

USER MANUAL

Table of Contents

Introduction to NTP	3
Introduction to TB/DMIS	3
Modules	3
Homepage	4
User login and user privileges	6
Data Entry Operators	6
Reports	8
National Summary Reports	9
Provincial Summary Report	10
District Summary Report	11
Item Availability Report	12
Non-Reported Warehouse Report	13
Graphs	14
Simple Graph Reports	19
LMIS Explorer:	20
Data Entry	21
Data entry screen	22

Introduction to TB Control Program

- 1. The TB Control Program is responsible for overall TB control activities in the country i.e. policy guideline, technical support, coordination, monitoring and evaluation and research
- 2. Provincial TB Control Programs are responsible for the actual care delivery process including program planning, training of care provides, case detection, case management, monitoring and supervision.
- 3. The overall objective of TB Control Program is to reduce mortality, morbidity and disease transmission so that TB no longer a public health problem.
- 4. The National targets are in line with the Millennium Development Goals (MDGs) i.e. to cure 85% of detected new cases of sputum smear positive pulmonary TB and to detect 70% of estimated cases once 85% cure rate is achieved.

Presently, free diagnostic and treatment facilities for TB patients are available all over the country within the public sector health care delivery network. Currently, more than 1150 diagnostic facilities and more than 5000 treatment facilities are available throughout the country. TB Control Program has treated more than 800,000 TB patients since 2001 and 234100 TB cases were treated through the DOTS strategy last year. Case Detection Rates (CDR) has increased from 7% in 2001 to 69% in 2007; whereas Treatment Success Rates (TSR) has increased from 77% in 2001 to 87% in 2006 cohort.

Introduction to TB-DMIS

Modules

- 1. Introduction to TB Control Program
- 2. Introduction to TB-DMIS
- 3. Reports module
- 4. Graphs Modules
- 5. Data entry module

Homepage

The system runs in a web-based environment. Once the user enters the URL <u>http://www.lmis.pc.gov.pk</u>, a website (homepage) will appear such as the one that appears in Figure 1.The homepage displays a basic introduction to the 'Pakistan Logistics Management Information System'. The contents of the homepage are simple and easy to understand for inexperienced or unfamiliar users. This screen is using to login into TB-DMIS.



Figure 1: The LMIS Homepage

There are two options available to user to either enter the TB/DMIS system or the contraceptive logistics system through an option field available above the user name as shown below

Jser Name
assword

Figure 2: The Login

Overview of homepage menu

The available menu items can be found on the left of homepage screen. The components are displayed adjacently in Figure 1. The resources tab leads you to available publications and reporting formats. The resources menu has further submenu of 1. Publications, 2. Tools, 3. Links and 4. Acronyms. The contact us tab contains addresses, telephone numbers and email addresses (where available) for key personnel as a system communication list. Therefore, anyone who uses the LMIS will be able to see contact details of other stakeholders and able to contact them as needed. The menu also contains a frequently asked question tab in order to provide guidance towards the most frequently asked and critical questions



Figure 1: The Homepage Menu

User login and user privileges

The following two types of users except webhost or administrator have the right to login to TB-DMIS. Each user has different rights and privileges which are described below

- 1. Guests
 - a. General Guests
 - b. Province Specific Guests
- 2. Data Entry Operators

Guests

Guests are the users who will login and see reports and graphs. Guests are of two types

General Guest: This type of users will see federal level user interface after logging into TB-DMIS by using username: guest and password guest

Province Specific Users: This type of users will see their province specific user interface after logging into TB-DMIS by using username: *"province name"* and password *"Province Name" e.g. username=punjab and password=punjab.*

Data Entry Operators

In order to log on to the system, you must go to the following web page <u>www.lmis.pc.gov.pk</u>. The user name and password can be following obtained by following the prompt on the website or writing directly to <u>your</u> administrator of TB-DMIS. Once you have successfully logged on, you will be directed to a user page.

User Login	-DMIS.
© Contraceptive © TB-MDR User Name	Insert Username and Password.
Password	
For limited access username: guest and password guest Forgot Password?	d: in

Figure 4: The Login Window

Welcome Screen: Guest

After login following screen will appear:



Figure 6: TB-DMIS Home Page

In welcome screen you can see the Menu bar includes following:

- Reports
- Graphs
- LMIS Explorer
- Logout

Reports

When you point the mouse on the link "Reports" it will show another drop down list which include all Reports of National, Provincial and District level. It also includes Summary Reports, Field Reports and Stock Availability Reports

Figure 7: Tb-DMIS Report Tab

Eile Edit Yiew History Bookmarks Iools Help http://lmis.pc.gov.pk/tbdmis/Cpanel.php + P 🏦 🥐 🔻 ☆ マ C 😽 - G Coanel obna uberculosis **Control Program** List of all Reports. LMIS EX Graphs -Reports Our Partners expectancy is about 63 yrs and the average literacy rate is 50 %. Per capita income is US \$ 492. 6 life 0.08 % while total health sector investment is 3.9 % of GDF United States Agency for International of five provinces besides Islamabad Capital Territory (ICT), Federally Administered Areas (FATA) and the Development(USAID) (AJ&K). The country has a mixed society, which is predominantly Muslims. Urdu is the National language are spoken in the country, however, English is used for most official purposes. Each province/area is http://w w.usaid.gov sic administrative units ON: World Health Organizatio (WHO) WH.O declared TB a global emergency in 1993. Since then efforts have been made to expand partnerships and bring all stakeholders on board in order to control this disease more effectively. The economic conditions correlate with new cases of TB. The highest incidence is seen in those countries of Africa, Asia, and Latin America with the lowest gross national products. WHO estimates that eight million people are infected with TB every year, out of which 95% live in developing countries. An estimated 3 million people die due to TB every yi pc.gov.pk/tbdmis/Cpanel.php# 8 7 **84039**8 y start 000 Figure 8: TB-DMIS Report Types

The link "Reports" will show drop down list which includes:

- National Summary Reports
- Provincial Summary Reports
- District Report
- Stock Availability Report
- Non Reported Districts
- Central/Provincial Warehouse
- Yearly Report
- Quarterly Report

National Summary Reports

The national report provides consumption, <u>average monthly consumption</u>, stock on hand, months of stock by each commodity for a particular month. The data is summed up for all stakeholders in each commodity. The national summary report not only provides the summary statistics but also opens up various options for user to explore further into the data through various links.

Nation	al Report for Septembe	er 2012			
Select Month Satisfactory Under-Stocked Sel Filter by: Month: September Year: 2012 60	ect Year	Click Export PDF	here to Report in Format	ick her ort Repo cel Forr	to ort in nat
Na	tional Penort (Sentembe	- 2012)			-mast
Product	Consumption	АМС	On Hand	MO	5
RHZE (150mg/75mg/400mg/275mg)	3,128,276	3,128,276.0	9,030,:	16 📕	2.9
RH (150mg/75mg)	4,655,708	4,655,708.0	17,600,	92 📕	3.8
RHE(150mg/75mg/275mg)	342,269	342,269.0	1,233,0	800	3.6
S/INJ (1g)	61,043	61,043.0	179,1	91 📕	2.9
D/WATER	46,563	46,563.0	143,	18	3.1
SYRINGE (5ml)	48,652	48,652.0	215,	18	4.4
RHZ (60mg/30mg/150mg)	58,471	58,471.0	146,	129	2.5
RH (60mg/30mg)	99,004	99,004.0	561,	73	5.7

Figure 9: Monthly National Report Page

Provincial Summary Report

As mentioned above, the summary report can also be accessed via the main menu and then can be examined further through the drill down approach of selecting and zoning in the desired data. By clicking on any of the stakeholders listed above, the province wide summary of that particular stakeholder will appear.

Province,	Region Report Septe	mber 2012		
Select Month	Select Year	Select stakeholder	Select Product	
Filter by: Month: September Vear: 2012 St	takeholder: TB Control Pr	ogram Product: Click here to Export Report in PDF Format	RHZE (150mg/75 Export Excel	here to Report in Format
Province/Region Report For Stakeholder(s) = 'TB Con	trol Program' And Produ	ct = 'RHZE (150mg/75mg	/400mg/275mg) ' (Septe	mber 2012)
Province/Region	Consumption	AMC	On Hand	MOS
Punjab	1,810,930	1,810,930.0	3,655,069	2.0
Sindh	733,639	733,639.0	2,886,917	3.9
Khyber Pakhtunkhwa	373,570	373,570.0	2,204,776	5.9
Balochistan	145,400	145,400.0	223,407	1.5
AJK	64,737	64,737.0	60,147	1.5
FATA	UNK	UNK	UNK	UNK
Gilgit Baltistan	UNK	UNK	UNK	UNK
Islamabad	UNK	UNK	UNK	UNK

Figure 10: Provincial Summary Report

District Summary Report

Going further down the chain, the district report can also be accessed directly from main menu or through the drill down approach. The district reports can also be viewed by reviewing the provincial level reports and then selecting a particular district of interest at which point the user will be able to view the district report.

District Report 2013									
Select Month Satisfactory	Ur Select Year	Dut 🗖 Select Regio	n Selec stakehol	t Select der Product	Export				
Filter Month: January Year: 20	013 🝸 Province/Region:	Punjab 💽 Sta	keholder: All 🛛 💌 F	Product: RHZE (150mg/75mg/40	Excel				
Choose skin to apply: Light PDF Export report in PDF									
District Report Fo	or Province/Region = ".	And Product = 'RHZE (1	50mg/75mg/400mg/275	mg) ' (December 2013)					
Districts		Consumption	AMC	On Hand	M05				
Attock					^				
	TB Control Program	UNK	7,989.0	UNK	UNK				
<u>Bahawalnagar</u>									
	TB Control Program	UNK	27,000.0	UNK	инк				
Bahawalpur									
	TB Control Program	UNK	84,219.0	UNK	UNK				
Bhakkar									
	TB Control Program	UNK	32,644.0	UNK	UNK				
Chakwal									
	TR Control Program	IBBK	49 264 0	шк	- INK Y				

Figure 11: District Report

The district report provides district level information on average monthly consumption, stock on hand and months of stock by each commodity in each district.

Item Availability Report



Figure 12: Stock Availability Report

		Non-reporte	ed Warehouses Repor	t for February 2013	
ilter by: Select M	Month: February	Year: 2013 Stake	eholder: TB Control Program V Year Warehouses s	Province/Region: All Select takeholder	Type: All V GO
	Non-reporte	d Warehouses Report	For Stakeholder = 'All' A	nd Province/Region = 'All'	(February 2013)
SNO	Province/Region	District	Stakeholder	WH Type	(, , , , , , , , , , , , , , , , , , ,
		▼		✓	×
l.	Punjab Filter re	esult by anwa Filter	result by tro Filter res	sult by at TB Control Office	Filter result by
	Punjab province	e/region _{di Bal} di	strict tro stakeh	older FB Control Office	warehouse type
	Punjab	Lodhran	TB Control Program	Field TB Control Office	
ł.	Punjab	Khushab	TB Control Program	Field TB Control Office	
	Punjab	Khanewal	TB Control Program	Field TB Control Office	
	Punjab	Kasur	TB Control Program	Field TB Control Office	
	Punjab	Jhelum	TB Control Program	Field TB Control Office	
	Punjab	Jhang	TB Control Program	Field TB Control Office	
	Punjab	Hafizabad	TB Control Program	Field TB Control Office	
0	Punjab	Gujrat	TB Control Program	Field TB Control Office	
1	Punjab	Mianwali	TB Control Program	Field TB Control Office	
2	Punjab	Mianwali	TB Control Program	District TB Control Office	
3	Puniab	Mandi Bahauddin	TB Control Program	District TB Control Office	

Non-Reported Warehouse Report

Figure 15: Non Reported Districts

Graphs

The TB-DMIS also has the capability of generating easy to interpret graphs. Simple and comparative graphs can be viewed by clicking on the "LMIS Report" tab of the main menu. The drop down menu will display: reports, comparison graphs and simple graphs. Once clicking on simple or comparison graphs, the user is directed towards a page from where s/he can choose various options to create graphs.

Graph Comparison Report page includes different filters and select option to compare graphs to generate reports.

By clicking on the Indicator it will give you four options.

- Dispensed
- MOS(Month Of Stock)
- On Hand

Comparison Graphs	Select Indicators
Indicators:	
Consumption 🛛 💌	
Dispensed	
Consumption	
Avg Monthly Consumption	
MOS	
Months Of Stock - Field	
Month of Stock - Whse	
Months of Stock - Total	
OnHand	
Stock On Hand - Field	
Stock On Hand - Whse	
Stock On Hand - Total	

Figure 16: Comparison Graph Indicators Input Tab

By clicking on Compare options. It will give you three options.

- Year
- Stakeholder
- National

	Select Comparison options of
Comparison Graphs	Year, Stakeholder and
Indicators:	Geographical locations with
Consumption 💌	National, Provincial and Districts.
Compare Options	
Year - National	
Years	1
Year-National	
Year - Provincial	
Year - District	
Stakeholder	
Stakeholder - National	
Stakeholder - Provincial	
Stakeholder - District	
Geographical	
Geographical - Provinical	
Geographical - District	

Figure 17: Compare Option In Comparison Graphs

By clicking on Stakeholder it will show the list of all stakeholders to choose one.

Products and Year show multiple options to select. You can choose more than one product and year respectively

By clicking on Time-Interval it shows three options

- Quarter
- Half
- Annual

By clicking on Chart type t shows two options

- Line Chart
- Bar Chart



Figure 18: Comparison Graph Input Tabs

After selecting all options you will click on the button generate Graph Report. It will generate graph according to your selected options. If you select the line graph it will show graph like this.

Comparison	Graphs	Graph Reports
Indicators:		
Consumption		
Compare Options		
Year - National		
Stakeholder :		
All Stakeholders		
Products:		
RHZE (150mg/75mg) RH (150mg/75mg) RHE(150mg/75mg/2 S/INJ (1g) D/WATER	g/400mg/2 A 275mg)	
Time Interval:		
First Quarter		
Years		
2013 2012 2011 2010 2009	After selecting all values click	
Chart Type	here to generate report.	
Line		

Figure 19: Graph Generation Button

If you select line chart it will generate graph like this

Comparison Graphs Indicators:						Grapi	h Rep	orts		Click I graph forma JPG e	here to into d ats like tc	expor ifferer pdf or	t n
Compare Options Year - National			C	RH	ZE (1	50m <u>c</u> -> Yea	g/75n ar - Na	ng/40 Itional	0mg/ -> All	/275n Stake	ng) sholde	rs	:
Stakeholder : All Stakeholders Products: RHZE (150mg/75mg/400mg/2 RH (150mg/75mg)	Units	600,000 480,000 360,000 240,000 120,000	0	0	0	0	0	0	0	1	5	550,000 2	251 00
RHE(150mg/75mg/275mg) S/INJ (1g) D/WATER -		0 NAU	FEB	MAR	APR	MAY		ב 2012	AUG	SEP	OCT	NON	DEC
Annual											120	E LEG	PHC

Figure 20: Line Chart

If you select bar chart it will generate graph like this



Figure 21: Bar Chart

Simple Graph Reports

ome II Graph Reports II Simple Grap	hs	Clic gra for	ck here to export ph into different mats like pdf or
Simple Graphs		Graph Reports JPC	Getc
ndicators: Consumption			
eographical Options			
Provincial 💌	RHZE (<- Consumption	150mg/75mg/400m Provincial -> TB Contro	g/275mg) l Program -> Punjab
takeholder:	210,000		
TB Control Program roducts: RHZE (150mg/75mg/400mg/2 RH (150mg/75mg)	168,000 126,000 84,000 42,000	205,000	123,000
RHE(150mg/75mg/275mg) S/INJ (1g) D/WATER -	ост	NOV	DEC
ime Interval:		2012	
Fourth Quarter			

Figure 22: Simple Graph Report

LMIS Explorer:

In LMIS explorer you can Monthly warehouse generated reports and data. If there is no data, the message will be shown.

Home 🚦 LMIS 🔡 Monthly Warehouse Report

View Monthly Warehouse Report

Month Year		Province		Wharehouse	
AUGUST 🛛 💌	2011 💌	Punjab	*	Attock(DPWO)	Go
No data entered for <i>l</i>	Attock(DPW(D) in August, 2011.	Aft Dat	er filtering results if there is ta.	no

Figure 33: Monthly Warehouse Report

Data Entry

For data entry purpose user has to login as data entry operator. Once logged in, the following screen will appear



The above figure shows four options for the Data entry operator other than reports and graphs available to guest users

- 1. Data entry will needed to be clicked in order to open the data entry screen for monthly reports
- 2. Previous Month reports allows data entry operator to view previous reports
- 3. Change password options could be used to change password
- 4. Logout

Data entry screen

The following screen will appear if a user clicks on data entry



The screen above shows last three reports submitted for the district 'Attock'. Click to enter report for the subsequent month e.g. Jan 2013 as shown below

Tube	erculosis rol Program				C. C		
Data Entry	Previous Months' Report	Reports 🗸	Graphs 👻	LMIS Explorer -	Change Password	Logout	
Welcome:	Attock	onths Report	: Sep-2012,	Aug-2012, Jul-201	L2, Add (Oct-12) Rep New month report	port	

For adding new report click Add (oct-12) Report, which is the due report month as previous reports are already entered.

	Cont	rol Program									_	
Da	ita Entry	Previous Months' Repo	rt Repor	ts 🚽 🛛 Gra	phs 🚽 🛛	LMIS	Explorer 🗸		Change P	assword	Logout	
Wel	come:	Attock										
Ware Ware	ehouse /	Attock 💽 Last Store Name: Attock; N	3 Months R 1onthly Rep	eport: Sep- ort: Oct-20	2012, Au <u>c</u> 12)-20)12, Jul-2()12	, Add (Oc	t-12) Rep	oort	
S.NO	ARTICLE		Opening	Opening balance			Issued		Adjustments		Closing Balance	
			Calculated	Actual					(+)	(-)	Calculated	Actual
1		2	3(C)	3(A)	4		6		7	8	9(C)	9(A)
01	RHZE (150	mg/75mg/400mg/275mg)	199092	199092							199092	199092
02	RH (150mg	g/75mg)	78720	78720							78720	78720
03	RHE(150m	g/75mg/275mg)	8100	8100							8100	8100
04	S/INJ (1g)		1020	1020							1020	1020
05	D/WATER		3180	3180							3180	3180
06	SYRINGE (5ml)	1020	1020							1020	1020
07	RHZ (60mg	g/30mg/150mg)	1030	1030							1030	1030
08	RH (60mg/	'30mg)	2520	2520							2520	2520
			RESET	SAVE								

The data entry form shows the following basic indicators for each product to be entered into the LMIS

- Opening balance: it indicates the balance at the start of each month. Usually, it is equal to closing balance of last month. The TB-DMIS automatically picks up closing balance from last month as opening balance of next month. However, user has the right to change the figure if that is not so. The calculated opening balance is based on calculations from the previous month while the actual balance is based on physical inventory if performed. In most cases, the calculated and actual balance are equal
- 2. Received: it indicates the products received during the specified month
- 3. Issued: it indicates the products issued during the specified month
- 4. Adjustment: An adjustment is a stock which is added or deducted from the stock on hand but is neither received nor issued. A negative adjustment is likely to be due to expiries or damaged stock. A positive adjustment is likely to be due to additional stock being discovered during the physical inventory e.g. previously unaccounted stock lying in the cupboard.
- 5. Closing balance: is calculated by adding and subtracting the received and issued respectively from the opening balance and applying adjustment if any.

Click on reset button at the bottom to reset data entry. Click on save button at the bottom to save the data which has been entered

	Tuberculosis Control Program					Q	GB		
D	ata Entry Previous Months' Repo	rt Repor	ts + Gr	aphs 🚽 🛛 LM1	S Explorer 🗸	Change Pa	issword	Logout	
Nai	rehouse Attock 💽 Last rehouse/ Store Name: Attock; N	3 Months R Ionthly Rep	eport: Sep ort: Sep-2	-2012, Aug-2 012	012, Jul-201	2, Add (Oct	:-12) Rep	oort	
5.NO ARTICLE		Opening balance		Recieved	Issued	Adjustments		Closing Balance	
		Calculated	Actual			(+)	(-)	Calculated	Actua
1	2	3(C)	3(A)	4	6	7	0	9(C)	9/41
1	BUZE (150ma/75ma/400ma/275ma)	100000	400000						July
1	RHZE (150mg/75mg/400mg/275mg)	199092	199092	0	0	0	0	199092	1990
1	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg)	199092 78720	199092 78720	0	0	0	0	199092 78720	1990
)1)2)3	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg) RHE(150mg/75mg/275mg)	199092 78720 8100	199092 78720 8100	0	0	0	0	199092 78720 8100	1990 787 81
11 12 13	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg) RHE(150mg/75mg/275mg) S/INJ (1g)	199092 78720 8100 1020	199092 78720 8100 1020	0		0	0 0 0	199092 78720 8100 1020	1990 787 81
11 12 13 14	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg) RHE(150mg/75mg/275mg) S/INJ (1g) D/WATER	199092 78720 8100 1020 3180	199092 78720 8100 1020 3180	0 0 0 0			0 0 0 0	199092 78720 8100 1020 3180	3(A 1990 787 81 10 31
12 13 14 15	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg) RHE(150mg/75mg/275mg) S/INJ (1g) D/WATER SYRINGE (5ml)	199092 78720 8100 1020 3180 1020	199092 78720 8100 1020 3180 1020					199092 78720 8100 1020 3180 1020	1990 787 81 10 31
1 2 3 4 5 6 7	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg) RHE(150mg/75mg/275mg) S/INJ (1g) D/WATER SYRINGE (5ml) RHZ (60mg/30mg/150mg)	199092 78720 8100 1020 3180 1020 1030	199092 78720 8100 1020 3180 1020 1030	0 0 0 0 0 0				199092 78720 8100 1020 3180 1020 1030	1990 787 81 10 31 10
01 02 13 14 15 16 17	RHZE (150mg/75mg/400mg/275mg) RH (150mg/75mg) RHE(150mg/75mg/275mg) S/INJ (1g) D/WATER SYRINGE (5ml) RHZ (60mg/30mg/150mg) RH (60mg/30mg)	199092 78720 8100 1020 3180 1020 1030 2520	199092 78720 8100 1020 3180 1020 1030 2520			0 0 0 0 0 0 0 0 0 0		199092 78720 8100 1020 3180 1020 1030 2520	1990 787 81 10 31 10 10 25

After clicking Sep-12, following data entry table will appear for editing

F F 1 0 _ 0 _ 0

The procedure of data entry for previous months is same as new report.

The End