

|  |
| --- |
| Software Design Document |
| Contraceptives Logistics Management Information  System (cLMIS)  Release: R1 |
| Prepared by FO Islamabad Team  John Snow Inc.  February 26, 2014 |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Pakistan Field Office | 17 Aug 2013 | First Draft | 1.0 |
| Pakistan Field Office | 14 Sep 2013 | Updated Draft | 1.1 |
| Pakistan Field Office | 3 Oct 2013 | Updated Draft | 1.2 |
| Pakistan Field Office | 24 Feb 2014 | Finalized Technical Doc | 2.0 |

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# Acronyms

|  |  |
| --- | --- |
| **Name** | **Meaning** |
| BHU | Basic Health Unit |
| DMO | District Medical Officer |
| GOP | Government of Pakistan |
| HF | Health Facility |
| ICT | Information Communications Technologies |
| IT | Information Technology |
| JSI | John Snow, Inc. |
| LHW | Lady Health Worker |
| LMIS | Logistics Management Information System |
| MDG | Millennium Development Goal |
| MIS | Management Information System |
| MNHRC | Ministry of National Health Services, Regulation and Coordination |
| MIPC | Ministry of Inter Provincial Coordination |
| SDP | Service Delivery Point |
| SMS | Short Message Service |
| SOP | Standard Operating Procedure |
| UC | Union Council |
| UNICEF | United Nations Children's Fund |
| USAID | United States Agency for International Development |
| WHO | World Health Organization |
| WMS | Warehouse Management System |

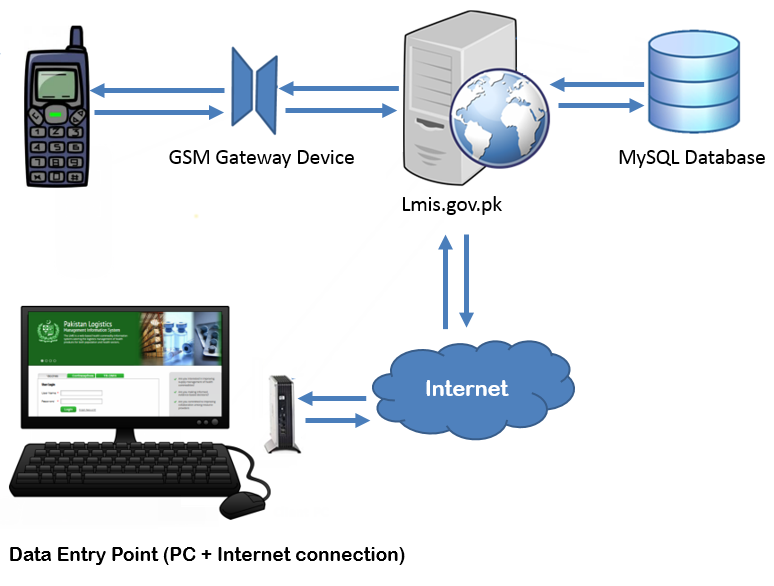
**Architecture**

# Architectural Details

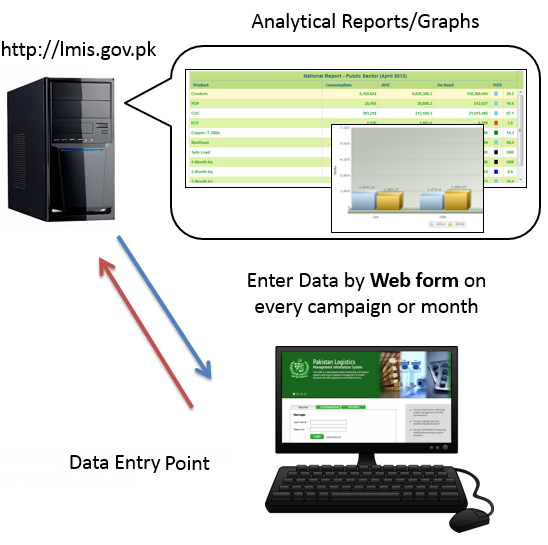
## Client Browser Interaction with cLMIS Server

## High Level Features of cLMIS

## cLMIS Data Entry Point Infrastructure Implementation



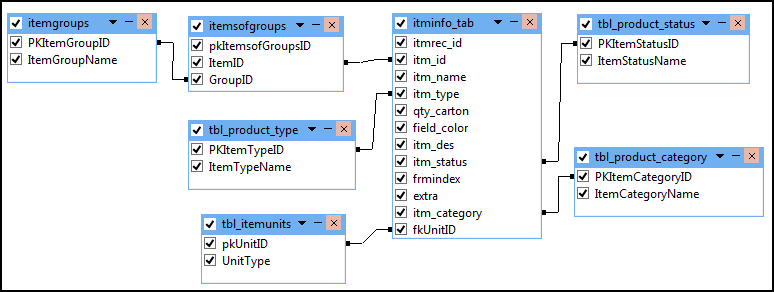
## Scenario: Internet is present for using cLMIS



**Database Schema**

# Database Schema

## Item Information

**Relationship Diagram**

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Iteminfo\_tab** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| itmrec\_id | Specify the record ID. | Varchar | 15 | No |
| itm\_id (PK) | Specify the item ID. It is auto increment. | Int | 10 | No |
| itm\_name | Name of the items. | Varchar | 50 | Yes |
| itm\_type | It describes the type of each item i.e. pills, injection etc. | Varchar | 30 | Yes |
| qty\_carton | It is quantity of each item in a single carton. | Int | 11 | No |
| field\_color | It describes the color of the fields. | Varchar | 7 | Yes |
| itm\_des | Its item description. | Text | 0 | Yes |
| itm\_status | This field tells that whether the item is currently being purchased or not. | Varchar | 10 | Yes |
| frmindex |  | Int | 11 | No |
| extra |  | Varchar | 20 | Yes |
| itm\_category (FK) | Specify the item categories (WMS, CS etc) | Varchar | 50 | No |
| fkUnitID (FK) | Specify the item units ID (Doses, Vials, Pcs etc) | Int | 11 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl-product\_category** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PKItemCategoryID (PK) | Specify the item category ID. It is auto increment. | Int | 11 | No |
| ItemCategoryName | Name of the items category. | Varchar | 255 | No |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_itemunits** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| pkUnitID (PK) | Specify the item unit ID. It is auto increment. | Int | 11 | NO |
| UnitType | Specify the type of the unit i.e. Doses, Vials or Pcs. | Varchar | 255 | Yes |

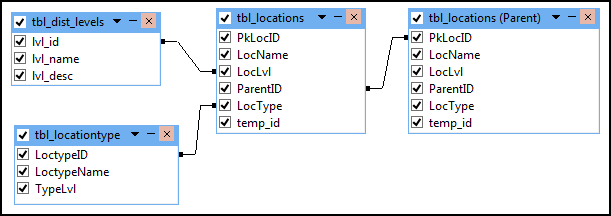
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **itemgroups** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PKItemGroupID (PK) | Specify the item group ID. It is auto increment. | Int | 11 | NO |
| ItemGroupName | Name of the group. | Varchar | 255 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **itemofgroups** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| pkItemsofGroupsID (PK) | Specify the item of group ID. It is auto increment. | int | 11 | No |
| ItemID (FK) | Specify the item ID. | int | 11 | Yes |
| GroupID (FK) | Specify the group ID. | int | 11 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl-product-status** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PKItemStatusID (PK) | Specify the item status ID. It is auto increment. | int | 11 | No |
| ItemStatusName | Name of the item status. | varchar | 255 | No |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl-product-type** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PKItemTypeID (PK) | Specify the item type ID. It is auto increment. | int | 11 | No |
| ItemTypeName | Name of the item type. | varchar | 255 | No |

## Location information

**Relationship Diagram**

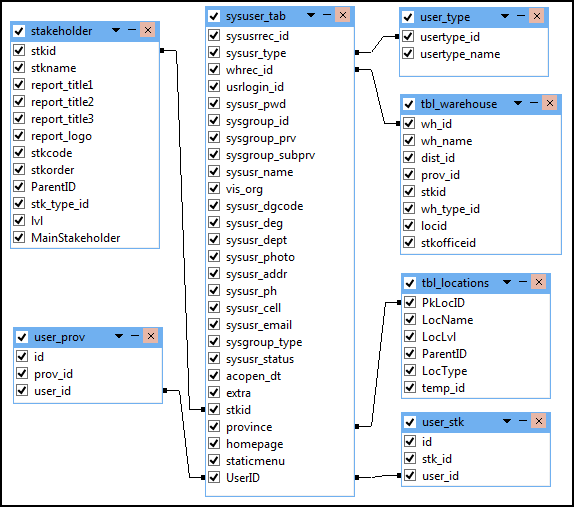
**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_locations** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PkLocID (PK) | Specify the location ID. It is auto increment. | Int | 11 | No |
| LocName | Name of locations. | Varchar | 100 | Yes |
| LocLvl (FK) | Specify the location level ID( National, Provincial, Division, District, Tehsil, UC etc) | Int | 11 | Yes |
| ParentID | This field describes that which location belongs to which district and province | Int | 11 | Yes |
| LocType (FK) | Specify the location type ID (Country, Province  ,Region, District, Agency, FR, DHQ, THQ, Tertiary Hospital, BMU, Towns etc) | Int | 11 | Yes |
| temp\_id |  | Varchar | 11 | No |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_dist\_levels** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| lvl\_id (PK) | Specify the distribution level ID. It is auto increment. | Int | 11 | No |
| lvl\_name | Names of the levels.  Division, District, Tehsil, UC | Varchar | 40 | Yes |
| lvl\_desc | It describes the location levels (National, Provincial, Division, District, Tehsil, UC etc). | Text | 0 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_locationtype** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| LoctypeID (PK) | Specify the location type ID. It is auto increment. | Int | 11 | No |
| LoctypeName | Name of the location type. | Varchar | 255 | Yes |
| TypeLvl |  | Int | 11 | No |

## Users Information

**Relationship Diagram**

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **sysuser\_tab** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| sysusrrec\_id | Specify the user record ID. | Varchar | 15 | No |
| sysusr\_type | Specify the user type (Administrator, Sub Admin, Data Entry, guests, CC Manager etc) | Varchar | 15 | Yes |
| whrec\_id (FK) | Specify the warehouse ID. | Varchar | 15 | Yes |
| usrlogin\_id | Login IDs of every authenticated system user. | Varchar | 155 | Yes |
| sysusr\_pwd | Passwords of every authenticated system user. | Varchar | 50 | Yes |
| sysgroup\_id |  | Varchar | 50 | Yes |
| sysgroup\_prv |  | Text | 0 | Yes |
| sysgroup\_subprv |  | Text | 0 | Yes |
| sysusr\_name | Name of the user. | Varchar | 40 | Yes |
| vis\_org |  | Varchar | 50 | Yes |
| sysusr\_dgcode |  | Varchar | 10 | Yes |
| sysusr\_deg | Designation of each system user | Varchar | 150 | Yes |
| sysusr\_dept | Department of each system user | Varchar | 150 | Yes |
| sysusr\_photo | Picture of the user. | Blob | 0 | Yes |
| sysusr\_addr | Address of the user. | Text | 0 | Yes |
| sysusr\_ph | Phone number of the user. | Varchar | 25 | Yes |
| sysusr\_cell | Phone number of the user. | Varchar | 25 | Yes |
| sysusr\_email | Email address of the user. | Varchar | 50 | No |
| sysgroup\_type | Group of system user | Varchar | 10 | Yes |
| extra |  | Varchar | 20 | Yes |
| stkid (FK) | Specify the stakeholder ID. | Varchar | 200 | Yes |
| province (FK) | Specify the province ID. | Varchar | 20 | Yes |
| homepage |  | Varchar | 100 | Yes |
| staticmenu |  | Varchar | 100 | Yes |
| UserID (PK) | Specify the user ID. It is auto increment. | Int | 11 | No |

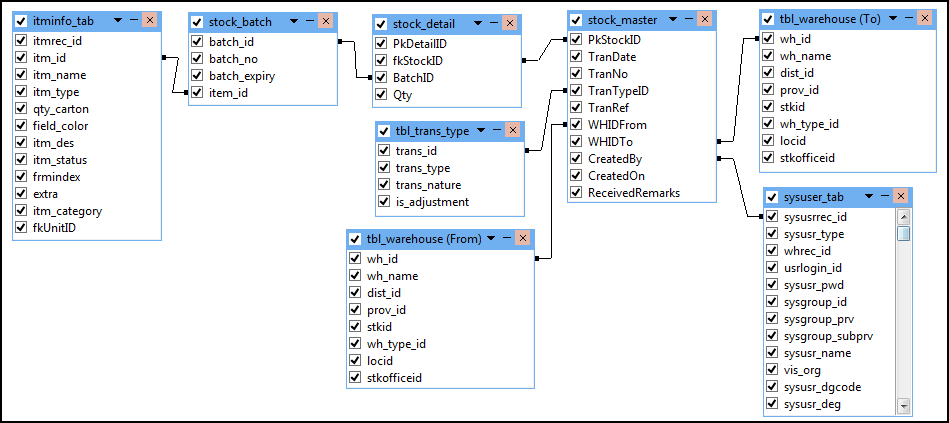
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **user\_type** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| usertype\_id (PK) | Specify the user type ID. It is auto increment. | Varchar | 8 | No |
| usertype\_name | Name of the system users type. i.e. Administrator, Sub Admin, Data Entry, guests, CC Manager | Varchar | 222 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **user\_prov** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| id (PK) | Specify the user province ID. It is auto increment. | Int | 11 | No |
| stk\_id (FK) | Specify the stakeholder ID. | Int | 11 | Yes |
| user\_id (FK) | Specify the user ID. | Int | 11 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **user\_stk** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| id (PK) | Specify the user stakeholder ID. It is auto increment. | Int | 11 | No |
| Prov\_id (FK) | Specify the location ID. | Int | 11 | Yes |
| User\_id (FK) | Specify the user ID. | Int | 11 | Yes |

## Inventory Information

**Relationship Diagram**



**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **stock\_master** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PkStockID (PK) | Specify the stock master ID. It is auto increment. | Int | 11 | No |
| TranDate | Specify the transaction date using format dd/mm/yyyy. | Date | 0 | Yes |
| TranNo | Number of the transaction. | Varchar | 100 | Yes |
| TranTypeID (FK) | Specify the transaction type ID(Receive, Issue, Theft, Cold Chain Break, Lost, Lost Recovered) | Int | 11 | Yes |
| TranRef |  | Varchar | 255 | Yes |
| WHIDFrom (FK) | Specify the warehouse issued ID. | Int | 11 | Yes |
| WHIDTo (FK) | Specify the warehouse received ID. | Int | 11 | Yes |
| CreatedBy (FK) | Specify the user ID. | Int | 11 | Yes |
| CreatedOn | Specify the created date. | Date | 0 | Yes |
| ReceivedRemarks | Specify the received remarks. | Varchar | 255 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_trans\_type** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| trans\_id (PK) | Specify the transaction type ID. It is auto increment. | Int | 11 | No |
| trans\_type | Type of the transaction i.e. Receive, Issue, Theft  Cold Chain Break, Lost, Lost Recovered. | Varchar | 255 | Yes |
| trans\_nature |  | Varchar | 1 | Yes |
| is\_adjustment |  | Tinyint | 1 | Yes |

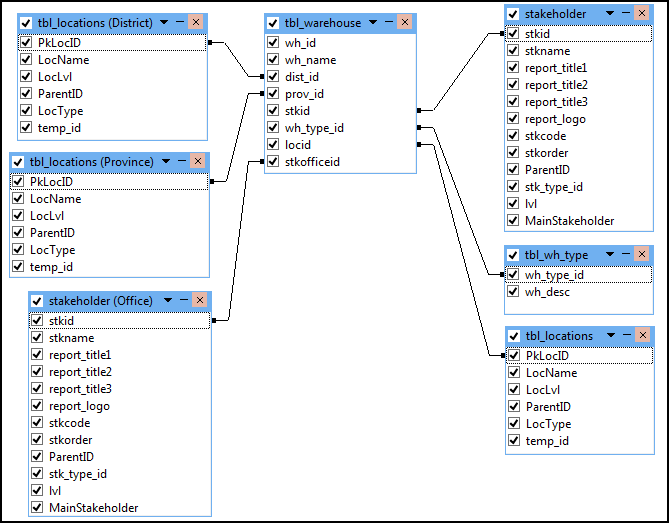
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **stock\_batch** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| batch\_id (PK) | Specify the stock batch ID. It is auto increment. | Int | 11 | NO |
| batch\_no | Specify the batch number (alphanumeric) for the product. | Varchar | 100 | Yes |
| batch\_expiry | The expiry date of the batch. The date is saved in DB in format: dd/mm/yyyy. | Date | 0 | Yes |
| item\_id (FK) | Specify the item ID. | Int | 11 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **stock\_detail** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| PkDetailID (PK) | Specify the stock detail ID. It is auto increment. | Int | 11 | No |
| fkStockID (FK) | Specify the stock ID. | Int | 11 | Yes |
| BatchID (FK) | Specify the batch ID. | Int | 11 | Yes |
| Qty | Specify the quantity. | Bigint | 20 | Yes |

## Warehouse information

**Warehouse**

**Relationship Diagram**

****

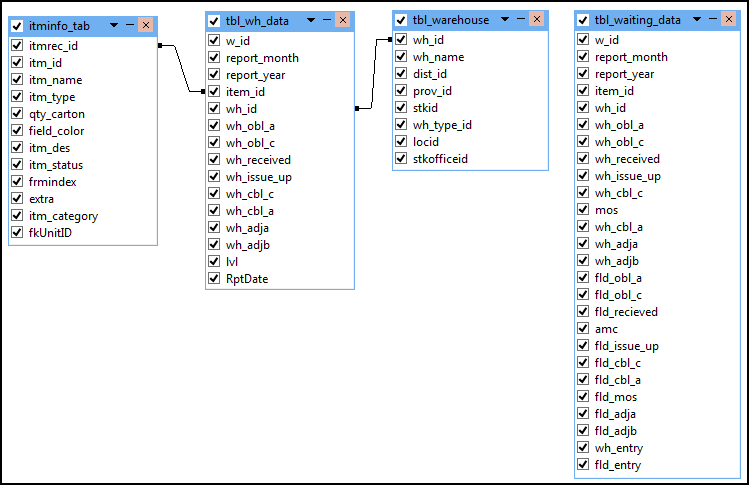
**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_warehouse** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| wh\_id (PK) | Specify the warehouse ID. It is auto increment. | Int | 11 | No |
| wh\_name | Name of the warehouse. | Varchar | 255 | Yes |
| dist\_id (FK) | Specify the district ID. | Varchar | 50 | Yes |
| prov\_id (FK) | Specify the provine ID. | Int | 11 | Yes |
| stkid (FK) | Specify the stakeholder ID. | Int | 11 | Yes |
| wh\_type\_id (FK) | Specify the warehouse type ID. | Varchar | 255 | Yes |
| locid (FK) | Specify the location ID. | Int | 11 | Yes |
| stkofficeid (FK) | Specify the stakeholder office ID. | Int | 11 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_wh\_type** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| wh\_type\_id (PK) | Specify the warehouse type ID. It is auto increment. | Varchar | 255 | No |
| wh\_desc |  | Varchar | 255 | Yes |

## Warehouse Data

**Relationship Diagram**



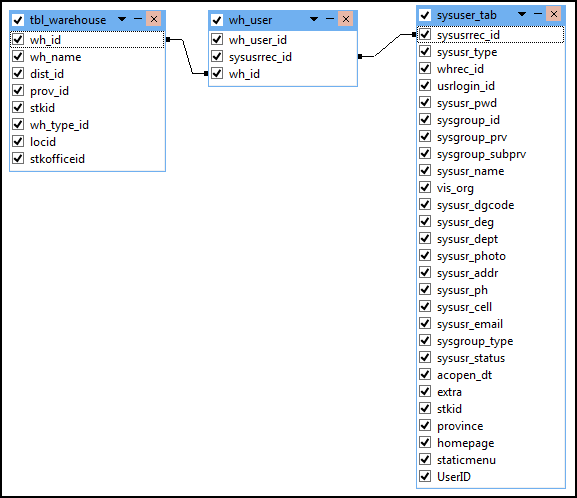
**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_wh\_data** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| w\_id (PK) | Specify the warehouse ID. It is auto increment. | Int | 11 | No |
| report\_month | Month in which the report was collected. | Int | 11 | Yes |
| report\_year | Year in which the report was collected. | Int | 11 | Yes |
| item\_id (FK) | Specify the item ID. | varchar | 15 | Yes |
| wh\_id (FK) | Specify the warehouse ID. | Int | 11 | Yes |
| wh\_obl\_a | Warehouse actual opening balance | Int | 11 | Yes |
| wh\_obl\_c | Warehouse actual closing balance | Int | 11 | Yes |
| wh\_received |  | Int | 11 | Yes |
| wh\_issue\_up |  | Int | 11 | Yes |
| wh\_cbl\_c |  | Int | 11 | Yes |
| wh\_cbl\_a |  | Int | 11 | Yes |
| wh\_adja |  | Int | 11 | Yes |
| wh\_adjb |  | Int | 11 | Yes |
| lvl |  | Smallint | 6 | Yes |
| RptDate |  | Date | 0 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_waiting-data** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| w\_id (PK) | Specify the warehouse ID. It is auto increment. | int | 11 | No |
| report\_month |  | int | 11 | Yes |
| report\_year |  | int | 11 | Yes |
| item\_id (FK) | Specify the item ID. | varchar | 15 | Yes |
| wh\_id (FK) | Specify the warehouse ID. | int | 11 | Yes |
| wh\_obl\_a |  | int | 11 | Yes |
| wh\_obl\_c |  | int | 11 | Yes |
| wh\_received |  | int | 11 | Yes |
| wh\_issue\_up |  | int | 11 | Yes |
| wh\_cbl\_c |  | int | 11 | Yes |
| mos |  | int | 11 | Yes |
| wh\_cbl\_a |  | int | 11 | Yes |
| wh\_adja |  | int | 11 | Yes |
| wh\_adjb |  | int | 11 | Yes |
| fld\_obl\_a |  | int | 11 | Yes |
| fld\_obl\_c |  | int | 11 | Yes |
| fld\_recieved |  | int | 11 | Yes |
| amc |  | int | 11 | Yes |
| fld\_issue\_up |  | int | 11 | Yes |
| fld\_cbl\_c |  | int | 11 | Yes |
| fld\_cbl\_a |  | int | 11 | Yes |
| fld\_mos |  | int | 11 | Yes |
| fld\_adja |  | int | 11 | Yes |
| fld\_adjb |  | int | 11 | Yes |
| wh\_entry |  | int | 1 | Yes |
| fld\_entry |  | int | 1 | Yes |

## Warehouse Users

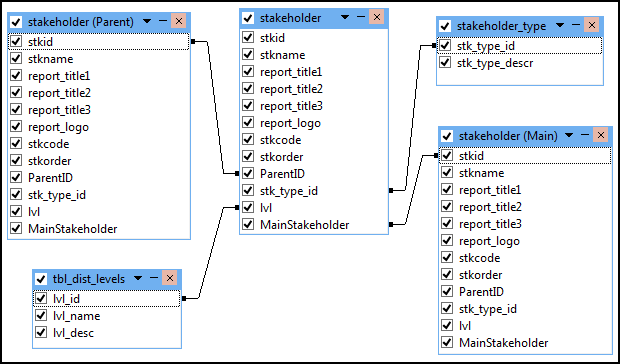
**Relationship Diagram**

****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **wh\_user** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| wh\_user\_id (PK) | Specify the warehouse user ID. It is auto increment. | Int | 11 | No |
| sysusrrec\_id (FK) | Specify the user ID. | Int | 11 | No |
| wh\_id (FK) | Specify the warehouse ID. | Int | 11 | No |

## Stakeholders

**Relationship Diagram**

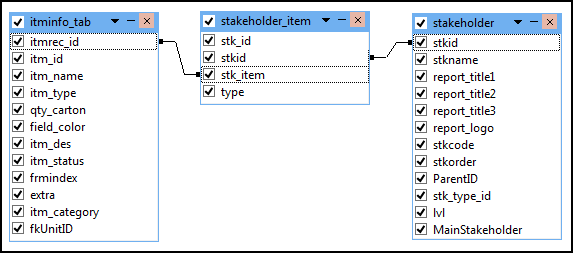
**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Stakeholder** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| Stkid (PK) | Specify the stakeholder ID. It is auto increment. | Int | 9 | No |
| stkname | Name of the Stakeholder. | Varchar | 44 | Yes |
| report\_title1 | Name of the report title1. | Varchar | 60 | Yes |
| report\_title2 | Name of the report title2. | Varchar | 60 | Yes |
| report\_title3 | Name of the report title3. | Varchar | 60 | Yes |
| report\_logo |  | Varchar | 60 | Yes |
| stkcode |  | Varchar | 10 | Yes |
| stkorder |  | Tinyint | 2 | Yes |
| ParentID | ID of that stakeholder which comes immediately above each stakeholder. | Int | 9 | Yes |
| stk\_type\_id (FK) | Specify the stakeholder type ID(Reporting  Suppliers, Manufacturer) | Int | 11 | Yes |
| lvl (FK) | Specify the levels ID(National, Provincial  Division, District, Tehsil, UC etc) | Int | 11 | Yes |
| MainStakeholder | Specify the stakeholder ID. | Int | 11 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **stakeholder\_type** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| stk\_type\_id (PK) | Specify the stakeholder type ID. It is auto increment. | Int | 11 | No |
| stk\_type\_descr | Types of the stakeholder i.e. Reporting  Suppliers, Manufacturer. | Varchar | 25 | Yes |

## Stakeholder Items

**Relationship Diagram**

****

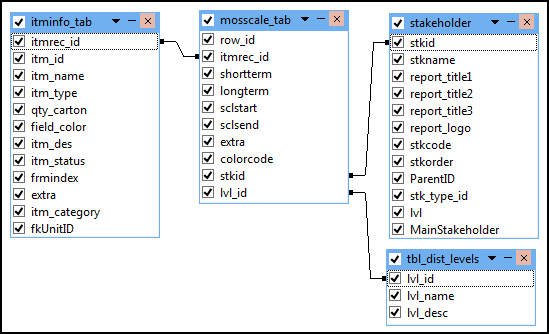
**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **stakeholder\_item** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| stk\_id (PK) | Specify the stakeholder item ID. It is auto increment. | Int | 8 | No |
| stkid (FK) | Specify the stakeholder ID. | Int | 11 | No |
| stk\_item (FK) | Specify the item ID. | Varchar | 255 | Yes |
| type |  | Varchar | 222 | Yes |

## Reports

**MOS Scale**

**Relationship Diagram**

****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **mosscale\_tab** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| row\_id (PK) | Specify the mos ID. It is auto increment. | Int | 11 | No |
| itmrec\_id (FK) | Specify the item ID. | Varchar | 15 | Yes |
| shortterm |  | Varchar | 5 | Yes |
| longterm |  | Varchar | 30 | Yes |
| sclstart |  | Float | 0 | No |
| sclsend |  | Float | 0 | No |
| extra |  | Varchar | 10 | Yes |
| colorcode | Specify the color. | Varchar | 30 | Yes |
| stkid (FK) | Specify the stakeholder ID. | Int | 11 | Yes |
| lvl\_id (FK) | Specify the levels ID(National, Provincial  Division, District, Tehsil, UC etc) | Int | 11 | Yes |

**Reports**

**Relationship Diagram**

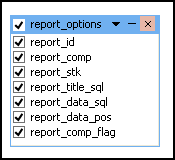
****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **reports** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| report\_id (PK) | Specify the report ID. It is auto increment. | Varchar | 60 | No |
| report\_group | Specify the report group(Dispensed, OnHand, MOS etc) | Varchar | 100 | Yes |
| report\_type |  | Decimal | 1 | Yes |
| report\_title | Title of the report. | Varchar | 60 | Yes |
| report\_xaxis |  | Varchar | 60 | Yes |
| report\_yaxis |  | Varchar | 60 | Yes |
| report\_units |  | Varchar | 60 | Yes |
| report\_factor |  | Decimal | 8 | Yes |
| report\_field |  | Varchar | 100 | Yes |
| report\_description |  | Text | 0 | Yes |
| staticpage |  | Varchar | 100 | Yes |
| footer\_staticpage |  | Varchar | 100 | Yes |
| report\_order |  | Smallint | 6 | Yes |
| report\_show\_simple |  | Smallint | 1 | Yes |
| report\_show\_comp |  | Smallint | 1 | Yes |

**Reports Option**

**Relationship Diagram**

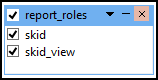
****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **report\_options** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| report\_id (PK) | Specify the report ID. It is auto increment. | Varchar | 100 | Yes |
| report\_comp |  | Smallint | 1 | Yes |
| report\_stk |  | Tinyint | 1 | No |
| report\_title\_sql |  | Varchar | 1000 | Yes |
| report\_data\_sql |  | Varchar | 1000 | Yes |
| report\_data\_pos |  | Smallint | 2 | Yes |
| report\_comp\_flag |  | Smallint | 1 | Yes |

**Reports Roles**

**Relationship Diagram**

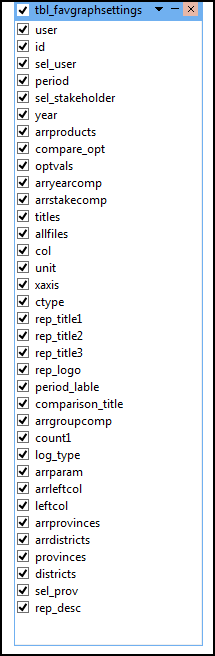


**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **report\_roles** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| Skid (PK) |  | Int | 11 | No |
| skid\_view (PK) |  | Int | 11 | No |

## Favorite Graph Settings

**Relationship Diagram**

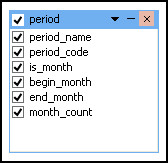
****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_favgraphsettings** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| user | Name of the user. | Varchar | 100 | Yes |
| id (PK) | Specify the graph ID. It is auto increment. | Int | 11 | No |
| sel\_user |  | Varchar | 100 | Yes |
| period |  | Varchar | 25 | Yes |
| sel\_stakeholder |  | Varchar | 100 | Yes |
| year |  | Varchar | 100 | Yes |
| arrproducts |  | Text | 0 | Yes |
| compare\_opt |  | Varchar | 50 | Yes |
| optvals |  | Varchar | 50 | Yes |
| arryearcomp |  | Text | 0 | Yes |
| arrstakecomp |  | Text | 0 | Yes |
| titles |  | Text | 0 | Yes |
| allfiles |  | Text | 0 | Yes |
| col |  | Varchar | 200 | Yes |
| unit |  | Varchar | 100 | Yes |
| xaxis |  | Varchar | 100 | Yes |
| ctype |  | Varchar | 100 | Yes |
| rep\_title1 |  | Varchar | 100 | Yes |
| rep\_title2 |  | Varchar | 100 | Yes |
| rep\_title3 |  | Varchar | 100 | Yes |
| rep\_logo |  | Varchar | 100 | Yes |
| period\_lable |  | Varchar | 100 | Yes |
| comparison\_title |  | Varchar | 100 | Yes |
| arrgroupcomp |  | Text | 0 | Yes |
| count1 |  | Int | 5 | Yes |
| log\_type |  | enum | 0 | Yes |
| arrparam |  | Text | 0 | Yes |
| arrleftcol |  | Text | 0 | Yes |
| leftcol |  | Varchar | 5 | Yes |
| arrprovinces |  | Text | 0 | Yes |
| arrdistricts |  | Text | 0 | Yes |
| provinces |  | Text | 0 | Yes |
| districts |  | Text | 0 | Yes |
| sel\_prov |  | Int | 2 | Yes |
| rep\_desc |  | Text | 0 | Yes |

## Period

**Relationship Diagram**

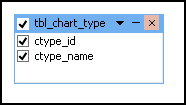
****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **period** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| period\_name | Name of the period. | Text | 0 | Yes |
| period\_code (PK) | Specify the period ID. It is auto increment. | Int | 11 | No |
| is\_month | Specify it is month or not. | Text | 0 | Yes |
| begin\_month | Specify the start month. | Int | 11 | Yes |
| end\_month | Specify the end month. | Int | 11 | Yes |
| month\_count | Specify total months. | Int | 11 | Yes |

## Chart Type

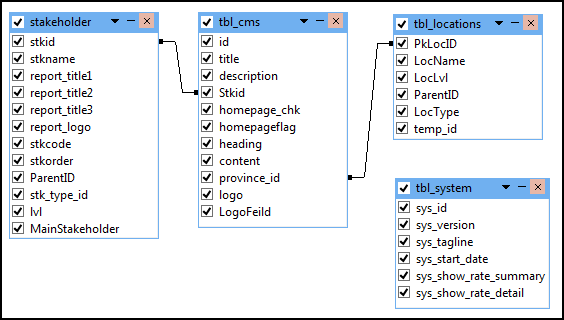
**Relationship Diagram**

**** **Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_chart\_type** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| ctype\_id (PK) | Specify the chart type ID. It is auto increment. | Varchar | 40 | No |
| ctype\_name | Name of the chat type. | Varchar | 40 | Yes |

## Configuration Information

**Relationship Diagram**

****

**Table Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_system** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| sys\_id (PK) | Specify the system ID. It is auto increment. | Smallint | 1 | No |
| sys\_version |  | Float | 11 | Yes |
| sys\_tagline |  | Varchar | 100 | Yes |
| sys\_start\_date |  | Varchar | 100 | Yes |
| sys\_show\_rate\_summary |  | Smallint | 1 | Yes |
| sys\_show\_rate\_detail |  | Smallint | 1 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tbl\_cms** | | | | |
| **Field Name** | **Description** | **Type** | **Length** | **Null** |
| |  |  | | --- | --- | | id (PK) |  | | Specify the cms ID. It is auto increment. | int | 11 | No |
| |  |  |  | | --- | --- | --- | | title | varchar | 500 | |  | varchar | 500 | Yes |
| description |  | Text | 0 | Yes |
| Stkid (FK) | Specify the stakeholder ID. | Int | 11 | Yes |
| homepage\_chk |  | Int | 1 | Yes |
| homepageflag |  | Tinyint | 1 | Yes |
| heading |  | Varchar | 500 | No |
| content |  | Varchar | 100 | No |
| province\_id (FK) | Specify the location ID. | Int | 11 | No |
| logo |  | Varchar | 50 | No |
| LogoFeild |  | Int | 11 | Yes |

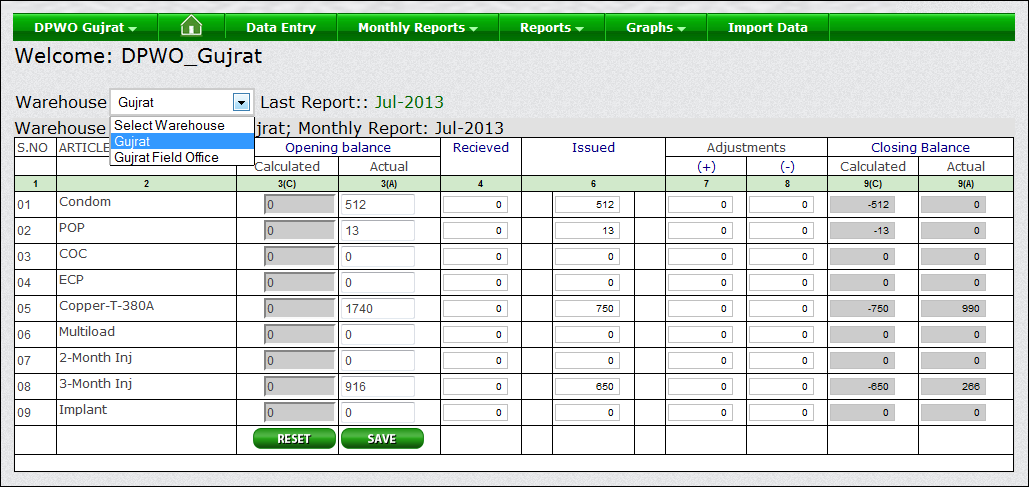
**cLMIS Screens**

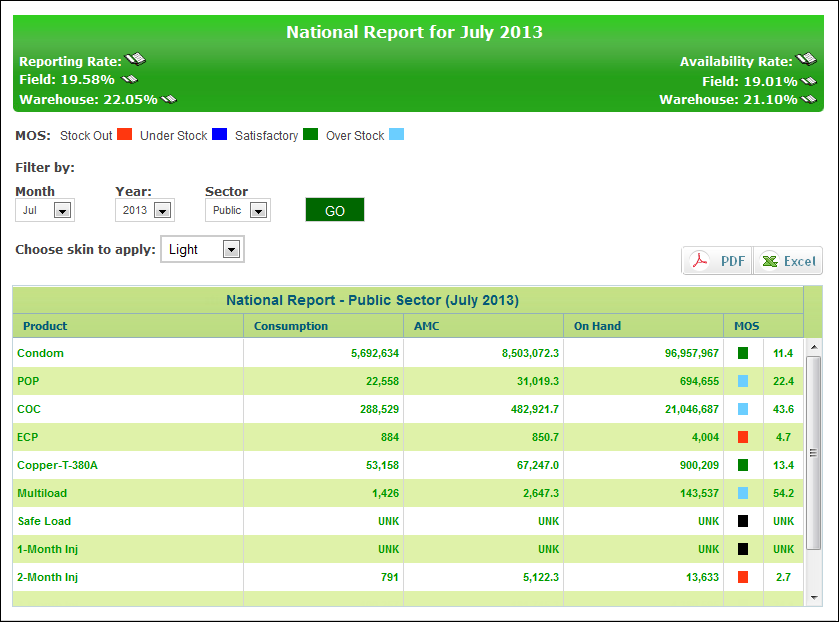
# cLMIS Screens

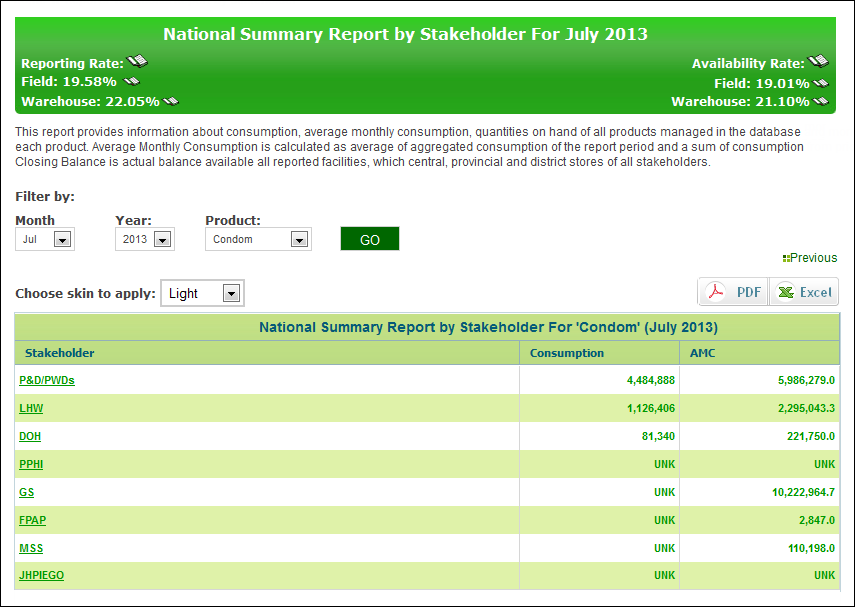
## Home Screen



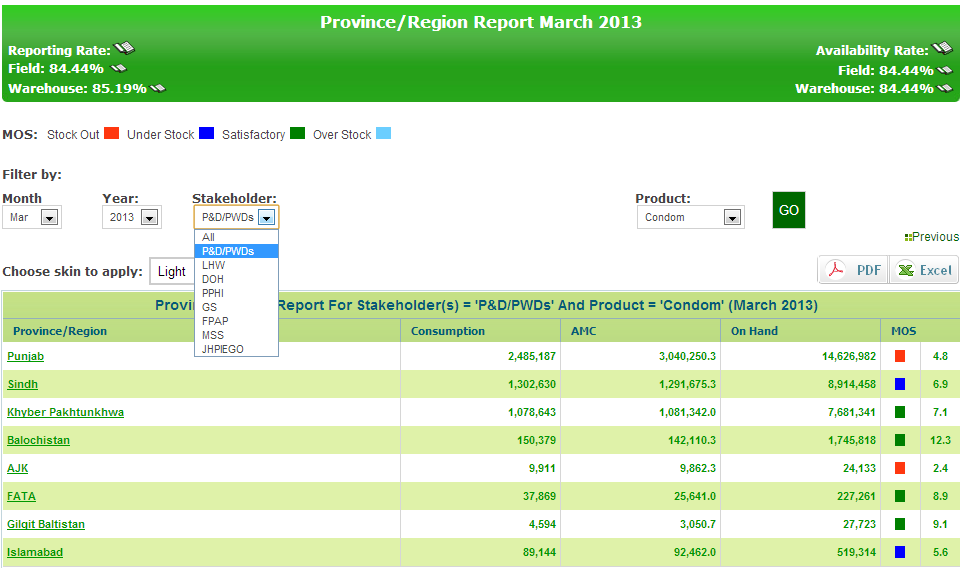
## Data Entry Screen



**LMIS Reports: National Summary Report**

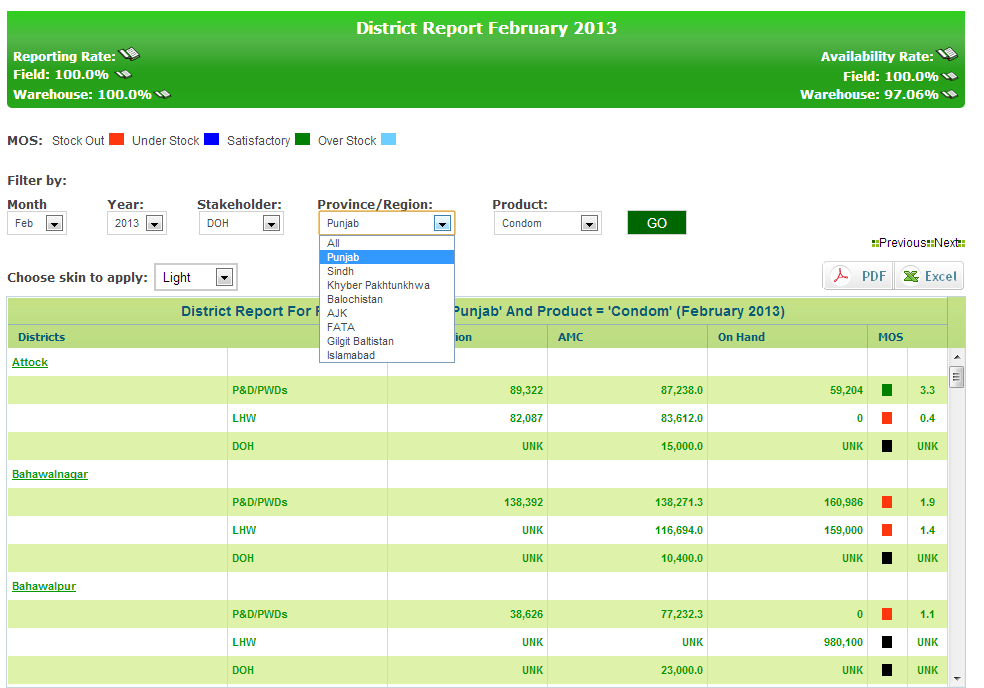
**LMIS Reports: Stakeholder Summary Report**

**LMIS Reports: Provincial Summary Report**



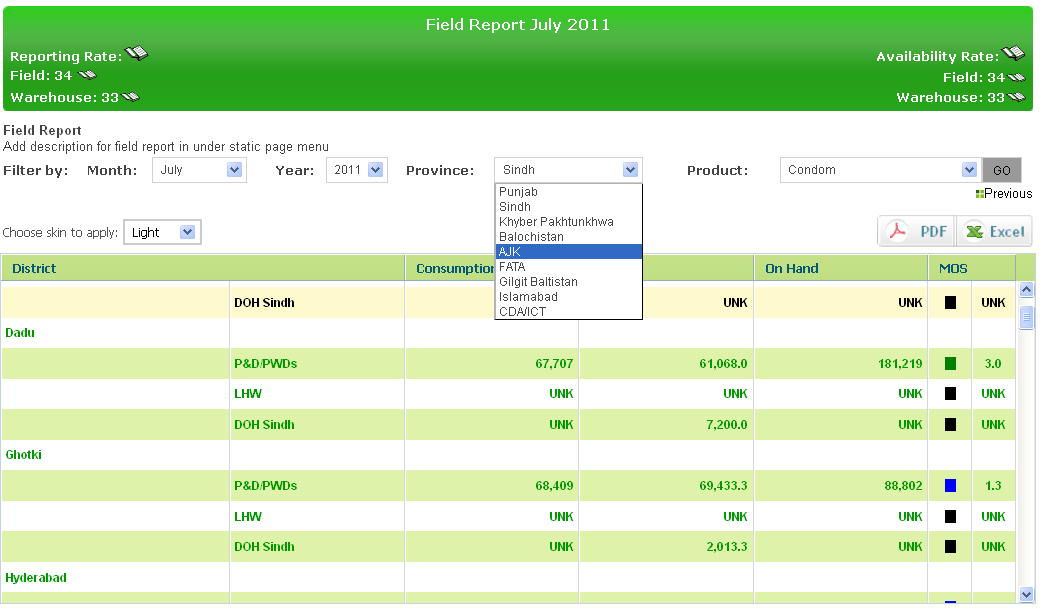
Select Stakeholder for which you want provincial data.

**LMIS Reports: District Summary Report**



Select province for which you need District level Data.

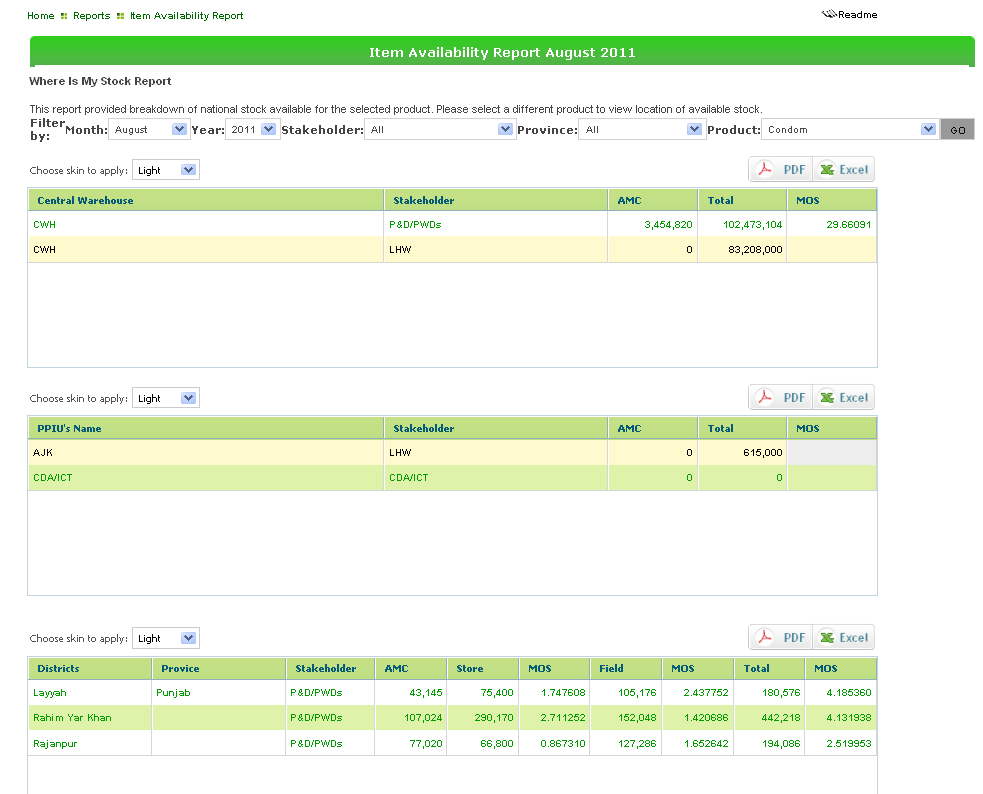
**LMIS Reports: Field Summary Report**



Select province for which you need District level Data.

Select Month, Year, Province, Product and click here.

**Stock Availability Report**



Select stakeholder.

Select province.

Select product and click Go.

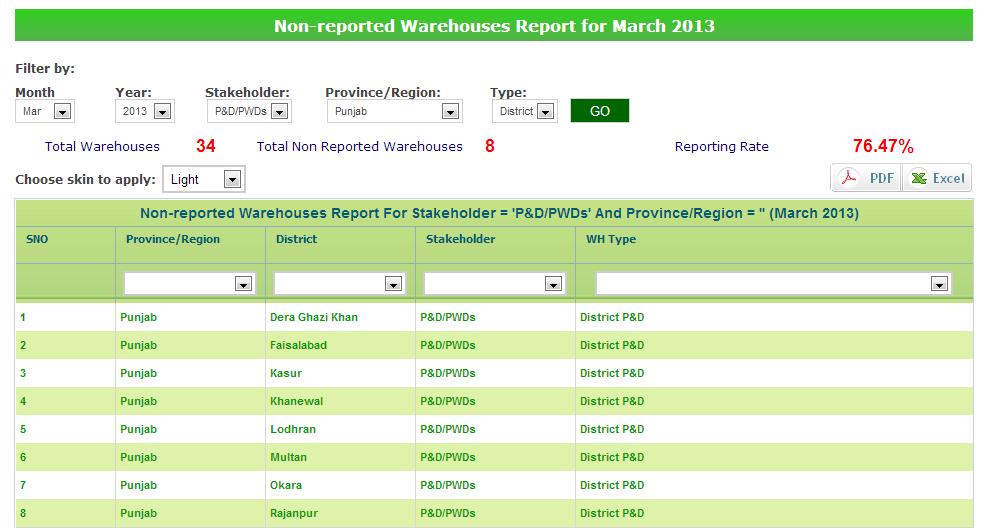
Show filtered results of Districts.

Show filtered results of PPIU.

Show filtered results of central warehouses.

Generate PDF\Excel

**Non Reported Districts**



Select month, year, stakeholder, province and click Go.

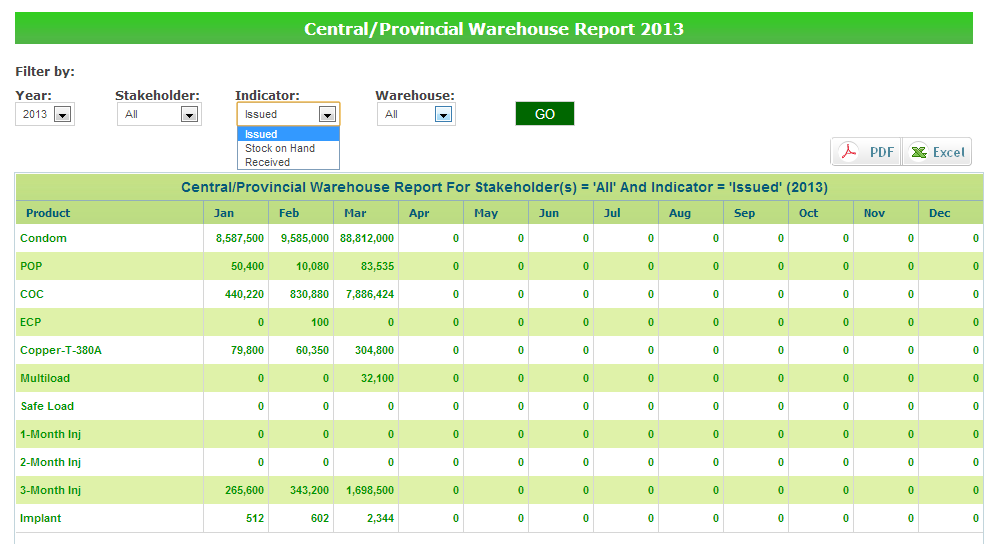
Filter Results by province

Filter Results by District

Filter Results by Stakeholder

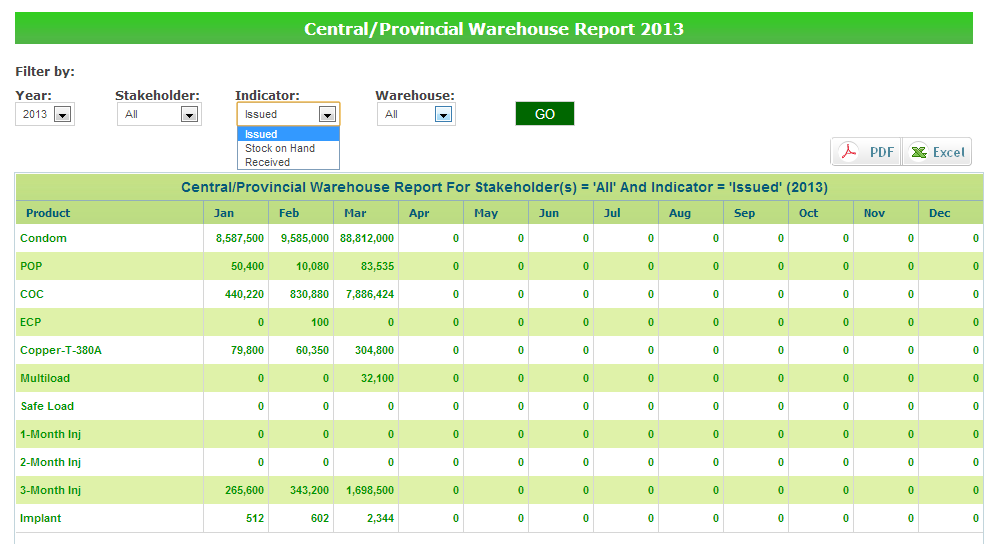
Filter results by Warehouse type

**Central Provincial Warehouse Yearly Report**



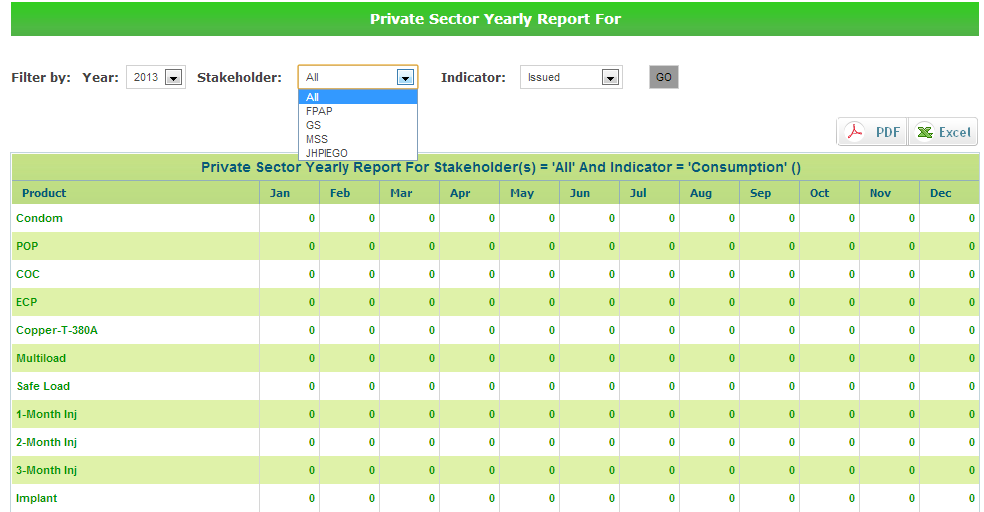
Select Filters

**Provincial Yearly Report**



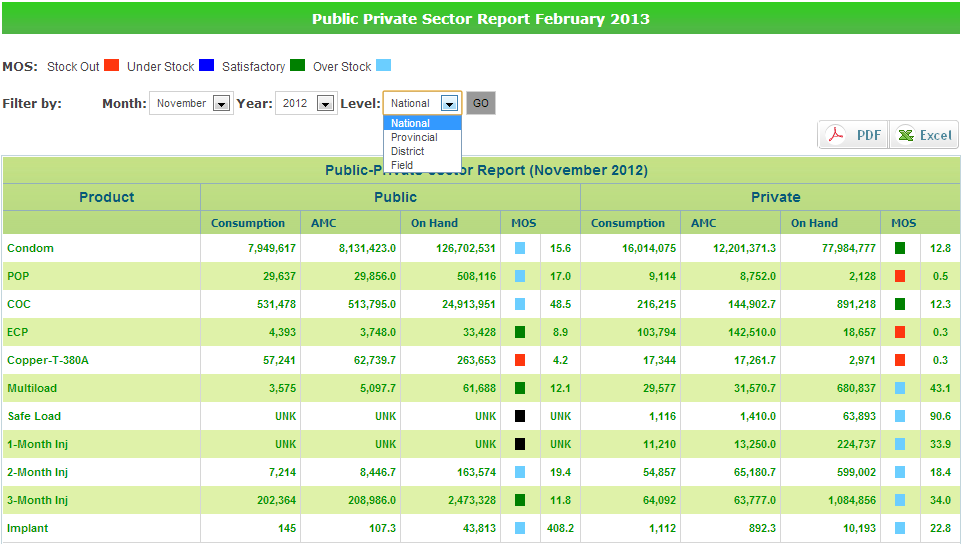
Select Filters

**Private Sector Yearly Report**



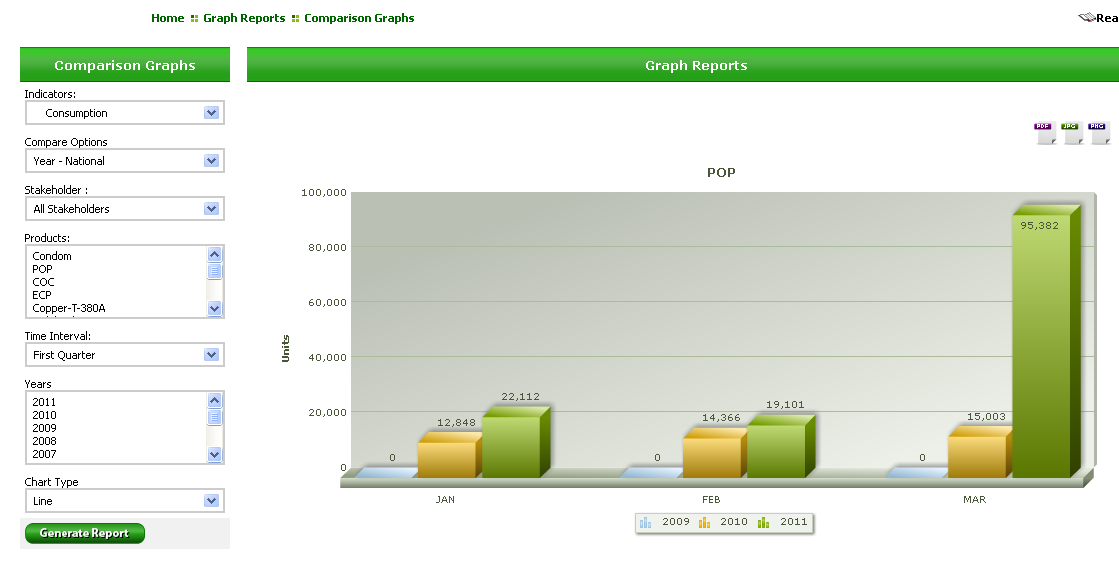
Select Filters

**Public Private Sector Report**



Select Filters



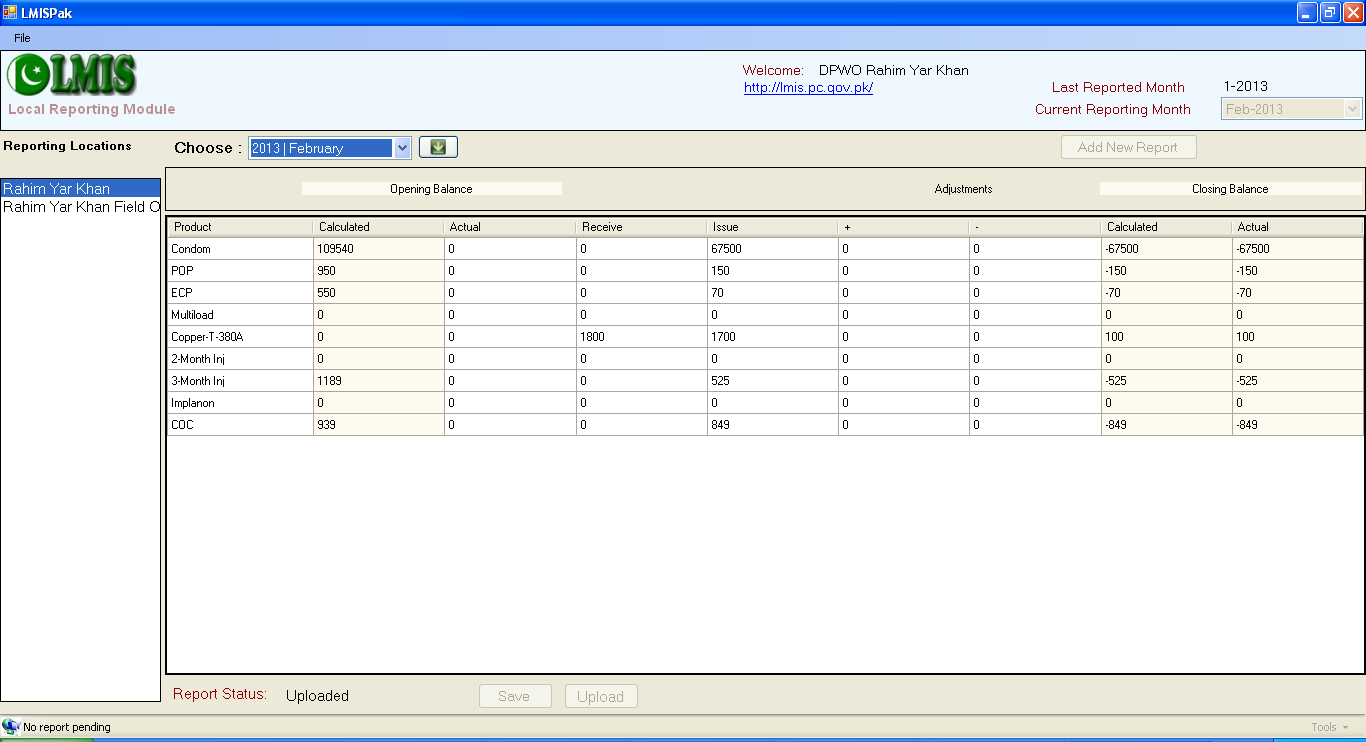
**Graphs  
  
**

**Offline Module**



User Name

Password



Select Report Month

Select Store or Warehouse

Input/View data of Report

Click to Save data in local database

Upload Status of Report

Click to Upload Report on Server

Click to Add New report

# Appendix 5: Glossary

HTTP: the set of rules for exchanging files (text, graphic images, sound, video, and other multimedia files) on the World Wide Web

HTTPS: HTTP with SSL (secure socket layer) encryption for security.

SQL: (Structured Query Language) Is a relational database query language.

****