JAPAN INTERNATIONAL COOPERATION AGENCY

DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT THE REPUBLIC OF THE PHILIPPINES

THE STUDY ON THE PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN IN THE REPUBLIC OF THE PHILIPPINES

VOLUME III - [6]

DATA REPORT

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN FOR THE PROVINCE OF

SOUTHERN LEYTE



BECEMBER 1999

MPPON LOGESHING SEKKELCO, LTD.

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VOLUME III

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SOUTHERN LEYTE



DECEMBER 1999
NIPPON JOGESUIDO SEKKEI CO., LTD.

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

VOLUME III DATA REPORT

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Table 1.3.1 List of Collected Reports and Documents

No.	Title	Year	Source	G	C	R	P	M	В
1.	GENERAL			7					
1.	The Philippine National Development Plan Program Master Planning	1998	NEDA		*				100
2.	Report and Recommendation of the President to the Board of Directors on Proposed Loans to the Republic of the Philippines for the Rural Water Supply and Sanitation Sector Project Report and Recommendation of the President to	May 1996	AÐB		3 .				
3.	the Board of Directors on a Proposed Loan to the Republic of the Philippines for the Regional Municipal Development Project	Aug. 1995	ADB		-			İ	
4.	Long Term and Medium Term Sector Dev't. Planning Workshop No. 2	1998	DILG						
5.	Philippine Agenda - A National Agenda for Sustainable Development for the 21st Century	1997	PCSD						
6.	Updated Medium-Term Philippine Development Plan 1996 - 1998	Dec. 1995	NEDA						
7.	Water Supply, Sewerage and Sanitation Master Plan of the Philippines 1988 - 2000	1988	NEĐA		•				
8.	Catalogue Products and Services	1993	NAMRIA		-				
9.	The Philippines in 1995: Our Time Has Come	June 1995	OP		=			ļ	
10.	Australian Development Corporation with the Philippines - Philippine Program Profile (Section C.3)	July 1997	LGU					:	
11.	Social Reform Agenda Policy Directives		Social Reform Council Secretariat		-				
11.	SOCIO-ECONOMIC	JANUARY				, , ,			
1.	Socio-Economic Profile (Southern Leyte)		PPDO				=		
2.	Census-Based National and Regional Population Projection Volume I	1995	NSO		=				
3.	Report No. 1-P: Population by Province, City/ Municipality and Barangay Region VIII 1995 Census	1995	NSO			-			
4.	Demographic Characteristics Southern Leyte	June-05	NSO				-		
5.	1995 Census Philippine Statistical Yearbook	1997	NSCB :		-				
6.		1995	NSO			=		:	

No.	Title	Year	Source	G	C	R	I P	M	8 1
7.	Geographic Coding and Urban and Rural			-=== 			- -		- !!
	Classification (Region VIII)	1990	NSO			=			
8.	Total Population, Household Population and Number of Households by Province, City/								
	Municipality and Barangay	1995	NSO		=				
<i>III</i> ,	WATER SOURCE				र १९ क्र. सं				
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1							<u> </u>
1.	Master Plan Study on Water Resources Management in Republic of the Philippines Vol. I	Jan. 1998	NWRB		=				
2.	Master Plan Study on Water Resources Management in Republic of the Philippines Vol. It	Jan. 1998	NWRB		-				
3.	Philippine Water Resources Data Volume II Streamflow and Lake or River Stage	Jan. 1980	NWRC		•				
	Philippine Water Resources Data Volume If Streamflow and Lake or River Stage	June 1991	DPWH-BR S		=				
5.	Master Plan Study on Water Resources Management in the Republic of the Philippines	July 1997	NWRB		*				
6.	Topographic Maps 1:250,000 Southern Leyte	Reprinted in 91, 93 and 96	NAMRIA				•		
7.	Rapid Assessment of Water Supply Sources Southern Leyte	1982	NWRB				=		
8.	Groundwater Resources Investigation Report Southern Leyte	Unpublished	NWRB				•		
9.	Water Resources Summary Data (Volume 1 and 2)	1 970	NWRB		R				
10.	Individual Well Inventory Southern Leyte	1990	NWRB						
Ð.	Groundwater of the Philippines	June 1980	NWRC		=				
12.	LWUA Water District Database	1997	LWUA		-				
13.	Road Network Map						•		٠
14.	Well Inventory		NWRB		=				
15.	Well Inventory	1998	DPWH-DEO				=		:
16.	Well Drilling Record	1998	DPWH-DEO				-		
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1.	Assessment of the Domestic WS and Sanitation Sector of Eastern Visayas	April-98	NEDA/UNIFEC			- -			
2.	Technical Assistance to the Republic of the Philippines for the Water Supply and Sanitation Sector and Study	July 1997	ADB		-	-	-		
3.	Working Group on Urbanization (WG/U) of the Water Supply and Sanitation Collaborative Council (WSCC)	Sept. 1993	WSCC-WG/U	=	٠.	:			
4.	Water Suppy Feasibility Study Methodology Manual (LWUA-Mala Columbus)	1996	LWUA						
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No.	Title	Vear]	Source	G	C]	R]	i l	M	B
5.	Overview of Water Pricing Policies and Structures in the ESCAP Region	1996	UN						
6.	Report and Recommendation of the President to Board of Directors on a Proposed Loan to the LWUA in the Republic of the Philippines for the Small Towns Water Supply Sector Project	Sept. 1996	ADB						
V.	ENVIRONMENTAL SANITATION	A 10 P-31							
1.	Trainer's Training Kits for Sanitation	Mar. 1996	UNDP/DILG		*				
2.	Ecological Alternatives in Sanitation	Aug. 1997	SJDA						
3.	The Code Sanitation of the Philippines	1976	DOH		-				
VI.	INSTITUTIONAL								
1.	General Primer - Local Government Code of 1991	1991	DILG		*				
2.	The Barangay and the Local Government Code	1994	DIE.G		-				
3.	NEDA Board Resolution No. 4 (S. 1994)	1994	NEDA		-				
4.	Implementing Rules and Regulations of NEDA Board Resolution No. 4 (S. 1994), Clause (G)	Nov. 1997	NEDA		-				
5.	NEDA Board Resolution No. 5, S-94	1994	NEDA		-				
6.	NEDA Board Resolution No. 5, S-96	1996	NEDA		•				
7.	NEDA Board Resolution No. 5, S-89	1989	NEDA		•		,		
VII.	COMMUNITY DEVELOPMENT) # \$1 WEVA	\$6.500 10.53 (00.50)						
1.	Community Development Manual First Water Supply, Sewerage and Sanitation Sectors Projects (FW4SP)		DPWH/DILG/ LWUA/DOH		-				
2.	BWSA Formulation Operations Manual Community Development Manual First Water Supply, Sewerage and Sanitation Sectors Projects (FW4SP)		DPWH/DILG/ LWUA/DOH						
3.	Institution Building for Decetralized Implementation of Community-Managed Water Supply and Sanitation Projects		DILG		7				
4.	Institution Building for Decentralized Implement- ation of Community-Managed Water Supply and Sanitation Projects	June 1997	DILG		•				
5.	Guidebook for Community Managed WATSAN Project		UNDP		-				
6.	A Manual for Training Trainers in Participatory Techniques	1990	PROWWESS/ UNDP		•				
7.	Interception Report for Special Assistance for Projects Sustainability for the Rural Water Supply III Project	1997	SAPS Team		-				
8.	Interim Report for Special Assistance for Projects Sustainability for the Rural Water Supply III Project (SAPS)	1997	SAPS Team		-				

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9. Participatory Action Vitaning for the Development of Two 185 Paject 10. Water and Sanitation for All: A World Priority Activevenents and Challenges 11. Community Organizers' Manual, Part I 12. A Handbook on Community Development 11. Community Organizers' Manual, Part I 13. Achieving Success in Community Development 11. Landbook on Community Development 11. Landbook on Community Organizing for Water Sanitation 15. Deaff Final Report for Special Assistance for Pajects Systanishility for the Rural Water Supply III Project 16. A Manual on Community Participation in Water Supply III Project 17. Achieving Success in Community Water Supply and Sanitation Report for Manual on Community Water Supply and Sanitation Report for Special Assistance for Pajects Systanishility for the Rural Water Supply and Sanitation Report for Special Assistance for Pajects Systanishility for the Rural Water Supply and Sanitation Report for Pajects 18. Community Development Manual 1980 WIIO 1980 WII	No.	Title	Year	Source	G	Ĉ	R	-	M	BT
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7. Regional Memorandums Feb. 1997 DILG Philippine Plan for Gender Development 1995-2025 NCRFW Philippine Country Report on Women Sept. 1995 NCRFW NCRFW NCRFW NCRFW IX. FINANCIAL 1. Annual Investment Plans, Southern Leyte PPDO Family Income and Expenditures Survey Vol. I Sept. 1994 NSO DILG PDO DILG POD DILG DILG PDO DILG PDO DILG DILG PDO DILG DILG DILG DILG DILG DILG DILG DILG POD DILG DI	5.	United Nations Decade for Women	1976-1985		-					
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3. Family Income and Expenditures Survey Vol. II 1994 NSO 4. DH.G Memorandum Circular 96-263 1996 DH.G	1.	Annual Investment Plans, Southern Leyte		PPDO				-		
4. DH.G Memorandum Circular 96-263 1996 DH.G	2.	Family Income and Expenditures Survey Vol. I	1994	NSO		=				
	3.	Family Income and Expenditures Survey Vol. II	1994	NSO						
5. Presidential Decree 1914 (MDF) 1984 OP	4.	DH.G Memorandum Circular 96-263	1996	DII.G						
	5.	Presidential Decree 1914 (MDF)	1984	OP						

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No.	Title	Year	Source	G	C	R	P	M	B
6.	Joint Circular No. 6-87	Aug. 1987	DBM						
	LeyteAccomplishment Reports, 1993-1996	1993-1996	PPDO				•		
	Statement of Income-Expenditures of Municipalities		OGTS					16	

Legend:

ADB - Asian Development Bank

BRC - Bureau of Research and Standards

CSWCD - College of Social Work and Community Development

DCD - Department of Community Development

DEO - District Engineer Office

DILG - Department of Interior and Local Government

DOH - Department of Health

DOP1 - Development Options Philippines, Inc.

DPWH - Department of Works and Highways

IBRD - International Bank for Reconstruction and Development

LGU - Local Government Unit

LWUA - Local Water Utilities Administration

NAMRIA - National Mapping & Resource Information Authority

NCRFW - National Commission in the Role of Filipino Women

NEDA - National Economic Development Authority

NSCB - National Statistical Coordination Board

NSO - National Statistics Office

NWRB - National Water Resource Bureau

NWRC - National Water Resource Council

OP - Office of the President

PCSD - Philippine Counsel for Sustainable Development

PIC - Project Implementation Consultants

PPDO - Provincial Planning and Development Office

PROWWESS - Promotion of the Role of Women in Water,

Environmental and Sanitation Sources

SIDA - Swedish International Development Cooperation Agency

UN - United Nations

UNIFEC - United Nations International Children's Fund

UNDP - United Nations Development Project

UP - University of the Philippines

WATSAN - Water and Sanitation

WB - World Bank

WHO - World Health Organization

WSCC-WG/U - Water Supply & Sanitation Collaborative

Council-Working Group on Urbanization

G - Global

C - Central Government Level

R - Regional Government Level

P - Provincial Level

M - Municipal Level

B - Barangay Level

1.4 Acknowledgement

Table 1.4.1 List of Persons and Institutions Who Participated in the Preparation of PW4SP

	Name	Position	Office
Provincial	Provincial Sector Planning Team:		
1. Ms. V	Ms. Virginia Cruz-Lim	Prov'l. Planning Dev't. Coordinator	Provincial Planning & Dev't. Office
2. Ms. V	Ms. Virginia M. Maitem	Project Development Officer I	Provincial Planning & Dev't. Office
3. Ms. C	Ms. Catalina T. Samaco	Statistician	Provincial Planning & Dev't. Office
4. Mr. Jo	Mr. Joel J. Leonor	Clerk I	Provincial Planning & Dev't. Office
5. Engr.	Engr. Nelson G. Tan	Engineer II	Provincial Engineering Office
6. Mr. O	Mr. Otilio B. Roa, Jr.	Engineer	Provincial Engineering Office
7. Ms. M	Ms. Ma. Lutgarda Rosales-Rubio	Sanitary Engineer	Provincial Health Office
8. Ms. R	Ms. Rizalina A. Icamen	LGOOU	DILG, Southern Leyte
Water Sup,	Water Supply and Sanitation - Project Management Office:		
1. Ms. El	Ms. Ellen I. Pascua	Program Manager	WSS-PMO, DILG
2. Mr. Ro	Mr. Rogelio B. Ocampo	Chief, Planning Division	- op -
3. Ms. Fe	Ms. Fe Crisilla M. Banluta	PW4SP Project Officer	- op -
4. Ms. Su	Ms. Susan C. Mangoda	Area Coordinator	- do -

2. PLANNING APPROACH FOR FUTURE SECTOR DEVELOPMENT

2.6 Planning Principles and Data Management

2.6.1 Planning Principles

B-4 Composition of Figures and Tables by Chapter/Section

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Annex 1 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.

- 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 software 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

UPS 450 watts

2. SYSTEM REQUIREMENTS

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

Hardware:		Software:	
Computer:	Pentium Series	Operating System:	Window 95/98
RAM:	32 MB (minimum)	Windows Package:	MS-Office 97
Hard Disk:	3 GB (minimum)	Spreadsheet:	MS-Excel 97
Floppy Drive:	3.5 inch, High Density	Word Processing:	MS-Word 97
Monitor:	VGA Monitor		
Printer:	80 column (Can handle A4 size paper).		
Mouse:	Any brand that supported by MS-Windows		
Miscellaneous	500 watts Automatic Voltage		
	Regulator and Surge Protect	ctor	

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 easy 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.

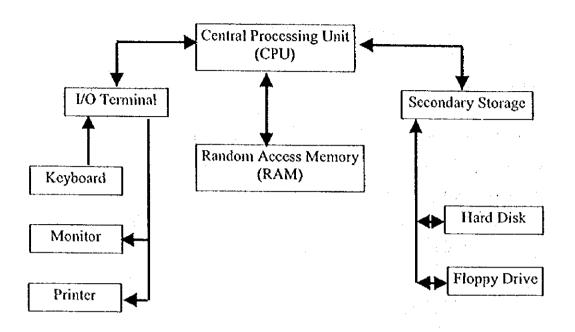
A microcomputer hardware is made up of several components based on the functions they perform in the system and how they interact with the other components.

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 (monitors, 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 device, 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.



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 5.25 inches diskette 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 users.

Hard disk is made of magnetic metal, and can either be removable or non-removable. The most common type of hard disk that is found in personal computer today is non-removable. This disk typically holds from 10 megabytes to 3.2 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 software.

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 common types of printers are dot matrix, inkjet and laser printer. The dot matrix printer produces its image by printing a group of dots that form the image of a character or symbol. The inkjet printer is similar to the impact dot matrix printer, instead of using the pin impact force to create an image it use ink bubble to create similar image. The inkjet printer is much lighter and quiet than the impact dot matrix printer. Today, it is the popular choice due to it characteristic and wide availability of selection. The laser printer produces its image by means of electrophotograph similar to the principle of photocopy machine. The image produced in the laser printer is much crispier than the inkjet printer due the high-resolution capability. Both the inkjet and laser printer can produce color print.

4. OPERATING SYSTEM

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Operating systems is a set of control program that manages the computer's resources and creates a well-defined software environment for computer applications. Computer hardware by itself can perform little useful work. A computer requires 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 hardware 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-Word, Excel, Power Point, Access, etc.

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 that 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.

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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, software is needed. Various software are available for different purposes, such as MS-Word for word processing, Excel for spreadsheet, Power Point for presentation, Access for database and Foxpro for database programming.

5.1. MS-WINDOWS

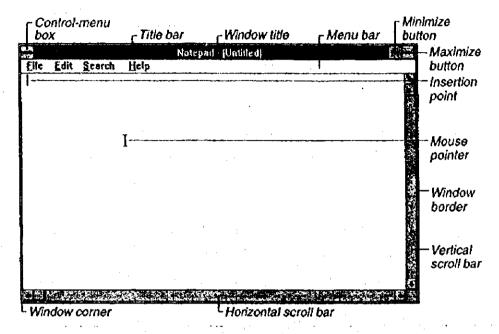
MS-Windows is the most popular operating system, it duplicates all the function performed by DOS, the defunct operating system of the seventies and eighties. The capability of MS-Window operating system far exceeds that DOS can offer it most convenient and easy to navigate. Most of the commands are represented by descriptive figures called *icons*. Navigating around the windows could be achieved through the use of a pointing device called mouse, normally in the desktop environment, the mouse pointer is seen as outline of an arrow or white arrow. 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 or double click the left 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 command. 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.

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.

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 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.

- 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

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	Name	Function
	New Workbook	Creates a new workbook
	Open	Opens a document
	Save	Saves the active workbook
	Print	Prints the active workbook
B	Print Preview	Shows the active document in print preview mode
ARC	Speller	Checks the spelling of the document
[X]	Cut	Cuts the selection to the Clipboard
	Сору	Copies the selection to the Clipboard
(B)	Paste	Places the Clipboard contents at the insertion point

Button	Name	Function
S	Format Painter	Copies and pastes formats for cells and objects
[5]	Undo	Undoes the last action or command
[2]	Repeat	Repeats the last action or command; this is the same as the redo feature in Word 6
Σ	AutoSum	Inserts the SUM function and shows sum range
f_{∞}	Function Wizard	Starts the Function Wizard
À	Sort Ascending	Sorts selected rows in ascending order
Z	Sort Descending	Sorts selected rows in descending order
كثد	ChartWizard	Activates the ChartWizard
	Text Box	Inserts text or text box
	Drawing	Turns the drawing toolbar on or off
100% ±	Zoom Control	Sets the view of the document
Ş	Tip Wizard	Turns the TipWizard toolbar on or off

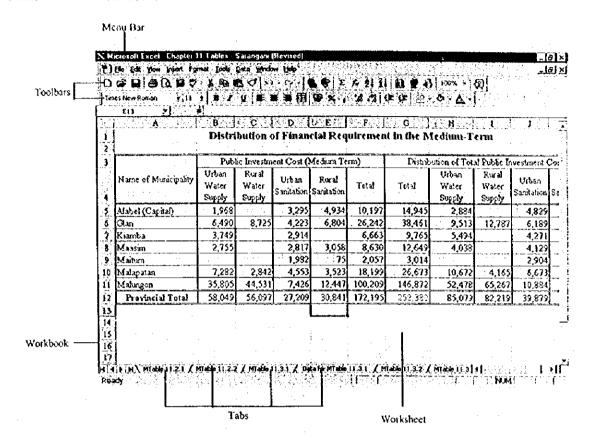
Button	Name	Function
\(\text{\text{\text{\text{\general}}}\)	Help	Displays Help
Arial 👲	Font	Sets the font for the selection
10 ±	Font Size	Sets the font size for the selection
В	Bold	Boldfaces the selection
	Italic	Italicizes the selection
Π	Underline	Underlines the selection
	Align Left	Left-aligns the selection
=	Center	Centers the selection
	Align Right	Right-aligns the selection
	Center Across Columns	Centers the selection across columns
\$	Currency Style	Changes the selected cells to default currency style
"%"	Percent Style	Changes the selected cells to default percent style
,	Comma Style	Changes the selected cells to default comma style

Button	Name	Function
(0.0 (00.	Increase Decimal	Adds one decimal place to the number format
00.	Decrease Decimal	Removes one decimal place from the number format
[;;] +]	Borders	Enables you to select a border for the selection
② 1±	Color	Sets the color for the selection
Tmt	Font Color	Sets the color for the selected font



Basic Part of Excel Screen

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MS-Excel Basic Operation

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.

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

- 1. 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 BNTBR or move the mouse pointer to the Formula bar and click the Check icon.

Editing Cell Contents

- 1. 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

- 1. 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.

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.
- 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

- 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

- 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.
- 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.
- 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.
- 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.
- 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.

Copying sheets within a workbook

- 1. Select the sheet or sheets you want to copy.
- 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.
- 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

- 1. 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.

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

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.

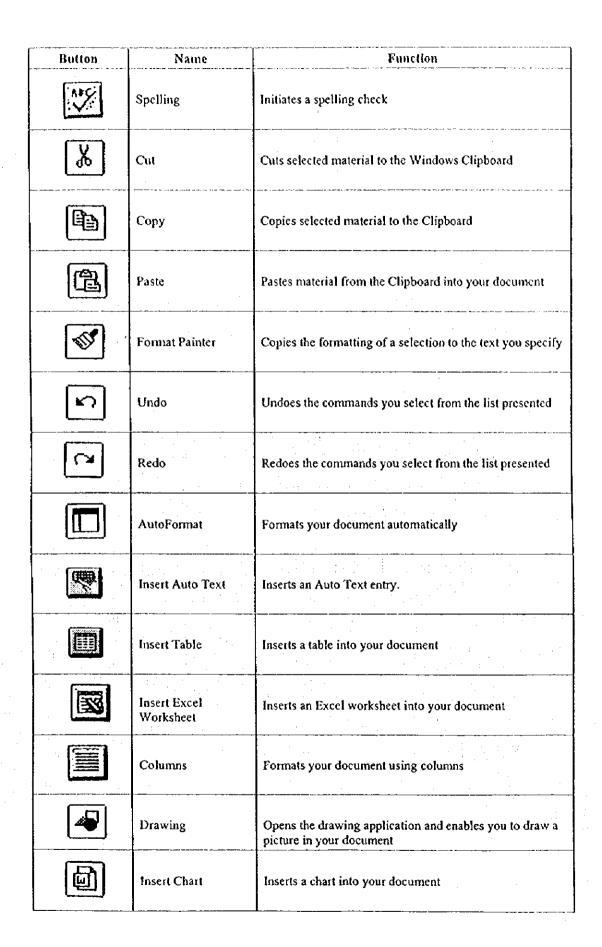
 The MS-Word environment will normally terminate. In some cases, if some active documents has not yet been save. MS-Word give the user's option to save the documents.

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.

MS Word Standard Toolbar

Button	Name	Function
	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 current document
	Print	Prints the current document
[À	Print Preview	Activates Word's print preview features



Button	Name	Function
100%	Zoom Control	Scales your view of the document by the percentage you select
X	Help	Activates context-sensitive help

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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

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 Before 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 At 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.

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.
- 4. 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

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- 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.

6. PW4SP DATA FILES

Data files are collection of information relevant 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-economic.xls)
 - a) Municipal/City Status and No. of Barangays (Muncity Status (P.1.1))
 - b) Past Population (Past Population (P.1.2.1) & (P.1.2.2))
 - c) Projected Population (Projected Population (P.1.3.1) & (P.1.3.2))
 - d) Household (Household) (P.1.4))
 - e) Services (Services (P.1.5))
 - f) Occupation (Occupation (P.1.6))
 - g) Family Income (Family Income (P.1.7))
 - h) Expenditure (Expenditure (P.1.8))
 - i) Education (Education (P.1.9))

2. Land Use Data (Landuse.xls)

a) Existing Land Use (Existing Land Use (P.1.2.1))

- b) Future Land Use (Future Land Use (P.2.2))
- 3. Health Data (Health.xls)
 - a) Morbidity, Mortality and Infant Mortality (Morbidity and Mortality (P.3.1))
 - b) Facility (Facility (P.3.2))
 - c) Practitioner (Practitioner (P.2.2))
- 4. Water Resource Data (Water Source.xls)
 - a) General Information (Gen. Info (P.4.1))
 - b) Water Source Information (Source Info (P.4.2))
- 5. Water Supply Systems Data (Water Supply.xls)
 - a) Level I Facility (Level I (P.5.1))
 - b) Level II System (Level II (8.5.2.1) & (8.5.2.2))
 - c) Level III System (Level III (8.5.3.1), (8.5.3.2), (8.5.3.3) & (8.5.3.4))
- 6. Environmental Sanitation Data (Sanitation,xls)
 - a) Household Toilets (Household Toilets (P.6.1))
 - b) School & Student (School & Student (P.6.2))
 - c) School Toilet (School Toilet (P.6.3))
 - d) Public Toilet (Public Toilet (P.6.4.1), (P.6.4.2) & (P.6.4.3))
 - e) Drainage Facility (Drainage Facility (P.6.5))
 - f) Solid Waste Collection and Disposal ((M) Solid Waste)
- 7. Investment Data (Investment.xls)
 - a) Income & Expenditure (P.7.1)
 - b) Past IRA (P.7.2)
 - c) Available Funds for Capital Expenditure (P.7.3)
 - d) Sector Previous Investment (P.7.4)
 - e) Sector Allocation in the AIP (P.7.5)
 - f) Allocation of the 20% Dev. Fund (P.7.6)
 - g) Financial Indicator of WD (P.7.7)
 - h) Loan Status of WD (P.7.8)
 - i) Affordability in Water & Sanitation Services (P.7.9)
- 6.2. Key Parameter
 - 1. Key Parameters (Key Parameter.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 (chapter-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)
- 1) 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 (chapter-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)
- i) 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 Municipality (STable 4.1.5)
- o) 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 (chapter-6.xls)

- a) Actual Income and Expenditures, (MTable 6.2.1)
- b) Internal Revenue Allotment to the Province (MTable 6.2.2)
- c) Allotted Funds for Capital Expenditures (20% DF) (MTable 6.2.3)
- d) Actual Amount of Sector Investment to the Province by Concerned Agencies (MTable 6.3.1)
- e) Annual Investment Plan 1995-1999 (MTable 6.3.2)
- f) Sector Allocation in the Annual Investment Plan (MTable 6.3.3)

- g) Allocation of the 20% Development Fund (MTable 6.3.4)
- h) Financial Indicators of Provincial/Municipal Waterworks in the Province (MTable6.4.1)
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- j) Affordability in Water Supply and Sanitation Services (Mtable 6.6.1)
- k) Income and Expenditure (STable 6.2.1)
- 1) Past Internal Revenue Allotment for the Province (STable 6.2.2)

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- 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)
- 1) 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 (chapter-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)
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- 5) Base Year Service Coverage of Municipal Solid Waste System in 1994 (MTable 8.2.5)
- 6) Regional Population Project (MTable 8.3.1)
- 7) Municipal/City Population Projection (MTable 8.3.2)
- 8) Municipal/City Population for the Year 2010 & Growth Rates (MTable 8.3.3)
- 9) Past and Projected Population by Current Municipality/City (MTable 8,3.4)
- 10) Past and Projected Population by Urban and Rural Area of Current Municipality/City (MTable 8.3.5)
- 11) Projected Public School Enrollment and Number of Public Utility by Municipality (MTable 8.3.6)
- 12) Population to be Served by Target Year (Water Supply) (MTable 8.5.1)
- 13) Additional Number of Households to be Served by Target Year (Household Toilets) (MTable 8.5.2)
- 14) Additional Number of Public School Student to be Served by Target Year (School Toilets) (MTable 8.5.3)
- 15) Additional Number of Public Utilities with Sanitary Toilets by Target Year (MTable 8.5.4)
- 16) Population to be Served by Urban Sewerage in Phase II (MTable 8.5.5)
- 17) Additional Number of Urban Households to be Served by Municipal Solid Waste System in Phase I (MTable 8.5.6)
- 18) Water Supply Facilities Required by Target Year (MTable 8.6.1)
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- 20) Number of Garbage Collection Trucks Required in Phase I (MTable 8.6.3)
- 21) Estimation of Base Year Service Coverage of Water Supply (STable 8.2.1)
- 22) Population Coverage in Phase I Provided by Served Population in the Base Year (STable 8.2.2)
- 23) Number of Households Served by Sanitary Toilets in the Base Year (1994)(STable 8.2.3)
- 24) Number of Public School Student Served by School Toilets in the

- Base Year (STable 8.2.4)
- 25) Number of Public Utilities with Sanitary Toilets in the Base Year (1994) (STable 8.2.5)
- 26) Households Coverage in Phase I Provided by Existing Facilities in the Base Year (Household Toilets) (STable 8.2.6)
- 27) Public School and Public Coverage in Phase I Provided by Existing Facilities in the Base Year (STable 8.2.7)
- 28) Census Population and Projected Population (STable 8.3.3)
- 29) Municipal/City Population Projection (STable 8.3.4)
- 30) Municipal/City Population for the Year 2010 and Estimate Growth Rates (STable 8.3.5)
- 31) Past and Projected Population by Current Municipality/City (STable 8.3.6)
- 32) Past Population Development by Urban and Rural Area (STable 8.3.7)
- 33) Population Projected by Urban and Rural Area (STable 8.3.8)
- 34) Past and Projected Popualation by Urban and Rural Area of Current Municipality/City (STable 8.3.9)
- 35) Projected School Enrollment by Municipality by Target Year (STable 8.3.6)
- 36) Projected Number of Public Utilities by Municipality by Target Year (STable 8.3.7)
- 37) Population to be Served by Level II System in Phase I (STable 8.5.1)
- 38) Population to be Served in Phase I (Water Supply) (STable 8.5.2)
- 39) Population to be Served in Phase II (Water Supply) (STable 8.5.3)
- 40) Additional Number of Households to be Served in Phase I (Household Toilets) (STable 8.5.4)
- 41) Additional Number of Households to be Served in Phase II (Household Toilets) (STable 8.5.5)
- 42) Additional Number of Public School Students to be Served in Phase I and II (School Toilets) (STable 8.5.6)
- 43) Additional Number of Public Utilities with Sanitary Toilets in Phase I and II (STable 8.5.7)
- 44) Urban Water Supply Facilities Required by Target Year (STable 8.6.1)
- 45) Plan for Expansion of Existing Level III System (STable 8.6.2)
- 46) Rural Water Supply Facilities Required by Target Year (STable 8.6.3)(a)
- 47) Rural Water Supply Facilities Required by Target Year (STable 8.6.3)(b)
- 48) Urban Household Toilets Required by Target Year (STable 8.6.4)
- 49) Rural Household Toilet Required by Target Year (STable 8.6.5)
- 50) Public School Toilets Required by Target Year (STable 8.6.6)
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6) Cost Estimates for Future Sector Development (chapter-10.xls)

- a) Price of Major Materials by Facilities (MTable 10.2.1)
- b) Construction Cost of Water Supply Facilities Required for Phase I (2003) (MTable 10.3.1)
- c) Breakdown of Community Development and Training Cost (MTable 10.4.1)
- d) Unit Cost of Level I (Gravel Packed Deep Well 40m Depth) (STable 10.2.2a)
- e) Unit Cost of Level I (Natural Gravel Packed Deep Well-40m Depth)(STable 10.2.2.b)
- f) Unit Cost of Level I (Gravel Packed Deep Well 80m Depth) (S'fable 10.2.3.a)
- g) Unit Cost of Level I (Natural Gravel Packed Deep Well-80m Depth)(STable 10.2.3.b)
- h) Unit Cost of Level I (Gravel Packed Deep Well 120 Depth) (STable 10.2.4)
- i) Unit Cost of Level I(Natural Gravel Packed Deep Well-120m Depth)(STable 10.2.4.b)
- j) Unit Cost of Level I (Deep Well Rehabilitation) (STable 10.2.5)

- k) Unit Cost of Level I (Shallow Well 18m Depth) (STable 10.2.6)
- 1) Unit Cost of Level I (Spring Development) (STable 10.2.7)
- m) Unit Cost of Level II (600 Service Population) (STable 10.2.8)
- n) Unit Cost of Level III (5,000 Service Population) (STable 10.2.9)
- o) Unit Cost of Level III (10,000 Service Population) (STable 10.2.10)
- p) Unit Cost of Level III (15,000 Service Population) STable 10.2.11)
- q) Unit Cost of Flush Water Sealed with Septic Tank Toilet (STable 10.2.12)
- r) Unit Cost of Pour Flush with Double Pit Latrine (STable 10.2.13)
- s) Unit Construction Cot of Ventilated Improve Pit Latrine (STable 10.2.14)
- t) Unit Construction Cost of Pit Latrine (STable 10.2.15)
- u) Unit Cost of School Toilet (STable 10.2.16)
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- y) Construction Cost of Water Supply Facilities Required for Phase II (STable 10.3.2)
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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)
- 1) Comprehensive Investment Need Ranking of the Municipalities (STable 11.4.1)
- m) New Cost Sharing Arrangement Between NG and LGUs (MTable 11.5.1)
- n) GOP-Assisted Level I Water Supply and Sanitation Project Cost (MTable 11.5.2)
- o) Cost Sharing for the Project 9Case 1): 1997 Price Level (MTable 11.5.3)
- p) Cost Sharing for the Project (Case 2): (MTable 11.5.4)
- q) Available IRA for GOP-Assisted Level I Water Supply and Sanitation Project for Eligible Municipalities (STable 11.5.1)
- r) Available IRA for GOP-Assisted Urban Sanitation Project for Eligible Municipalities (STable 11.5.2)
- s) Total Available IRA for GOP-Assisted Level I Water Supply and Sanitation Project (STable 11.5.3)
- t) Investment Program of GOP-Assisted Level I Water Supply and Sanitation Project (STable 11.6.1)
- u) O&M Cost for Level I Facilities (STable 11.6.2)
- v) O&M Cost per HH/Month by Facility and Proportion to Monthly Family Income (STable 11.6.3)

- w) Family Income (STable 11.6.4)
- x) O&M Cost for Rural Sanitation (STable 11.6.5)
- y) O&M Cost for Urban Sanitation (STable 11.6.6)

7. DATA FILES LINKAGES

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.

The following table lists the logical connections for each worksheet.

Table 2.6.2 Data File Linkages

		Destination Link			Source Link
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Charter . 3	MT 3 1 1	Outline of City and Municipality	Socio.xls	M 1.2.2	Past Population Page 2
	MT 3.2.1	Current Land Use	Landuse.xls	M 2.1	Existing Landuse
	MF 3.3.1	Distibution of Households by Income Class	Chap-3.xls	ST 3.3.1	Distribution of Household by Income Class
	MF 3.3.2	Population Distribution by Occupation	Chap-3.xls	ST 3.3.2	Gainful Workers by Occupation Group and Major Industry Group
:	MF 3.3.3	Population Distribution by Highest Attaintment of Education	Chap-3.xls	ST 3.3.3	Household Population by Highest Education Attainment
	MT 3.4.1 &	+	Socio.xls	MT 1.2.1	Past Population Page 1
	MIT 5.4.1			M 1.2.2	Past Population Page 2
	MF 3 4 2	Present Pomulation Distribution	Socio.xls	M 1.2.2	Past Population Page 2
	MT 3.4.2	Outline of Urban and Rural Areas in the Province	Chap-3.xls	MT 3.1.1	Outline of City and Municipality
				ST 3.3.2	Education Level and Literacy of Population
			Socio.xls	M 1.2.2	Past Population Page 2
	MT 3 4 3	Households Numbers and Household Sizes	Socio.xls	M 1.4	Household Number
			Chap-3.xls	MT 3.4.2	Outline of Urban and Rural Areas in the Province
·	MT 3.5.1	Number and Rates of Ten Leading Causes of Mobidity, Health.xls Mortality, & Infant Mortality	Health.xls	M3.1	Morbidity and Mortality Summary
	MT 3.5.2	Reported Cases and Deaths of Notifiable Water related Diseases	Health.xls	M3.1	Morbidity and Mortality Summary
	MT 3.6.1	Municipal Solid Waste. Collection and Disposal,	Socio.xls	M 1.4	Household Number
	: :	and Service Coverage	Sanit.xls	M 6.5	Solid Waste Collection and Disposal
			Chap-3.xls	MT 3.3.2	Public Facilities and Services by Municipality
	ST 3.3.1	Number of Family by Income Class by Municipality	Socio.xls	M 1.7	Family Income and Education
	ST 3.3.2	on by Occupation	Socio.xls	M 1.6	Occupation
	ST 3.3.3	Education Level and Literacy of Population	Socio.xls	M 1.7	Family Income and Education
Chapter - 4	MT 4.1.2		Chap-4.xls	ST 4.1.1	Information on Existing Level III Systems
			,	Sheet 1, 3,	
				and 4	

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

continue to next page ...

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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 - 4	MT 4.1.3	Information on Water District Data	Chap-4.xls	ST 4.1.1 Sheet 1 & 4	Infromation on Existing Level III System
	MT 4.1.4	Information on Existing Level II System	Chap-4.xls	ST 4.1.2 Sheet 1 & 2	Existing Level II System
	MT 4.1.5	Estimation of Unserved Population by Municipality	Chap-4.xls	ST 4.1.4	Number of Level I Facilities by Safe and Unsafe Classification
	:			ST 4.1.6 Sheet 1 & 2	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 Sheet 2	Estimation of Population Covered by Safe and Unsafe Source by Municipality
			Socio.xls	M 1.3	Projected 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, 1904
	MT 4.2.2	School Toilets Facilities and Service Coverage, 1994	Sanit .xls	M 6.2	School Toilets
-	MT 4.2.3	Public Toilets Facilities and Service Coverage, 1994	Sanit xls	M 6.3	Public Toilers
	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 I Facilities by Safe and Unsafe	H20Supp.xls Keypar vis	(F) 5.3.1 ST 2.6.5	Level I Facility Level I Safe and Unsafe Percentage
-	ST 4.1.5	Estimation of Unserved Population by Municipality	Socio.xls	M12.2	Past Population Page 2
			Chap-4.xls	ST 4.1.6	Estimation of Population covered by Safe and Unsafe
				ST 4.1.2	Details on Existing Level II System
	:			Sheet 2	
	ST 4.2.1	Sanitation Facilities and Service of Household Toilets by Socio.xls Type, by Municipality, Urban and Rural,		M 1.4	Household Number
		1994	Sanit.xls	M 6.1	Household Toilets
Note: MT - Main F	Report Table,	Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table,			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).

Table 2.6.2 Data File Linkages

Chapter No. Table No. Title Fileaane Tolkefrom Title Fileaane Tolkefrom Title Chap4.xis Sheet 1 Source by Manicipality ST 4.1.6 Estimation of Population Covered by Safe and Unsafe Chap4.xis ST 4.1.5 Estimation of Population Dovered by Safe and Unsafe Chap4.xis ST 4.1.5 Estimation of Population Dovered by Safe and Unsafe Chap4.xis ST 4.1.5 Estimation of Population Dovered by Safe and Unsafe Street 1 Source by Manicipality ST 4.1.5 Estimation of Population Dovered by Safe and Unsafe Chap4.xis ST 4.1.5 Estimation of Unserved Population Dovered by Safe and Unsafe Street 1 Source by Manicipality ST 4.1.5 Estimation of Unserved Population Dovered by Safe and Unsafe Street 1 Source by Manicipality ST 4.1.5 Estimation of Unserved Population Dovered by Safe and Unsafe Street 1 Source Doverage in Place II Safe Year Service Coverage in Water Supply Chap4.xis ST 8.2.1 Population to be Served by Largest Year (Water Supply Chap4.xis NT 8.2.1 Population to be Served by Largest Year (Water Supply Chap4.xis NT 8.2.1 Repulsion Doverage in Place II and II ST 8.2.2 Number of Household to be served by Manicipality Chap4.xis NT 8.2.3 Number of Population by Urban and Raral Area by Manicipality Chap4.xis NT 8.2.3 Number of Households Served Coverage of Water Service Coverage of Household Tolices Chap4.xis NT 8.2.3 Number of Households Served Coverage of Water Service Coverage of Public School Tolices and Service Coverage of Public School Tolices School Tolice Population by Urban and Service Coverage of Public School Tolices and Service C			Destination Link			Source Link
ST 4.1.6 Estimation of Population Covered by Safe and Unsafe Chap-4xils ST 4.1.4 Sheet 1 Source by Municipality ST 4.1.5 ST 4.1.5 Sheet 2 Source by Municipality St 4.1.5 ST 4.1.5 Sheet 2 Source by Municipality St 4.1.5 ST 4.1.5 MT 8.2.1 Provincial Sector Targets Keypar xls ST 2.6.2 MT 8.2.2 Chap-8.xls MT 8.5.1 MT 8.2.2 MT 8.5.5 MT 8.5.5 MT 8.2.3 MT 8.5.5 ST 8.6.6 MT 8.2.3 Base Year Service Coverage of Household Toilets Chap-8.xls MT 8.2.3 MT 8.2.3 Buse Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.2.3 Public Toilets Chap-4.xls MT 8.2.3	Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
ST 4.1.6 Estimation of Population Covered by Safe and Unsafe Chap-4.xls ST 4.1.5	Chapter - 4	ST 4.1.6 Sheet 1	Ē	Chap-4.xls	ST 4.1.4	Number of Level I Facilities by Safe and Unsafe Classification
ST4.1.6 Estimation of Population Covered by Safe and Unsafe Chap-4.xls ST4.1.5				:	ST 4.1.5	Estimation of Unserved Population by Municipality
Sheet 2 Source by Municipality \$T41.6 MT 8.2.1 Provincial Sector Targets Keypar.xls \$T2.6.2 MT 8.2.1 Provincial Sector Targets MT 8.5.1 MT 8.2.2 MT 8.5.5 MT 8.5.5 MT 8.2.2 Base Year Coverage in Water Supply Chap-4.xls MT 8.2.1 MT 8.2.3 Base Year Service Coverage of Household Toilets Chap-8.xls \$T 8.2.3 MT 8.2.3 Base Year Service Coverage of Public School Toilets and Chap-8.xls MT 8.3.1 MT 8.2.4 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1		ST 4.1.6		Chap-4.xls	ST 4.1.5	Estimation of Unserved Population by Municipality
MT 8.2.1 Provincial Sector Targets Silvest 1		Sheet 2	Source by Municipality		,	
MT 8.2.1 Provincial Sector Targets Keypar xls ST 2.6.2 Chap-8.xls MT 8.5.1 MT 8.5.2 MT 8.5.5 MT 8.2.2 Base Year Coverage in Water Supply Chap-4.xls MT 8.5.6 MT 8.2.3 Base Year Service Coverage of Household Toilets Chap-4.xls MT 8.3.1 MT 8.2.4 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1 MT 8.2.4 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1					Sheet 1	Estimation of Population Covered by Sale and Unsale Source by Municipality
MT 8.2.2 Base Year Service Coverage of Household Toilets and Chap-8.xls MT 8.3.1	Chanter - S	MT 8.2.1	Provincial Sector Targets	Keypar.xls	ST 2.6.2	Key Parameter Table.
MT 8.5.2 MT 8.5.2 MT 8.5.5 MT 8.5.6 Base Year Coverage in Water Supply Chap-4.xls MT 8.1.7 Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls WT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls WT 8.3.1 Bush Year Service Coverage of Public School Toilets and Chap-4.xls WT 8.3.1				Chap-8.xls	MT 8.5.1	Population to be served by target year(Water Supply)
Base Year Service Coverage of Household Toilets and Chap-4.xls MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.3 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Bublic Toilets		-			MT 8 5 2	Additional Number of Households to be Served by Target
Base Year Coverage in Water Supply Base Year Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls Base Year Service Coverage of Public School Toilets and Chap-4.xls Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 WIT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 WIT 8.3.1	·	- :				Year(Household Toilets)
Base Year Coverage in Water Supply Chap-4.xls ST 8.5.6 ST 8.5.7 Chap-4.xls MT 4.1.7 Chap-8.xls ST 8.2.1 MT 8.3.1 Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls WT 8.3.1 WT 8.3.1 Public Toilets MT 4.2.3 Public Toilets					MT 8.5.5	Population to be Served in Urban Sewerage in Phase II
Base Year Coverage in Water Supply Chap-4.xls MT 4.1.7 Chap-8.xls ST 8.2.1 Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 WIT 8.3.1				:	MTSSK	Add! No of Urban Households to be served by Municipal
Base Year Coverage in Water Supply Chap-8.xls Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 Public Toilets WIT 4.2.3 Public Toilets						Solid Waste System in Phase I
Base Year Coverage in Water Supply Chap-4.xls MT 4.1.7 Chap-8.xls ST 8.2.1 Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1 MT 8.3.1					ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases
Base Year Coverage in Water Supply Chap-4.xls MT 4.1.7 Chap-8.xls ST 8.2.1 Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls WIT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 8.3.1 MT 8.3.1	===					I and II
Base Year Coverage in Water Supply Chap-8.xls Chap-8.xls MT 4.1.7 Chap-8.xls ST 8.2.1 MT 8.3.1 Base Year Service Coverage of Household Toilets Chap-8.xls MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls Public Toilets MT 4.2.3 Public Toilets					ST 8.6.6	Public School Toilers Required by Target Year
Base Year Service Coverage of Household Toilets Base Year Service Coverage of Household Toilets Base Year Service Coverage of Public School Toilets and Chap-4.xls Public Toilets MT 8.3.1 MT 8.3.1		MT 8.2.2	Base Year Coverage in Water Supply	Chap-4.xls	MT 4.1.7	Water Supply Service Coverage by Municipality
Base Year Service Coverage of Household Toilets Chap-8.xls ST 8.2.3 MT 8.3.1 MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets				Chap-8.xls	ST 8.2.1	Estimation of Base Year Service Coverage of Water
MT 8.3.1 Base Year Service Coverage of Household Toilets Chap-8.xls ST 8.2.3 MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets		_				Supply
Base Year Service Coverage of Household Toilets Chap-8.xls ST 8.2.3 MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets					MT 8.3.1	Future Population by Urban and Rural Area by
Base Year Service Coverage of Household Toilets Chap-8.xls ST 8.2.3 MT 8.3.1 Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets					:	Municipality
Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets		MT 8.2.3	Base Year Service Coverage of Household Toilets	Chap-8.xls	ST 8.2.3	Number of Households Served by Sanitary Toilets in the
Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets						Base Year(1994)
Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets					MT 8.3.1	Future Population by Urban and Rural Area by
Base Year Service Coverage of Public School Toilets and Chap-4.xls MT 4.2.3 Public Toilets						Municipality
Public Toilets		MT 8.2.4	vice Coverag	Chap-4.xls	MT 4.2.3	School Toiler Facilities and Service Coverage in 1994
			Public Toilets			

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 2.6.2 Data File Linkages

		Destination Link			Source Link
Chanter No.	Toble No.	Title	Filename	Table/Form	Tride
Chapter - 8	MT 8.2.4	Base Year Service Coverage of Public School Toilets and Chap-8.xls	Chap-8.x1s	ST 8.2.4	Number of Public School Students Served by School Toilets in the Base Year (1994)
		rubilo 1 Oliens		ST 8.2.7	Public School Students and Public Utilines Coverage in Phase I Provided by Existing Facilities in the Base Year
	MT 8.2.5	ce Coverage of Municipal Solid Waste	Chap-3.xls	MT 3.6.1	Municipal Solid Waste Collection and Disposal, and Service Coverage, 1994
	: .	System in 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	ation by Urban and Rural Area by	Socio.xls	M 1.2.2	Past Population Page 2
		Municipality	:	M 1.3	Projected Population
	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		ST 8.3.7	Projected No. of Public Utilities by Municipality by
					Target 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	Chap-8.xls	ST 8.5.4	Additional Number of Households to be Served in Phase Whomehold Toilers)
		Target Y car(housenoid tollets)		ST 8.5.5	Additional Number of Households to be Served in Phase
	MT 8.5.3	Additional Number of Public School Students to be	Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target
	:	Served by target Year(School Toilets)		ST 8 5 K	Additional Number of Public School Students to be
-				0.0.0	Served in Phases I and II(School Toilers)
	MT 8.5.4	Additional Number of Public Utilities with Sanitary	Chap-8.xls	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases 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.	epon Table.	MF - Main Report Figure, ST - Supporting Report Table,			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).

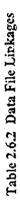
Table 2.6.2 Data File Linkages

		Destination Link			Source Link
Chapter No.	Table No.	Tribe	Filename	Table/Form Number	Title
Chapter - 8	MT 8.5.5	Population to be Served by Urban Sewerage in Phase II	Chap-8.xls	MT 8.5.1	Population to be Served by Target Year(Water Supply)
	MT 8.5.6	Add's No. of Urban Households to be Served by Municipal Solid Waste System in Phase 1	Chap-8.xis	MT 8.2.1	Provincial Sector Targets
				MT 8.2.5	Base Year Service Coverage of Municipal Solid Waste System in 1994
			Chap-8.xls	ST 8.3.5	Projected No. of Households by Urban and Rural Area by Municipality by Target Year
	MT 8.6.1	Water Supply Facilities Required by Target Year	Chap-8.xls	ST 8.6.1	Urban Water Supply Facilities Required by Target Year
				ST 8.6.3	Rural Water Supply Facilities Required by Target Year
	MT 8.6.2	Sanitation Facilities Required by Target Year	Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality
				MT 8.5.2	Additional No. of Household to be Served by Target Year(Household Toilets)
:				ST 8.5.7	Number of Public Unlines with Sanitary Toilets in Phases I and II
				ST 8.6.6	Public School Toilets Required by Target Year
	MT 8.6.3	Number of Garbage Collection Trucks Required in Phase I	Chap-8.xls	MT 8.5.6	Add'l No. of Urban Households to be Served by Municipal Solid Waste System in Phase 1
	ST 8.2.1	Estimation of Base Year Service Coverage of Water Sumly	Chap 4.xls	MT 4.1.7	Water Supply Serveice Coverage by Municipality
	· ·		Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality
	ST 8.2.2	Population Coverage in Phase I Provided by Served Population in the Base Year (Water Supply)	Chap-8.xls	MT 8.2.2	Base Year Coverage in Water Supply
	·			MT 8.3.1	Future Population by Urban and Rural Area by Municipality
:	ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year (1994)	Chap-4.xls	ST 4.2.1	Sanitation Facilities and Service of Household Toilets by Type, by Municipality, Urban and Rural, 1994
	-		Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality
Note: MT - Main Report Table,	II .	MF - Main Report Figure, ST - Supporting Report Table,			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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		Destination Link			Source Link
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	ST 8.2.3	Number of Households Served by Sanitary Toilets in the Chap-8.xls	Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.2.4	Number of Public School Students Served by School	Chap-4.xls	MT 4.2.3	School Toilets Facilities and Service Coverage, 1994
		Tolices in the base 1 cal(1774)	Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target
	ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the	Chap-4.xls	MT 4.2.3	Public Toilers Facilities and Service Coverage, 1994
	ST 8.2.6	Household Coverage in Phase I Provided by Existing Facilities in the Base Year (Household Toilets)	Socio.xls	M 1.4	Household Number
	-		Chan-8 xls	MT 8.2.3	Base Year Service Coverage of Household Toilets
				ST 8.2.3	Number of Households Served by Santary Toilers in the
				ST 8.3.5	Projected Number of Households by Urban and Rural
	ST 8.2.7	Public School Students and Public Utilities Coverage in	Chap-8.xls	ST 8.2.4	Number of Public School Students Served by School
	•	Phase I Provided by Existing Facilities in the Base Year		ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the
				ST 8.3.6	Base Year (1994) Projected School Enrollment by Municipality by Target
	:				Year
				ST 8.3.7	Projected No. of Public Utilities by Municipality by Target Year
	ST 8.3.5	Projected Number of Households by Urban and	Socio.xls	M 1.2.2	Past Population Page 2
		Rural Area by Municipality by Target Year	 	M 1.3	Projected Population Household Number
	ST 8.3.6	Projected School Enrollment by Municipality by	Socio.xls	M 1.2.2	Past Population Page 2
		Target Year		M 1.3	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 Tollets in the Base Year (1994)
And Table	Apport Table	ME. Main Report Figure ST - Supporting Report Table,			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 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 II System in	Socio.xls	M 1.1	Administrative Composition
	:	Phase I	Chap-8.xls	ST 8.3.5	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	M 1.3	Projected Population
			Chap-8.xls	MT 8.2.2	Base Year Coverage in Water Supply
				ST 8.5.1	Population to be Served by Level II System in Phase I
	ST 8.5.3	Population to be Served in Phase II(Water Supply)	Socio.xls	M 1.3	Projected Population
	!		Chap-8.xls	ST 8.5.2	Population to be Served in Phase I (Water Supply)
	ST 8.5.4	Additional Number of Households to be Served in Phase (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 Chap-8.xls	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
		II(Household Toilets)	:		
				ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Taron Year
				CT O E A	Addisposed Minaham of Mancakalde to be Commed in Observed
				:	Additional Number of nouseholds to be served in Place I(Household Toilers)
==	ST 8.5.6	of Public School Students to be	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
		Served in Phases I and II (School 1011cts)		ST 8.2.4	Number of Public School Students Served by School
					Toilets in the Base Year(1994)
				ST 8.3.6	Projected School Enrollment by Municipality by Target
					Year
~~	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases I and II	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
				ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the
					Base Year (1994)
				ST 8.3.7	Projected Number of Public Utilities by Municipality by Target Year
Note: MT - Main Report Table,	II .	MF - Main Report Figure, ST - Supporting Report Table,			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 2.6.2 Data File Linkages

Chapter No. Title Filterand Table No. Title Title Chapter No. \$1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			Destination Link			Source Link
ST 8.6.1 Urban Water Supply Facilities Required by Target Year Socion3/8 M 1.3	Chapter No	<u> </u>	Title	Filename	Table/Form Number	Title
ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xis ST 8.3.5 ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xis ST 8.3.5 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xis ST 8.6.3 (a) ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xis ST 8.6.3 (a) ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xis ST 8.6.5 ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xis ST 8.6.5 ST 8.6.5 Rubite Cott of Facilities by Twne and Service Level Keypar.xis ST 8.6.5 MT 10.2.1 Unit Cost of Facilities by Twne and Service Level Keypar.xis ST 10.3.1 Municipality Municipality ST 10.3.1 ST 10.3.3 ST 10.3.3 ST 10.3.3 ST 10.3.4 ST 10.3.3 ST 10.3.3 ST 10.3.4 ST 10.3.4 ST 10.3.3 ST 10.3.5 ST 10.3.4 ST 10.3.3 ST 10.3.4 ST 10.3.4 ST 10.3.3 ST 10.3.5 ST 10.3.5 ST 10.3.3 ST 10.3.3 ST 10.3.4 ST 10.3.4 ST 10.3.4 ST 10.3.4 ST 10.3.4 ST 10.3.5 ST 10.3.4 ST 10.3.4 ST 10.3.5 ST 10.	hapter - 8	ST 8.6.1	Water Supply Facilities Required by Target Year	Socio.xls	M 1.3	Projected Population
Chap-4,xis ST 4.1.1 ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8,xis ST 8.3.5 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8,xis ST 8.6.3 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8,xis ST 8.6.3 ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8,xis ST 8.6.3 ST 8.6.5 Public School Toilets Required by Target Year Chap-8,xis ST 8.6.5 ST 8.6.7 Public Toilets Required by Target Year Chap-8,xis ST 8.6.5 ST 8.6.7 Public Toilets Required by Target Year Chap-8,xis ST 8.6.5 MT 10.2.1 Unit Cost of Facilities by Twpe and Service Level Keypar.xis ST 10.3.1 Municipality Municipality ST 10.3.1 ST 10.3.1 ST 10.3.3 ST 10.3.3 ST 10.3.3 ST 10.3.3 ST 10.3.3 ST 10.3.4 ST 10.3.4 ST 10.3.4 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5				Kevpar.xls	ST 2.6.2	Key Parameter Table
Sheet 1 and 3 Chap-8.xls ST 8.3.5 WIT 8.4.1 ST 8.5.2 ST 8.5.3 St. 8.3 St. 8.5.2 ST 8.5.2 ST 8.5.3 St. 8.3 St. 8.3 ST 8.5.2 ST 8.5.3 St. 8.3 St. 8.3 ST 8.3.5 ST 8.5.4 Urban Household Toilets Required by Target Year Chap-8.xls ST 8.5.2 ST 8.5.4 Urban Household Toilets Required by Target Year Chap-8.xls ST 8.5.2 ST 8.5.5 Rural Household Toilets Required by Target Year Chap-8.xls ST 8.5.2 ST 8.5.6 Public School Toilets Required by Target Year Chap-8.xls ST 8.5.5 ST 8.5.7 William School Toilets Required by Target Year Chap-8.xls ST 8.5.5 ST 8.5.7 William School Toilets Required by Target Year Chap-8.xls ST 8.5.5 WIT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 10.3.1 Winnicipality ST 10.3.3 ST 10.3.3 ST 10.3.4 ST 10.3.4 ST 10.3.5 ST 10.3.4 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5 ST 10.3.5		:		Chap-4.xls	ST 4.1.1	Details on Existing Level III Systems
Chap-8.xis ST 8.3.5 ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xis ST 8.3.5 ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xis ST 8.3.5 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xis ST 8.6.3 (a) ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xis ST 8.6.3 (a) ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xis ST 8.6.5 ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xis ST 8.5.5 ST 8.6.7 William Section of Pacilities By Type and Service Level Keypar.xis ST 8.5.5 MT 10.2.1 Unit Cost of Pacilities By Type and Service Level Keypar.xis ST 10.3.1 Municipality ST 10.3.3 ST 10.3.3 ST 10.3.4 ST 10.3.4 ST 10.3.5 ST 10.3.5 ST 10.3.5					Sheet 1 and	:
ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.5.3 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.5.3 ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xls ST 8.6.3 (a) ST 8.6.5 Rural Household Toilets Required by Target Year Chap-8.xls ST 8.6.3 (a) ST 8.6.6 Public School Toilets Required by Target Year Chap-8.xls MT 8.5.2 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 Twne and Service Level Keypar.xls ST 8.5.7 Municipality Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.1 Chap-8.xls ST 10.3.3					3	
MT 84.1 MT 10.3.1 Unit Cost of Facilities by Target Year Chap-8.xls ST 8.5.2			:	Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Kurai
ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.5.3 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.5.1 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 8.6.6 Public School Toilets Required by Target Year Chap-8.xls MT 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 Required by Target Year Chap-8.xls ST 8.5.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.3 Municipality ST 10.3.3 ST 10.3.3					1 0 00	Area by Municipality by 141get 184
ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.3.5 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.5.1 ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xls ST 8.6.3 (a) 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 MT 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 Twee and Service Level Keypar.xls ST 8.5.6 MT 10.2.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.2 ST 10.3.3	٠				N. 1 0.4. 1	Continue water Front and the Phase I (Water Supply)
ST 8.6.3 (a) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 7.6.2 ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.5.1 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 8.6.6 Public School Toilets Required by Target Year Chap-8.xls MT 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 Type and Service Level Keypar.xls ST 8.5.6 MT 10.2.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.1 ST 10.3.2 ST 10.3.2 ST 10.3.4				Change 8 vic	ST 8 5 3	Population to be Served in base If (Water Supply)
ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.6.3 (a) 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 8.6.6 Public School Toilets Required by Target Year Chap-8.xls MT 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 Type and Service Level Keyparxls ST 8.5.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 8.6.7 ST 10.3.3		ST 8.6.3 (a)	Rural Water Supply Facilities Required by Target Year	Chap-7.xls	ST 7.6.2	Standard Specification of Water in the Municipality
ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.6.3 (a) ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xls ST 8.6.3 (a) 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 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 8.5.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.1 ST 10.3.4						
ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.6.3 (a) 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 8.6.6 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 Type and Service Level Keypar.xls ST 8.5.6 MT 10.3.1 Municipality ST 8.6.7 ST 10.3.1 Municipality ST 8.6.7 ST 10.3.3	٠.			Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Rural
ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.6.3 (a) 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 8.6.6 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 Type and Service Level Keypar.xls ST 8.5.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.4				. •		Area by Municipality by Target Year
ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls ST 8.6.3 (a) 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 MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 8.5.6 MT 10.3.1 Construction Cost of Required Facilities by Municipality ST 10.3.1 Municipality ST 10.3.3					MT 8.4.1	Ground Water Productivity
ST 8.6.3 (b) Rural Water Supply Facilities Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.4 Urban Household Toilets Required by Target Year Chap-8.xls MT 8.5.2 ST 8.6.6 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 2.6.6 MT 10.3.1 Municipality ST 10.3.1 Municipality ST 10.3.3 ST 10.3.3 ST 10.3.4					ST 8.5.1	Population to be Served by Level II System in Phase I
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 8.6.6 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 2.6.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.3		ST 8.6.3 (b)	1	Chap-8.xls	ST 8.6.3 (a)	Rural Water Supply Facilities Required by Target Yes
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 2.6.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.3 ST 10.3.3		ST 8.6.4	Urban Household Tollets Required by Target Year	Chap-8.xls	MT 8.5.2	Additional Number of Households to be Served by
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 2.6.6 MT 10.3.1 Municipality ST 10.3.1 Municipality ST 10.3.3 ST 10.3.3 ST 10.3.3 ST 10.3.3						Target Year(Household Toilers)
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 2.6.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.2 ST 10.3.3 ST 10.3.3	4:	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 Toilets)
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 2.6.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.2 ST 10.3.3 ST 10.3.4		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 in Phase I and Phase II (School Tollers)
MT 10.2.1 Unit Cost of Facilities by Type and Service Level Keypar.xls ST 2.6.6 MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.2 ST 10.3.2 ST 10.3.3		ST 8.6.7		Chap-8.xls	ST 8.5.7	Number of Public Utilities with Samitary Toiless in Phases: I and II
MT 10.3.1 Construction Cost of Required Facilities by Chap-10.xls ST 10.3.1 Municipality ST 10.3.2 ST 10.3.3 ST 10.3.3	Thanter - 10	MT 10.2.1	Unit Cost of Facilities by Type and Service Level	Keypar.xls	ST 2.6.6	Unit Construction Cost of Different Facilities
ST 10.3.2 ST 10.3.3 ST 10.3.4		MT 10.3.1	Construction Cost of Required Facilities by Municipality	Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2009)
					ST 10.3.2	Construction Cost of Water Supply Facilities Required for Phase II (2010)
Ī				:	ST 10.3.3	Cost of Sanitation Facilities Required for Plase I (200
					ST 10.3.4	Costs of Sanitation Facilities Required for Phase II (2010)

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

Table 2.6.2 Data File Linkages

	Destination Link		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Source Link	
Table No.	Title	Filename	Table/Form Number	Tide	
H	Recurrent Cost	Keypar.xls	ST 2.6.2	Key Parameter Table	
		Chap-S.xls	MT 8.2.2	Base Year Coverage in Water Supply	
			MT 8.2.4	Base Year Service Coverage of Public School Toilets	
				and Public Toilets	
			ST 8.3.5	Projected Number of Households by Urban and Rural	
				Area by Municipality by Target Year	_
			MT 8.5.1	Population to be Served by Target Year(Water Supply)	
		:	ST 8.6.6	Public School Toilers Required by Target Year	
			ST 8.6.7	Public Toilers Required by Targer Year	
		Chap-11.xls	ST 11.3.1	Percentages for Annual Investments	
ST 10.3.1	Construction Cost of Water Supply Facilities Required	Chap-8.xls	MT 8.5.1	Population to be Served by Target Year(Water Supply)	
	for Phase I (2000)				
			MT 8.6.1	Water Supply Facilities Required by Target Year	
			ST 8.6.3	Number of Garbage Collection Trucks Required in Phase	
		Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level	
ST 10.3.2	Construction of Water Supply Facilities Required for Phase II (2010)	Keypar.xls	ST 2.6.2	Key Parameter Table	
		Chap-8.xls	MT 8.5.1	Population to be Served by Target Year(Water Supply)	
			ST 8.6.3	Number of Garbage Collection Trucks Required in Phase	
		Char-10 vis	MT 10 2 1	I his Cost of Facilities by Type and Service Level	
ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)		\prod	Sanitation Facilities Required by Target Year	
<u>:</u>		. :			
				Public Toilets Required by Target Year	
		Chap-10.xls		Unit Cost of Facilities by Type and Service Level	
ST 10.3.4	Cost of Sanitation Facilities Required for Phase II (2010) Chap-8.xls	Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by	
			MTSSS	Population to be Served by Lithan Sewerage in Phase II	
			0.5.5	ביים ביים ביים ביים ביים ביים ביים ביים	
			MT 8.6.2	Sanitation Facilities Required by Target Year	
MT - Main Report Table.	MF - Main Report Figure, ST - Supporting Report Table,			continue to next page	

Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report 1able, M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

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	Chap-8.xls	ST 8.6.6 ST 8.6.7	Public School Toilets Required by Target Year Public Toilets Required by Target Year
		(0107)	Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level
Changer - 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 Allorment to the Province from
					Central Government
	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by Component 1996 - 2000	Chap-11.xls	MT 11.2.1	Projected Internal Revenue Allotment for Medium - 1 em 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
		Province	į	CT 11 3 1	Phase II (2010)
			Chap-11.xis	31 11.5.1	referrance to Amina mycomicano
	MT 11.3.2	Additional Fund Requirement for the Medium-Term Plan Chap-11 x1s	Chap-11.xls	MT 11.3.1	Financing Requirements by Sector Component for the Province
	MT 11.3.3	Internal Revenue Allotment for Water Supply and Sanitation Sector by Municipality (Medium-Term	Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2000)
		Development / 1996-2000)		ST 10.3.3	Cost of Sanitation Facilities Required for Phase J (2000)
. :			Chap-11.xls	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by
					Component 1996 - 2000
				MT 11.3.1	Financing Requirements by Sector Component for the
				MT 11.4.2	Distribution of Provincial IRA to Municipalities for
					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 Urban Water Supply
-		Aiddne	Chap-8.xls	ST 8.2.2	Number of Households Served by Sanitary Toilets in the Base Year (1994)
				MT 8.2.2	Base Year Coverage in Water Supply
	MT 11.4.2	Distribution of Provincial IRA to Municipalities for	Chap-11.xls	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by Component 1996 - 2000
Note: Adam Report Table	Coor Toble	MF. Main Report Figure ST. Supporting Report Table.			continue to next page

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

Table 2.6.2 Data File Linkages

		Destination Link			Source Link
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter-11	MT 11.4.2	Distribution of Provincial IRA to Municipalities for Librar Water Sumiy	Chap-4.xls	MT 11.3.1	Financing Requirement by Sector Component for the Province
				MT 11.4.1	Municipal Investment need Ranking for Urban Water Supply
			Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2000)
· · · · · · · · · · · · · · · · · · ·				ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)
	MT 11.4.3	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
	ST 11.4.1	Comprehesive Investment need Ranking of Municipalities	Keypar.xls	ST 2.6.8	Scoring Factor for Municpal Comprehensive Investment Ranking
			Chap-8.xls	ST 8.2.2	Population Coverage in Phase I Provided by Served Population in the Base Year (Water Supply)
				MT 8.2.3	Base Year Service Coverage of Household Toilets
			Chap-11.xls	MT 11.4.1	Municipal investment need Ranking for Urban Water Supply
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