

Business Intelligence Tool

User's Guide



USAID
FROM THE AMERICAN PEOPLE

USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM
Procurement and Supply Management

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Table of Contents

List of Acronyms	iii
Background.....	1
Background of FP Executive Dashboard	1
Salient Features of the FP Executive Dashboard	1
Business Intelligence (BI) Tool.....	Error! Bookmark not defined.
Working with Business Intelligence (BI) Tool	2

List of Acronyms

AJK	Azad Jammu and Kashmir
CW&S	Central Warehouse and Supplies
CYP	Couple Years of Protection
DDP	District Distribution Points
DOH	Department of Health
DPIU	District Project Implementation Unit
DPWO	District Population Welfare Office
FATA	Federally Administered Tribal Areas
FLCF	Fist Level Care Facility
FWC	Family Welfare Center
LHW	Lady Health Worker
LMIS	Logistics Management Information System
MoNHSR&C	Ministry of National Health Services, Regulations and Coordination
MSU	Mobile Service Unit
PLDO	Provincial Line Department Outlets
PPIU	Provincial Project Implementation Unit
PWD	Population Welfare Department
RHS-A	Reproductive Health Services – A
RHS-B	Reproductive Health Services – B
RMP	Registered Medical Practitioners
SDP	Service Delivery Point
TB	Tuberculosis
TBA	Traditional Birth Attendants
USAID	United States Agency for International Development
WMS	Warehouse Management System

Background

Welcome to the *Business Intelligence (BI) Tool User Guide!*

This user guide provides step by step instructions on getting started with the BI Tool which is a part of Contraceptive Logistics Management Information System (cLMIS).

In this guide, the user will be introduced to the following:

1. [Background of Business Intelligence \(BI\) Tool](#)
2. [Salient Features of Business Intelligence \(BI\) Tool](#)
3. [Working with Business Intelligence \(BI\) Tool](#)

Background of Business Intelligence (BI) Tool

The Contraceptives Logistics Management Information System is a fully functional, Government of Pakistan owned web-based Logistics Management Information System (LMIS) (<http://lmis.gov.pk>) that manages the logistics management of family planning commodities in Pakistan. It also provides business intelligence that leaders at various levels can utilize to inform policies and decisions. The USAID funded Global Health Supply Chain – Procurement & Supply Management (GHSC-PSM) project created a Business Intelligence Tool as a step towards ensuring the use of cLMIS data for decision making and to ensure evidence-based decisions around contraceptive stock sufficiency up to the service delivery point (SDP)/health facility level.

Salient Features of Business Intelligence (BI) Tool

The prominent features of the BI Tool include:

- Create dynamic reports that are based on a set of indicators specified by the user, giving flexibility to the user in terms of generating their own data for informed decision making.
- The BI Tool uses simple drag and drop method for arranging important indicators and can view output in multiple formats including tables, graphs, bar charts, etc.

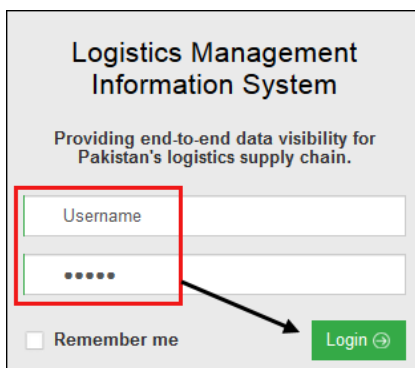
Working with Business Intelligence (BI) Tool

LMIS now enables the users to create dynamic reports using the business Intelligence (BI) Tool. This tool facilitates the user to analyze and visualize the data in a way that is meaningful to the user, unlike the static reports, that only provide pre-defined information. This gives flexibility to the user for analysis and reporting and always access the freshest insights using a simple drag and drop model.

To get started:

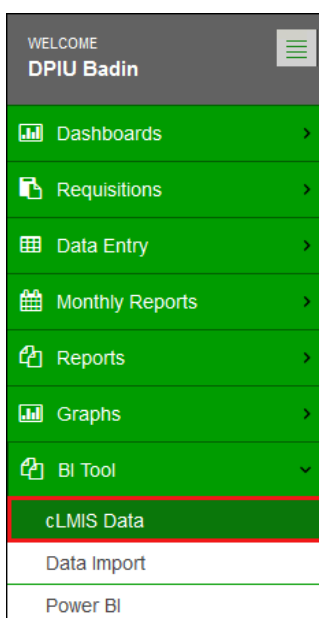
1. Open LMIS.

Go to www.lmis.gov.pk, and then login using your credentials. The credentials are provided by our representative. In case you have forgotten about your username and/or password, please contact support@lmis.gov.pk.

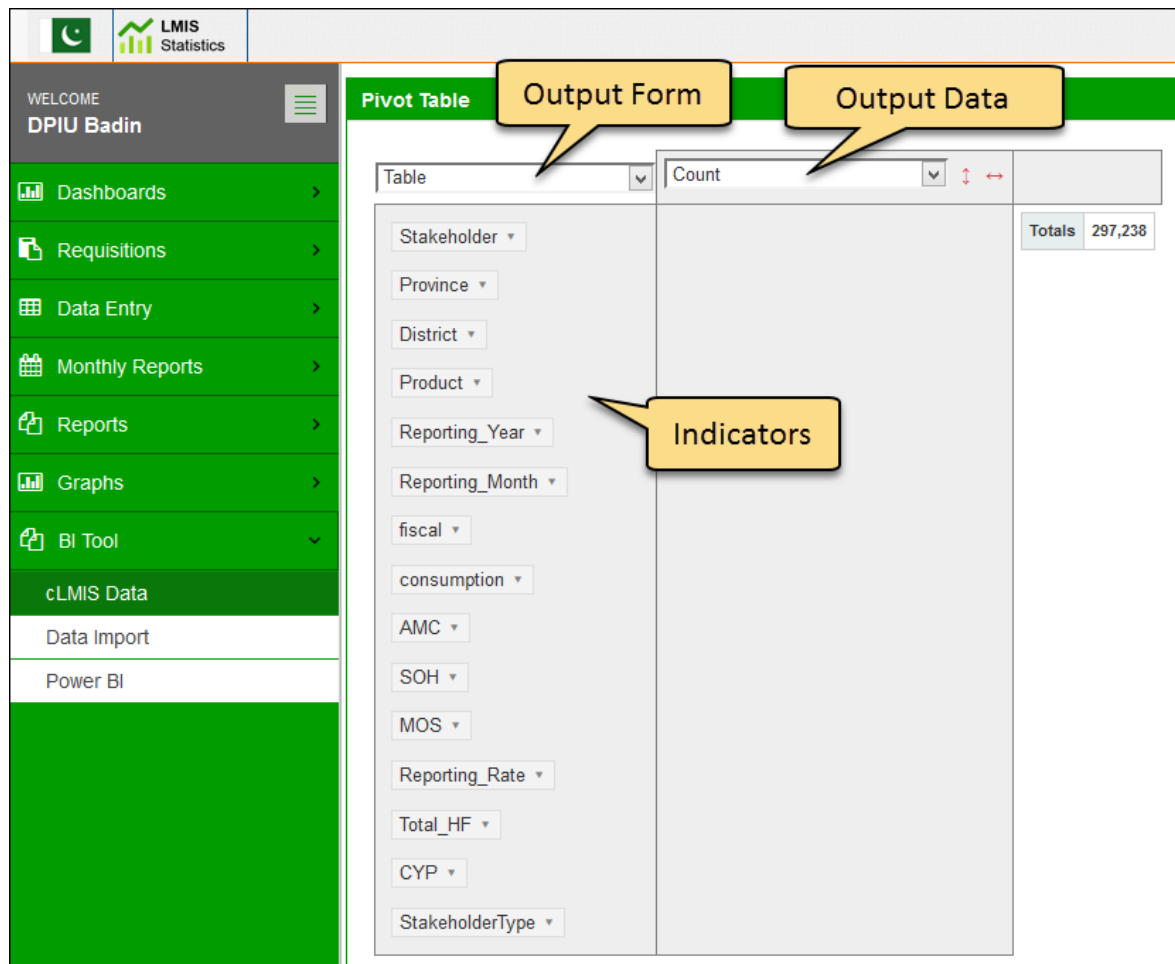


The image shows the login page for the Logistics Management Information System (LMIS). The page has a light gray background. At the top, it says "Logistics Management Information System" in bold, followed by "Providing end-to-end data visibility for Pakistan's logistics supply chain." Below this, there are two input fields: "Username" and a password field represented by dots. A red rectangle highlights both input fields. Below the password field is a checkbox labeled "Remember me". To the right of the input fields is a green "Login" button with a right-pointing arrow. A black arrow points from the password field to the "Login" button.

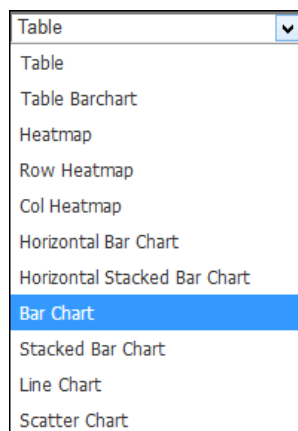
2. On the side menu, click **BI Tool**, and then click **cLMIS Data**.



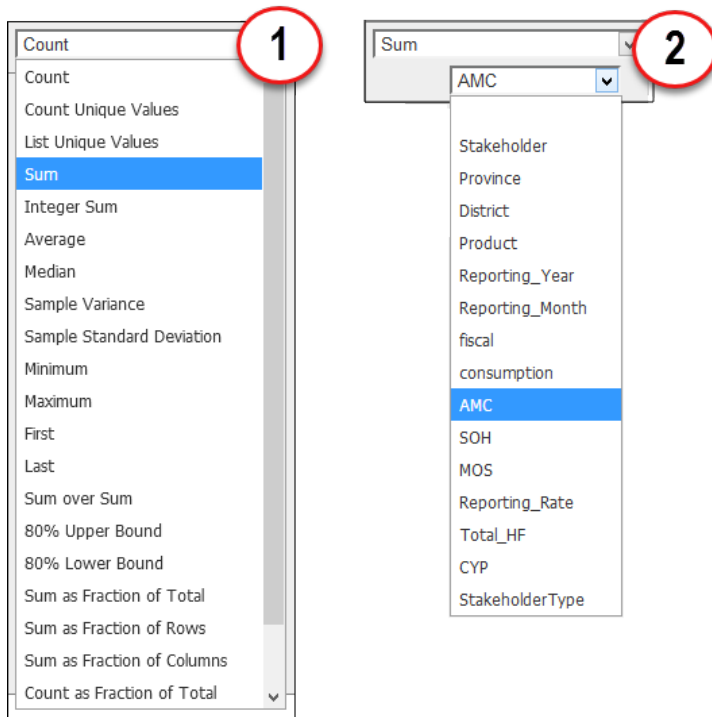
The Business Intelligence Tool displays, as shown in the image below:



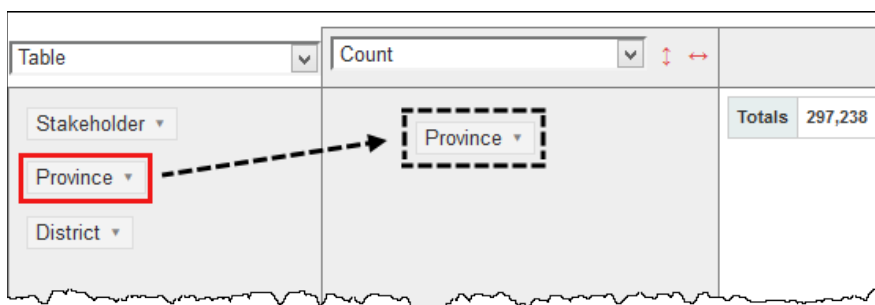
3. The top left corner displays drop-down list for specifying the form of output in which the selected indicators can be displayed. Select the required output form from the available options. You can view the information in form of a table, bar graph, line chart, etc.




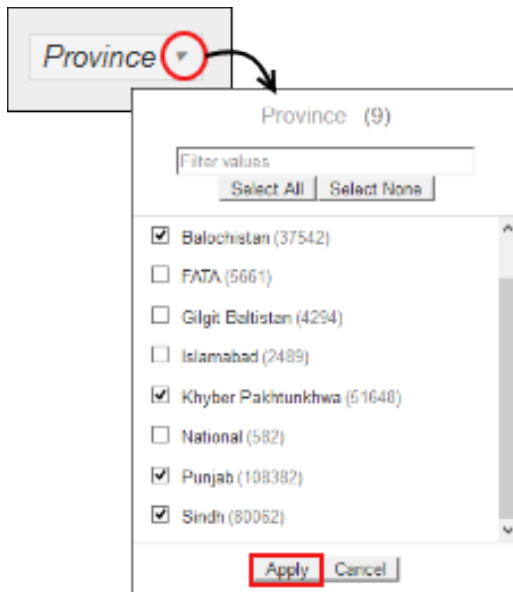
- The drop-down list adjacent to the output form list enables the user to specify the output data. The user can select the required method of calculation (1), as well as the output indicator whose data will be displayed (2). As shown in the image below:




- The column under the output list displays the indicators that can be placed on the horizontal or vertical axis to populate the information. Drag the required indicator to the populate the vertical axis (Columns), as shown in the image below:



Now click the  button next to the indicator, and then select the required options to be included in the output.



For example, in the image above, the indicator Province has been dragged to the vertical axis to create columns. The user can filter the indicator further by clicking  and selecting the required provinces to be populated in the table. In this example we have selected Punjab, Balochistan, Sindh and Khyber Pakhtunkhwa. Click **Apply** to apply the filter. The column is populated as shown in the image below:

Sum	
AMC	
Province	
Province	Totals
Balochistan	21,470,657.32
Khyber Pakhtunkhwa	158,395,854.09
Punjab	547,043,348.46
Sindh	233,975,237.72
Totals	960,885,097.59

Similarly, drag the required indicator that you want to populate on the horizontal axis (Rows), as shown in the image below:

The interface shows a filter panel on the left with dropdowns for Stakeholder, District, Reporting_Year (highlighted with a red box), Product, and Reporting_Month. The main area displays a summary table for 'Sum' of 'AMC' by Province. A dashed arrow points from the 'Reporting_Year' filter to the 'Reporting_Year' column in the table.

Province	Totals
Balochistan	21,470,657.32
Khyber Pakhtunkhwa	158,395,854.09
Punjab	547,043,348.46
Sindh	233,975,237.72
Totals	960,885,097.59

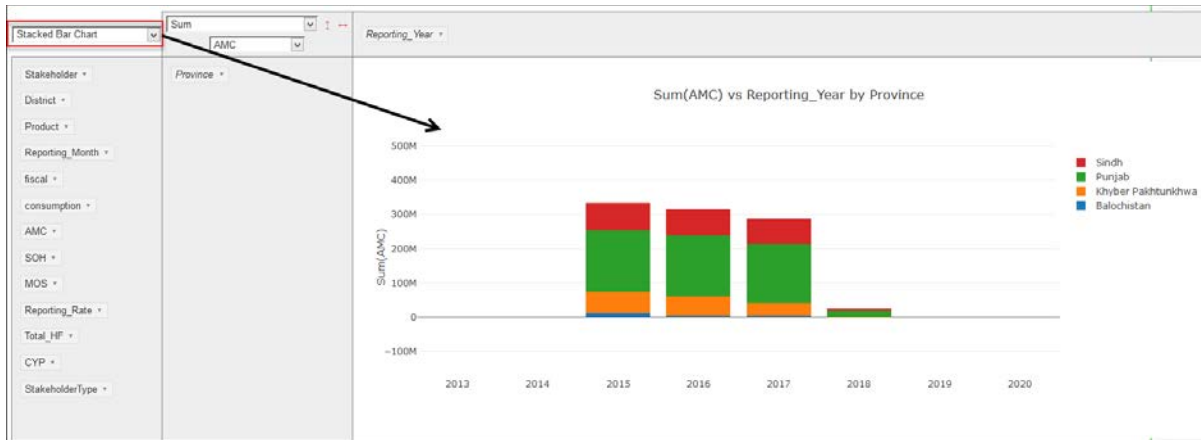
The user can click the ☐ button next to the indicator, and filter the data that needs to be included in the output, for example, in the image below, only 2015 – 2018 data is selected.

The 'Reporting_Year (10)' dialog box shows a list of years with checkboxes. Years 2015 through 2018 are selected. The 'Apply' button is highlighted with a red box.

Province	Reporting_Year
AJK	
Balochistan	<input type="checkbox"/> 2011 (14497)
FATA	<input type="checkbox"/> 2012 (19265)
Gilgit Baltistan	<input type="checkbox"/> 2013 (31703)
Islamabad	<input type="checkbox"/> 2014 (44608)
Khyber Pakhtunkhwa	<input checked="" type="checkbox"/> 2015 (59384)
National	<input checked="" type="checkbox"/> 2016 (55901)
Punjab	<input checked="" type="checkbox"/> 2017 (54295)
Sindh	<input checked="" type="checkbox"/> 2018 (4560)

Click **Apply** to apply the filter.

The Output table displays based on the indicators on the X and Y axis.



The user can play with the BI tool using simple drag and drop of indicators and create meaningful data as per their requirement.



In case of any further information, please contact our support representative at support@lmis.gov.pk.