.

3. Choose Delete, and click the OK button.

Moving Worksheet Within the Workbook

- 1. Select the sheet or sheets you want to move.
- 2. Drag the selected sheet tab along the row of tabs.A black triangle indicates the place where the sheets will be inserted.All selected sheets will be inserted.
- 3. Release the mouse button.

Alternate Method

- 1. Select the sheet or sheets you want to move.
- 2. From the Edit menu, choose Move or Copy Sheet.
- 3. In the Before Sheet box, select where you want sheets to be inserted.
- 4. Click the OK button.

Moving Sheets to Other Workbook

- 1. Open the workbooks you want to move sheets to and from.
- 2. Select the sheet or sheets you want to move.
- 3. From the Edit menu, choose Move or Copy Sheet.
- 4. In the To Book box, select the destination workbook.
- 5. In the Before Sheet box, select where you want the sheet or sheets inserted.
- 6. Click OK button.

Alternative Method

- 1. Open the workbooks you want to move sheets to and from.
- 2. From Window menu, choose Arrange and choose horizontal. In the desktop, two workbooks will open in screen split the workarea horizontally.
- 3. Select the sheet or sheets you want to move.
- 4. Hold-down the CTRL key and the right button of the mouse.
- A paper icon and black triangle indicate that you made the move routine active.
- 5. Drag the mouse pointer to the other workbook and select where you want
- the sheet or sheets inserted.
- 6. Release the mouse button.

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Copying sheets within a workbook

- 1. Select the sheet or sheets you want to copy.
- 2. Hold down the CTRL key and mouse left button, and then drag the selected sheet tab along the row of tabs. A black triangle indicates the place where the copied sheet will be inserted.
- the copied speet will be inserted.
- 3. Release the mouse button and then the key.

Alternative Method

- 1. Select the sheet or sheets you want to copy.
- 2. From the edit menu, choose Move or Copy Sheet.
- 3. In the Before Sheet box, select where you want the copied sheet inserted.
- 4. Select the Create A Copy check box.
- 5. Click the OK button.

Copying sheets to other workbook

- I. Open the workbook you want to copy to and from.
- 2. Select the sheet or sheets you want to copy.
- 3. From the Edit menu, choose Move Or Copy Sheet.
- 4. In the To Book box, select the destination workbook.
- 5. In the Before Sheet box, select where you want the copied sheet inserted.
- 6. Select the Create A Copy check box.
- 7. Choose the OK Button.

Printing your Work

- 1 From File menu, choose Page Setup to display the Page Setup dialog box.
- 2. On Page Setup dialog box, their are four option available
 - Page tab controls page orientation, scaling, page size, print quality, and starting page number for the selected sheet.

Margin tab controls page margins and the header and footer margins, and center the sheet on the page vertically, horizontally or both.

- Header/Footer tab controls page the headers and footers for the selected sheet. headers and footers are descriptive text that print at the top and bottom of every page in your sheet. You can add, delete, edit, format, and position headers and footers, and view them as they will print.
- Sheet tab specifies which areas of the sheet you want to print, and controls the print titles, page order, and draft quality. Also controls whether gridlines, cell notes, and row and column heading print. The Sheet tab is displayed if the active sheet is a worksheet or macro sheet.
- 3. On the Print What, their are three option available.

Selection option prints only the selected cells in the selected sheets. Nonadjacent selections are printed on separate pages. Selecting this overrides any print areas you have defined for the selected sheets using Print Area option on the Sheet tab of the Page Setup dialog box.

Selected Sheets option prints the area of each of the currently selected sheets, with each print area starting on a different page. If no print area is defined

on a separate sheet, the entire sheet is printed.

Entire Workbook option prints the entire print area of all sheets in the active workbook. If a sheet does not have a print area, that entire sheet is printed.

4. On the Copies box, specifies the number of copies to print.

5. On the Page Range, their are two option available.

All option print all the pages in the selected sheets.

- Page(s) option print the range of pages specified in the From and To boxes. Page numbers you selected in the From and To boxes affect which cells will be printed, not the numbering of the pages upon which they are printed. To change the numbering of printed pages, specify a number in the First Page Number box of the Page tab in the Page Setup dialog box.
- 6. The user have option to see the appearance of the print by clicking the Print Preview button.
- 7. Printer Setup option give the user an option to select among the available printer drivers.
- 8. Click the OK button to proceed printing.

5.3. MS-WORD

MS-Word is word processing type of software. This is analogous of converting your computer into typewriter machine. You have page in which you type characters, you have a ruler that show where you are as you type across the page. You have tabs stops and margin settings. The insertion point moving across the page even acts like the print head moving across the page.

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MS-Word offer more advance features that you need to create from simple to complex type of document. When you start Word you will notice almost the identical appearance with that of MS-Excel. Most of the command are represented in terms of icon, in the middle of the workspace were you enter your text and other object included in your documents.

Starting Word

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From the MS-Window environment, you can double-click the MS-Word icon in the MS-Office program group. In some case the MS-Office administrator is automatically loaded at start-up of Windows environment. The MS-Office administrator menu icons are located in the upper right side of the screen. You can start MS-Word by clicking the icon.

Quiting Word

- 1. Move mouse pointer to File menu and click. File sub-menu will appear.
- 2. From the File sub-menu, move mouse pointer to Exit option and click.

The MS-Word environment will normally terminate. In some cases, if some active documents has not yet been save. MS-Word give the user's option to save the documents.

Standard Toolbar

The standard toolbar which normally shown at the top of screen helps you select the option, from this toolbar. The user's can open new document, open existing document, print and save document, and ask help to farther understand some function or procedure to accomplish desired task. Using the toolbar speed-up the desire task instead of using the menu (located at the top of the screen). The following shows the list of standard toolbar icons and their function.

lcon	Nome	Description
	New	Creates a new file based on the Normal template
	Open	Displays the Open dialog box so that you can select an existing file to open
	Save	Saves the corrent document
B	Print	Prints the current document
Q	Print Preview	Activates Word's print preview features
Nº5	Spelling	Initiates a spelling check

Standard Toobar Icons

lcon	Nome	Description
	110000	
5 V -	Cut	Cuts selected material to the Windows Clipboard
	Сору	Copies selected material to the Clipboard .
	Paste	Pastes material from the Clipboard into your docu- ment
X	Format Painter	Copies the formatting of a selection to the text you specify
Ĩ v ĵ∓	Undo	Undoes the commands you select from the list presented
Q +	Redo	Redoes the commands you select from the list pre- sented
1	AutoFormat	Formais your document automatically
	Insert AutoText	Inserts an AutoText entry
	Insert Table	Inserts a table into your document
	Insert Excel Worksheet	Inserts an Excel worksheet into your document
	Columns	Formats your document using columns
	Drawing	Opens the drawing application and enables you to draw a picture in your document
ĨĨ	Insert Chart	Inserts a chart into your document
E	Zoom Control	Scales your view of the document by the percentage you select
<u></u>	Help	Activates context-sensitive help

Standard Toobar Icons

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MS-Word Basic Operation

Opening and Existing Document

- 1. Click the Open Folder icon (normally second from the left) to bring up the open dialog box.
- 2. In the Open Dialog box, select the file you to open from File Name combination box.
- 3. Click the OK button.

Changing the Format of the Text

- 1. Click the arrow button to the right of the font box to bring the list of available font.
- 2. Scroll through the list box by clicking on the scroll bar, and select a font by clicking on it.
- 3. Begin typing. The text will appear in the font you just selected.

Changing the Font Size

- 1. Click the arrow button to the right of the *font size* box to bring the list of available size.
- 2. Scroll through the list box by clicking on the scroll bar, and select a size by clicking on it.
- 3. Begin type. The text will appear in the font size you size selected.

Choose a Style

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Perform any of the following procedures to change a font style:

- Click on the button labeled B to set the bold feature on.
 You also can press Ctrl+B from the keyboard.
- Click on the button labeled I to set the *italic* feature on. You also can press Ctrl+I from the keyboard.
- Click on the button labeled U to set the *underlined* feature on. You also can press Ctrl+U from the keyboard.
- Click on the button labeled B and I to set both *bold and italic* features You also can press Ctrl+B followed by Ctrl+I from the keyboard.

Setting Special Effects

You can use a variety of special text effects:

- Strikethrough
- Superscript
- Subscript
- Hidden
- Small caps
- All caps

To set any of these features, use the following procedure:

- 1. Open the Format menu and select the Font item.
- 2. If the Fonts tab is not on top, click on it.
- 3. In the *Effect* group box, select the check box that represent the special effect you want to turn on.
- 4. Click the OK button.
- 5. Begin typing. Your text appears with the special effect you selected.

Setting the Indentation

- 1. Open the Format menu and select the Paragraph item.
- 2. If the Indents and spacing tab is not on top. click on it.
- 3. In the indentation group box, use the Left and Right spin boxes to set the indentation from the left and right margins. Click on the arrow buttons until the measurement is correct, or select the text in the body by highlighting it with the mouse and then type exact measurement you want.
- 4. To set first line or hanging indentation, open the Special drop-down list box by clicking on its arrow, and select the appropriate item. Use the By spin box to set the measurement for the first line indentation or the hanging indentation.
- 5. Click the OK button. Your current paragraph takes on the indentation you just set. Each subsequent paragraph you create takes on this pattern, unless you reset the indentation using the dialog box.

Setting Line Spacing

- 1. Open the Format menu and select the Paragraph item.
- 2. If the Indents and Spacing tab is not on top, click on it.
- 3. In the Spacing group box, use the <u>B</u>efore and After spin boxes to set the distance in points from the previous paragraph and from the following paragraph. Click on the arrow buttons until the measurement is correct, or select the text in the box by highlighting it with the mouse and then type the exact measurement you want.
- 4. To set line spacing within the paragraph, open the Line Spacing drop-down list box by clicking on its arrow, and select the appropriate item. Then use the <u>At</u> spin box to set the measurement for number of lines or distance between lines, whichever is active.
- 5. Click the OK button. Your current paragraph takes on the line spacing you just set. Each subsequent paragraph you create takes on this pattern, unless you reset the line
- spacing using the dialog box.

Copying and Inserting Text

- 1. Highlight the text by dragging the mouse pointer over the text to be selected.
- 2. Move pointer to Copy icon and click on it.
- 3. Move mouse pointer to the place were you would like the insertion take place.
- 4. Move mouse pointer to Paste icon and click on it. Alternatively, you can press the right button of the mouse to bring the menu option., select the paste by click on it.

Undoing and Redoing

If you do make a mistake, you can undo it by selecting the Undo option from the Edit menu. This procedure undoes the last change you made to the document. Word always will add the name of the operation you are about to undo as the second word of the Undo menu item. If you cannot undo anything, this option change to Can't Undo and is dimmed.

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Overstriking Text

There are times, however, when you want to type over existing text. To switch to this editing mode, press the Insert key in the keyboard. When you type, the characters you type replace any characters to the left of the insertion point. To turn off the overstrike mode, press the Insert key again.

Deleting Text

Use mouse pointer to highlight the desire text and press the Del key from the keyboard.

Insert File

- 1. Move mouse pointer in the location were you would like the insertion take place.
- 2. From the Insert menu, select File option.
- 3. From the **File** name combination box, select the file you would like to insert. Click the **OK** button.

Creating the Header or Footer

- 1. From the View menu, choose Header and Footer.
- 2. The Header and Footer toolbar appear, click the switch between Header and Footer button. The header and footer areas are enclosed by a nonprinting dashed line.
- 3. Do one or more of the following;
 - Text You can type the text within the dashed line that surround the header or footer area.
 - Page Number Click the icon.

Current Date - Click the icon.

Current Time - Click the icon.

 To return to the document, choose the Close button on the Header and Footer toolbar, or double-click the main text area

Previewing the Document

- 1. From the File menu, choose Print Preview.
 - While in the print preview mode, you can perform the following options. a) You can print the document by click the Print button.
 - b) You can switch the magnifier on and off by clicking on the magnifier button.
 - c) You can switch to a one page view by clicking the One Page button.
 - d) You can switch to view multiple pages by clicking on the Multiple Pages Button and dragging across the grid that appears, releasing the
 - mouse button when you have the multiple-page view you want to use. e) You can zoom in or out on your document by adjusting the zoom
 - percentage in the Zoom Control drop-down list box.
 - f) You can switch the view of the ruler on and off by clicking on the View Ruler button.
 - g) You can squeeze a small amount of text on the final page into the the outer pages by clicking on the Shrink to Fit button.
 - h) You can expand the preview screen to show only the page, the
 - toolbar, and the status bar clicking on the Full Screen button.
 - I) You can exit the preview mode by clicking on the Close button.

Printing your Document

- 1. From the File menu, choose Print option.
- A Print dialog box appear.
- 2. In the Print What drop-down list box. This option enables you to print the document or several items ancillary to the document, such as Summary Info, Annotation, Style, Autotext Entries, and Key Assignments.
- 3. Use the Copies box to enter the number of copies to print.
- 4. Use the Page Range option to determine how much of the document to print. You can print All the document, the Current Page, or selected Pages.
- 5. Check the *Collate Copies* check box to finish the first set of copy before printing the second copy.
- 6. When all it set correctly, close all the dialog boxes you have open, and click OK button, the printing process begin.

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6. **PW4SP DATA FILES**

Data files are collection of information revelant to the preparation of PW4SP. Data files are logically group into three major areas of information. The first group of information are the base data that are composed of information derived from survey, ocular inspection, and existing information from the provincial and national agencies. The second group of information are the key parameter data that are composed of information derived from applicable policies, assumption, water test result, and current cost of commodity. The third group of information are the presentation of data which derived from the previously mentioned groups of information's, this data are processed and then logically arranged to show provincial profile, existing facilities and service coverage, past financial performance, future requirement of the relevant sector, cost estimates for future sector development, and financial arrangement.

6.1. Base Information

1. Socio-economic Data (socio.xls)

- a) Administrative Composition ((M) Administrative Composition)
- b) Past Population ((M) Past Population Page 1 to 2)
- c) Projected Population ((M) Projected Population)
- d) Household ((M) Household)
- e) Services ((M) Services)
- f) Occupation ((M) Occupation)
- g) Family Income, Education and Literacy ((M) Family Income and Education)

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2. Land Use Data (landuse.xls)

a) Existing Land Use ((M) Existing Land Use)

b) Future Land Use ((M) Future Land Use)

3. Health Data (health xls)

a) Morbidity, Mortality and Infant Mortality ((M) Morbidity and Mortality)b) Facility and Practitioner ((M) FacilityPractitioner)

4. Water Resource Data (h2ores.xls)

a) General Information ((M) General Information)b) Water Source Information ((M) Source Information)

5. Water Supply Systems Data (h2osupp.xls)

a) Level III Systems ((S) Level III P1-2 .. P2-2) b) Level II Systems ((S) Level II P1-4 .. P4-4)

6. Environmental Sanitation Data (sanit.xls)

a) Household Toilets ((M) Household Toilets)

b) School and Public Toilets ((M) Sch. and Pub. Toilets)

c) Drainage Facility ((M) Drainage Facility)

d) Solid Waste Collection and Disposal ((M) Solid Waste)

7. Investment Data (invest.xls)

a) Previous Annual Investment ((P) Fin. Past Ann. Invest.)b) Planned Annual Investment ((P) Fin. Future Ann. Invest.)

6.2. Key Parameter

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1. Key Parameters (keypar.xls)

a) Key Parameter (Key Parameter)

b) Level I - Safe and Unsafe (Level I Safe and Unsafe)

c) Well Source Composition (Well Source Composition)

d) Unit Cost (Unit Cost)

e) Scoring Factor (Scoring Factor)

f) Annual Investment (Annual Investment)

6.3. Data Presentation

1. Provincial Profile (chap-3.xls)

a) Outline of City and Municipalities (MTable 3.1.1)

b) Current Land Use (MTable 3.2.1)

c) Drainage Areas and Flow Rates of Major Rivers (MTable 3.2.2)

d) Distribution of Households by Income Class (MFigure 3.3.1)

e) Population Distribution by Occupation (Figure 3.3.2)

f) Population Distribution by Highest Attainment of Education (MFigure 3.3.3)

g) Provincial Outline on Public Services (MTable 3.3.1)

h) Public Facilities and Services by Municipality (MTable 3.3.2)

i) Previous Population Development of the Province (MFigure 3.4.1)

j) Previous Population Development by Municipality (MTable 3.4.1)

k) Present Population Distribution (MFigure 3.4.2)

I) Outline of Urban and Rural Areas in the Province (MTable 3.4.2)

m) Household Numbers and Household Sizes (MTable 3.4.3)

n) Number and Rates of Ten Leading Causes of Morbidity,

Mortality and Infant Mortality (MTable 3.5.1)

o) Reported Cases and Deaths of Notifiable Water Related Diseases (MTable 3.5.2)

p) Municipal Solid Waste Collection and Disposal, and

Service Coverage in 1994 (MTable 3.6.1)

q) Number and Ratio of Population to Health Facilities

and/or Medical Practitioners (STable 3.5.1) r) Types of Drainage Facilities (STable 3.6.1)

s) DENR Water Quality Criteria/Water Usage and Classification

for Fresh Water (STable 3.6.2)

2. Existing Facilities and Service Coverage (chap-4.xls)

a) Information on Existing Level III Systems (MTable 4.1.2)
 b) Information on Water District (MTable 4.1.3)

c) Information on Existing Level II Systems (MTable 4.1.4)

d) Information on Existing Level I Facilities (MTable 4.1.5)

e) Water Supply Service Coverage by Municipality in 1994 (MTable 4.1.7)

f) Water Supply Service Coverage by Municipality (MFigure 4.1.1)

 g) Sanitation Facilities and Service of Household Toilets, Urban and Rural, 1994 (MTable 4.2.1)

h) Provincial Service Coverage of Household Toilet Facilities, 1994 (MFigure 4.2.1)

i) School Toilet Facilities and Service Coverage in 1994 (MTable 4.2.2)

j) Public Toilet Facilities and Service Coverage in 1994 (MTable 4.2.3)

k) Details on Existing Level III Systems (STable 4.1.1 Sheet 1 to 4)

1) Details on Existing Level II System (STable 4.1.2 Sheet 1 to 6)

m) Number of Level I Facilities by Safe and Unsafe Classification (STable 4.1.4)

n) Estimation of Unserved Population by Muricipality (STable 4.1.5)

 e) Estimation of Population Covered by Safe and Unsafe Source by Municipality (STable 4.1.6 Sheet 1 to 2)

p) Sanitation Facilities and Service Coverage of Household Toilets by Type, by Municipality, Urban and Rural, 1994 (STable 4.2.1)

3) Past Financial Performance in Water Supply and Sanitation (chap-6.xls)

a) Previous Sector Investment to the Province by Concerned Agency (MTable 6.2.1)

b) Past Internal Allotment to the Province from Central Government (MTable 6.2.2)

c) Affordability in Water and Sanitation Services (MTable 6.4.1)

d) Financial Indicators of Water Districts (MTable 6.5.1)

e) Loan Status of Water Districts (MTable 6.5.2)

f) Past Internal Revenue Allotment to Municipalities from Central Government(STable 6.2.1)

4) Water Source Development (chap-7.xls)

a) Existing Groundwater Sources in the Province (MTable 7.1.1)

b) Work Flow of Groundwater Availability Map (SFigure 7.3.1)

c) Existing Spring Sources by Municipality (STable 7.4.1)

d) River Information and Related Data (STable 7.5.1)

e) Water Quality Analysis Results (STable 7.5.2)

f) Existing Well Sources (STable 7.6.1)

g) Standard Specification of Wells by Municipality (STable 7.6.2)

5) Future Requirement in Water Supply and Sanitation Environment (chap-8.xls)

1) Provincial Sector Targets (MTable 8.2.1)

2) Base Year Service Coverage of Water Supply (MTable 8.2.2)

3) Base Year Service Coverage of Household Toilets (MTable 8.2.3)

4) Base Year Service Coverage of Public School Toilets and

Public Toilets (MTable 8.2.4)

5) Base Year Service Coverage of Municipal Solid Waste System in 1994 (MTable 8.2.5)

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6) Future Population by Urban and Rural Area by Municipality (MTable 8.3.1)

- Projected Public School Enrollment and Number of Public Utility by Municipality (MTable 8.3.2)
- 8) Population to be Served by Target Year (Water Supply) (MTable 8.5.1)

9) Additional Number of Households to be Served by Target Year (Household Toilets) (MTable 8.5.2)

10) Additional Number of Public School Student to be Served by Target Year (School Toilets) (MTable 8.5.3)

- 11) Additional Number of Public Utilities with Sanitary Toilets by Target Year (MTable 8.5.4)
- 12) Population to be Served by Urban Sewerage in Phase II (MTable 8.5.5)
- 13) Additional Number of Urban Households to be Served by
 - Municipal Solid Waste System in Phase I (MTable 8.5.6)
- 14) Water Supply Facilities Required by Target Year (MTable 8.6.1)
- 15) Sanitation Facilities Required by Target Year (MTable 8.6.2)
- 16) Number of Garbage Collection Trucks Required in Phase I (MTable 8.6.3)
- 17) Estimation of Base Year Service Coverage of Water Supply (STable 8.2.1)
- 18) Population Coverage in Phase I Provided by Served Population in the Base Year (STable 8.2.2)
- 19) Number of Households Served by Sanitary Toilets in the Base Year (1994)(STable 8.2.3)
- 20) Number of Public School Student Served by School Toilets in the Base Year (STable 8.2.4)
- 21) Number of Public Utilities with Sanitary Toilets in the Base Year (1994) (STable 8.2.5)
- 22) Households Coverage in Phase I Provided by Existing Facilities in the Base Year (Household Toilets) (STable 8.2.6)
- 23) Public School and Public Coverage in Phase I Provided by Existing Facilities in the Base Year (STable 8.2.7)
- 24) Projected Number of Households by Urban and Rural Areas by Municipality by Target Year (STable 8.3.5)
- 25) Projected School Enrollment by Municipality by Target Year (STable 8.3.6)
- 26) Projected Number of Public Utilities by Municipality by Target Year (STable 8.3.7)
- 27) Population to be Served by Level II System in Phase I (STable 8.5.1)
- 28) Population to be Served in Phase I (Water Supply) (STable 8.5.2)
- 29) Population to be Served in Phase II (Water Supply) (STable 8.5.3)
- 30) Additional Number of Households to be Served in
- Phase I (Household Toilets) (STable 8.5.4)
- 31) Additional Number of Households to be Served in Phase II (Household Toilets) (STable 8.5.5)
- 32) Additional Number of Public School Students to be Served in
 - Phase I and II (School Toilets) (STable 8.5.6)
- 33) Additional Number of Public Utilities with Sanitary Toilets in Phase I and II (STable 8.5.7)
- 34) Urban Water Supply Facilities Required by Target Year (STable 8.6.1)
- 35) Plan for Expansion of Existing Level III System (STable 8.6.2)
- 36) Rural Water Supply Facilities Required by Target Year (STable 8.6.3)
- 37) Urban Household Toilets Required by Target Year (STable 8.6.4)
- 38) Rural Household Toilet Required by Target Year (STable 8.6.5)
- 39) Public School Toilets Required by Target Year (STable 8.6.6)
- 40) Public Toilets Required by Target Year (STable 8.6.7)

6) Cost Estimates for Future Sector Development (chap-10.xls)

a) Unit Cost of Facilities by Type and Service Level (MTable 10.2.1)

b) Construction Cost of Required Facilities by Municipality (MTable 10.3.1) c) Recurrent Cost (MTable 10.4.1)

d) Unit Cost of Level I (Deep Well - 40 meter Depth) (STable 10.2.1)

- e) Unit Cost of Level I (Deep Well 80 meter Depth (STable 10.2.2)
- f) Unit Cost of Level I (Deep Well 120 meter Depth) (STable 10.2.3)
- g) Unit Cost of Level I (Deep Well Rehabilitation) (STable 10.2.4)
- h) Unit Cost of Level I (Shallow Well 18 meter Depth) (STable 10.2.5)

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i) Unit Cost of Level II (600 Service Population) (STable 10.2.6)

j) Unit Cost of Level III (5,000 Service Population) (STable 10.2.7)

k) Unit Cost of Level III (10,000 Service Population) (STable 10.2.8)

1) Unit Cost of Level III (15,000 Service Population) (STable 10.2.9)

m) Unit Cost of Flush Water Sealed with Septic Tank Toilet (STable 10.2.10)

n) Unit Cost of Pour Flush with Double Pit Latrine (STable 10.2.11)

o) Unit Cost of Ventilated Improved Pit Latrine (STable 10.2.12)

p) Unit Cost of School Toilet (STable 10.2.13)

q) Unit Cost of Public Toilet (STable 10.2.14)

r) Construction Cost of Water Supply Facilities Required for Phase I (2000) (STable 10.3.1)

s) Construction Cost of Water Supply Facilities Required for Phase II (2010) (STable 10.3.2)

t) Cost of Sanitation Facilities Required for Phase I (2000) (STable 10.3.3)

u) Cost of Sanitation Facilities Required for Phase II (2010) (STable 10.3.4)

7) Financial Arrangements (chap-11.xls)

- a) Projected Internal Revenue Allotment for Medium-Term Sector Development (MTable 11.2.1)
- b) Projected Allotment of IRA to the Relevant Sector by Component, 1996-2000 (MTable 11.2.2)

c) Financing Requirements by Sector Component for the Province (MTable 11.3.1)

d) Additional Fund Requirement for Medium-Term Plan (MTable 11.3.2)

e) Internal Revenue Allotment for Water Supply and Sanitation Sector

by Municipality (Medium-Term Development 1996-2000) (MTable 11.3.3)

f) Relationship between Funding Levels and Percent of Coverage for Water Supply Sector (MFigure 11.4.1)

g) Relationship between Funding Levels and Percent of Coverage for Sanitation Sector (MFigure 11.4.2)

h) Municipal Investment Need Ranking for Urban Water Supply (MTable 11.4.1)

i) Distribution of Provincial IRA to Municipality for

Urban Water Supply (MTable 11.4.2)

j) Municipal Investment Need Ranking (MTable 11.4.3)

k) Percentages for Annual Investment (STable 11.3.1)

I) Comprehensive Investment Need Ranking of the Municipalities (STable 11.4.1)

DATA FILES LINKAĜES

7.

Linkages are logical connection between records in the data files. Through linkages, once the user's updates the source data, all data in the streams of linkages are dynamically updated. Linkages are the convenient tools of updating related data, these also shield the user's from the complexity of formula manipulation. With the aid of the data linkages the user's can concentrate more in validating the source data.

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The following table lists the logical connections for each worksheet.

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Table 2.6.2 Data File Linkages

continue to next page ... Household Population by Highest Education Attainment Outline of Urban and Rural Areas in the Province Gainful Workers by Occupation Group and Major Public Facilities and Services by Municipality Education Level and Literacy of Population Information on Existing Level III Systems Distribution of Household by Income Class Solid Waste Collection and Disposal Morbidity and Mortality Summary Morbidity and Mortality Summary Outline of City and Municipality Tide Family Income and Education Family Income and Education Past Population Page 2 Past Population Page 2 Past Population Page 2 Past Population Page 2 Past Population Page Household Number Household Number Source Link Existing Landuse Industry Group Occupation Table/Form Sheet 1, 3, Number M 1.2.2 MT 3.1.1 MT 3.3.2 MT 3.4.2 ST 3.3.2 ST 4.1.1 MT 1.2.1 M 1.2.2 ST 3.3.3 M 1.2.2 ST 3.3.2 ST 3.3.1 M 1.6 M 1.2.2 and 4 M 1.4 M 6.5 M 1.4 M 3.1 M 3.1 M 1.7 M 1.7 M 2.1 Filename Chap-4.xls Chap-3.xls Landuse.xls Chap-3.xls Chap-3.xls Chap-3.xls Chap-3.xls Chap-3.xls Number and Rates of Ten Leading Causes of Mobidity. [Health.xls Health.xls Socio.xls Socio.xls Socio.xls Socio.xls Sanit.xls Socio.xls Socio.xls Socio.xls Socio.xls Socio.xls MF - Main Report Figure. ST - Supporting Report Table. Reported Cases and Deaths of Notifiable Water related Number of Family by Income Class by Municipality Previous Population Development by Municipality Population Distribution by Highest Attaintment of Outline of Urban and Rural Areas in the Province Municipal Solid Waste Collection and Disposal, Education Level and Literacy of Population Information on Existing Level III Systems Households Numbers and Household Sizes Distibution of Households by Income Class Population Distribution by Occupation Population Distribution by Occupation Outline of City and Municipality Present Population Distribution Title Mortality, & Infant Mortality and Service Coverage, 1994 **Destination** Link Current LandUse Education Diseases MT - Main Report Table, MT 3.4.1 & Table No. ST 3.3.2 ST 3.3.3 MT 4.1.2 MT 3.5.2 MT 3.4.2 MT 3.4.3 MT 3.6.1 MF 3.4.1 MF 3.4.2 MT 3.5.1 MF 3.3.3 MF 3.3.2 ST 3.3.1 MT 3.1.1 MT 3.2. MF 3.3.1 Chapter No. Chapter - 4 Chapter - 3 Nole:

M. - Questionnaire Form (Municipal Data). S - Questionnaire Form (System Data). F - Questionnaire Form (Facility Data).

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Data File Linkages **Table 2.6.2**

	•	Destination Link			Source Link
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 4	MT 4.1.3	Information on Water District Data	Chap-4.xls	ST 4,1,1 Sheet 1 & 4	Infromation on Existing Level 111 System
	MT 4.1.4	Information on Existing Level II System	Chap-4.xls	ST 4.1.2 Sheet 1.8-2	Existing Level 11 System
	MT 4.1.5	Estimation of Unserved Population by Municipality	Chap-4.xls	ST 4.1.4	Number of Level 1 Facilities by Safe and Unsafe
			• • • •	ST 4.1.6 Sheet 1 & 2	Classification Estimation of Population Covered by Safe and Unsafe Source by Municipality
	MT 4.1.7	Water Supply Service Coverage by Municipality	Chap-4.xls	ST 4.1.6	Estimation of Population Covered by Safe and Unsafe
			Socio.xls	Sheet 2 M 1.3	Source by Municipality Protected Population
	MT 4.2.1	Sanitation Facilities and Service Coverage of Household Toilets, Urban and Rural, 1994	Socio.xls	M 1.4	Household Number
			Chap-4.xls	ST 4.2.1	Sanitation Facilities and Service Coverage of Household Toilets, by Type, by Municipality, Urban and Rural, 1994
	MT 4.2.2 Sheet 1	School Toilets Facilities and Service Coverage, 1994	Sanit "xls	M 6.2	School Toilets
	MT 4.2.2 Sheet 2	Public Toilets Facilities and Service Coverage, 1994	Sanit "xls	M 6.3	Public Toilets
	MF 4.1.1	Water Supply Coverage of the Province	Chap-4.xls	MT 4.1.7	Water Supply Service Coverage by Municipality
	ST 4.1.4	Number of Level 1 Facilities by Safe and Unsafe Classification	H20Supp.xls Kevpar.xls	(F) 5.3.1 ST 2.6.5	Level 1 Facility Level 1 Safe and Forste Percention
	ST 4.1.5	Estimation of Unserved Population by Municipality	Socio.xls Chap-4.xls	M 1.2.2 ST 4.1.6	Past Population Page 2 Estimation of Population covered by Safe and Unvafe
			· . · ·	Sheet 1 & 2 ST 4.1.2	Details on Existing Level II System
	ST 4.2.1	Sanitation Facilities and Service of Household Toilets by	Socio.xls	M 1.4	Household Number
		Type, by Municipulity. Urban and Rural. 1994		L V W	Howerbold Torilers

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M - Questionnaire Form (Municipal Data). S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

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Table 2.6.2 Data File Linkages

Title Filename Estimation of Population Covered by Safe and Unsafe Falename Estimation of Population Covered by Safe and Unsafe Chap-4.xls Source by Municipality Covered by Safe and Unsafe Estimation of Population Covered by Safe and Unsafe Chap-4.xls Source by Municipality Chap-8.xls Provincial Sector Targets Chap-8.xls Base Year Coverage in Water Supply Chap-8.xls Base Year Service Coverage of Household Toilets Chap-8.xls		Source Link
ST 4.1.6 Estimation of Population Covered by Safe and Unsafe Chap-4.x1s S Sheet 1 Source by Municipality Source by Municipality S ST 4.1.6 Estimation of Population Covered by Safe and Unsafe Chap-4.x1s S Sheet 2 Source by Municipality S S Mrf 8.2.1 Provincial Sector Targets Keypar.xis S Mrf 8.2.1 Provincial Sector Targets Chap-4.xis S Mrf 8.2.1 Provincial Sector Targets Chap-8.xis N Mrf 8.2.2 Base Year Coverage in Water Supply Chap-4.xis N Mrf 8.2.3 Base Year Coverage in Water Supply Chap-8.xis N Mrf 8.2.3 Base Year Coverage of Household Toilets Chap-8.xis N	Filename Table/Form	Title
Sheet 1 Source by Municipality ST 4.1.6 Estimation of Population Covered by Safe and Unsafe Sheet 2 Source by Municipality Sheet 2 Source by Municipality MrT 8.2.1 Provincial Sector Targets MrT 8.2.2 Base Year Coverage in Water Supply MrT 8.2.3 Base Year Coverage in Water Supply MrT 8.2.3 Base Year Coverage of Household Toilets MrT 8.2.3 Base Year Service Coverage of Household Toilets	Chap-4.xls ST 4.1.4	Number of Level I Facilities by Safe and Unsafe
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MT 8.2.1 Provincial Sector Targets Keypar.tis S Chap-8.xis N MT 8.2.2 Base Year Coverage in Water Supply Chap-4.xis MT 8.2.3 Base Year Service Coverage of Household Toilets Chap-8.xis MT 8.2.3 Base Year Service Coverage of Household Toilets Chap-8.xis		Esumation of roputation Covered by Safe and Cusary Source by Municipality
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Base Year Coverage in Water Supply Chap-4.xls Chap-8.xls Chap-8.xls Base Year Service Coverage of Household Toilets Chap-8.xls	ST 8.5.7	Municipal Solid Waste System in Place A Number of Public Utilities with Sanitary Toilets in
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	ST 8.2.3	Number of Households Served by Sanitary Toitets in the
	MT 8.3.1	Base rear(1994) Future Population by Urban and Rural Arca by Municipality
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Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table, M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

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_	MT 8.2.4	Base Year Service Coverage of Public School Toilets and Chap-8.xls Public Toilets	Chap-8.xls	ST 8.2.4	Number of Public School Students Served by School Toilets in the Base Year (1994)
				ST 8.2.7	Public School Students and Public Utilities Coverage in
					Phase I Provided by Existing Facilities in the Base Year
	MT 8.2.5	Base Year Service Coverage of Municipal Solid Waste	Chap-3.xls	MT 3.6.1	Municipal Solid Waste Collection and Disposal, and
		System in 1994	- - -	- - - - - - - - - - - - - - - - - - -	Service Coverage, 1994
			Chap-8.xls	ST 8.3.5	Projected No. of Households by Urban and Rural Area by Municipality by Target Year
	MT 8.3.1	Future Population by Urban and Rural Area by	Socio.xls	M 1.2.2	Past Population Page 2
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	MT 8.3.2	Projected Public School Enrollment and Number of	Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target
		Public Utility Facilities by Municipality			Year
				ST 8.3.7	Projected No. of Public Utilities by Municipality by Traver Year
	MT 8.5.1	Population to be Served by Target Year(Water Supply)	Chap-8.xls	ST 8.2.2	Population Coverage in Phase I Provided by Served
					Population in the Base Year(Water Supply)
				ST 8.5.2	Population to be Served in Phase I (Water Supply)
				ST 8.5.3	Population to be Served in Phase II (Water Supply)
	MT 8.5.2	Additional Number of Households to be Served by Target Chap-8.xis	Chap-8.xls	ST 8.5.4	Additional Number of Households to be Served in Phase
	•	Year(Household Toilets)			I(Household Toilets)
				ST 8.5.5	Additional Number of Households to be Served in Phase
	MT 8.5.3	Additional Number of Public School Students to he	Chan-8 xls	ST 836	Protected School Fundhment by Municipality by Target
		Served by target Year(School Toilets)			Year
				ST 8.5.6	Additional Number of Public School Students to be
					Served in Phases I and II(School Toilets)
	MT 8.5.4	Additional Number of Public Unlines with Sanitary	Chap-8.xis	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases
		T			I and II
·	MT 8.5.5	Population to be Served by Urban Sewerage in Phase II	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
				MT 8.3.1	Future Population by Urban and Rural Area by
					Municipality

Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table. M - Questionnaire Form (Municipal Data). S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

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M - Questionnaire Form (Municipal Data). S - Questionnaire Form (System Data). F - Questionnaire Form (Facility Data).

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Chapter No. Table Chapter - 8 ST 8.2.3 ST 8.2.4					
	Table No.	Title	Filename	Table/Form Number	Title
ST 8.2		çhe	Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
		Number of Public School Students Served by School	Chap-4.xls	MT 4.2.2	School Toilets Facilities and Service Coverage, 1994
	· : · :		Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target Year
ST 8.2.5		Number of Public Utilities with Sanitary Toilets in the Base Year (1994)	Chap-4.xls	MT 4.2.2 Sheet 2	Public Toilets Facilities and Service Coverage, 1994
ST 8.2.6		age in Phase I Provided by Existing ase Year (Household Toilets)	Socio.xls	M 1.4	Household Number
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				ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year (1994)
				ST 8.3.5	Projected Number of Households by Urban and Rural
					Area by Municipality by Target Year
ST 8.2.7		ities Coverage in	Chap-8.xls	ST 8.2.4	Number of Public School Students Served by School
•	نىتىن	Phase I Provided by Existing Facilities	:		Toilets in the Base Year(1994)
		in the Base Year		C.2.8 1 C	Number of Public Utilities with Sanitary Toilets in the Base Year (1994)
				ST 8.3.6	Projected School Enrollment by Municipality by Target
	••• • ••				Year
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ST 8.3.5		and	Socio.xls	M 1.2.2	Past Population Page 2
		Rural Area by Municipality by Target Year		M 1.3	Projected Population
				M 1.4	Household Number
ST 8.3.6	•	Projected School Enrollment by Municipality by Target Year	Socio.xls	M 1.2.2 M 1.3	Past Population Page 2 Projected Population
ST 8.3.7		Projected Number of Public Utilities by Municipality by	Chap-8.xls	ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the
	-				Base Year (1994)

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Table 2.6.2 Data File Linkages

		Destination Link			Source Link
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	ST 8.5.1	Population to be Served by Level 11 System in Phase I	Socio.xls Chap-8.xls	M 1.1 ST 8.3.5	Administrative Composition Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.5.2	Population to be served in Phase I (Water Supply)	Socio.xls Chap-8.xls	M 1.3 MT 8.2.2 ST 8.5.1	Projected Population Base Year Coverage in Water Supply Population to be Served by Level 11 System in Phase 1
	ST 8.5.3	Population to be Served in Phase II(Water Supply)	Socio.xls Chap-8.xls	M 1.3 ST 8.5.2	Projected Population Population to be Served in Phase I (Water Supply)
	ST 8.5.4	Additional Number of Households to be Served in Phase I(Household Toilets)	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
	• .			ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year (1994)
	, ; ,			ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.5.5	Additional Number of Households to be Served in Phase III (Household Toilets)	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
		· · · · · ·		ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
				ST 8.5.4	Additional Number of Households to be Served in Plaxe 1(Household Toilets)
	ST 8.5.6	Additional Number of Public School Students to be Second in Physics Used IV (School Toilers)	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
				ST 8.2.4	Number of Public School Students Served by School
				ST 8.3.6	Totets in the Base Year(1994) Projected School Enrollment by Municipality by Target
	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases Chap-8.xls	es Chap-8.xls	MT 8.2.1	Year Provincial Sector Targets
				ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the
	• <u> </u>		•••	ST 8.3.7	Projected Number of Public Utilities by Municipality by Target Year
Note: MT - Main Report Table,	Report Table.	MF - Main Report Figure, ST - Supporting Report Table.		مر میں	continue to next page.

Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table. M - Questionnaire Form (Municipal Data). S - Questionnaire Form (System Data). F - Questionnaire Form (Facility Data).

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Table No. Table No. Title Filtenme Table Form	Table No. Table No. Table No. Table No. Table No. Table No.			Destination Link			Source Link
 ST 8.6.1 Urban Water Supply Factifices Required by Target Year Scotox1s M 1.3 ST 8.6.1 Urban Water Supply Facilities Required by Target Year Scotox1s ST 4.1.1 ST 8.6.3 Rural Water Supply Facilities Required by Target Year Chap-8.x/ls ST 8.5.3 ST 8.6.3 Rural Water Supply Facilities Required by Target Year Chap-8.x/ls ST 7.6.2 ST 8.6.4 Urban Household Toiles Required by Target Year Chap-8.x/ls ST 8.5.3 ST 8.6.5 Rural Household Toiles Required by Target Year Chap-8.x/ls ST 8.5.1 ST 8.6.5 Rural Household Toiles Required by Target Year Chap-8.x/ls ST 8.5.2 ST 8.6.5 Public School Toilets Required by Target Year Chap-8.x/ls ST 8.5.1 ST 8.6.5 Public School Toilets Required by Target Year Chap-8.x/ls ST 8.5.1 ST 8.6.7 Public School Toilets Required by Target Year Chap-8.x/ls ST 8.5.7 ST 8.6.7 Public School Toilets Required by Target Year Chap-8.x/ls ST 8.5.7 MT 10.2.1 Unit Cont of Facilities by Municipality Chap-8.x/ls ST 10.3.1 MT 10.3.1. Construction Cost of Required by Target Year ST 2.6.6 MT 10.3.1. Construction Cost of Required by Target Year ST 2.6.6 MT 10.3.1. Construction Cost of Required by Target Year ST 2.6.6 MT 10.3.1. Construction Cost of Required by Target Year ST 2.6.6 MT 10.3.1. Construction Cost of Required brinding Strine Facel Keepart 3.5 ST 10.3.3 	 sr & Sr & & Sr & & I. Urban Water Supply Facilities Required by Target Year Scoro.xis Y 2, 62 Chap-& Xis Sr 2, 62 Chap-& Xis Sr 2, 62 Chap-& Xis Sr 7, 62 Chap-& Xis Sr 7, 62 Sr 8, 63 Sr 8, 63 Sr 8, 64 Wr 8, 41 Sr 8, 63 Sr 8, 64 Wr 8, 41 Sr 8, 64 Wr 8, 41 Sr 8, 65 Sr 8, 64 Wr 8, 41 Sr 8, 65 Sr 8, 64 Wr 8, 41 Sr 8, 65 Sr 8, 65 Mr 8, 41 Sr 8, 65 Sr 8, 65 Sr 8, 66 Public School Toilets Required by Target Year Chap-8, xis Sr 8, 52 Sr 8, 65 Public School Toilets Required by Target Year Chap-8, xis Sr 8, 53 Sr 8, 65 Public School Toilets Required by Target Year Chap-8, xis Sr 8, 53 Sr 8, 65 Public School Toilets Required by Target Year Chap-8, xis Sr 8, 53 Sr 8, 65 Sr 8, 65 Sr 8, 66 Public School Toilets Required by Target Year Chap-8, xis Sr 8, 53 Sr 8, 56 Sr 8, 57 Sr 10, 33 Sr 10, 34 Mr 10, 31 Construction Cost of Required by Target Year Chap-8, xis Sr 10, 33 Sr 10, 34 Mr 10, 31 Construction Cost of Required by Target Year Chap-8, xis Sr 10, 33 Sr 10, 34 Mr 10, 31 Construction Cost of Required by Target Year Chap-8, xis Sr 10, 33 Sr 10, 34 Mr 10, 31 Construction Cost of Required Bacilities by Municipality Chap-10, kis Sr 10, 34 Mr 10, 34 Mr 10, 34 Mr 10, 34 Sr 10, 34 Mr 10, 34 Sr 10, 34 	Chapter No.	Table No.		Filename	Table/Form Number	
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ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.5 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Target Year Chap-8.xls ST 8.5.7 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1 ST 10.3.1 ST 10.3.2 ST 10.3.2 ST 10.3.3	ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xis MT 8.5.2 ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xis MT 8.5.2 ST 8.6.5 Public School Toilets Required by Target Year Chap-8.xis ST 8.5.6 ST 8.6.5 Public School Toilets Required by Target Year Chap-8.xis ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xis ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xis ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xis ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Municipality Chap-10.xis ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xis ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xis ST 10.3.3 MT 10.3.4 MT 10.3.4 ST 10.3.3 ST 10.3.3 MT - Main Report Table. MF - Main Report Figure. ST 10.3.3 ST 10.3.3 M - Ouestionnaire Form (Municipal Data). S - Ouestionnaire Form (System Data). S - Ouestionnaire Form (System Data). S - Ouestionnaire Form (Facility Syste		-			ST 8.5.1	Population to be Served by Level II System in Phase I
ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.6 MT 10.2.1 Unit Cost of Facilities by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Wunicipality Chap-10.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Struction Cost of Required Facilities by Municipality Str 10.3.3 Str 10.3.3	ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 ST 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 4 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 20.3.1 MT 20.3 ST 10.3.3 ST 10.3.3 MT 20.4 MT 20.4 St 20.5 ST 10.3.3		ST 8.6.4		Chap-8.xls	MT 8.5.2	Additional Number of Households to be Served by Target
ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality ST 10.3.2 ST 10.3.3 ST 10.3.1 ST 10.3.3 ST 10.3.3	ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Target Year Chap-8.xls ST 8.5.7 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 20.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 20.3.1 MT 20.3.1 ST 10.3.3 ST 10.3.3 ST 10.3.3 MT 20.4 MT 20.4 ST 20.4 ST 10.3.3 ST 10.3.3 M 20.4 MT 20.4 ST 20.3.3 ST 10.3.3 ST 10.3.3				 		Year(Household Toilets)
ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.6 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 ST 10.3.3 ST 10.3.3 ST 10.3.3	ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.7 ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 sr 10 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypur.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-8.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.3 MT 20.3.1 MT 10.3.1 St 10.3.3 ST 10.3.3 MT 20.3.1 MT 20.3.1 ST 10.3.3 ST 10.3.3 MT 20.3.1 MT 20.3.1 ST 10.3.3 ST 10.3.3 MT 20.3.1 MT 20.3.1 ST 10.3.3 ST 10.3.3		ST 8.6.5	Rural Household Toilets Required by Target Year	Chap-8.xls	MT 8.5.2	Additional Number of Households to be Served by Target Year(Household Toilers)
ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 ST 10.3.3 ST 10.3.3 ST 10.3.3 ST 10.3.3	ST 8.6.7 Public Toilets Required by Target Year Chap-8.xis ST 8.5.7 er - 10 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xis ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xis ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xis ST 10.3.2 MT 10.4.1 NT 10.3.4 Construction Cost of Required Facilities by Municipality ST 10.3.2 MT 2004 MT 10.3.4 Construction Cost of Required Facilities by Municipality ST 10.3.3 MT 4004 MT 4004 ST 10.3.3 ST 10.3.3 M 7 - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table, ST 10.3.3		ST 8.6.6	Public School Toilets Required by Target Year	Chap-8.xls	ST 8.5.6	Additional Number of Public School Student to be Served
ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality ST 10.3.1 ST 10.3.2 ST 10.3.3 ST 10.3.3 ST 10.3.3	ST 8.6.7 Public Toilets Required by Target Year Chap-8.xls ST 8.5.7 er-10 MT 10.2.1 Unit Cost of Facilities by Municipality Keypar.xls ST 26.6 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.2 MT - Main Report Figure. ST - Supporting Report Table. M - Ouestionnaire Form (Municipal Data). S - Ouestionnaire Form (Facility Chap-10.3.1)						in Phase I and Phase II (School Toilets)
MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar xis ST 2.6.6 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1 ST 10.3.2 ST 10.3.3 ST 10.3.3 ST 10.3.3	rr - 10 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xis ST 26.6 MT 10.3.1 Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1		ST 8.6.7	Public Toilets Required by Target Year	Chap-8.xls	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases 1 and 11
Construction Cost of Required Facilities by Municipality Chap-10.xls ST 10.3.1 ST 10.3.2 ST 10.3.3 ST 10.3.3 ST 10.3.4	MT 10.3.1 Construction Cost of Required Facilities by Municipality ST 10.3.1 ST 10.3.2 ST 10.3.2 ST 10.3.3 ST 10.3.3 MT - Main Report Figure, ST - Supporting Report Table, ST 10.3.3 MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table, S- Ouestionnaire Form (Eactling	Chupter - 10	MT 10.2.1	Facilities by Type and Service Level	Keypar.xls	ST 2.6.6	Unit Construction Cost of Different Facilities
	MT - Main Report Table, ST 10.3.2 MT - Main Report Table, MF - Main Report Figure, M - Ouestionnaire Form (Municipal Data), S - Ouestionnaire Form (Pacific		MT 10.3.1	of Required Facilities by Municipality	Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for
	ST 10.3.3 ST 10.3.3 MT - Main Report Table, MT - Main Report Figure, ST - Supporting Report Table, M - Ouestionnaire Form (Municipal Data), S - Ouestionnaire Form (Eacility				•	ST 10.3.2	Phase I (2000) Constituction from of Water Sundy Earlities Required for
	MT - Main Report Table, MF - Main Report Figure, ST 10.3.3 M - Ouestionnaire Form (Municipal Data), S - Supporting Report Table,		3				Phase II (2010)
	MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table, M - Ouestionnaire Form (Municipal Data), S - Ouestionnaire Form (Eacility					ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)
	MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table, M - Ouestionnaire Form (Municipal Data), S - Ouestionnaire Form (System Data), F - Ouestionnaire Form (Facility Data)					ST 10.3.4	Costs of Sanitation Facilities Required for Phase 11 (2010)

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		Destination Link				Source Link
Chapter No.	Table No.	Titic		Filename	Table/Form Number	Title
Chapter - 10	MT 10.4.1	Recurrent Cost		Keypar.xls Chap-8.xls I		Key Parameter Table Base Year Coverage in Water Supply Base Year Service Coverage of Public School Toilets and
			· · · · · · · · · · · · · · · · · · ·		ST 8.3.5	Public Toilets Projected Number of Households by Urban and Rural
				· · · · · · · · · · · · · · · · · · ·	MT 8.5.1	Area by Municipality by Larget Fear Population to be Served by Target Year(Water Supply)
					ST 8.6.6 ST 8.6.7	Public School Toilets Required by Target Year Public Toilets Required by Target Year
				Chap-11.xls	ST 11.3.1	Percentages for Annual Investments
	ST 10.3.1	Construction Cost of Water Su Phase 1 (2000)	ater Supply Facilities Required for Chap-8.xis		MT 8.5.1	Population to be Served by Target Year(Water Supply)
					MT 8.6.1 ST 8.6.3	Water Supply Facilities Required by Target Year Number of Carbage Collection Trucks Required in Phase
				Chap-10.xls	MT 10.2.1	l Unit Cost of Facilities by Type and Service Level
	ST 10.3.2	Water S	upply Facilities Required for		ST 2.6.2	Kcy Parameter Table
	-	Frase 11 (2010)		Chap-S.xIs	MT 8.5.1	Population to be Served by Target Year(Water Supply)
		· · · · · · · · · · · · · · · · · · ·		• • •	ST 8.6.3	Number of Carbage Collection Trucks Required in Phase
				Chap-10.xls	MT 10.2.1	I Unit Cost of Facilities by Type and Service Level
	ST 10.3.3	Cost of Sanitation Facilities B	ities Required for Phase 1 (2000)	Chap-8.xls	MT 8.6.2	Sanitation Facilities Required by Target Year
					ST 8.6.7 MT 10.2 1	Public Toilets Required by Target Year Unit Cost of Eacilities by Type and Service Level
	ST 10.3.4	Cost of Sanitation Facilities I	Cost of Sanitation Facilities Required for Phase II (2010)	Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by
		. <u>.</u>			MT 8.5.5	Municipality Population to be Served by Urban Sewerage in Phase II
	:	-		· · ·	MT 8.6.2	Sanitation Facilities Required by Target Year

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Table 2.6.2 Data File Linkages

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		Destination Link			Source Link
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 10	ST 10.3.4	Cost of Sanitation Facilities Required for Phase II (2010)	Chap-8.xis	ST 8.6.6 ST 8.6.5	Public School Tollets Required by Target Year Public Toilars Semirad by Target Vers
			Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level
Chapter - 11	MT 11.2.1	Projected Internal Revenue Allotment for Medium-	Socio.xls	M 1.1	Administrative Composition
		Term Sector Development	Keypar.xls	ST 2.6.2	Key Parameter Table
			Chap-6.xls	MT 6.2.2	Past Internal Revenue Allotment to the Province from
					Central Government
	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by	Chap-11.xls	MT 11.2.1	Projected Internal Revenue Allotment for Medium - Term
					Sector Development
	MT 11.3.1	Financing Requirements by Sector Component for the	Chap-10.xls	ST 10.3.2	Construction of Water Supply Facilities Required for
			Chap-11 xis	ST 113.1	Phase II (2010) Percentage for Annual Investments
	MT 11.3.2	Additional Fund Requirement for the Medium-Term Plan Chap-11.xls	Chap-11.xls	MT 113.1	Financing Requirements by Sector Component for the
			•		Province
	MT 11.3.3	Internal Revenue Allotment for Water Supply and	Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required
		Sanitation Sector by Municipality (Medium-Term Development /1996-2000)			for Phase I (2000)
			:	ST 10.3.3	Cost of Sanitation Facilities Required for Phase 1 (2000)
	_ ,		Chap-11.xls	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by Commonent 1906 - 2000
	-			MT 113.1	Financing Requirements by Sector Commonent for the
				<u>-</u>	Province
	-			MT 11.4.2	Distribution of Provincial IRA to Municipalities for
<u></u>					Urban Water Supply
	MT 11.4.1	Municipal investment need Ranking for Urban Water	Keypar.xls	ST 2.6.7	Scoring Factor for Municipal Investment Ranking for
		Supply	· · · · ·		Urban Water Supply
			Chap-8.xls	ST 8.2.2	Number of Households Served by Sanitary Toilets in the
			-	MT 8 7 7	Base Y car (1994)
	MT 11.4.2	Distribution of Provincial IRA to Municipalities for	Chap-11 xls	MT 11.2.2	Protect Allotment of IRA to the Perioton' Series hu
		Urban Water Supply	•		Component 1996 - 2000
Note: MT - Main Report Table,	eport Table,	MF - Main Report Figure, ST - Supporting Report Table,	-		Continue to next pare

M - Questionnaire Form (Municipal Data). S - Questionnaire Form (System Data). F - Questionnaire Form (Facility Data).

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Data File Linkages Table 2.6.2

		Destination Link		· .	Source Link
Chapter No.	Table No.		Filename	Table/Form Number	Title
Chonter-11	MT 11.4.2	Distribution of Provincial IRA to Municipalitues for	Chap-4.xls	MT 11.3.1	Financing Requirement by Sector Component for the
		Urban Water Supply		MT 11.4.1	Province Municipal Investment need Ranking for Urban Water
			Chap-10.xls	ST 10.3.1	Supply Construction Cost of Water Supply Facilities Required for
				ST 10.3.3	Phase 1 (2000) Cost of Sanitation Facilities Required for Phase 1 (2000)
	MT 11.4.3	Municipal Investments Need Ranking	Chap-11.xls	ST 11.4.1	Comprehesive Investment need Ranking of Municipalities
	ST 11.3.1	Percentages for Annual Investments	Keypar.xls	ST 2.6.4	Annual Distribution of Investment Cost Required by Sub- Sector for Medium-Term Development Plan
	1'T'11 LS	Comprehesive Investment need Ranking of Municipalities Keypar Als	k Keypar.xls	ST 2.6.8	Scoring Factor for Municpal Comprehensive Investment
			Chap-8.xis	ST 8.2.2	kanking Population Coverage in Phase I Provided by Served Population in the Base Year (Water Supply)
			Chap-11.xls	MT 8.2.3 MT 11.4.1	Base Year Service Coverage of Household Toilets Municipal Investment need Ranking for Urban Water
	-		- - -		Supply

M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

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8. UPDATING PW4SP DATA BASE

The following procedures are guide in updating the base data of the PW4SP data management system. The word *column* and *row* in this procedure mean the internal column and row notation in the worksheet environment.

8.1. Updating Socio-economic Data Base

- 1. Click the File menu, select Open.
 - Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the socio.xls filename.
- 3.1 To update the Administrative Composition Data,

click the tab of (M) Area and Population sheet.

- **NEDA geopgraphic code:** move mouse pointer to column A. Starting at the row below the column description, select the data you would like to update and type the new value.
- Municipal Name: move mouse pointer to column B. Starting at the row below the column description, in reference to column A (NEDA geographic code) select the data you would like to update and type the new value.
- City: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

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- Municipal: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Class: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Urban Barangay: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Barangay: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.2 To update the Past Population Data,

click the tab of (M) Past Population Page 1 sheet.

- 1903: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 1918: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- 1939: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 1948: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 1960: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 1970: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 1975: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of (M) Past Population Page 2 sheet.

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- Urban Population (1980): move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Population (1980): move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Urban Population (1990): move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Population (1990): move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Urban Population (1994): move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Population (1994): move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.3 To update the Population Projection Data, click the tab of (M) Project Population sheet.

- Urban Population (2000): move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Population (2000): move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

• Urban Population (2010): move mouse pointer to column S. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

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• Rural Population (2010): move mouse pointer to column U. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.4 To update the Household Data,

click the tab of (M) Household sheet.

- Urban Household (1980): move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Household (1980): move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Urban Household (1990): move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Household (1990): move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Urban Household (1994): move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Rural Household (1994): move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.5 To update the Services Data,

click the tab of (M) Services sheet.

- Number of Public Elementary School: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Private Elementary School: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Public High School: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Private High School: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Colleges: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- Number of Hospitals: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Markets: move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Banks: move mouse pointer to column O. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.6 To update the Occupation Data,

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click the tab of (M) Occupation sheet.

- Number of Professional, Technical and Related Workers: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Administrative, Executive and Managerial: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Sales Workers: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Service Workers: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Agricultural, Animal Husbandry & Forestry Workers, Fisherman and Hunetrs, move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Production & Related Workers, Transportation Equipment Operators and Laborers: move mouse pointer to column 1. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Occupation Not Adequately Defined or Reported: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 3.7 To update the Family Income, Education and Literacy Data, click the tab of (M) Family Income and Education sheet.
 - Number of Family Receiving Under # 13,999: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
 - Number of Family Receiving Between P 15,000 to P 29,999: move mouse pointer to column E. Starting at the row below the column description, in reference to

column B (name of municipality) select the data you would like to update and type the new value.

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- Number of Family Receiving Between P 30,000 to P 39,999: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Family Receiving Between P 40,000 to P 59,999: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Family Receiving over P 60,000: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Population that Finish Pre-School: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Population that Finish Elementary School: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Population that Finish High School: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Population that Finish College and Post Graduate, move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Literate Population: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Illiterate Population: move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.2. Updating Land Use Data Base

1. Click the File menu, select Open.

- Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the landuse.xls filename.
- 3.1 To update the Existing Land Use Data,

click the tab of (M) Existing Land Use sheet.

• Forest Land Area: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- Grass Land Area: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Built-up Land Area: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Agricultural Land Area: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Mangrove, Fishponds, In-land Area: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Open Land Area: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- 3.2 To update the Future Land Use Data, click the tab of (M) Future Land Use sheet.

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- Forest Land Area: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Grass Land Area: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Built-up Land Area: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
 - Agricultural Land Area: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Mangrove, Fishponds, In-land Area: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Open Land Area: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.3. Updating Health Data Base

- I. Click the File menu, select Open. Short-cut: Click the Open button.
- 2. From the Open Dialog Box, Select the health xls filename.
- 3.1 To update the Morbidity, Mortality and Infant Mortality Data, click the tab of (M) Morbidity and Mortality sheet.

- Number of Morbidity Case: move mouse pointer to column E. Starting at the row below the column description, in reference to column C (name of diseases) select the data you would like to update and type the new value.
- Number of Mortality Case: move mouse pointer to column F. Starting at the row below the column description, in reference to column C (name of diseases) select the data you would like to update and type the new value.
- Number of Infant Mortality Case: move mouse pointer to column G. Starting at the row below the column description, in reference to column C (name of diseases) select the data you would like to update and type the new value.

3.2 To update the Facility and Practitioner Data

click the tab of (M) Facility and Practitioner sheet.

- Number of Hospital Facility: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Rural Health Unit (RHU): move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Barangay Health Station (BHS): move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Practicing Doctors: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Practicing Nurses: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Practicing Midwives: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Practicing Dentists: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.4. Updating Water Resources Data Base

1. Click the File menu, select Open.

- Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the h2o-res.xls filename.
- 3. To update the General Information Data,

click the tab of (M) General Information sheet.

• Number of Shallow (General Information): move mouse pointer to column E/H. Starting at the row below the column description, in reference to column C (description of information) select the data you would like to update and type the new value.

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- Number of Deep Well (General Information): move mouse pointer to column F/I. Starting at the row below the column description, in reference to column C (description of information) select the data you would like to update and type the new value.
- Number of spring (General Information): move mouse pointer to column G/J. Starting at the row below the column description, in reference to column C (description of information) select the data you would like to update and type the new value.
- Note: To add succeeding municipality. Copy (M) General Information sheet and erase the default data and type the new data following the aforementioned procedures.

8.5. Updating Water Supply Data Base

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- 1. Click the File menu, select Open.
- Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the h2osupp.xls filename.
- 3.1 To update the Level III System Data,
 - click the tab of (S) Level III P1-4 sheet.
 - Data: move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of (S) Level III P2-4 sheet.

• Data: move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of (S) Level III P3-4 sheet.

• Data: move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of (S) Level III P4-4 sheet.

- Data: move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.
- 3.2 To update the Level II System Data, click the tab of (S) Level II P1-2 sheet.
 - Data: move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

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click the tab of (S) Level II P2-2 sheet.

• Data: move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

3.3 To update the Level I Facility Data, click the tab of (F) Level I sheet.

Public Facility:

- Deep Well; move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Shallow Well: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Covered/Improved Dug Well: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Open Dug Well: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Developed Spring: move mouse pointer to column 1. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Undeveloped Spring: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

Private Facility:

- Deep Well: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Shallow Well: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Covered/Improved Dug Well: move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Open Dug Well: move mouse pointer to column O. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

• Rain Collector: move mouse pointer to column P. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.6. Updating Environmental Sanitation Data base

1. Click the File menu, select Open.

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- Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the sanit.xls filename.

3.1 To update the Household Toilet Data,

click the tab of (M) Household Toilets sheet.

- Number of Urban Households Using Water Sealed Flush Toilet: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Rural Households Using Water Sealed Flush Toilet: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Urban Households Using Water Sealed Pour Flush Toilet: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Rural Households Using Water Sealed Pour Flush Toilet: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Urban Households Using VIP Latrine Toilet: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Rural Households Using VIP Latrine Toilet: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Urban Households Using Unsanitary Toilet: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Rural Households Using Unsanitary Toilet: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Urban Households Without Toilet: move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

• Number of Rural Households Without Toilet: move mouse pointer to column O. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

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click the tab of (M) School Toilets sheet.

- Number of Public School: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Private School: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Student in Public School: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Student in Private School: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Sanitary Toilets in Public School: move mouse pointer to column I.
 Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Sanitary Toilets in Private School: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Unsanitary Toilets in Public School: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Unsanitary Toilets in Private School: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of (M) Public Toilets sheet.

- Number of Public Markets: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Sanitary Toilets in Public Markets: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Unsanitary Toilets in Public Markets: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Jeepney/Bus Terminals: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- Number of Sanitary Toilets in Jeepney/Bus Terminal: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Unsanitary Toilets in Jeepney/Bus Terminal: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Parks/Playground: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Sanitary Toilets in Parks/Playground: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Unsanitary Toilets in Parks/Playground: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of (M) Drainage Facility sheet.

- Length of Drainage Main: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Length of Open Channel (with concrete and masonry): move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Length of Open Ditches And Unlined Laterals: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Length of Reinforced Concrete Circular Pipes: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Length of Street Gutters: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Length of Outfalls To Rivers From Drainage Mains: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of (M) Solid Waste sheet.

• Number of Open Dump Trucks: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- Number of Closed Type Trucks: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Households Served By Open Dump Site: move mouse pointer to column
 F. Starting at the row below the column description, in reference to column B (name
 of municipality) select the data you would like to update and type the new value.
- Number of Households Served By Sanitary Landfill: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Households Depending on Dumping on Land or Water: move mouse pointer to column H. Starting at the row below the column description; in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Households Depending on Burying: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.
- Number of Households Depending on Composting: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.7. Updating Investment Data Base

1. Click the File menu, select Open.

- Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the invest.xls filename.
- 3.1 To update the Past Investment Data,

click the tab of (P) Past Invest sheet.

- Shallow Well: move mouse pointer to column C. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Deep Well: move mouse pointer to column D. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Spring Development: move mouse pointer to column E. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Well Rehabilitation: move mouse pointer to column F. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Rain Collector: move mouse pointer to column G. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Level II System: move mouse pointer to column H. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- Level III System: move mouse pointer to column I. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Sewer System: move mouse pointer to column J. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Private Latrines: move mouse pointer to column K. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- School Toilets: move mouse pointer to column L. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.
- Public Toilets: move mouse pointer to column M. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

3.2 To update the Planned Future Investment Data click the tab of (P) Future Invest sheet.

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- **Project Name:** move mouse pointer to column A. Starting at the row below the column description, type the project identification.
- Type of Project: move mouse pointer to column B. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Phase of Project: move mouse pointer to column C. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Project Location: move mouse pointer to column D. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Implementing Agency: move mouse pointer to column E. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Start Date of Project: move mouse pointer to column F. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Completion Date of the Project: move mouse pointer to column G. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Accomplishment Status (%): move mouse pointer to column H. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Number of Household Covered by the Project: move mouse pointer to column I. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Finance Agency: move mouse pointer to column J. Starting at the row below the column description, in reference to column A (name of project) type the new value.

• Cost of Level I Facility (Thousand of pesos): move mouse pointer to column K. Starting at the row below the column description, in reference to column A (name of project) type the new value.

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- Cost of Level II System (Thousand of pesos): move mouse pointer to column L. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Cost of Level III System (Thousand of pesos): move mouse pointer to column M. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Cost of Sewer System (Thousand of pesos): move mouse pointer to column N. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Private Latrine (Thousand of pesos): move mouse pointer to column O. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Cost School Toilets (Thousand of pesos): move mouse pointer to column P. Starting at the row below the column description, in reference to column A (name of project) type the new value.
- Cost of Public Toilets (Thousand of pesos): move mouse pointer to column Q. Starting at the row below the column description, in reference to column A (name of project) type the new value.

8.8. Updating Key Parameter Data Base

- 1. Click the File menu, select Open. Short-cut: Click the Open button.
- 2. From the Open Dialog Box. Select the keypar.xls filename.
- 3. To update the Key Parameter Data, click the tab of STable 2.6.2 sheet.

Water Supply:

- Number of Household to be Served by Level I Facility: move mouse pointer to column H-Row 5. Type the new value.
- Water Consumption Rate for Level III System: move mouse pointer to column H-Row 6. Type the new value.

Sanitation:

- Standard Number of Student to be Served by a Unit of Sanitary Toilet: move mouse pointer to column H-Row 8. Type the new value.
- Standard Number of Toilets for Public Facility: move mouse pointer to column H-Row 9. Type the new value.

Medium-term Plan:

- Percentage of Population Covered by Urban Water Supply: move mouse pointer to column H-Row 11. Type the new value.
- Percentage of Population Covered by Rural Water Supply: move mouse pointer to column H-Row 12. Type the new value.

- Percentage of Population Covered by Sanitary Toilet: move mouse pointer to column H-Row 14. Type the new value.
- Percentage of Urban Household Covered by Flush Toilet: move mouse pointer to column H-Row 16. Type the new value.
- Percentage of Urban Household Covered by Pour Flush Toilet: move mouse pointer to column H-Row 17. Type the new value.
- Percentage of Urban Household Covered by VIP Latrine: move mouse pointer to column H-Row 18. Type the new value.
- Percentage of Rural Household Covered by Flush Toilet: move mouse pointer to column H-Row 20. Type the new value.
- Percentage of Rural Household Covered by Pour Flush Toilet: move mouse pointer to column H-Row 21. Type the new value.
- Percentage of Rural Household Covered by VIP Latrine: move mouse pointer to column H-Row 22. Type the new value.
- Percentage of Public Student Covered by School Toilet: move mouse pointer to column H-Row 23. Type the new value.
- Percentage of Public Utility Covered by Public Toilet: move mouse pointer to column H-Row 24. Type the new value.
- Percentage of Population Covered by Solid Waste Collection: move mouse pointer to column H-Row 25. Type the new value.

Long-term Plan:

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- Percentage of Population Covered by Urban Water Supply: move mouse pointer to column H-Row 27. Type the new value.
- Percentage of Population Covered by Rural Water Supply: move mouse pointer to column H-Row 28. Type the new value.
- Percentage of Population Covered by Sanitary Toilet: move mouse pointer to column H-Row 30. Type the new value.
- Percentage of Urban Household Covered by Flush Toilet: move mouse pointer to column H-Row 32. Type the new value.
- Percentage of Urban Household Covered by Pour Flush Toilet: move mouse pointer to column H-Row 33. Type the new value.
- Percentage of Urban Household Covered by VIP Latrine: move mouse pointer to column H-Row 34. Type the new value.
- Percentage of Rural Household Covered by Flush Toilet: move mouse pointer to column H-Row 36. Type the new value.
- Percentage of Rural Household Covered by Pour Flush Toilet: move mouse pointer to column H-Row 37. Type the new value.
- Percentage of Rural Household Covered by VIP Latrine: move mouse pointer to column H-Row 38. Type the new value.
- Percentage of Public Student Covered by School Toilet: move mouse pointer to column H-Row 39. Type the new value.

- Percentage of Public Utility Covered by Public Toilet: move mouse pointer to column H-Row 40. Type the new value.
- Percentage of Population Covered by Urban Sewerage: move mouse pointer to column H-Row 41. Type the new value.

Rehabilitation:

• Percentage of Level I Wells for Rehabilitation: move mouse pointer to column H-Row 42. Type the new value.

Sector Management Cost:

- Percentage of Feasibility and Detail Design: move mouse pointer to column H-Row 44. Type the new value.
- Percentage of Construction Supervision: move mouse pointer to column H-Row 45. Type the new value.

Contingencies:

- Percentage of Physical Contingency: move mouse pointer to column H-Row 47. Type the new value.
- *Percentage of Price Contingency:* move mouse pointer to column H-Row 48. Type the new value.

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Community Development and Training Cost:

- Percentage for Level III System: move mouse pointer to column H-Row 50. Type the new value.
- Percentage for Level I Facility and Level 11 System: move mouse pointer to column H-Row 51. Type the new value.

Recurrent Cost:

- Operating Cost for Level III System: move mouse pointer to column H-Row 52. Type the new value.
- Cost of Spare Parts/Equipment for Level III System: move mouse pointer to column H-Row 53. Type the new value.
- Cost of Spare Parts/Equipment for Level II System: move mouse pointer to column H-Row 54. Type the new value.
- Cost of Spare Parts/Equipment for Level 1 Facility: move mouse pointer to column H-Row 55. Type the new value.
- Public School Toilet Maintenance Cost: move mouse pointer to column H-Row 56. Type the new value.
- Public Utility Toilet Maintenance Cost: move mouse pointer to column H-Row 57. Type the new value.

Allocation Factors/Percentages of IRA:

- Percentage Share from Provincial IRA: move mouse pointer to column H-Row 59. Type the new value.
- Percentage Share from Municipal/Barangay IRA: move mouse pointer to column H-Row 60. Type the new value.

Funding Levels/Percentages for Different Financing Scenarios:

- Ist Scenario: move mouse pointer to column H-Row 62. Type the new value.
- 2nd Scenario: move mouse pointer to column H-Row 63. Type the new value.
- 3rd Scenario: move mouse pointer to column H-Row 64. Type the new value.
- 4th Scenario: move mouse pointer to column H-Row 65. Type the new value.
- 5th Scenario: move mouse pointer to column H-Row 66. Type the new value.

click the tab of STable 2.6.3 sheet:

- Percentage Proportion of Water Source: move mouse pointer to column D. Starting at the row below the column description, in reference to column A (name of municipality), column B (type of area), column C (type of source) select the data you would like to update and type the new value.
- Range Depth of Well: move mouse pointer to column E. Starting at the row below the column description, in reference to column A (name of municipality), column B (type of area), column C (type of source) select the data you would like to update and type the new value.
- Average Specific Capacity: move mouse pointer to column F. Starting at the row below the column description, in reference to column A (name of municipality), column B (type of area), column C (type of source) select the data you would like to update and type the new value.

click the tab of STable 2.6.5 sheet.

• Unsafe Percentage: move mouse pointer to column C. Starting at the row below the column description, in reference to column A (name of municipality) select the data you would like to update and type the new value.

click the tab of STable 2.6.6 sheet.

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- Unit Construction Cost for New Level III System for 5,000 population: move mouse pointer to column B-Row 7. Type the new value.
- Unit Construction Cost for New Level III System for 10,000 population: move mouse pointer to column B-Row 8. Type the new value.
- Unit Construction Cost for New Level III System for 15,000 population: move mouse pointer to column B-Row 9. Type the new value.
- Unit Construction Cost for Level III System Expansion for 5,000 population: move mouse pointer to column B-Row 11. Type the new value.

- Unit Construction Cost for Level III System Expansion for 10,000 population: move mouse pointer to column B-Row 12. Type the new value.
- Unit Construction Cost for Level III System Expansion for 15,000 population: move mouse pointer to column B-Row 13. Type the new value.
- Unit Construction Cost for Level II System: move mouse pointer to column B-Row 14. Type the new value.
- Unit Construction Cost for Level I Facility (Deep Eell 40 meter depth): move mouse pointer to column B-Row 16. Type the new value.
- Unit Construction Cost for Level I Facility (Deep Well 80 meter depth): move mouse pointer to column B-Row 17. Type the new value.
- Unit Construction Cost for Level I Facility (Deep Well 120 meter depth): move mouse pointer to column B-Row 18. Type the new value.
- Unit Construction Cost for Level I Facility (Shallow Well): move mouse pointer to column B-Row 19. Type the new value.
- Unit Construction Cost for Rehabilitation of Level I Facility: move mouse pointer to column B-Row 20. Type the new value.
- Cost for Disinfection of Level I Wells: move mouse pointer to column B-Row 21. Type the new value.
- Unit Construction Cost for Flush Toilet: move mouse pointer to column B-Row 22. Type the new value.
- Unit Construction Cost for Pour Flush Toilet: move mouse pointer to column B-Row 23. Type the new value.

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- Unit Construction Cost for VIP Latrine Toilet: move mouse pointer to column B-Row 24. Type the new value.
- Unit Construction Cost for School Toilet: move mouse pointer to column B-Row 25. Type the new value.
- Unit Construction Cost for Public Toilet: move mouse pointer to column B-Row 26. Type the new value.
- Unit Construction Cost for Urban Sewerage: move mouse pointer to column B-Row 27. Type the new value.

click the tab of STable 2.6.4 sheet.

Urban Water Supply (Level III System):

- Feasibility Study and Detail Design: move mouse pointer to Row 6. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Construction and Supervision: move mouse pointer to Row 7. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Community Development and Training: move mouse pointer to Row 8. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

Rural Water Supply (Level I Facility):

- Detail Design: move mouse pointer to Row 10. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Construction and Supervision: move mouse pointer to Row 11. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Community Development and Training: move mouse pointer to Row 12. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

Rural Water Supply (Level II System):

- Detail Design: move mouse pointer to Row 14. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Construction and Supervision: move mouse pointer to Row 15. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Community Development and Training: move mouse pointer to Row 16. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

Sanitation:

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- Urban Household Toilet: move mouse pointer to Row 17. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Rural Household Toilet: move mouse pointer to Row 18. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Public School Toilet: move mouse pointer to Row 19. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Public Toilet: move mouse pointer to Row 20. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Disinfection of Level I Wells: move mouse pointer to Row 21. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Detail Design: move mouse pointer to Row 22. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.
- Construction and Supervision: move mouse pointer to Row 23. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

• Community Development and Training: move mouse pointer to Row 24. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

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click the tab of STable 2.6.7 & 2.6.8 sheet.

Scoring Factor for Municipal Investment Ranking for Urban Water Supply:

- Minimum Percentage of Underserved and Unserved Population in Base Year: move mouse pointer to column B, in reference to column A (score) select the data you would like to update and type the new value.
- Maximum Percentage of Underserved and Unserved Population in Base Year: move mouse pointer to column D, in reference to column A (score) select the data you would like to update and type the new value.
- Weight Allocation Score for Underserved and Unserved Population in Base Year; move mouse pointer to column C-Row 9. Type the new value.
- Minimum Percentage of Underserved and Unserved Population in Phase I: move mouse pointer to column E, in reference to column A (score) select the data you would like to update and type the new value.
- Maximu Percentage of Underserved and Unserved Population in Phase I: move mouse pointer to column G, in reference to column A (score) select the data you would like to update and type the new value.
- Weight allocation Score for Underserved and Unserved Population in Phase I: move mouse pointer to column F-Row 9. Type the new value.
- Minimun Percentage of Underserved and Unserved by Level III System in the Base Year: move mouse pointer to column H, in reference to column A (score) select the data you would like to update and type the new value.
- Maximum Percentage of of Underserved and Unserved by Level III System in the Base Year: move mouse pointer to column J, in reference to column A (score) select the data you would like to update and type the new value.
- Weight Allocation Score for Underserved and Unserved by Level III System in the Base Year: move mouse pointer to column I-Row 9. Type the new value.

Scoring Factor for Municipal Comprehensive Investment Ranking:

- Minimum Percentage of Rural Water Supply: move mouse pointer to column E, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.
- Maximum Percentage of Rural Water Supply: move mouse pointer to column G, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.
- Weight Allocation Score for Rural Water Supply: move mouse pointer to column F-Row 20. Type the new value.
- Minimum Percentage of Urban Sanitation: move mouse pointer to column H, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- Maximum Percentage of Urban Sanitation: move mouse pointer to column J, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.
- Weight Allocation Score for Urban Sanitation: move mouse pointer to column I-Row 20. Type the new value.
- Minimum Percentage of Rural Sanitation: move mouse pointer to column K, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.
- Maximum Percentage of Rural Sanitation: move mouse pointer to column M, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.
- Weight Allocation Score for Rural Sanitation: move mouse pointer to column L-Row 20. Type the new value.

8.9. Updating Unit Construction Cost Data Base

8.9.1. Water Supply

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- 1. Click the <u>File</u> menu, select <u>Open</u>. Short-cut: Click the Open button
- 2. From the Open Dialog Box. Select the chap-10.xls filename.
- 3.1. To update the Unit Cost for Level III (5,000 population),

elick the tab of STable 10.2.7 sheet.

- Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.2. To update the Unit Cost for Level III (10,000 population).

click the tab of STable 10.2.8 sheet.

- Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- 3.3. To update the Unit Cost for Level III (15,000 population), click the tab of STable 10.2.9 sheet.
 - Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

• Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.4.To update the Unit Cost for Level II (600 population), click the tab of *STable 10.2.6* sheet.

- Lump Cost of Spring Box: move mouse pointer to column G-Row-4. Type the new value.
- Quantity of Installation of Pipelines and Fittings: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- Unit Cost of Installation of Pipelines and Fittings: move mouse pointer to column
 F. Starting at the row below the column description, in reference to column B (item
 description) select the data you would like to update and type the new value.
- 3.5.To update the Unit Cost for Level I (Deep Well 40 m depth), click the tab of STable 10.2.1 sheet.
 - Lump Sum Cost of Mobilization/Demobilization: move mouse pointer to column F-Row-4. Type the new value.
 - Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
 - Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.6.To update the Unit Cost for Level I (Deep Well - 80 m depth), click the tab of *STable 10.2.2* sheet.

- Lump Sum Cost of Mobilization/Demobilization: move mouse pointer to column F-Row-4, Type the new value.
- Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.7.To update the Unit Cost for Level I (Deep Well - 120 m depth), click the tab of *STable 10.2.3* sheet.

- Lump Sum Cost of Mobilization/Demobilization: move mouse pointer to column F-Row-4. Type the new value.
- Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

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• Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.8. To update the Unit Cost for Level I (Deep Well Rehabilitation), click the tab of STable 10.2.4 sheet.

- Lump Sum Cost of Mobilization/Demobilization: move mouse pointer to column F-Row-4. Type the new value.
- Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.9. To update the Unit Cost for Level I (Shallow Well - 18 m depth), click the tab of *STable 10.2.5* sheet.

- Lump Sum Cost of Mobilization/Demobilization: move mouse pointer to column F-Row-4. Type the new value.
- Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- 8.9.2. Environmental Sanitation
 - 1. Click the File menu, select Open. Short-cut: Click the Open button.

2. From the Open Dialog Box. Select the chap-10.xls filename.

- 3.1.To update the Unit Cost of Flush Water Sealed Toilet with Septic click the tab of STable 10.2.10 sheet.
 - Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
 - Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.
- 3.2. To update the Unit Cost of Pour Flush Toilet with Double Pit Latrine click the tab of STable 10.2.11 sheet.
 - Quantity: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

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• Unit Cost: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.3.To update the Unit Cost of Ventilated Improved Pit Latrine (VIP) click the tab of STable 10.2.12 sheet.

- Quantity: move mouse pointer to column D. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column H. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.
- 3.4.To update the Unit Cost of School Toilet click the tab of *STable 10.2.13* sheet.
 - Quantity: move mouse pointer to column D. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.
 - Unit Cost: move mouse pointer to column H. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

3.5.To update the Unit Cost of Public Toilet click the tab of *STable 10.2.14* sheet.

- Quantity: move mouse pointer to column D. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.
- Unit Cost: move mouse pointer to column H. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

Standard Report Format

9.

The following page describes the standard report format. Please refer to MS-Word Basic Operation in Section 5 for procedure in setting the MS-Word environment.

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Specification for Standard Report Format

Ŷ. Title of section Edge of paper. EXISTING FACILITIES AND SERVICE COVERAGE 4. 4.1. -Sub-section Water Supply -Text box 4.2. General -All around margin - I This is an example output of the main text. — Spacing between paragrpah - 1 blank line. ţ-----Type and composition of water supply facilities are classified into three service levels based on the definition given in the National Sector Master Plan and presented in Table 4.1.1. Various types of Level I Facilities/sources defined to safe and unsafe sources by DOH. This classification adopted for preparation of PW4SP does not disregard the facts that the existing improved/covered dug well is sometimes yielding non-potable water. -- Ist indent - 0.5" (1) Problem areas 2nd indent - 0.25" Problem areas are identified through review of the exsiting water supply facilities and countermeasures and recommendations for their improvement are prepared to reflect on the future planning in PW4SP. Ê 1) Level I facilities Comments on each sub-title shall be followed in the manner as shown herewith. Line spacing - 1.5 line. a. Driven shallow wells Most of driven shallow wells are exposed to danger of pollution through seepage of surface water. 3rd indent - 0.25" 4th indent - 0.25" Standard settings; Standard Font - New Roman Times. - H points. Font Size - Justified alignment. Paragraph Title of Section - Bold Font, All Upper Case. Sub-Section - Bold Font, First Letter Upper Case. All around margin - 1"

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lo.			Description of Key Parameter	Unit	Values
1.		Wale	er Supply		
	Service Level		Number of household to be served by Level I Facility	HH/Welt	
1	ie L		Water Consumption Rate for Level III System	Liter/capita/day	
	rvic	Sanu	lation.		
	Sei		Std. number of student to be served by a unit of sanitary toilet	Student/Toilet	·····
		~	Standard number of toilets for a public utility	Toilet/Public Facility	
•	:		Water Supply	C of Doouleston	
			UrbanWater Supply Rural Water Supply	% of Population % of Population	
			Sanitation		
		~	Household Toilet	% of Household	
		Plan	Urban Household Toilet	A OF HOUSE HOLD	
		E	Flush	% of Household	
		Medium Term	Pour Flush	% of Household	
1		2	VIP Latrice	% of Household	
		iur	Rurol Household Toiles		
		led	Flush	% of Household	
	et	2	Pour Flush	% of Household	
	Provincial Sector Target		VIP Latrine	% of Household	
	E .		School Toilet	% of Public Student	
	tor		Public Toilet	% of Public Utility	
)eC		Solid Waste	% of Population	·
	15		Water Supply		
	- <u>ä</u>		UrbanWater Supply	% of Population	
	vir	1	Rural Water Supply Sanitation	% of Population	
	ro				
	<u>A</u> .	C .	Household Toilet	% of Household	-i -
	· · ·	P13	Urban Household Toilet Flush	% of Household	
		E	Pour Flush	% of Household	
		Long Term Plan	VIP Latrine	% of Household	
		25	Rural Household Toilet		
	N	ş	Flush	% of Household	
			Pour Flush	% of Household	
			VIP Laurine	% of Household	
			School Toilet	% of Public Student	
	1		Public Toilet	% of Public Utility	
	·		Urban Sewerage	% of Urban Population	<u> </u>
			f Level I Welts for Rehabilitation	%	
. JI			Sector Management Cost to Construction Cost		
			bility and Detail Design	% of Construction Cost	
			traction Supervision	% of Construction Cost	
	Conting				
			ical Contingency	% of Construction Cost	
;.	Camou		Development and Training Cost	Percent per annum	
'. ľ	Constant	Leve		% of Construction Cost	
		Acres 1 1 1 1	is Land II	% of Construction Cost	
			IIII System (Operating Cost)	Pesos/HH/year	
	Cost		1111 System (Spare Parts/Equipment)	% of Construction Cost	
	, i		111 System (Spare Parts/Equipment)	Pesos/HH/year	·
			I System (Spare Parts/Equipment)	Pesos/HH/year	· · · · ·
	- noo		ic School Toilet Maintenance Cost	Pesos/Todet/year	• /
	X		ic Utility Toilet Maintenance Cost	Pesos/Toilet/year	
	Allocat		etors/Percentages of IRA		
		<u> </u>	Provincial	%	
			Municipality and Brgy.	%	<u></u>
). ∣	Fundin		els/Percenatges for Different Financing Scenarios		
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		Ad	Scenario	% Funding Available	
		• • • • • • • • • • • • • • • • • • •	Scenario	% Funding Available	
		No has been as and	cenario	% Funding Available	
		IND S	icenario	% Funding Available	

Key Parameter

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Composition of Well Sources and Specific	: Capacity
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					standard Spe	cification
Municipality	Area	Source	Proportion (%)	Depth (m)	SWL (m)	Specific Capacity (lit/sec/m)
				(u)	<u> </u>	(Interesting)
	Rural	Shallow Well	╂╍╍╍╺╌╸┨		· · · · · · · · · · · · · · · · · · ·	
	\ +	Deep Weli	┨╼╍╍╌╍╼╼╺╊		{	
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	Urban	Shallow Well	- 		l	
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	Nulai	Deep Well				
	Urban					
	oroan	Shallow Well				
		Deep Well				
	Rural	Shallow Well				
		Deep Well				
	Urban	Shallow Well		l	· [·····	

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Annual Distribution of investment Cost Required by Sub-sector	
for Medium-term Development Plan	
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						Unit: Per	cent
Sub-Sector	Component	1996	1997	1998	1999	2000	Tot
	Level III System		H			A	夜 [8
Urban Water Supply	Feasibility Study and Detail Design						
Urb Vai	Construction & Supervision						
220	Community Development & Training		I				
	Level I Facility		1994年	自然中	读 编辑	4.653	金橋
ы	Detail Design	[[
Rural Water Supply	Construction & Supervision						
Ň đ	Community Development & Training						
ral Wa Supply	Level II System		1000	1818		6985	
S H	Detail Design						
ĸ	Construction & Supervision						
	Community Development & Training						
Sanitation	Urban Household Toilet						
	Rural Household Toilet				·		
	Public School Toilet			· · ·			
	Public Toilet						
ait	Disinfection of Level I Wells						
Sar	Detail Design						
	Construction & Supervision						
	Community Development & Training		[

Level I Safe and Unsafe Percentage

Municipa	lity	Safe Source (%)	Unsale Source (%)
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Provincial Av	verage	 	l

Unit Construction Cost of Different Facilities

	Unit	Service Coverage	overage	Unit Cost	Cost
Description	Construction	Served	Served	Pesos/	Pesos/
	Cost (Pesos)	Population	Household	Person	Household
Water Supply	新教科教教科教科 科	的就是不能能			
Level III - New System					
For 5000 Population					
For 10000 Population					
For 15000 Population					
Level III - Expansion					
For 5000 Population					
For 10000 Population					
For 15000 Population					
Level II					
Levell		IP AND SUCCESSION AND		を見たりな	AN EXCLUSION OF A
Deep Well - 30 meter depth					
Deep Well - 50 meter depth					
Deep Weil - 70 meter depth				* * * * *	
Shallow Well					
Spring Development	4			an Annan i Miriti Malaya Malaya i An	
Rehabilitation Cost for Level I Deep Well					
Disinfection of Level I Wells					
Sanitation		A STATE OF THE STATE			
Flush			:		
Pour Flush			-		
VIP Latrine	<u>.</u>				
School Toilet					
Public Toilet					
I Trhan Sewerare					

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Sector Contraction

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Un Score			
	Underserved and Unserved	Underserved and Unserved	Population Unserved by Level
	oulation in Base Year	Population in Base Population in Phase III Systems in Base Year I	III Systems in Base Year
1.0	% >	~% ~	% >
0.8	<i>< % <</i>	> % >	> % >
0.6	< % <	>%>	>%>
0.4	< % <	> % >	< % <
0.2	% <	% <	> %
Weight Allocation			:
Score		:	

at Danking for Urban Water Sunnly Scoring Factor for Municinal Inve-

Scoring Factor for Municipal Comprehensive Investment Ranking

				Unit: Percent
Score	Urban Water Supply	Rural Water Supply	Urban Sanitation	Rural Sanitation
1.0	N.A.	% >	% >	% >
0.8	N.A.	> % >	% <	< % <
0.6	N.A.	>%>	< % <	< % <
0.4	N.A.	> % >	% <	>%
0.2	N.A.	> %	> %	> %
Weight Allocation				
Score		-		* .

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3. PROVINCIAL PROFILE

3.2 Natural Conditions and Geographical Features

3.2.3 Topography and Drainage

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Table 3.2.1 Flow Data of Major Rivers

TIVER T BUCAYAO R. STA 107 OLSVI31211190055 LAT: 13 16 3	COLATIONS BUCATAO, CALAPAN, ORIENTAL HINDORO CR10 NO.714 3 7 AT BUCATAO SIL HWT DR AT KM POST NO 13 ALONG CALAPAN LONGT 121 11 0 - PINAMALATAN HWY	
DRAINAGE AREA(SO.KM)=	339. ELEY-OF & GAGE=******* METERS OF ASB DATUHGASE TYPE=	

GAGE OPERATIONS GAGE READ 2X/DAY	214102	= 8 FU - V 2 SA
REMARKSS ORDS FAIR, BM 2-5, 77 M	224102	3 2 RANG SHED

A. ANNUAL DISCHARGE CHARACTERIS(ICS (9 IN CU.N./SEC.)

	PEAK O	GAGE HT.	DATE	1185	MAX.OLY O	HEAN O	MIN.OLY	O GAGE HT.		804011
YEAR		-461685-						🐨 -METERS-		

1851			DEC 22	1 2 10 10	1139.60	70.22	9.52	1.00	APR 17	6905.0
1825	1377.00	¢.520			426.40	63.39	17.40		NAT 10	6266.8
1953	556.80	3.500	AUG 13		767.60	79.70	19.10		30H 25	7373.8
1956	756.50	3.700	DEC 29				24.60		MAT 05	1925.9
1255	1043.00	4.100		1514	1029.00	99.91			MAR 19	8020 5
1956	2788.00	5.570	. SEP 08		1509.00	80.73	15.80			5428 9
1957	673.40	3.810	JAN 01	0614	673.20	54.90	13.04		10 NUL	
	136.60	3.200	JAR 24	1288	134-52	* * * * * * *	11.34	-63	H41 -53	
1958		3.470	DEC 30		135.04	41.55	13.80	* * * * * *	MAT C8	1107.0
1957	150.84	3.040		0628			13.42	.78	SEP 10	
1760	550.00		NOV 23				21.00		MAT 05	
1961	320.00	3.8:0~	SEP 05				13.60	.48	JUN 24	
1962	٤31.00	5.060					8.20		408 Q4	
1963	129.00	5.290	SEP . 13			45.12	10.95	56	071 04	4208-2
1964	233.80	3.260	X01 55		228.10		-	.84	100 15	
1565	137.60	2.860	- FEB 10		188.50	48.30			APR 08	
1965	25.00	1.750	50 336 · 08	05pm	******	******	8.16	. 43		3730.7
1967	103.00	2.080	NCV 18	OSPN.	. 106.00	40.15	10.10		001.04	34 5.2
1968	95.00	1.960	AUG 10	0340	95.00	36.84	10.10		AP2 11	
1969	•			1						
1970										

B. EXTREMES OF DISCHARGE AND STATISTICAL PARAMETERS

EXTREME DISCHARGE IN CHS	STATISTICS	PEAK 9	HIX. DLY 0	MEAN O	MINIOLY G
$M_{A}X.0 = 2288.00$ $MIN.q = 8.16$ DATE = SEP 08.1956 $DATE = APR,1966GAGE N = 5.57$ $GAGE H = 6.30INSTANTANEOUS PEAR ENSTANTANEOUS$	ME10 FLM= SID.DEV.= SKEWNESS= KURIOSIS= NO_YEARS=	517,244 587,480 2,050 7,684 17	554.513 481.238 898 3.372 12	59,221 18,815 ,432 2,606 11	13.611 4.632 1.026 3.950 17

C. NEAN MONTHEY DISCHARGE IN CU.N./SECOND

 1E AR		614	MAR	APR	Н"т	JUN	រួមបំ	AUG	SEP	420	NON	0 8 0
											333.68	88.66
1751												
1952				· · · · · · · · ·								
1953												
1754												
1955	******										333.68	\$3.00
1755			17.26	24.00	14.27	19.95	33.12	66.50	\$5.00	24.00	23.20	46.24
1957	215.58	27 - 36							33.54	\$2.55	41,15	- <u>1</u> 2.10
1753	45.52	11.34			21.80	23. 22	13.97	62.26	45.60	47:51	71.98	\$3.23
1757	53.25	26.53	25,01		21.00	32.48	2, 02	25.26	15 5			
1960	\$7.51	50.60	27.99	22.07				81.14	7:0	63.5%	112.35	91.23
1961		72.17	\$0.76		\$5.20		159.78	193-14			132.97	81.17
1762	132.52	81.24	25.05				13.42	- 23117		62.84		11.2
1-2-4-5	51.70		14.97	9.91			66.11	43.42	16.31	20.21		1 4 7 . 7 .
1246	76.91		23.52	43.53	- 47.51	35.40		12.14	40.85	75.82		72.5
1765	60.56	10.93	12.41	52.03	19.55			14.774				
1965		16.18	8.47	12 44	11.51		10.41	24.28	• • •	•		14.1
1962	40.14	72.25	20.10	27-21		14.82			12.11			44.13
1963	29.01	20.57	51.97	(1.27			50/23	•				
1 1 4 2	55.55	12.79										
1579			•••			******						
	79.22	50.21	33.01	51.12	26.45	80.15	45.22				104.	44.19
1.0541		27.73	15.81	11.25	18.25	19.15						
* 65 55 1	1.538	.101	. 330	.847	1.243	1.465		2.335	. 21 *			1.75
7F155+	7.132	2.000	3:388	4.814	¢.205	2.875	9.607	2. 66				• • • •
NO. 125 -	11	12	34	11	10	10	11	11	11	10	• •	

NOTE: INDICATES HISSING BATA .. NOT INCLUDED IN CALC OF STATISTICS. PARAMETERS

(Source: Philippine Water Source Summary Data Volume I, II, Department of Public Works and

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RIVER = PANGALAAN R. STA ID= Q45W133211PWD56 GR10 NO.=14 4 7 ABT 6 KHS U/S OF MOUTH OF DUCAFAO R AND AP- ROX 500 LAT: 13 15 33 LCNC: 121 11 24 H O/S OF DANSITE

.

DRAINAGE AREA(SO.KM)= 2:	R. ELEVIOF & GAGE= 15.62 METERS OF MILW	GAGE- TYPE =
START OBSERVATION = OCT 1 OBS LAST CONSIDERED =DEC 1	SSI GAGE OPERATION= GAGE READ 2X/DAY	AGENCY ≕BP¥+WRSD STATUS =ARANDONED

A. ANNUAL DISCHARGE CHARACTERISTICS (O IN CU.M./SEC.)

8131101	9 A T E	9 GAGE HT.	MIN.OLY -	MEAN O	MAX.DUY 9	FEME	DAFE	GAGE HT.	PEAK O	TLAR
(1 M)		BETERS-			·····			-METERS-		
****					******			******		951
	JUN 01	.50	7.50		130.80	OSPM	65 T 10	2.590	207.00	952
****		*****	******	* * * * * * *	******				*******	\$53
	001 02	*****	8.50		496.50	06AM	DEC 27	4.150	498.50	956
	10 N 03		15.20		496.50	06AM	JAN CO	4.150	445.53	955
	NOV 30		17.00		448.00	06AM	APR 10	4,000	480.00	956
* * * *	108 55		5.00	40.15	260-50	12 N.N	JAN CI	3.100	265.00	957
****	101-16	* * * * * *	5.00	36.00	329.00		55 133	4.000	460.00	958
* * * *	JUL 05	.48	4.90	34.45	367.00		NOV 17	4.000	469.00	957
****	APR 17	*****	8.50	36.21	460.00		GET G7	4.000	460.00	760
	APR 29	1.15	5.80	24.72	236.00		DEC CZ	2.990	244.00	961
* * * *	5EP 02	.93	3.65	******	669.90		SEP CS	5.190	\$71.70	962
	MAY 10	1.30	8.50	55.20	331.20		SEP 11	3.690	385 70	963
* * * *	308-52	1.53	20.40	84.64	301.00		408 27	6.000	\$60.00	140
****	HAY 24	1.48	17.59		199.60		C5 330	2.740	204.49	565
****	MAY G4	1.23	5.60	******	457.70		85 330	4.190	511.30	766
****	MAT 17	.39	4 80		457.70		JAN CS	4.190	511.30	967
	(1AY 19	. 4 1	5.40		384.1Č		JAN CI	3.690	328.70	839
* • • *			******		******		_			969

D. EXTREMES OF UISCHARGE AND STATISTICAL PARAMETERS

EXTREME DISCHAR	4GE 14 CMS	STATESTICS	PEAK 0	MAX.DLY Q	MEAN 0	MIN OLT G
MAX.Q = 571.70 PATE = SEP 95.1962 GAGE H= 5.19 INSTANTANEOUS PEAK	N10.0 = 3.65 DATE = 560 02,1962 CAGE F= .03 ENSTANTANEOUS	NÉAN FLW= STO-DEV.= SKEWNESS= KUPTOSIS= NO-TEARS=	430.319 160.731 .920 6.341 16	383.659 129.176 .289 3.623 16	45.269 21.042 1.302 5.446 7	7.015 5.365 1.137 3.371 16

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C. MEAN MONTHUR DISCHARGE IN CU-H-/SECOND

·						• • • • • • • • • • • •						
YEAR	JAN	fED.	HAR	APR	MA Y	NUL	JUL	AUG	589	967		030'
1751					******		* * * * * * *					21
1752	63.03		16.22	11-62	10.95	31.54	. 31.62	71.17	11.22	25.04		
1753	· · · · · · · ·	01114										113.79
1954	63.05	17:54	77.61	21.91	28.15	12.34	17.89	22,93	19.55	10.05	21.60	166.38
	161.26	45.99	27.25	40.03	26.26	23.11	31.25	22.01			111.21	78.93
1955	\$7.37	55.23	43.02		43.93	32.65	14.22	52.81	. 52 . 43	43.49		104.13
1755	114435	22.13	19.34	14.11	6.99	5.33	13.45	34.92	22.19	12.19	104.91	. 17.76
1953	83.32	44.95	35.32	2.87	5 03	7.30	25.53	12.55	10.56	25.25	92.65	57.53
	42.45	27.95	78.96	11.24		2.96	10.94	18.84	14.20	23.91	72.23	85.76
1959	73.77	17.97	17.55	20.25	21.55	25.51	36.24	58.18	35.44	46.8	21.25	24.15
1960		11.94	10.25	7.04	15.34	17.23	23.62	35.94			64.05	
1961	24.39	- 42.16	10.29	- 16.10		- 21.51	58.50		139.75		197.92	
1962	54.50	66.20	37.80	31.81		37.71	27.52	71.77	104.57		121.65	
	96.34	159.46	85.35	98.82			70.38		40.03		102.23	
1964		130140		- 45.14	41.17	32.70		51.6			83.71	
1945	45.74	19.01	11.35	8.65	55.95			45.35	20.01			111.25
1776	176.61	21.43		- 23.62	7.32	18.60		.41.26	40.03		152.17	
	122.71	81.53	56.17		14.02			33.63	21.46		103.55	
-1763		21.40		30.007								
1259		20.00										
TEAN -	77.57	\$2.02	14.00	13.56	26.01	26.60	10.00	14.25	51.83	55.11	82.58	V3.7?
51.064+	43.20	24.35		25.25	23.11		20.51	20.30		<u> </u>	14.15	41.8.
5 KEW 5 S	1.015	1.5.5		1.705		- 157		045		. 076		· . 37e
	3.258	6.537	2.119	6.144		2.578						2.29:
54.¥95-	17	16	15	15					15	- 15		11

NUTE: INDICATES PLOTING CATA-NOT INCLUDED IN CALC OF STATISTICAL FRANKLERS

(Source Philippine Water Source Summary Data Volume I, II, Department of Public Works and

Highways)

RIVER = MAG-ASAWANG TUBIG R. STA 10= OCSW131211P=057 GRID NO.=16 6 7 APROX 6 KMS+U/S FR HEY BRIALONG CALAPAN-PI- NAMALAY LAT: 13 16 15 LONG: 121 16 15 AN RD+

DRAINAGE AREA(SQ.KM)= 435. ELEVIOF & GAGE= 23.30 HETEPS ABY MLLW GAGE TYPE= START OBSERVATION =OCI 1951 GAGE OPERATION= GAGE READ 2X/DAY AGENCY #BPW-W=SO OBS LAST CONSIDERED =DEC 1970 REMARKS= RECORD GOOD,ABY 100 FAIP STATUS #OPEPATING

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A. ANNUAL DISCHARGE CHARACTERISTICS (O IN CU.M./SEC.)

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YEAR	FEAK Q	GAGE HT.	DATE	TIME	MAX.9LY Q	HEAN O	MIN.DUY O	GAGE HT.		RUNDEE
		- NETERS-						-METERS-	÷ = = -	
1951	* • • • • • • •	*******								
1952	1490.00	3.460	JAN 10	0588	1355.00	41.28	162	*****	MAC CA	- 1003-6
	41.90	1.360	AUG 14		38.45	3.52	. 48	*****	AFR G4	255.3
1953	,	3.900	050 27		1776.00	31.34	. 50		1 A H 25	
1954	2200.00	4.360	JAN C8		2807.00	66.3A	.56	*****	10N - 20	1.1152
1955	3072.00	4.443		12NN	1250.00	33.75	. 4 2	18	MAR 25	2450.9
1956	3248.00			0744	763.40	25.20	.36	. 4 1	NAY 29	1749.8
1757	829.4C	4.180	101 01		55.20		. 74		MAY 20	
1958	195.00	5.120	KOV 3C		179.00		.76		84Y 05	* * * * * *
1959	179.00	2.100		UUAN	******	*******	7 9	.76	SEP 26	
1960	538.00	3.349	89 130		310.00	45.19	1.31	*****	MAY G6	3275-1
1961	370.00	2.790	AUG 23		244.00	46.50	1.7	83	MAR 29	3376.5
1765	277.80	2.420		0584		13.79	1.10	. 20	0.1 13	1012.2
1963	205.00	5.560		07.M	202.40	26.52	2.36	35	HAY IC	1927.9
1964	421.00	5.860	NOV 28		380.00		42	.74	164 13	1215
1965	103.00	5:030	JAN 16		154.30	14.01	.32	.71	AFR 25	1123.9
1966	463.00	3:100	FAT 13		439-00	43.10			HAY 34	2305-5
1967	194.60	2.160	65 MAL		172.00	31.81	9.45	1.05	-	772.3
1968	143.30	1.940	JAN CI	05PM	141.60	10.63	. 4 4	.72	HAR 28	-
1969	*******	******			******	*******	******	*****		
1970	*******	******			******		*****	*****		

B. EXTREMES OF DISCHARGE AND STATISTICAL PAPAMETERS

EXTREME DISCHARGE IN CHS		STATISTICS	.PEAK 9	847.5LY 0	HEAN O	H18-517 4
DATE = AFR 10,1954 04TE = JUN	41	REAN FLW= S10.0EV.= SKEWNESS7 KURIDS1S= NO.YEARS7	3.442	544.553 779.795 1.797 6.261 16	27.476 14.235 477 2.627 14	1.335 2.152 3.752 17.227 17

CI MEAN MONTHLY DISCHARGE IN CU.H./SCCOND

	 JAN		 MAR		 Мат		ייייייייייייייייייייייייייייייייייייי	AUG	SEP	9CY	. NOV	133
1951			******								204.74	
1952	213.62	22.31	5.55	1.66	4.59			88.89	31.11	42.13		16.72
1753	9.15	2.93	1.45	57	1.03		[+-3+37	6.52	1.74	2.76	3?	5.2
1354	1.37	. 70	1.33		5.83		3.43	6.15	28.35	32.00	73.61	206 49
1755	376.38	21.65	5.72	6.05	6 - 2 2	- Z. 13	11.73	5.42	5	15.92	43.92	11.01
1755	5.45	š. 65	2.65	\$4.20	ć 10	2.45			163-76	57.64	15.17	89.92
1757	117.71	23.75	15.75	8.15	1.11	. 37	2.47	17.56	26.25	\$3.96	45.55	21 33
1753	29.11	29:08	24:12	5.74	5-23	- 4.01	••••		•••••	•••••	•••••	
1757					* * * * * *	*****		*****	••••	-		
1760				******			* * * * * *				127.54	72.1
1261	20.25	48.11	27.50	7.72	. 35+38	2 2	25.28	51.13	12.95		101-01	61.8
1762	102.05	111.97	22:55	21.15	6,13	10.24	2.2.2	77.94	SI		50.42	
1265	20.9	15 82	2.30	6.72	3 37	10.48	6 5	8.82	7.71	1.11.11	3.12	
1064	4.75	\$ 77	5.35	5.10	2.33	5.14	11.11	12.93	22.72		2.22	11 1 . 25
1545	23.48	33.97	3.31	2.21	1.22	1.27	1.63	2.25	2.31		5.35	14.4
1766	17.14	3.87	3.14	. 6 .	51.97	64.75	6.84	15.46	59.35		14.24	11
1957	107.56	62.18	37.32	13.22	11.93	15-12	13.32	45,11	15.44	13		
1763	38.07	8 52	1,35	.71	1.5		4 à '	6.34	្រីខ្លះខ្ល	4 - 5 3	16.74	
1282	63.44	16.39						• • • • • •				•••••
1.150		••••		••••	• • • • • •			· · · · · · ·	· · · · · · ·			· · · · · · ·
#EAH =	84.21	29.93	12.09	9.94	9.18	9.71	15.84	23.30	31.65	31.34	\$4.81	76.12
STIDEVE	96.33	31.93	12.23	13.25	14.55	11.71	15.54	28.37	42.05	1.37	54.23	
SKEWSST	2.095	1.485	1.084	2.945	2.420	2.207	1.367	1.731	2.70?	1 • 2 15	1.535	1.68
1091551	8.450			12.495	8.527	8.702	1.425	3.175	11.255		5.015	
10.185-	16		15		15	15	14	16	14	15	15	1,

(Source:Philippine Water Source Summary Data Volume I, H, Department of Public Works and Highways) REVER = POLE R. STA 10= 0456130212PU353 GRID NO.=14 5 8 ABT 17 KMS.U/S FR MOUTH AND APROX 100 M BE- LOW DEV LAT: 13 0 30 LONG: 121 23 38 ERSION FOR PRIS

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ELEV.OF Z GAGE= 14.97 METEPS OF P.M. NO.1GAGE TYPE= GAGE OPERATION= GAGE READ 2X/DAY AGENCT = REMARKS= RECORDS FAIR.BN 1-17.97 M STATUS = DRAINAGE AREA(SOJKM)= 148. START OBSERVATION =MAR 1952 OBS LAST CONSIDERED #DEC 1970 AGENCY ===FW-NPSO STATUS =ABANDONED

A. ANNUAL DISCHARGE CHARACTERISTICS (O IN CU.M./SEC.)

RAJY	PEAK Q	GAGE HT. -METFRS-	DATE	TIME	MAX.OLY Q	MEAN Q		O GAGE ST.	0416	PUNOFF
			55 100	66.0M	510.00	******		1.30		
1952	740.00	5.000					1.16		JUN 13	
1953	330.20	3.940	956 09		231.90	17.12	5.55	* * * * * *	JUN 11	3646.8
1954	636.00	4.800	060 55	15 NN	495.40	18.67	2.82	*****	10N 11	3552.4
1955	717.60	3 960	JAN CZ	07AM	536.60	******	3 - 19	*****	APP 25	
1956	956.00	4.350	AUG 10	07AN	630.00		2.55		AUS 81	
1957	740.00	4.000	NOV C3	1524	422.00	14.82	1.98	******	MAY 25	5. 3158.8
1953	924.00	6.300	CCT 22	06AH	470.00	23.82	1.45	1.24	SEP 23	5075.8
1959	621.20	3.800	NOV 29	0648	490.00	18.26	2.30		HAY 23	3891.7
1960	1500.00	5.200	JAN C1	05PH	*****	******	.36	1.06	APR 14	
1961	335.10	3 190	CCT 18	07PH			1.50		Max C1	
1962	440.50	3.410	SEP C5	06 P.M	440.50	******	.25	.63	MAR 30	
1963	177.50	2.600	JAN C7	OSPM	168.70	7.76	.09	. 37	101: 27	2033.3
1966	142.00		- NOV 29		142.00	2.34	-02	.32	JUN 25	1996.2
1965	81.20	2.000	JAN 12	07AH	76.16	11.84	1.80	. 54	15 633	2523.7
1966	526.00	3.600	0EC 23	0744		******	.50	.50 -	FEB 27	
1967	285.00	3 000	NOV C2	06AM	230.98	10.82	.20	. 10	AFR 15	2394.4
1963	197.75	2.670	65 <b>831</b>	0745	113.56	5.70	.20	.10	MAY 25	1261.0
1969								* * * * * *		
						*******		* * * * * * *		

D. EXTREMES OF DISCHARGE AND STATISTICAL PAPEMETERS

EXTREME DISCHAR	GE IN CMS	STATISTICS	PEAK Q	MAX.DLY 9		MEN.DEY 0
(AN_0 = 1400-00.		MEAN FEST		354.200	13.835	1 328
	ENTE JUN 28-1964	510-01 V.	365 913	181.197	5.291	1.363
AGE H= 5.00	GAGE H= .32	SKEWNESS =	.973	234	4 2 5	.205
ISTANTAHEOUS PEAK	SEVERAL DAYS JUN	KUPTOSIS=	4.716	2.118	3.852	2.289
		NO.YEARS=	17	16	- 10	17

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C. MEAN MONTHLY DISCHARGE IN CH.M. / SECOND

YEAR	JAN	150	PAR	APR	* MA 1	אטנ	101	105	SEF	0. T	れつソ	23.1	
1952				3.75	3.47	6.34	11.57	24.94	16.52	63.11	25.30	15.20	
1953	39.69	22.07	10.01	7.5C	6.14	11.60	15.11	2.44	19-51	10.21	22.41	\$1.92	
1254	14.72	12.34	21.22	6.86	4.76	3.90	9.24	6.47	5.51	23.57	17.57	70.71	
1755	151.75	12.12	5.82	66.05	8.00		27.14	10.47	14.45	23.20	50.79		
1955					******			51.11	4.27	44.87	24.42	21.1	
1957	54,31	8.56	8.12	3.43	2.71	1.25	3.49	7.82	5.28	19.34	59.63	<b>5</b>	
1953	12.75	22.21	24.51	3.03	19.85	5 2 2	14.40	25:36		61.12	54 82	** . * .	
1259	16.20	6.61	17.93	3.74	4.12	2.24	3.22	5.63	5.31	2.12	2 63	· · · · · ·	
1950	35.05	14.21	5.73	22.14			15.63	10.02	17.33	37.76	22.54	11.17	
1951	13.12	59.50	11.92	3.11	13.02	7.85	4.30	5.55	1. 9.9			• • • • • •	
1962			*****	****									
1945	17 12	7.72	2,73	1.78	. 37	6.7	ç	14.41	8.11	12.7%	7.19	12	
1966	4.50	5.00	2.55	2.46	8.32		3.56	5.25	5.12	\$.15	33.?4	26.91	
1965	13.57	5.78	12.16	:6.47	5.36	4.37	9.00	10.25	12.82	18-00	18.31	15.98	
1945		2.18			18.23	5.37	2.70	00.46	6.32	18.54	10.2	23.23	
1962	37.07	2.84	1.77	1.03	1.74	2.65	4.92	2.43	7.21	4.75	19.29	27.57	
1948	14.75		1.18	3.08	2.11	3.12	5-01	4.65	5.59	6.24	9.21	10.18	1
1469	1.3	1.57				••••						• • • • • •	
1770						••••		******	*****	••••	• • • • • •	* * * * * * *	
FE-31 =	32.20	11.79	11.77	9.15	6.35	5.05	10.14	12.73	2.83	23.97	29.85	31.66	
\$1.0EV:	37.26	3.04	10.42	16.53	4.93	. 3.66	e 6.65	12.45	4.21	17.58	20.17	19.08	
10.1455	2.865			3.349	1.229	.675	1.078	2.269	955.	1.232	. 966	1.008	
1 10 1 5 5	12.352	3.137		14.510	5 014	5.237	5.283	8.816	3.353	5 8 0	3.362	3.702	
10 Y - 5 -	14			15	14	14	15	16	16	15	15	14	
					<b>. .</b> .				· • • - • • • •				
#01E: **	··· ENDEC	ATES NL	SSING OF	TA,NOT	THELUDE	O IN CA	LC OF S	SFATEST	CAL CAP	AMETER			

(Source:Philippine Water Source Summary Data Volume I, II, Department of Public Works and

Highways)

### 3.3 Socio-economic Conditions

3.3.2 Basic Infrastructure

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			. ^ 						Ĭ	Filename: SOCIO.XLS	<b>CIO.XLS</b>
CONTENT	CONTENT: Socio-economy - Services	cs						PAGE: 6 OF 8	F 8		
DATA CO	DATA COLLECTION LEVEL : Municipal	unicipal			PROV. NO.: 0452	0452		DATE :			
REGION	REGION NUMBER : IV				NAME	: Oriental Mindoro	indoro				
	MUNICIPAL				SERV	<b>SERVICES</b> (As of December 1993)	December	1993)			
NEDA		Eler	Elementary School	ol Io	1	High School					
GEO- GEO-	NAME	Public	Private	Total	Public	Private	Total	College	Hospitals	Public Market	Banks
		2	ę.		4	ŝ		6	7	8	ف
1		1	#	#	#	#	<b>*</b>	#	#	#	*
045201	Baco	27	0	27	0	1		0	0	-	F
045202		51	0	15	3	1	ব -		0		
045203	1	27	ō	27	4	2	9	7			R R
045204	Bulalacao	20	0	20	1	0	-	0			
045205		46	S	51	4	4	8	S	2		2
045206		25	0	25	2	-	ŝ	°	1	1	
045207		22	0	22	3	2	S		0		-
045208		64	0	22	4	2	9	0		-	5
045209		26	3	29	3	3	6		61		<b>V</b>
045210	ŧ.	20	0	20	0			0		-	
045211	Puerto Galera	1 18	0	18			2		0		7
045212		23	0	23	-	64	ŝ				Ϋ́,
045213		10	0	01	0			0	0		
045214	045214 Socorro	20		21	1		7		11		
045215	045215 Victoria	24	1	25	-	2	Ϋ́				5

Table 3.3.1 Number of Elementary School, High School and Other Served Facilities

#### 3.5 Health Status

#### 3.5.1 Morbidity, Mortality and Infant Mortality

Table 3.5.1 Morbidity, Mortality and Infant Mortality by Municipality (Annual incidence per 100,000 persons) Filename: IEAETH XES

					Filename: HEAL	TH XLS
Content: Health - Mor	bidity and	Mortality	<b>F</b>		PAGE: 1 OF 2	
DATA COLLECTION		Provincial	MUNICIPAL N	( <b>O</b> .:	DATE:	······
REGION NUMBER :	IV		NAME:			<u> </u>
PROV. NO.: 0452				O: NOT APPLIC	ABLE	
NAME : Oriental	Mindoro	1	NAME: NOT			00 D
Č Č D	In the second second			Annual li	ncidence per 100,0	<u>100 People : :</u>
Cause Group Diseases		Name of Diseases (-Group)	Water Related Diseases	Morbidity	Mortality	Infant Mortality
of: Infective	No.	1 d/ Tuphaid Parathuphaid		43.28		
and	A.02	2-4/ Typhoid/Parathyphoid 5-7/ Dysentary	<del>X</del>	5.81		
anu Parasitic	A.02	8-10/ Intestinal Parasites	X X	1043.49		
(001-136)	A.04	II-13/ Diarthea	x	816.83	5.64	333.86
(001-150)	A.05	14-16/ Tuberculosis	····	117.69	5.64	
	A.06	17-19/ Conjunctivities	x 1	8.89	3.01	}
	A.07	20-22/ Whooping Cough	^	0.07	· · · · · · · · · · · · · · · · · · ·	
	A.08	23-25/ Throat/Eat/Nose				f
	A.09	26-28/ Tetanus			0.51	0.2
	A.10	29-31/ Septicemia			9.22	
	A.11	32-34/ Cholera	x	• • • • • • • • • • • • • • • • • • • •	2.20	
	A.12	35-37/ Varicella, Chickenpox		26.82		· · · · · · · · · · · · · · · · · · ·
	A.13	38-40/ Measles	· · · · · · · · · · · · · · · · · · ·	9.39		· · · · ·
	A 14	41-43/ Dengue Fever	x			
	A.15	44-46/ Viral Hepatitis	X	10.76	· · · · · · · · · · · · · · · · · · ·	1
	A.16	47-49/ Malaria	x	62.86	0.51	
	A.17	50-52/ Schistosomiasis	X	168.08	0.17	1
	A.18	53-55/ Filariasis	x			
	A.19	56-58/ Venerial Diseases				
	A.20	59-61/ Other Bacter / Viral Dis.				
Neoplasms	B.01	62-64/ Malignant Neoplasms				
(140-239)	B.02	65-67/ Leukernia				
Endocrine, Nutritional		68-70/ Diabetes Mellitus				
& Metabollic	C.02	71-73/ Nutritional Deficiencies		645.53	15.88	0.1
(250-279)	C.03	74-76/ Endocrine Disorder				
Blood & Blood	D.01	77-79/ Anemias		. 791	1.19	2 - A
Forming Organs		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
(280-289)	<u> </u>	the second s				
Mental Disorder	E.01				· .	
(290-319)						
Nervous System	F.01	80-82/ Meningitis				· · · · ·
& Sense Organs	F.02	83-85/ Nervous System				1 · · · ·
(320-389)						
Circulatory	G.01	86-88/ Heart Diseases		108.64	29.38	
Systems (390-459)	G.02	89-91/ Vascular Diseases	· · · · · ·		23.4	
	11.01	92-94/ Bronchitis		325.4		0.8
Respiratory	H 02	95-97/ Pneumonia		766.09	38.6	2.9
Systems	H.03	98-100/ Influenza		703.75		<u> </u>
(460-519)	H.04	101-103/ Obstructive Pulmonary			······································	
	11.05	104-106/ ARI		3669.57	!	·
Digestive	1.01	107-109/ Appendicitis 110-112/ Gastroent. Colitis				· · · · · · · · · · · · · · · · · · ·
System	102				<u> </u>	· ·
(520-579)	1.03	113-115/ Chronic Liver Disease			5.2	
Gaoira Heinen	1.01 1.01	116-118/ Other Diges, Diseases 119-121/ Kidney/ Nephritis	¥	287.65	· · · · · · · · · · · · · · · · · · ·	
Genito-Urinary System (SED 620)			<b> </b>			
System (580-629)	1.02	122-124/ Urinary Infections	<b> -</b>		<u> </u>	
Complication of	K.01	125-127/ Prematurity			2	
Pregnancy & the	· ·				7.34	2.7
Pverperium (630-676)	1 ·					
<u> </u>			<b>-</b>	616.01	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Skin & Subcutaneous		128-130/ Skin Diseases	<u>X</u>	545.91		<b> </b>
Tissue (680-709)	1.02	131-133/ Scabies	<u>X</u> .	252.29	<u> </u>	
Müsculaoskeletal &	M.0I	134-136/ Arthrop., Rheumatism	· · ·		1 A	1
Connective Tissue		· ·				
(710-739)			<b> </b> +			<u> </u>
Congenital Anomalies	N.01	137-139/ Congenital Anomalies				]
(740-759)			<b>!</b>			f
o'	P.01	140-142/ Birth Trauma			<b>.</b>	<b> </b>
Certain Causes of		143-145/ Birth Injuries & Difficult	ļ İ			1
Prenatal	P.02	Labor	<u> </u>		· <u> </u>	<b>  -</b>
Morbitity & Mortality		146-148/ Resp. Fetus/Newborn	<u>ا</u> ا			
(760-779)	P.01	159-151/ Other Prenatal Causes	<b> _ </b>			<b> </b>
Symptoms &	Q.01	152-154/ Senility	<u>↓                                    </u>			
III-defined Condition	Q.02	155-157/Ill-Defined Conditon				1
(780-799)			<u>↓</u> ↓		<del>- :</del>	
Accidents, Poisoning		158-160/ Burns	<u>ا</u> ــــــــــــــــــــــــــــــــــــ			I
	R.02	161-16.V Suffee, Foreign Body	1			l
& Violence (800-999)	R.03	164-166/ Other Accidents		111.03	11.44	

Municipanty
 Practitioners by M
a Facilities and
mber of Health
Table 3.5.2 Nu

CONTENT: Health - Facility and Pracutoner DATA COLTECTION LEVEL - Municipal									
DATA COLLECTION LEVEL Municipal	IOUCI								-
	pal		PROV. NO.: 0452	0452				DATE :	
REGION NUMBER : IV			NAME	: Oriental Mindoro	ndoro				
MUNICIPAL		Number o	Number of Facilities			Number	Number of Medical Practioners	ractioners	
5		1170	ола	Others	Doctors	Nurses	Midwives	Dentists	Others
GRAPH. NAME CODF	ruspitat	n N N	4	5	¢	7	S	6	01
	*	#	#	#	#	#	#	#	#
045201  Baco	0		17		2	9	1.1	-	0
			12		4	4	16	3	0
	ţ,	3	30		5	18			õ
	0		12		1		34		0
1		9	57 57		58	112	67	5	
1			18		6	. 17	14	τ Π	0
	0		6		3	14	1 18	3 2	0
		4	1 51		14	56	48	9	0
	ſ.				2	6	37	7 4	
	0		1 14	- <b>-</b> -	4	11		4	
045211 Puerto Galera		0	1 18		<b>9</b>	6	:		
045212 Roxas			1 18		8	01	17		177
045213 San Teodoro	)	0 1	1 8		2	4		4	
			1 26		7	14			~
	-		1 19		8	15			
PROVINCIAL TOTAL	18	8 25	5 316	0	01 135	300	393	3	184

## 3.5.3 Health Facilities and Practitioners

1

# 3.6 Environmental Conditions 3.6.3 Solid Waste Disposal

PROV. NO. 0452         NAME         Ortental Mindore         DISPOSAL           V         7/         N         9/         10/         11/         12/         13/           V         Y/         Wr         9/         10/         11/         12/         13/           OPEN DUMP SITE         LANDFILL         DUMP/NC         Equipment         DUMP/NC         9/         13/           Buildoxer         Compators         Others         NUMBER         Buildoxer         Compators         0         449         449         4503         4503         4503         4503         4503         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13563         13564	1001001	FROM NOTE WILL SOLVED STREAM OF AND SAME AND SAME AND SAME OF THEM																	
TVPE         NUMBER         MILLING         DISPOSAL         IV         IV <th>CONTENT</th> <th>Environment Sanita</th> <th>tion - Munici</th> <th>ipal Solid Wa</th> <th>aste Collecti</th> <th>on and Dispo.</th> <th>sal</th> <th></th> <th>PAGE: 4 OF 8</th> <th>ac L</th>	CONTENT	Environment Sanita	tion - Munici	ipal Solid Wa	aste Collecti	on and Dispo.	sal											PAGE: 4 OF 8	ac L
Z         X         N/ME         COLLECTION         DispOSAL           Z         X         x         y         y         y         y         y           Z         X         x         y         y         y         y         y         y         y         y           Z         X         x         y         x         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y	DATA COL	LECTION LEVEL:	Municipa]					PROV. NO.:	0452		•			-				DATE:	
TUNICITIAL         Z         N         V         N         V         N         V         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N	RECION N	JMBER : IV							: Oriental Mil	ndore									
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	X	UNICIPAL		COLL	ECTION						••••		DISPOS	٨L					
NAME         DUNP TYPE         TYPE         OPEN         CLOSED         OPEN         CANENT         LANDFLL         DUMPNO           TRUCKS	2		5	X	17	15	Ŷ		11	8/	6	×	10/	/11	וא ו	13/	4	151	191
NAME         DUNC         TYPE         OPEN         CLOSED         OPEN         LANDFLL         DUNC         TYPE         CANTENC           7         TRUCK         TYPE         CANTS         CANTS         CANTS         CANTS         CANTS         CANTS         CANTS         CANTS         TRUCK         CANTS         CANTS         CANTS         CANTS         CANTS         CANTS         CANTS         TRUCK         TRUCK         TRUCK         TRUCK         TRUCK         TRUCK         TRUCK         CANTS         CANTS         CANTS         CANTS         CANTS         CANTS         TRUCK			-							WITH S	YSTEM					I.M.	THOUT SY.	STEM	
NAME         DUMPL         TATE         CARTS         OTHERS         CARTS         OTHERS         CARTS         TRUCKS	Y CEN		OPEN	CLOSED	OPEN														
Baco         b         b         b         b         b         b         compation         Equipment           Baco         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b	GRAPH.	NAME	TRUCKS		CARTS			OPEN DU	MP SITE			LAN	OFILL		<u> </u>	ONITING			
$\mu$ <td>CODE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Equipment</td> <td>-</td> <td></td> <td></td> <td>Equipment</td> <td></td> <td></td> <td></td> <td>BURYI</td> <td>BURYING COMPOSTING Others</td> <td>ING Oth</td>	CODE								Equipment	-			Equipment				BURYI	BURYING COMPOSTING Others	ING Oth
$\mu$ <td></td> <td></td> <td>:</td> <td></td> <td>-</td> <td></td> <td>NUMBER</td> <td>Bulldozer</td> <td>Compators</td> <td>-</td> <td>NUMBER</td> <td>Bulldozer</td> <td>Compators</td> <td></td> <td>Land</td> <td>Water</td> <td></td> <td></td> <td></td>			:		-		NUMBER	Bulldozer	Compators	-	NUMBER	Bulldozer	Compators		Land	Water			
1 $0$ $364$ $364$ $364$ $4469$ $4469$ $4469$ $4469$ $4469$ $4469$ $4469$ $4469$ $4469$ $4460$ $4510$ $4300$ $10$ $0$ $0$ $0$ $0$ $0$ $4502$ $13263$ $4460$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $4462$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13263$ $13264$ $13264$			#	#	*	*	#	*	#	#	#	#	#	#	*	*	*	#	*
mt         i         0         917         0         917         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4510         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500         4500	E	Baco		0			364				0				4449		1449	0	0
ng         3         0         1302         1302         1302         1302         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18992         18932         18932         18932         18932         18932         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329         183329	045202	Bansud		•			216				•				4510		1510	0	õ
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(Capital)         1         0         4008         6         0         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13263         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859	045204	Bulalacao	0				0				0				4462		1462	0	0
v         1         0         0         6181         1         6181           v         1         0         4561         4563         4563         4563         4563         4563         4563         4563         4563         4563         4563         4563         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         138	045205	Calapan (Capital)	ť.				4008				0				13263	91 j -	1263	0	0
v $1$ $0$ $1010$ $1010$ $1010$ $4563$ $4563$ $4563$ $4563$ $4563$ $4563$ $4563$ $4563$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13859$ $13896$ $13896$ $13896$ $13896$ $13896$ $13896$ $13896$ $13896$ $13896$ $13896$ $13896$	QL5206	Gloria	0				0				ō				6181	-	181	0	0
2         0         460         460         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         13859         10565         10565         10565         10565         10565         5014         5014         5014         5014         5014         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         5015         50		Mansalay	1	0			0101				0				4563	- <b>1</b>	1563	0	0
Wall         2         0         1146         1146         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         10565         5014         5704         5705         5014         5705         5005         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505 </td <td>04520%</td> <td>Naujan</td> <td>C4</td> <td></td> <td></td> <td></td> <td>460</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td>13859</td> <td>11</td> <td>859</td> <td>0</td> <td>0</td>	04520%	Naujan	C4				460				0				13859	11	859	0	0
altera         1         0         0         0         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014         5014	045209	Pinamalayan	•••				1146				ò				10565	IC	1565	ò	ō
Altera         1         0         331         0         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1397         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396         1396 <td>045210</td> <td>Pola</td> <td>•</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td>5014</td> <td></td> <td></td> <td>571</td> <td>18</td>	045210	Pola	•				0				0				5014			571	18
1         0         1320         6         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5505         5501         5501         5501         5501         5501         5501         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240         57240 <th< td=""><td></td><td>Puerto Galera</td><td>1</td><td>0</td><td></td><td></td><td>35:1</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>3396</td><td></td><td>966</td><td>0</td><td>ō</td></th<>		Puerto Galera	1	0			35:1				0				3396		966	0	ō
doro         1!         0         308         0         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1879         1870         1870         1870         1870         1871         1871         1870         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871         1871 <th1871< th=""> <th1871< th=""> <th1871< th=""></th1871<></th1871<></th1871<>		Roxas	-	0			1320	-			o				\$055	-	505	0	ō
1         0         5x7         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5	045213	San Teodoro	1	0			308				0				1879		8791	0	0
21         0         714         0         0         6320         714           TOTAL         19i         0         0i         0i         0i         0i         0i         0i         7340         73	112570	Socorro		0			587				0				5611		611	0	0
1 19! 0 01 01 12.577! 01 01 01 01 01 01 01 01 022340	045215	Victoria	2				714				0				6320			0	0
	PROVI	VCIAL TOTAL	6				12577	0	0		0			ò	98569	0		571	18

Table 3.6.1 Municipal Solid Waste Collection and Disposal by Municipality

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# 4. EXISTING FACILITIES AND SERVICE COVERAGE

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### 4.2 Sanitation and Sewerage

# 4.2.3 Sanitation Facilities and Service Coverage

	CONTRACT AT WATER STIRDIN SEWER AGE AND SANITATION SECTOR PLAN	WFRACE	AND SAP	VITATION	SECTOR	PLAN	• •						File	Filename:SANIT.XLS	VIT.XLS
	Coversion and the cost of the contraction of the cost	Household	Toilet					PROV. NO.: 0452	):: 0452			Ŧ	PAGE: 1 OF 8	)F 8	Ī
CONTENT								NAME	: Orient:	: Oriental Mindoro			DATE:		
DATA COL	DATA COLLECTION LEVEL: HOVINCIAL	Incrat													
REGION NUMBER : IV	MBER : IV														Ī
			ž	Number of Households Using Sanitary Toilets	ouscholds	Using San	itary Toile	ង							
NEDA GEO GRAPH.	Municipality	Flush		Pour Flush	Flush	Sanitary Pit Latrinc (VIP)	it Latrine P)	Total	नि	Unsa	Unsanitary Latrine	ine	Ž.	No Facilities	
CODE		:													
		Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Total	Urban	Rural	Total
045201	Baco		133	210	1.803	116	1,202	326	3.138	24	660	684	30	685	715
107200				ž	366	470	2.066	495	2.432	170	1.031	1.201	146	1.108	1.254
707540	Pansad			100	026	370	4 100	663	5:135	4	1.852	1.856	140	2.696	2.836
045203	Bongabong			*07	0101	000	543	270	1 553	27	629	656	23	1.766	1.848
045204	Bulalacao				717.1	22	2	205 2	000 >		2 605	3 605	1 015	2 366	3.381
045205	Calapan (Capital)	2.101	1.179	3,294	4.041			5.0.0	244			50,5	74	1 612	1 680
045206	Gloria			199	1.364	55	1,343	254	2,707	8/	3	6701	2	C10.1	
1003FV				372	2.692			372	2,692		1,172	1.172	4	1.267	1.361
045200	Neuros	200	92	450	3.341	160	1.407	815	4,818	190	5.385	5.575	- 45	3,278	3.323
OUT CHA	Description	703	2 240	327	1.337	130	573	1.250	4,159	176	3.674	3.850	S	2.578	2.583
	Filluliant all	110	179	187	944		539	306	1.655		732	732	35	2.958	2,993
217540				205	1 821	×	000	594	2.030	3	863	366	8	294	302
045211	Puerto Galera			276	1.002	, , 	99	522	1 833	117	3.380	3.497	11	873	944
045212	Roxas	ŧ		C/C	1.40	041	240	270	001	27	102	366	26	609	704
045213	San Teodoro			82	200	071	000	070	177			190		770 -	2 0.67
045214	Socorro			375	1.028	213	649	538	1.677	112	1.007	104.1	5		
045715	Victoria	. 		5±5	2,046	348	1.152	993	3.198			0	329	2.284	147.7
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Drowincia	Drovinsial Water Supply Sewerase and Sanitation Sector Plan	Wersde 3	nd Sanita	ion Sector	Plan	•	:					Filename: Sanit.xls	pit.xls	
Tontent. E	Content: Environment Sanitation - School/Public Toilets	rion - Scho	ol/Public	<b>Toilets</b>								Page: 1 of 2		
Onestiona	Duestionaire I evel: Provincial	1			NO:: 0452					:		Date:		
REGIONN	REGION NUMBER : IV			NAME	: Oriental Mindoro	indoro	-							
NFDA								Schools						Ī
										NUT	Number of Toilets	cts		
	Municipal Vame	"Z	Number of School	20	INN	Number of Student	L		Sanitary			Underserved		Total
		Public	Private	Total	Public	Private	Total	Public	Private	Total	Public	Private	Total	Units
	10 m	27		28	4.541	847	5.388	30	8	38	15		15	53
	Barend	18		61	6.365	õ	6.365	42	4	46	21		21	67
_	Boncahonu	15	2	33	11.820	1.836	13.656	78	81	96	40	_	40	136
	Bularao	10	0	21	4,644	0	4,644	30		30	. 6		16	46
202200	Ot 5005 (Canital)	50		59	16.994	3.511	20.505	113	35	148	56		56	202
ACCON CLUM	Cionia	12		28	7.547	1.006	8.553	50	10	60	25		25	85
LUCY V	Munchau	36	2	27	6.570	552	7.122	43	9	49	22		22	1
	Nausu	89		20	16.958	1.785	18.743	113	18	131	56		56	187
	Pinamalavan	29	Ŷ	35	15.182	2,324	17,506	101	23	124	50		50	174
	Pola	20		21	5.194	655	5.849	34	5	41	17		5	58
045211	Puerto Galera	61	-	8	3.844	200	4.544	26	2	33	12		12	45
	Roxas	24	.2	26	7.529	2.409	9.938	. 50	24	74	25		25	66
045213	045213 San Teodoro	10		11	842	490	1.332	6	S	11	3		3	141
045214 Socorro	Socorro	5	5	23	8.580	1.135	9.715	57	11	68	29		29	97
045215  Victoria	Viennia	25	3	28	5.394	2.497	168'L	36	28	64	18		38	82
4	Provincial Total	415	34	449	122,004	19.747	141.751	608	204	1.013	405	0	405	1.418
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Provincia	Provincial Water Supply, Sewerage	and Sanit	and Sanitation Sector Plan	or Plan				Filename: Sanit.xls	anit.xls	
Content: F		lool/Public	: Toilets					Page: 2 of 2		
Ouestiona	Ouestionaire Level: Provincial	-			PROV. NO.: 0452	: 0452 -		Date:		
REGION N	REGION NUMBER : IV				NAME	: Oriental Mindoro	indoro			
				· ·	ď	<b>Public Utilities</b>	8			
NEDA		<b>4</b>	Public Markets	- - 	Jeepi	Jeepney/Bus Terminal	lenir	Pa	Parks/Playground	<u>ح</u>
GEO-	Municipal Name	No. of	No. of		No. of	No. of		No. of	No. of	
GRAPH.		Sanitary	Under-	Total	Sanitary	Under-	Total	Sanitary	Under-	Total
CODE		Toilets	served		Toilets	scrved		Toilets	served	
045201	Baco	1		1			0			0
045202	Bansud		1	1			õ			
045203	045203 Bongabong	1					1			0
045204	Bulalacao		1	1 .			õ			ō
045205	Calapan (Capital)		1	-		-				õ
045206	Gloria		1	. 1			0			õ
045207	Mansalay	1		1			0		-	
045208	Naujan	1		1			0		- -	ō
045209	Pinamalayan		2	2			0			0
045210	Pola		1				0			
045211	Puerto Galera	1		_			0			o
045212	Roxas	1						-		
045213	045213 San Teodoro	-					0			
045214	Socorro	**					0			õ
045215	Victoria	5		2	-		-			Õ
	<b>Provincial Total</b>	10	2	17 17	5	C1	4	0	°	ö

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