



 accenture

A Unit of 

State Health Data Resource Centre

Department of Health and Family Welfare, Government of Tamil Nadu

SHDR User Manual

A guide to Access the features and functions of SHDRC Portal



தமிழ்நாடு கொதூர் திட்டத்தின் மூலம் மாநில கொதூர் தகவல் ஆய்வு மையம் (TMDRC) 2011-ம் ஆண்டு முதல் துவங்கப்பட்டது இம்மையம் கொதூர் மற்றும் மக்கள் நல்வாழ்வு துறையின் கீழ் இயங்கும் 21 இயக்கக்களிலிருந்து பெறப்படும் தகவல்கள் அனைத்தையும் பெற்று தொகுப்பாய்வு மற்றும் ஓராய்ச்சி பணிகள் மேற்கொள்ளப்பட்டு துறை ரிதியாக கொள்கை முடிவுகள் எடுக்க உதவுவதற்காக உருவாக்கப்பட்டது

Table of Contents

1. Project Overview	2
1.1 SHDRC Objective	3
1.2 Objective of this training manual	6
1.3 Access of Information in the SHDRC Portal to User Groups	6
1.4 Evolution of SHDRC.....	7
1.5 Accenture – an Overview.....	8
1.6 Departments covered under SHDRC	9
1.7 Storage of Data in the Server	10
1.8 Overview of Development of Data Entry Forms.....	11
2. User Manual for Data Entry	12
2.1 SHDRC Web Portal.....	12
2.2 User Console Page	13
2.3 SHDRC Home Page – in view of a Data Entry Operator	15
2.4 Data Entry Forms	16
2.4.1 Directorate Dropdown.....	17
2.4.2 District Dropdown.....	18
2.4.3 Institution Type Dropdown	19
2.4.4 Institution Dropdown	20
2.4.5 Frequency Dropdown.....	21
2.4.6 Validation based on Frequency	33
2.4.7 Search Criteria.....	34

SHDRC USER MANUAL

2.5 District Level Data Entry Form	35
2.6 Validation for the Data Entered	38
2.7 Saving the Data Entry Form	42
2.8 Resetting the Data Entry Form.....	46
3. UPLOAD DATA FILES	48
3.1 Selecting the required file for Uploading	51
3.2 Uploading the file	52
3.3 Successful Upload	54
3.4 Validation for Uploading.....	55
4. Documentation tab.....	56
5. ZONES	59
5.1 SHDRC Home Page – in the view of a Nodal Officer.....	60
5.2 Zones – an overview	62
6. Dashboard Zone	63
6.1 Drilldown Levels in Zones – State to District	64
6.2 Drilldown Levels in Zones – District to Institution	65
6.3 Indication of Threshold Cross-over.....	66
7. Reports Zone	68
7.1 Functions of Action Tab	72
8. Indicator Zone	99
9. Analysis Zone	103
10. Freehand Zone.....	106

SHDRC USER MANUAL

10.1 Icons in the Freehand Zone	109
10.2 Functions of Icons present in Freehand Zone.....	110
10.3 Adding Filters in Freehand Zone Reports.....	116
10.4 Functions of “More Actions & Options” Icon in Freehand Zones.....	141
10.5 Comparison of Data in Freehand Zone	143
11. Data Management & Quality Audits	148
12. Importance of the Point Source Data for the functioning of SHDRC web portal.....	150
13. Dos & Don’ts.....	151
14. System Administration.....	152
15. Definitions & Abbreviations Used.....	153
16. Contact Details for Help & Support	156

1. Project Overview

Tamil Nadu Health Systems Project is an initiative of the Government of Tamil Nadu, in partnership with the World Bank, NRHM and ICMR to create a Health System repository in Tamil Nadu that is highly accessible, equitable and effective.

State Health Data Resource Center (SHDRC) is to create an integrated, state-level information repository that can enable stakeholders to take informed decision and also bring transparency to health data and thereby empower healthcare institutions, healthcare communities and other stakeholders to take the right actions for improved healthcare.

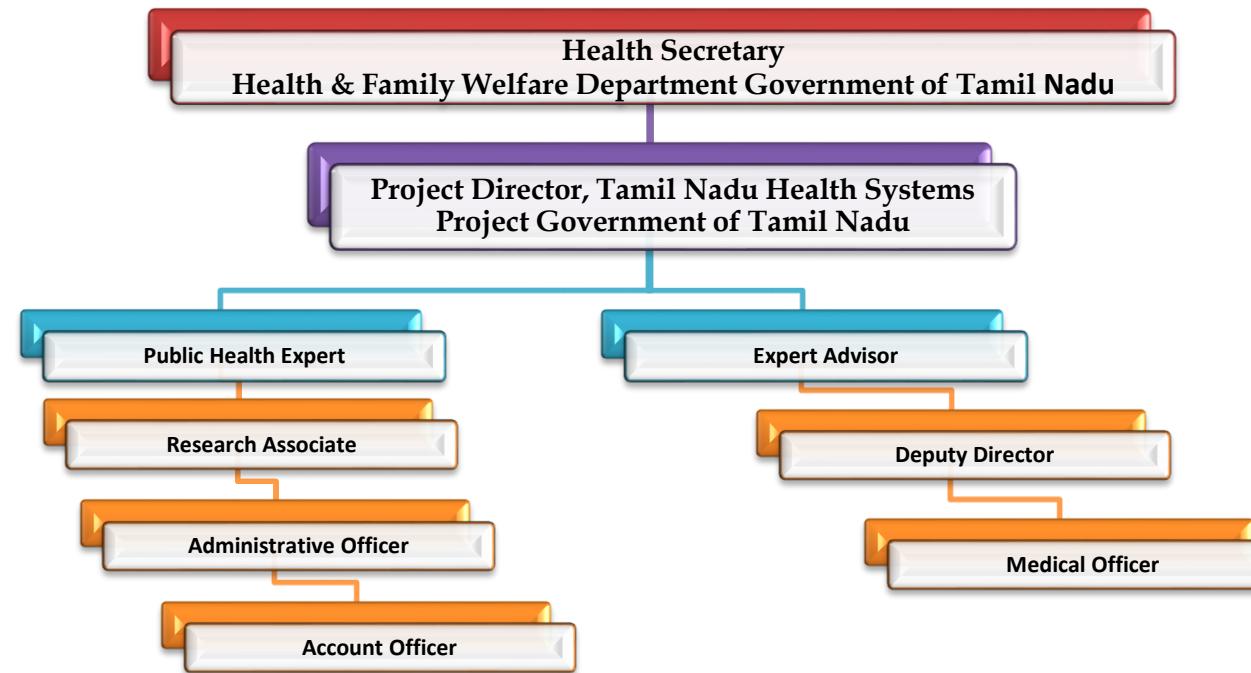
The SHDRC will be an independent, state-level body for assimilating, collating and consolidating health data at the state-level. The structure recommended for the SHDRC setup will be to ensure that the various functions envisaged to be performed by the SHDRC can be realized. The SHDRC set up will specifically focus on the following key functions:

- Health data consolidation at the state-level through the data resource Center from various health data sources.
- Implement, maintain and support the technical infrastructure required for the state data resource center.
- Devise and implement strategies for data quality improvement and data validation
- Develop and maintain health information management related policies and standards.
- Develop, implement/recommend training/capacity building strategies related to data monitoring evaluation.
- Identify, recommend/implement new technologies that can strengthen data monitoring and evaluation functions.
- Liaise and provide support to various Directorates in ensuring that the mandated data reporting requirements (such as the notifiable diseases reporting) from public and private institutions.
- Strengthen health system research through independent research as well by providing mentorship to directorates and other stakeholders at various levels.

The SHDRC had been proposed to be operated by a Steering Committee approach which shall be chaired by the Principal Secretary, Ministry of Health & Family Welfare, Government of Tamil Nadu and led by a Director. The committee will decide on the charter, functions, policies and overall direction for the SHDRC initiative and oversight for ongoing operations, from time to time.

1.1 SHDRC Objective

- Integrate health data from different Directorates/departments under Department of Health and Family Welfare.
- Digitize health data from the year 2010 onwards from across all Directorates and integrate them into SHDRC
- Develop reporting modules/screens for Directorates/Departments that as of date do not have a software application for reporting purpose.
- Develop and operationalize SHDRC data warehouse application along with SHDRC web portal.
- Provide Assistance in Operating SHDRC.
- Maintenance and support of SHDRC data warehouse and SHDRC Web portal.
- Provide training to various levels of users as indicated in Task IV in the next section.

SHDRC Organization chart

SHDRC Funding Partners

- ICMR
- World Bank
- NRHM
- TamilNadu State Government

SHDRC Technical Partners

- ELCOT
- State Data Centre, Perungudi
- M/s.Accenture (Software developers)

Steering Committee of SHDRC

- As per the G.O.(2D) No.105 H&FW dt: 30.12.2011 ,
 - Principal Secretary, Health, GoTN - Chairperson
 - Mission Director, NRHM, GoTN - Vice Chairperson
 - Managing Director, TNMSC - Member
 - Commissioner of Indian Medicine & Homeopathy -Member
 - Project Director, TNHSP -Member
 - Project Director, TANSACS -Member
 - Director, of PH & PM - Member Secretary
 - Director, of Medical &Rural Health Service -Member
 - Director, of Medical Education – Member
 - Director, Family Welfare – Member
 - State TB/ Leprosy/ Blindness Control Officer
 - Representatives from Civil Society/ IMA/ Industry/ Academia

Local Project Review Committee of ICMR

- Dr. Sanjay M. Mehendale, Director -NIE, Chairman-LPRC
- Dr. S. K. Thirunavukkarasu- DD HMIS & SHDRC ,
- Member Secretary- LPRC
- Dr. Soumya Swaminathan, Director-NIRT
- Dr. R. Ramakrishnan, Scientist-F, NIE
- Dr. Vidya Ramachandran, Scientist-F, NIE
- Dr. Capt. M.Kamatchi, Expert Advisor- TNHSP

1.2 Objective of this training manual

- Explain the functionality of each and every feature that has been incorporated in the SHDRC Web Portal.
- Help users to understand the features in the portal and enable speedy performance.
- Provide step by step guidelines on how to use the data entry forms online.
- Provide step by step guidelines on how to upload data files to SHDRC portal using the upload file option.

1.3 Access of Information in the SHDRC Portal to User Groups

- Information in SHDRC Portal is available to users based on their access levels, as in each tier of users have access to different areas of the portal. Each Directorate users have their unique IDs to access the SHDRC portal.
- Information can be viewed by users who have the authorization to the respective data at the different levels (State/District and Institution levels).
- The Respective Directorates are requested to provide the number of users and their corresponding authorization levels, to view information, which has been incorporated in the SHDRC Portal.
- At the Joint Director or Deputy Director level, if need arises to view other Directorate information, access can be granted to the respective Directors only, on request and consent from the other Directorate Head.
- Data in each Directorate is stored separately in the Data Warehouse with high level of security.
- SHDRC Portal and its information is completely restricted to Health Department and is not accessible by the public.

1.4 Evolution of SHDRC

- SHDRC - State Health Data Resource Center is a web based Portal intended to incorporate all the Health Department's health & performance related indicators. These indicators are populated with data from various sources to help Health Department monitor, evaluate, analyze and perform research for improving the objective of public health across the state of Tamil Nadu.
- SHDRC is been funded by various sources like World Bank, NRHM, ICMR and the project is under development by TNHSP - Tamil Nadu Health Systems Project where Accenture is the software consultant company hired to develop the SHDRC application.



- SHDRC project was initiated prior to 2014 but the actual application development has been started from April 4th 2014. The development covers all the 21 Directorates of Health System.
- The development of the SHDRC Portal has been completed on 31st April 2015. After which the Enhancements, Additional requirements, Modifications based on the Directorate's feedback is commenced as an ongoing process till 31st March 2016. Accenture software consultant company would provide another 5 years of support for the project till 31st March 2021.

1.5 Accenture – an Overview

- Accenture one of the world's leading organizations providing management consulting, technology and outsourcing services, with more than 305,000 employees; offices and operations in more than 200 cities in 56 countries; and net revenues of \$30.0 billion for fiscal 2014.
- Accenture's services to clients are spread in various areas of industries like Finance & Banking, Energy, Logistics, Information Technology, Automotive, Infrastructure, Media, Airlines, Defense, Public Service & Governments, Health Care and many more.
- Accenture has a highly developed health analytics capability that has worked with multiple different health payers, providers and governments across the world having more than 4,000 Data Warehousing and Business Intelligence skilled resources having experience creating end-to-end solutions for over 75 Data Warehousing/Business Intelligence projects.
- Accenture has a dedicated Health Care Centre for Excellence located in Chennai catering to large number of health care clients across globe.
- Accenture had a dedicated team of software engineers who are well versed in developing health related information systems using various vendor products. This team has been working at TNHSP location since March 3rd 2014.
- Accenture's team for SHDRC development also includes a medical professional to understand the objective of TNHSP and help articulate the same in the form of software solution.
- The team also consists of dedicated resources for managing and maintaining the SHDRC servers, storage and other hardware systems.

1.6 Departments covered under SHDRC

S. No.	Name of the Directorate
1.	Directorate of Medical and Rural Health Services
2.	Directorate of Public Health and Preventive Medicine
3.	Tamil Nadu Medical Services Corporation
4.	Tamil Nadu State AIDS Control society
5.	National Rural / Urban Health Mission
6.	Revised National Tuberculosis Control Program
7.	Municipal Administration (Health Wing)
8.	Directorate of Family welfare
9.	State Blindness Control Society
10.	Chief Minister's Comprehensive Health Insurance Scheme
11.	State Health Transport Organization
12.	National Leprosy Eradication Program
13.	Drug Control Authority
14.	Medical Recruitment Board
15.	Directorate of Food Safety
16.	Employee's State Insurance
17.	Directorate of Medical Education
18.	Dr. MGR Medical University
19.	Corporation of Chennai (Health Wing)
20.	Department of Indian Medicine
21.	Private Sector

1.7 Storage of Data in the Server

- Once the data is entered by the Data entry user using the Data Entry Form, the data undergoes the below steps before being displayed in SHDRC portal.
- The data entered by user for each of the indicators once submitted will be stored in the database of SHDRC.
- This data is called RAW data which would further required to be processed by SHDRC application.
- The RAW data is processed by ETL component of SHDRC application and then stored in another location of the SHDRC database.
- This processed data stored in the SHDRC database is then displayed in SHDRC portal, via dashboard or indicator zones.
- The same processed data is also used to generate reports using the report zone.

1.8 Overview of Development of Data Entry Forms

- The objective of SHDRC is to create health indicators for all the 21 Directorates.
- The creation of indicators has been done by SHDRC team conducting meetings with all the 21 Directorates separately, understanding the Directorates functions and then formulating the indicators.
- These indicators are then classified into two categories 1. Dashboard Indicators and 2. Performance Indicators. Dashboard indicators are select few critical indicators which have threshold values set and if the threshold value is breached the system will send alerts to respective Directorate's Head.
- Performance indicators are related to overall functioning of the Directorate and grouped into HR, Finance, Process, Output and Outcome categories.
- The data generation for the above indicators are in multiple forms, like data entered into HMIS system, data stored in the directorate's own applications, data stored in MS-excel files. Some of the indicators for which the data is also stored in the form of hardcopy and not entered in any system.
- Data stored in HMIS and other systems and excel files are collected by SHDRC in various forms.
- For indicators where the data is not available or cannot be collected, the Data Entry Forms have been created so that the Directorates can input the data from any location across the state using their data entry operators.

2. User Manual for Data Entry

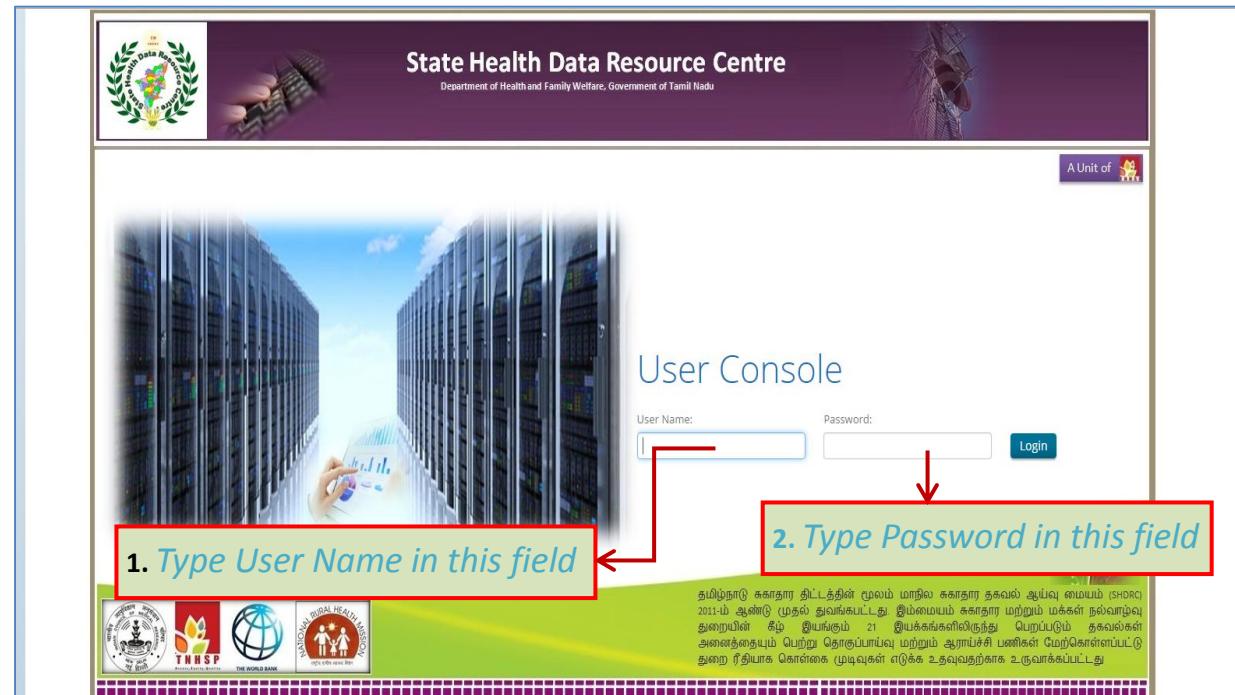
2.1 SHDRC Web Portal

SHDRC Web Portal can be accessed using the link 218.248.44.109:8080/pentaho/Login

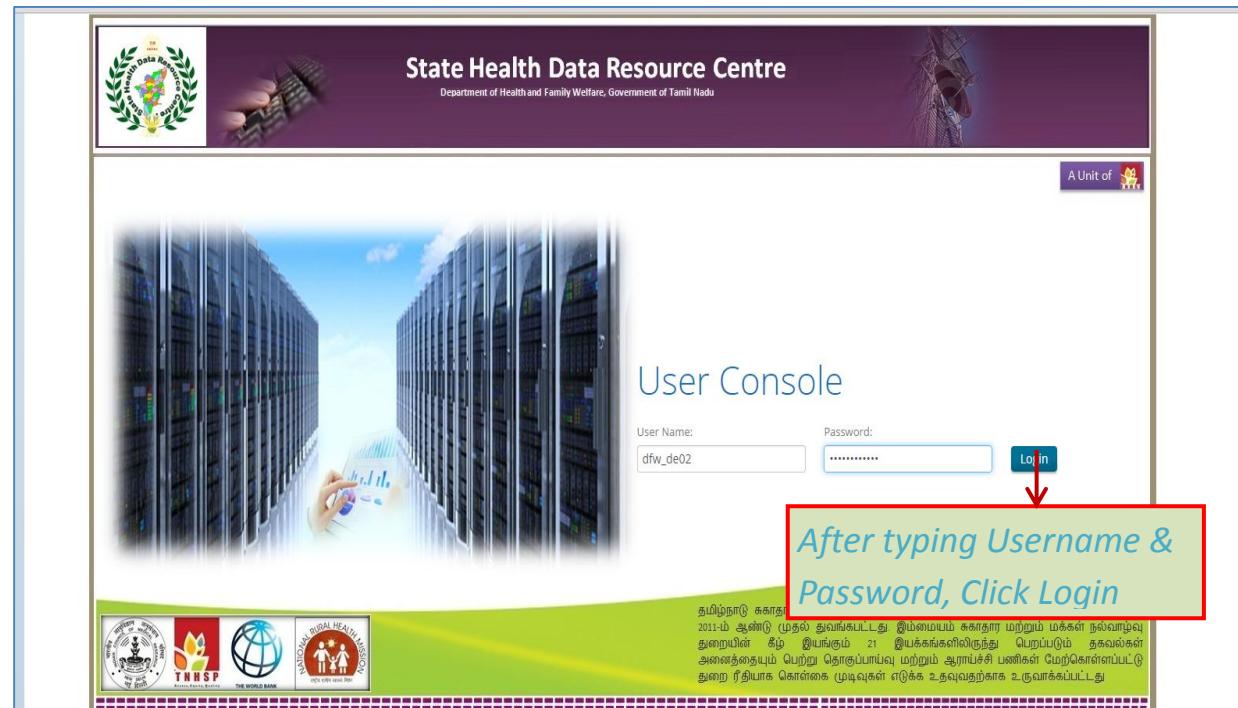
SHDRC supports four tiers of users.

- Tier 1: Project Director (who can access the zones of all Directorates).
- Tier 2: Joint Director and Deputy Director (who can access the zones of the corresponding Directorate).
- Tier 3: Nodal Officer (who can access the data entry forms, upload data files page and zones of the corresponding Directorate).
- Tier 4: Data Entry Operators (who can access the data entry forms and upload data files page of the corresponding Directorate).

2.2 User Console Page



- The Portal takes the users first to the **User Console Page**.
- The User Console Page lets users enter **User Name** and **Password** in the fields provided.



- After entering User Name and Password, users have to click the **Login** button.
- Providing the credentials will enable the users with access to **SHDRC Home Page**.

2.3 SHDRC Home Page – in view of a Data Entry Operator

The screenshot shows the SHDRC Home Page after login for a Data Entry Operator. The top navigation bar includes 'File', 'View', 'Help...', 'Home', and 'State Health Data Resource Centre'. The top right corner displays the username 'dfw_de02'. The left sidebar features three buttons: 'Data Entry Forms' (highlighted with a red arrow), 'Upload Data Files', and 'Documentation'. A green box highlights the 'Data Entry Forms' button with the instruction: 'Click on Data Entry forms, to enter Data on Data entry forms'. The main content area lists various directorates and their status: Directorate of Medical and Rural Health Services (DMS) — Not authorised to view; Directorate of Public Health and Preventive Medicine (DPH) — Not authorised to view; Tamil Nadu State AIDS Control Society — Not authorised to view; National Leprosy Eradication Programme (NLEP) — Not authorised to view; Drug Control Authority (DCA) — Not authorised to view; Directorate of Food Safety (DFS) — Not authorised to view; Chief Minister's Comprehensive Health Insurance Scheme (CMCHIS) — Not authorised to view; State Health Transport Organization (SHTO) — Not authorised to view; Medical Recruitment Board (MRB) — Not authorised to view; Directorate of Medical Education (DME) — Not authorised to view; Employee State Insurance (ESI) — Not authorised to view; Corporation of Chennai - Health Wing (COC) — Not authorised to view; Department of Indian Medicine (DIM) — Not authorised to view; Dr. MGR Medical University (DRMGR) — Not authorised to view. To the right of the list are two images: a modern multi-story building and an entrance gate with a sign.

- After Login, the **SHDRC Home Page** is displayed.
- The **Username** corresponding to the user who has logged in gets displayed on the Right side top of the screen.
- In this case, the current username, **dfw_de02**, is getting displayed at the top right side of screen.
- The Home Page consists of **Tabs** on the **Left Side** of the screen and **Links to Directorates** in the **center** of SHDRC home page.
- By default, all the Directorate links are disabled and greyed out for Data Entry Operator Users.

- Thus Data Entry Operators have access only to the **Data Entry Forms** and **Upload Data Files Page**.
 - As an example, a DFW **Data Entry Operator** has access only to the **DFWData Entry Forms** and the **Upload Data Files page**.
 - The **Documentation** tab consists of the user manual for users on how to use/work with data entry forms.

2.4 Data Entry Forms

- We login through the DFW Data Entry Operator credentials, dfw_de02

- Clicking on **Data Entry Form** tab on the Left Side takes the user to the data entry form of the corresponding directorate.
 - The Data Entry Form has **drop downs** which enable users to choose the **Hierarchy** Level and the **Frequency** for which Data Entry has to be made.

2.4.1 Directorate Dropdown

The screenshot shows the SHDRC Data Entry - Web Form interface. At the top, there are navigation links: File, View, Help..., Home, and a user ID dfw_de02. The main title is State Health Data Resource Centre. Below the title, there is a search bar with fields for Directorate, District, Institution Type, and Institution. The Directorate field is currently set to "Directorate of Far" and "Directorate of Family welfare". To the right of the search bar are dropdown menus for Frequency, Month, and Year, all set to "Select...". A "Search" button is located at the bottom of the search bar. On the left side, there is a sidebar titled "Search Criteria" with options: Directorate - DFW, District - Chennai, Institution - All, and Frequency - Monthly. The main content area is titled "Directorate of Family welfare" and contains a "Classification" section with links to Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Below this is a table with columns: Indicator Name, General Type, General Name, and Indicator Value. The table is currently empty.

- By default, the corresponding **Directorate** is already chosen in the Directorate drop down
- As an example, **Directorate of Family Welfare** is already chosen for the user **dfw_de02**.

2.4.2 District Dropdown

The screenshot shows the SHDRC DATA Entry - Web Form interface. At the top, there are dropdown menus for 'Directorate' (set to Directorate of Family Welfare) and 'District' (set to Chennai). Below these are dropdowns for 'Frequency' (set to Select), 'Month' (set to Select), and 'Year' (set to Select). A 'Search' button is located below the dropdowns. To the left, a sidebar titled 'Search Criteria' displays the selected values: 'Directorate - DFW', 'District - Chennai', 'Institution - All', and 'Frequency - Monthly'. The main content area is titled 'Classification' and shows a table header for 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value'. The table body is currently empty.

- By default, the corresponding **District** is already chosen in the District drop down.
- As an example, **Chennai** is already displayed for the user **dfw_de02** belonging to Chennai district.

2.4.3 Institution Type Dropdown

The screenshot shows the SHDRC DATA Entry - Web Form interface. At the top, there are dropdown menus for 'Directorate' (set to 'Directorate of Far'), 'District' (set to 'Chennai'), and 'Institution Type'. The 'Institution Type' dropdown is open, displaying a list of options: 'All', 'ESI DISPENSARY', 'ESI HOSPITAL' (which is selected and highlighted in blue), 'MED. COLL. HOSPITAL', and 'UHP'. Below the dropdown, the text 'Directorate of Family welfare' is visible. On the left side, there is a sidebar titled 'Search Criteria' with sections for 'Directorate - DFW', 'District - Chennai', 'Institution - All', and 'Frequency - Monthly'. To the right of the search criteria, there is a table with columns: 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value'. The first row of the table is highlighted in yellow.

- Certain dropdowns like **InstitutionType**, **Program**, etc. are applicable to certain directorates only and are displayed only for those directorates.
- User can select the corresponding Institution Type under the District (in this example **Chennai District**) for entering the data for the indicators.

2.4.4 Institution Dropdown

The screenshot shows the SHDRC DATA Entry - Web Form interface. At the top, there are dropdown menus for Directorate (Directorate of Far), District (Chennai), and Institution Type (ESI HOSPITAL). Below these are dropdowns for Frequency, Month, and Year, each with "Select" options. A "Search" button is located to the right of the frequency dropdown. The main search area has tabs for Directorate of Family welfare, Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Under "Quality Assurance committee", there is a "Vehicles" tab. On the left, a sidebar lists "Search Criteria": Directorate - DFW, District - Chennai, Institution - All, and Frequency - Monthly. The "Institution" dropdown is highlighted with a blue box, and its dropdown menu is open, showing options: Esi Hospital Ayan, All, Ayanavaram, Esi Hospital Ayanavaram, Esi Hospital Kk Nagar, and Kk Nagar.

- The **Institution** drop down enables users to select the required institution.
- Data Entry Operators can choose **all** in the **Institution** drop down to make data entry at the **district level for all Institutions**.

2.4.5 Frequency Dropdown

The screenshot shows the SHDRC DATA Entry - Web Form interface. On the left, there's a sidebar titled 'Search Criteria' with dropdown menus for 'Directorate' (set to 'Directorate of ME'), 'District' (set to 'Chennai'), and 'Institution' (set to 'Govt. Kilpauk Me'). The main area has tabs for 'Classification' and 'Directorate of Medical Education'. A 'Frequency' tab is active, displaying a dropdown menu with options: Daily (selected), Weekly, Monthly, Quarterly, and Yearly. Below the dropdown is a 'Search' button. At the bottom of the page are 'Submit', 'Reset Form', and 'Close' buttons.

- In the **Frequency** tab, Users can choose the required **Frequency** of Data Entry.
- The various frequencies that are available are **Daily, Weekly, Monthly, Quarterly** and **Yearly**.

2.4.5.1 Frequency Daily Dropdown

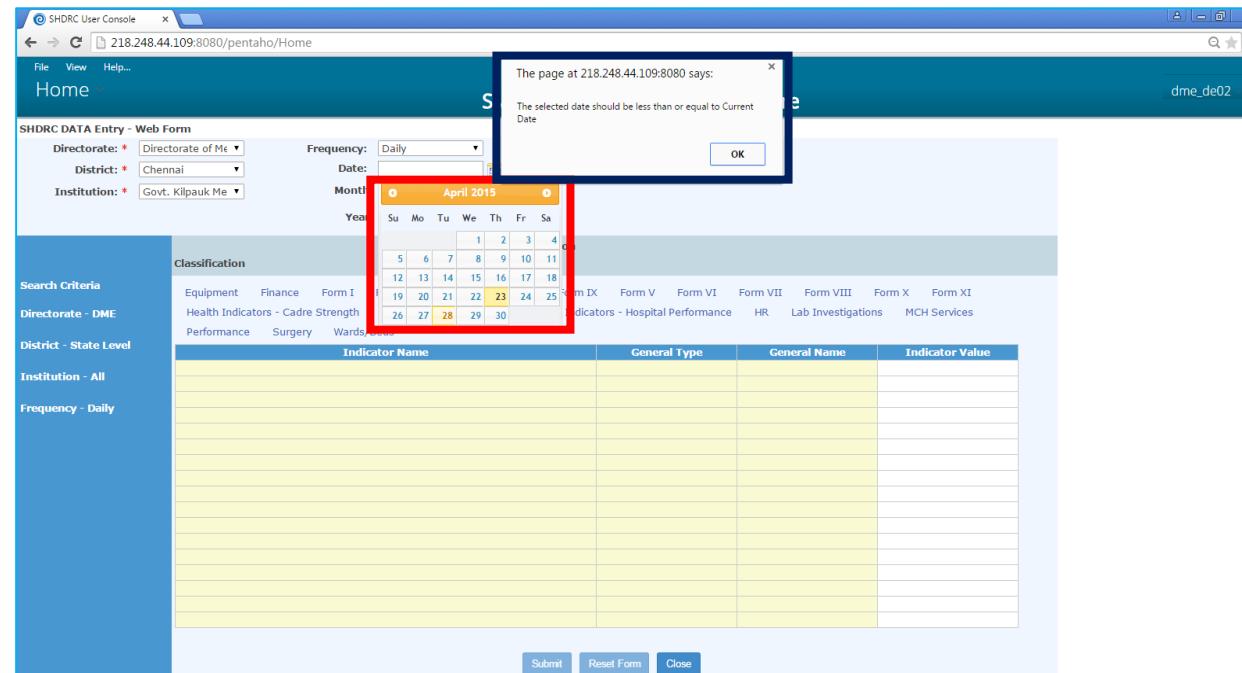
The screenshot shows the SHDRC User Console interface. At the top, there are dropdown menus for Directorate (Directorate of M&H), District (Chennai), and Institution (Govt. Kilpauk Me). Below these, the 'Frequency' dropdown is set to 'Daily'. A pink box highlights the 'Frequency' field and the 'Date' input field below it. A red box highlights the date picker calendar for April 2019, which shows the days from 1 to 30. A blue callout bubble contains the following text:

Daily is selected, then

- 1. Date field will be enabled.*
- 2. Month & Year will get disabled*

The main form area has columns for 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value'. At the bottom are buttons for 'Submit', 'Reset Form', and 'Close'.

- When the user chooses **Daily** as the frequency, the corresponding **Date** has to be chosen in the **Date drop down**.
- Clicking on the **Date Picker icon** enables the users to select the required date.



- When the user selects date **greater** than the **currentdate**, user is prompted with warning message saying that "**The selected date should be less than or equal to Current Date**".
- The Month and Year tabs would be grayed out automatically.

2.4.5.2 Frequency Weekly Dropdown

The screenshot shows the SHDRC DATA Entry - Web Form interface. On the left, there's a sidebar with search criteria: Directorate - DME, District - State Level, Institution - All, and Frequency - Daily. The main area has tabs for Classification, Equipment, Finance, and various forms (I-XI). A red box highlights the 'Frequency' dropdown set to 'Weekly'. Below it, a dropdown for 'Week' shows options 1 through 5, with '3' selected. Another dropdown for 'Month' and a year dropdown are also visible. At the bottom are 'Submit', 'Reset Form', and 'Close' buttons.

- If user chooses **Weekly** as the frequency, the corresponding **week**, **month** and **year** has to be selected.
- The corresponding **week** has to be chosen in the **Week drop down** (from 1 – 5, where 1 stands for First week of the month, 2 stands for Second week of the month and so on).
- Once the week is selected, required **month** should be selected from the month tab.
- Then the **year** should be selected from the year tab.

The screenshot shows a web-based data entry form for the SHDRC. On the left, there's a sidebar with 'Search Criteria' sections for Directorate (DME), District (Chennai), Institution (All), and Frequency (Daily). The main area has fields for 'Directorate of Medical Education', 'Classification' (with links to various reports like Equipment, Finance, Form I, etc.), and a table for 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value'. A modal window is displayed in the center, showing an error message: 'The page at 192.168.100.10:8080 says: The selected (month&year) should be less than or equal to current (month&year)'. The 'Month' dropdown, which is set to 'August' and 'Year' dropdown, which is set to '2015', are both highlighted with a red border.

- If the user selects month & year **greater** than the **currentmonth & year**, user is prompted with warning message saying that “**The selected (month & year) should be less than or equal to current (month & year)**”.

2.4.5.3 Frequency Monthly Dropdown

The screenshot shows the SHDRC DATA Entry - Web Form interface. At the top, there are dropdown menus for Directorate (Directorate of Far), District (Chennai), Institution Type (ESI HOSPITAL), and Institution (Esi Hospital Ayan). Below these, there is a search bar with a 'Search' button. To the right of the search bar is a dropdown menu labeled 'Frequency' with options: Monthly, Quarterly, and Yearly. The 'Monthly' option is selected and highlighted with a red box. A year dropdown menu is also present. On the left side, there is a sidebar titled 'Search Criteria' with sections for Directorate - DFW, District - Chennai, Institution - All, and Frequency - Monthly. The main content area is titled 'Directorate of Family welfare' and contains a 'Classification' section with various categories like Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Below this is a table with columns: Indicator Name, General Type, General Name, and Indicator Value. The entire interface has a light blue background.

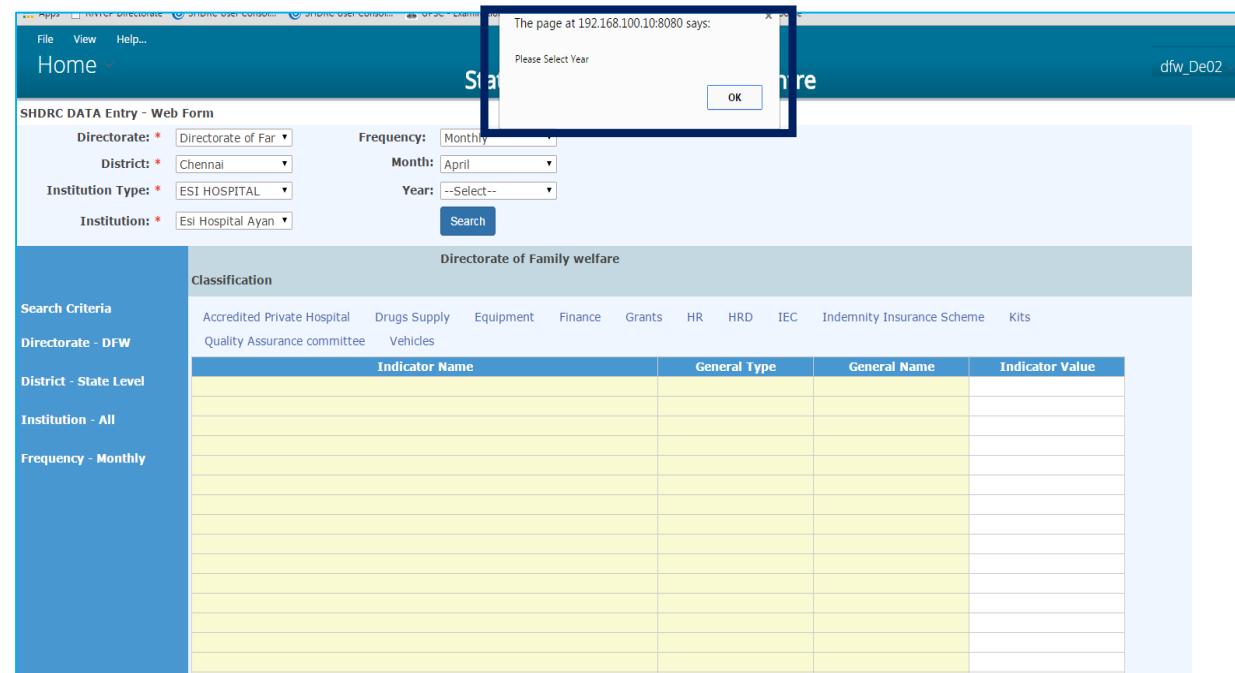
- When the user chooses **Monthly** as the frequency, the corresponding **month** has to be chosen from the Month tab.
- The **Datepicker** and the **Datedropdown** will **not be available** for Weekly/Monthly/Quarterly/Yearly frequencies.

The screenshot shows the SHDRC DATA Entry - Web Form interface. On the left, there is a sidebar titled "Search Criteria" with four sections: "Directorate - DFW", "District - Chennai", "Institution - All", and "Frequency - Monthly". The main area has tabs for "Healthcare", "Social welfare", "Finance", "Grants", "HR", "HRD", "IEC", "Indemnity Insurance Scheme", and "Kits". A search bar at the top right contains the text "dfw_de02". In the center, there are several dropdown menus under "SHDRC DATA Entry - Web Form". One dropdown, labeled "Frequency:" with the value "Monthly", has its dropdown menu open, showing months from April to December. Another dropdown, labeled "Month:" with the value "April", is also open. The entire dropdown menu for "Month:" is highlighted with a red box.

- The corresponding **month** has to be chosen in the **Month drop down**.

The screenshot shows the SHDRC DATA Entry - Web Form interface. On the left, there's a sidebar with 'Search Criteria' sections: Directorate - DFW, District - Chennai, Institution - All, and Frequency - Monthly. The main area has fields for Directorate (Directorate of Far), District (Chennai), Institution Type (ESI HOSPITAL), and Institution (Esi Hospital Ayan). Below these are dropdowns for Frequency (Monthly) and Month (April). A red box highlights the 'Years' dropdown, which is open and shows a list of years from 2015 down to 2028. The year 2015 is selected and highlighted in blue. The background shows some categories like Health, Welfare, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits.

- The corresponding **year** has to be chosen in the **Year drop down**.



- When the user chooses **Monthly** as the frequency, and does not select year, there is a pop-up saying “**Please Select Year**”.
- When the user chooses **Monthly** as the frequency, and does not select month, there is a pop-up saying “**Please Select Month**

The screenshot shows a web browser window for the SHDRC DATA Entry - Web Form. On the left, there's a sidebar with 'Search Criteria' sections for Directorate (DFW), District (Chennai), Institution (All), and Frequency (Monthly). The main area has fields for Directorate (Directorate of Family welfare), Frequency (Monthly), Month (August), and Year (2020). A search button is also present. A modal dialog box is overlaid on the page, displaying the message: "The page at 192.168.100.10:8080 says: The selected year should be less than or equal to current year". An 'OK' button is at the bottom right of the dialog.

- When the user selects month & year **greater** than the **currentmonth & year**, user is prompted with warning message saying that "**The selected year should be less than or equal to current year**".

2.4.5.4 Frequency Quarterly Dropdown

The screenshot shows a web-based data entry form for the Directorate of Family Welfare (DFW). The search criteria on the left are set to: Directorate - DFW, District - Chennai, Institution - All, and Frequency - Monthly. The main area displays a table titled 'Classification' with columns for Indicator Name, General Type, General Name, and Indicator Value. A modal dialog box is overlaid on the page, stating: 'The page at 192.168.100.10:8080 says: There is no indicator name for Quarterly frequency' with an 'OK' button.

- Similar to Monthly Frequency, when **Quarterly** frequency is chosen, the corresponding **Quarter (1-4)** and **Year** has to be chosen from the dropdowns.
- DFW Directorate does not have the Indicators with Quarterly time periods.

2.4.5.5 Frequency Yearly Dropdown

The screenshot shows a web-based application window titled "SHDRC User Console" with the URL "192.168.100.40:8080/pentaho/Home?locale=en_US". The main title bar says "State Health Data Resource Centre" and the user is logged in as "mrb_de01". The left sidebar has sections for "Search Criteria" (Directorate - MRB, District - State Level, Frequency - Daily) and "Indicator Name" (Finance, HR, Infrastructure, Performance, Recruitment, Vehicles). The main content area displays a table titled "Medical Recruitment Board" with columns: Indicator Name, General Type, General Name, and Indicator Value. A dropdown menu for "Frequency" is open, showing options: Yearly, Daily, Weekly, Monthly, Quarterly, and Yearly (which is selected). Other dropdowns for "Date" and "Month" are disabled.

- Yearly frequency is applicable to certain directorates only and so displayed only for those directorates.
- User can select yearly option in frequency dropdown and the corresponding year has to be chosen in the year dropdown to enter the data for the indicators. Date field and month dropdown will be disabled automatically.

2.4.6 Validation based on Frequency

The screenshot shows a web-based data entry form for the Directorate of Family Welfare (DFW). The search criteria are set to: Directorate: DFW, District: Chennai, Institution Type: All, and Institution: All. The frequency is selected as 'Quarterly'. A modal dialog box is displayed, stating 'The page at 192.168.100.10:8080 says: There is no indicator name for Quarterly frequency' with an 'OK' button. The main table area is titled 'Classification' and lists various categories like Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, Kits, Quality Assurance committee, and Vehicles. Below this is a table with columns: Indicator Name, General Type, General Name, and Indicator Value, which is currently empty.

- Each **directorate** has its **own frequency** for which data is entered.
- Frequency of data entry **varies** among directorates from **one** frequency to **many** frequencies
- When user chooses a frequency, for which there are no indicators in a particular directorate, user is prompted with warning message saying that "**There is no indicator name for (the not applicable) frequency**".
- As an example, in DFW there are **no** indicators for **quarterly** frequency.
- Thus there is a prompt saying "**There is no indicator name for Quarterly frequency**".

2.4.7 Search Criteria

The screenshot shows the SHDRC DATA Entry - Web Form interface. At the top, there are dropdown menus for Directorate (DFW), Frequency (Monthly), Month (April), and Year (2015). Below these are dropdowns for District (Chennai), Institution Type (ESI HOSPITAL), and Institution (Esi Hospital Ayan). A 'Search' button is located to the right of the dropdowns.

Classification: Directorate of Family welfare

Indicator Name

Indicator Name	General Type	General Name	Indicator Value
No. of accredited Pvt. Hospitals at beginning of the Month			
No. of Pvt Hospitals accredited during the month			
No.of Pvt. Hospitals pending for accreditation from 1st April			
No. Pvt. Hospitals applied for accreditation for the current month			
Reason for pending for accreditation			
Total No. of accredited Pvt. Hospitals at end of the month			

A red arrow points from a blue callout box labeled "Search criteria" to the left sidebar where the search results are displayed.

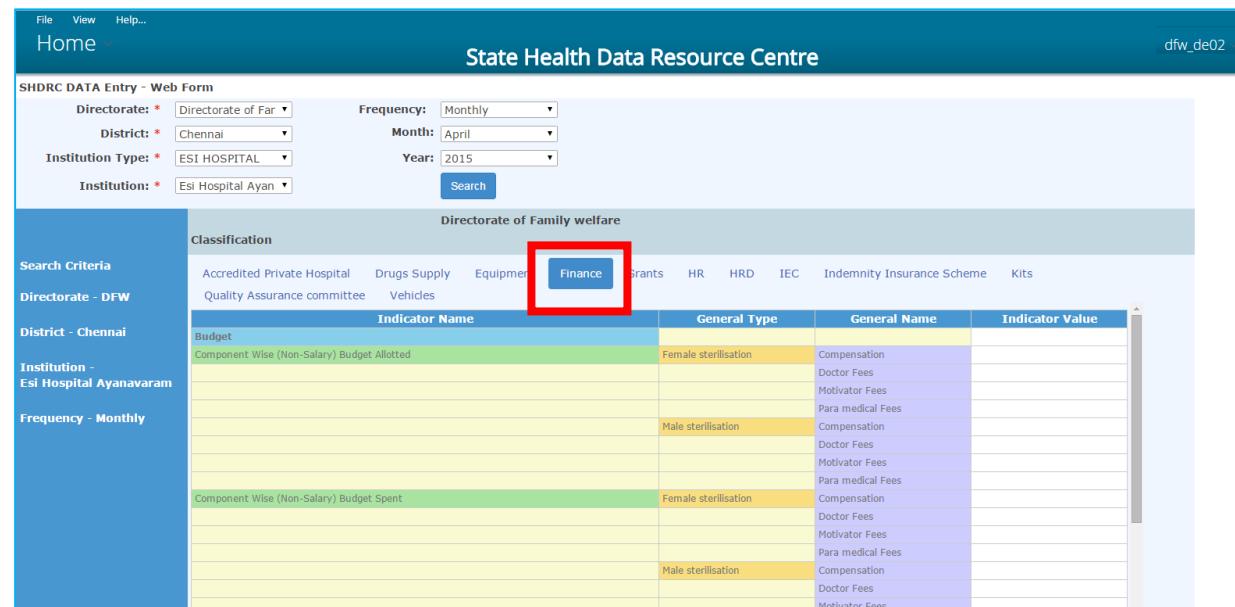
- When the **Search** button is clicked, the **search criteria** get displayed on the left side of the data entry form.
- In this case, the search criteria according to the chosen fields is shown as **Directorate - DFW; District - Chennai; Institution - ESI Hospital Ayanavaram; Frequency - Monthly**.

2.5 District Level Data Entry Form

The screenshot shows the SHDRC DATA Entry - Web Form interface. At the top, there are dropdown menus for Directorate (Directorate of Far), Frequency (Monthly), Month (April), Year (2015), and Institution (Esi Hospital Ayan). Below these, a 'Search' button is visible. To the right, the title 'State Health Data Resource Centre' and a session identifier 'dfw_de02' are displayed. The main area is titled 'Directorate of Family welfare' and contains a 'Classification' section with tabs for Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Under 'Accredited Private Hospital', several indicators are listed, including 'No. of accredited Pvt. Hospitals at beginning of the Month', 'No. of Pvt Hospitals accredited during the month', 'No.of Pvt. Hospitals pending for accreditation from 1st April', 'No. Pvt. Hospitals applied for accreditation for the current month', 'Reason for pending for accreditation', and 'Total No. of accredited Pvt. Hospitals at end of the month'. A callout bubble points to the 'Indicator Value' column with the text 'Column to enter the Value for indicator'. Another callout bubble points to the table with the text 'After clicking Search Indicators List get displayed for the 1st Classification by default'.

- After all the required options have been chosen from the drop downs, User has to click on the **Search** button.
- When the **Search** button is clicked, the Indicators corresponding to the selected **search criteria** get displayed on the left side of the data entry form (in green background color).
- The various **classifications of Indicators** that correspond to the chosen **frequency** get displayed as **tabs** in the data entry form.

- Clicking on each **Classification tab** displays the indicators that are grouped under that particular **classification**.
- By default, the **first classification** is already chosen and its **indicators** are displayed.
- It is to be noted that once the Search button is clicked, the Search criteria (i.e.) the values in the drop down cannot be modified.
- If the user wants to modify the same, the **Reset** button at the bottom of the page has to be clicked.



The screenshot shows the SHDRC DATA Entry - Web Form interface. On the left, there's a sidebar with 'Search Criteria' and dropdowns for 'Directorate' (DFW), 'District' (Chennai), 'Institution Type' (ESI HOSPITAL), and 'Institution' (ESI Hospital Ayan). Above these are fields for 'Frequency' (Monthly), 'Month' (April), and 'Year' (2015), with a 'Search' button. The main area is titled 'Directorate of Family welfare' and contains a table with tabs for 'Accredited Private Hospital', 'Drugs Supply', 'Equipment', 'Quality Assurance committee', 'Vehicles', and 'Finance'. The 'Finance' tab is highlighted with a red box. The table has columns for 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value'. Data rows include 'Component Wise (Non-Salary) Budget Allotted' and 'Component Wise (Non-Salary) Budget Spent' for both Female and Male sterilisation categories, with various indicator values listed.

Indicator Name	General Type	General Name	Indicator Value
Component Wise (Non-Salary) Budget Allotted	Female sterilisation	Compensation Doctor Fees Motivator Fees Para medical Fees	
	Male sterilisation	Compensation Doctor Fees Motivator Fees Para medical Fees	
Component Wise (Non-Salary) Budget Spent	Female sterilisation	Compensation Doctor Fees Motivator Fees Para medical Fees	
	Male sterilisation	Compensation Doctor Fees Motivator Fees	

- As stated, clicking on each **Classification tab** displays the indicators that are grouped under that particular **classification**.
- As an example, the screenshot shows a different tab "**Finance**" been chosen and its indicators getting displayed.

The screenshot shows the SHDRC software interface. On the left, there's a sidebar with 'Search Criteria' and specific details: Directorate - DFW, District - Chennai, Institution - Esi Hospital Ayanavaram, and Frequency - Monthly. The main area has a title 'State Health Data Resource Centre' and a sub-section 'Directorate of Family welfare'. It features a 'Classification' tab bar with several options like Accredited Private Hospital, Drugs Supply, Equipment, Finance (which is active), Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Below this is a table with two columns of data. The first column contains indicator names: 'Female sterilisation', 'Male sterilisation', 'Female sterilisation', and 'Male sterilisation'. The second column contains general types: 'Para medical Fees', 'Compensation', 'Doctor Fees', 'Motivator Fees', and so on. Callout boxes with arrows point from labels to these columns: a blue box labeled 'General Type' points to the second column, and another blue box labeled 'General Name' points to the third column. At the bottom of the table are buttons for 'Submit', 'Reset Form', and 'Close'.

- The Indicators are displayed with **IndicatorNames** in the **first** column, **GeneralTypes** in the **second** column and the **GeneralNames** in the **third** column.
- The user has to enter **Indicatorvalues** in the **fourth** column corresponding to the particular Indicator.

2.6 Validation for the Data Entered

The screenshot shows a web-based application interface for the SHDRC User Console. On the left, there's a sidebar with search criteria: Institution Type (ESI HOSPITAL), Year (2015), and Institution (Esi Hospital Ayan). The main area is titled 'Directorate of Family welfare' and contains a table for 'Classification'. The table has columns for 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value'. The first row of the table is highlighted in green and contains the following data:

Indicator Name	General Type	General Name	Indicator Value
No. of accredited Pvt. Hospitals at beginning of the Month			
No. of Pvt Hospitals accredited during the month			
No.of Pvt. Hospitals pending for accreditation from 1st April			
No. Pvt. Hospitals applied for accreditation for the current month			
Reason for pending for accreditation			
Total No. of accredited Pvt. Hospitals at end of the month			

A modal dialog box is overlaid on the screen, displaying the message: "The page at 192.168.100.10:8080 says: Please enter atleast one indicator value". There is an "OK" button at the bottom right of the dialog.

- Users are required to enter at least **one indicator value** before submitting the form.
- When a user submits a nil form, user is prompted with warning message saying that "**Please enter at least one indicator value**".

The screenshot shows a data entry interface for the Directorate of Family Welfare. On the left, there's a sidebar with search criteria: Directorate - DFW, District - Chennai, Institution - Esi Hospital Ayanavaram, and Frequency - Monthly. The main area has tabs for Classification, Accredited Private Hospital, Drugs Supply, Equipment, Finance (which is selected), Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Below these tabs is a table with two rows of data. A modal dialog box is overlaid on the page, displaying the message: "The page at 192.168.100.10:8080 says: Please Enter Numeric value in Indicator Value field". The "OK" button of this dialog is visible. At the bottom of the main form, there are buttons for Submit, Reset Form, and Close.

- The Data Entry form **does not allow** users to save **Alphabetic entries** for the Indicators.
- When a user tries to save alphabetic character inputs, user is prompted with warning message saying that "**Please Enter Numeric value in Indicator Value field**".

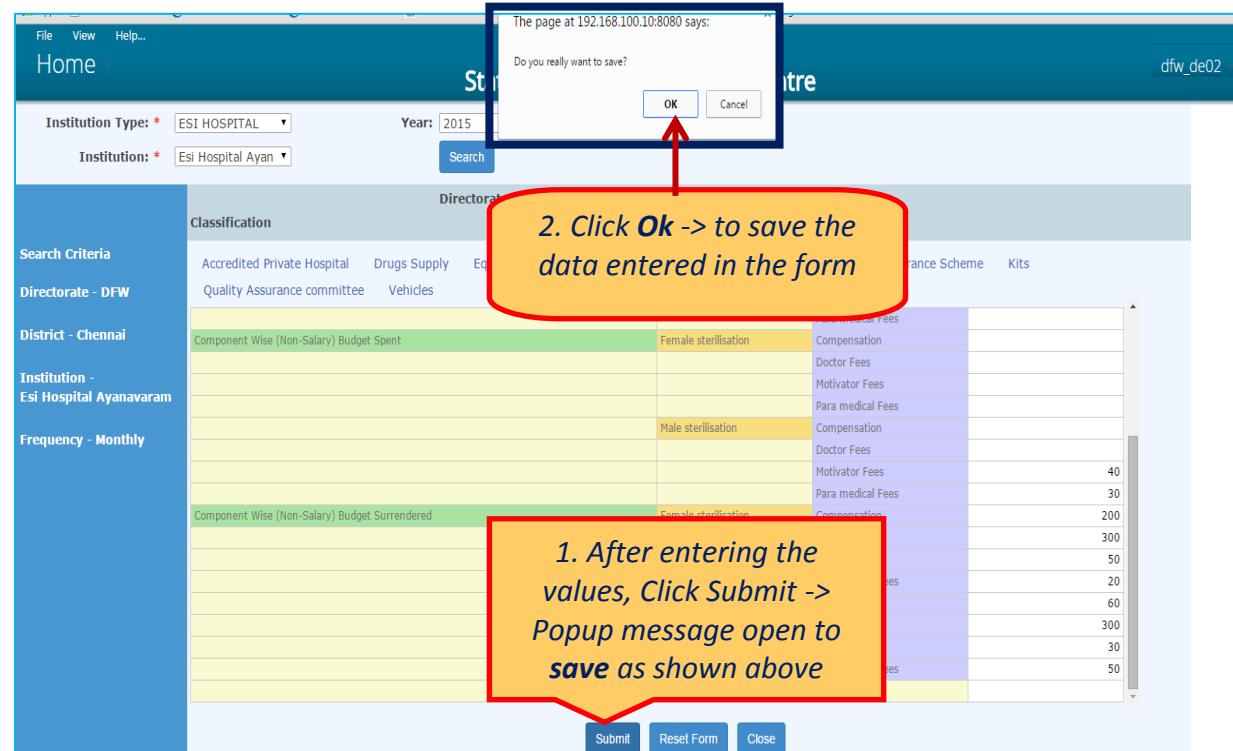
The screenshot shows a web-based application interface for the Directorate of Family Welfare. On the left, there's a sidebar with 'Search Criteria' sections for 'Directorate - DFW', 'District - Chennai', 'Institution - Esi Hospital Ayanavaram', and 'Frequency - Monthly'. The main area has tabs for 'Classification' and several other categories like Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, and Kits. Under the 'Finance' tab, there's a table with two rows of data. The first row has columns for 'Component Wise (Non-Salary) Budget Spent' (green), 'Female sterilisation' (yellow), and 'Para medical Fees' (purple). The second row has columns for 'Component Wise (Non-Salary) Budget Surrendered' (green), 'Male sterilisation' (yellow), and 'Para medical Fees' (purple). A red box highlights the value '2@' in the bottom-right cell of the second row. A modal dialog box is overlaid on the page, containing the text 'The page at 192.168.100.10:8080 says:' and 'Please Enter Numeric value in Indicator Value field'.

- The Data Entry form **does not allow** users to save **Special character entries** for the Indicators.
- When a user tries to save special character inputs, user is prompted with warning message saying that "**Please Enter Numeric value in Indicator Value field**".

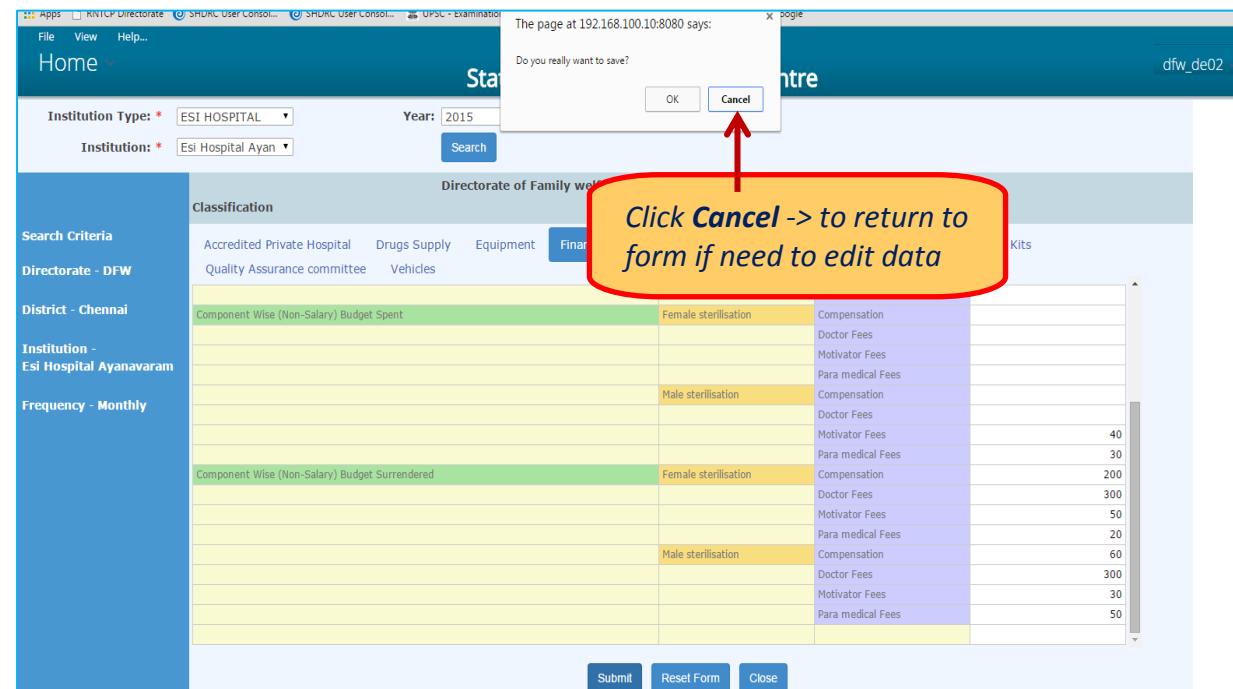
The screenshot shows a web-based application interface for the SHDRC User Console. On the left, there's a sidebar with 'Search Criteria' sections for 'Directorate - DFW', 'District - Chennai', 'Institution - Esi Hospital Ayanavaram', and 'Frequency - Monthly'. The main area has tabs for 'Classification' and 'Directorate of Family welfare'. Under 'Classification', there are several categories like 'Accredited Private Hospital', 'Drugs Supply', 'Equipment', etc. A 'Finance' tab is selected. Below these tabs is a table with two rows. The first row has columns for 'Component Wise (Non-Salary) Budget Spent' and 'Female sterilisation'. The second row has columns for 'Component Wise (Non-Salary) Budget Surrendered' and 'Female sterilisation'. In the 'Female sterilisation' column of the second row, the value '23.66666' is highlighted with a red box. At the top of the page, a modal window is displayed with the message 'The page at 192.168.100.10:8080 says: Please enter upto three decimal values' with an 'OK' button.

- The Data Entry form **does not allow** users to save **Decimal Values with more than 3 places after the decimal point** for the Indicators.
- When a user tries to save decimal value with more than 3 decimal inputs, user is prompted with warning message saying "**Please enter up to three decimal values**"

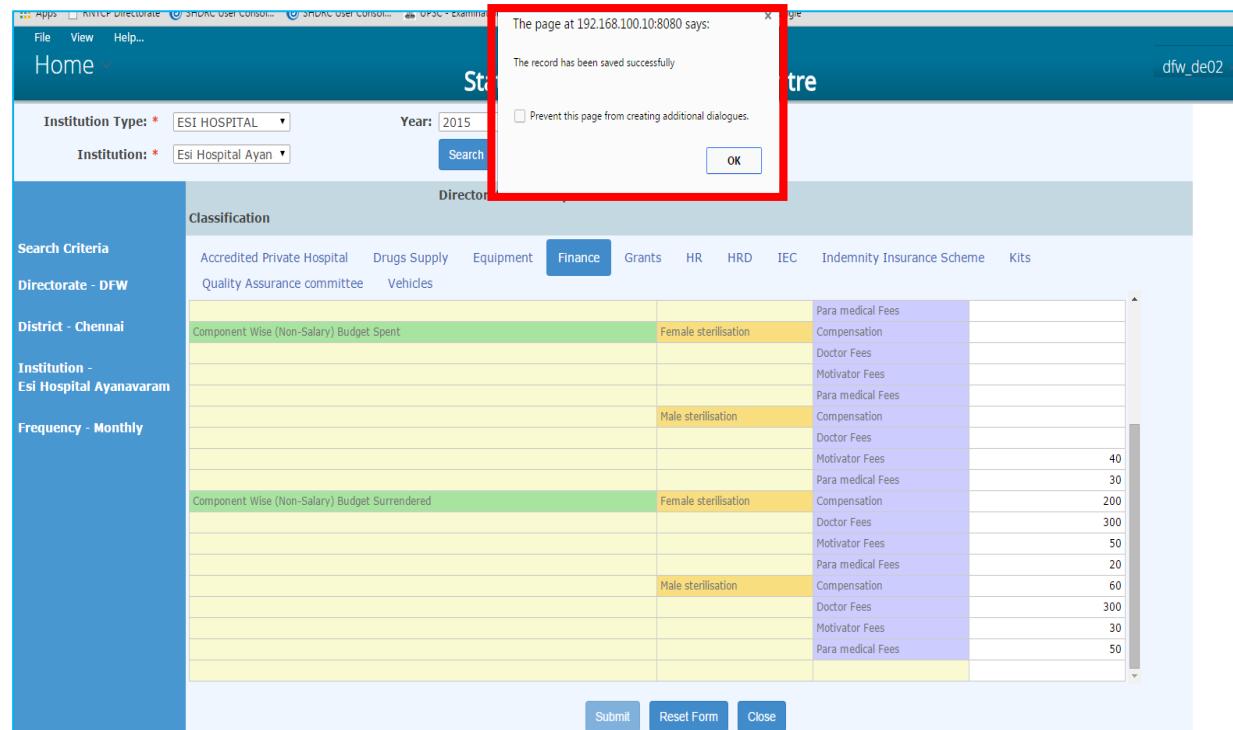
2.7 Saving the Data Entry Form



- Once the data entry has been made, the user has to click on the **Submit** button to save the values into the SHDRC Portal.
- When the **Submit** button is clicked, there is a prompt message asking “Do you really want to save?”



- If the user wants to make further changes to the values, **Cancel** button has to be clicked.



- Clicking on the **OK** button will enable the user to save data in to the SHDRC Portal.
- Once the data has been saved properly, the following message is displayed "**The record has been saved successfully**".

The page at 192.168.100.10:8080 says:
Indicator value can not be modified.Please contact system administrator

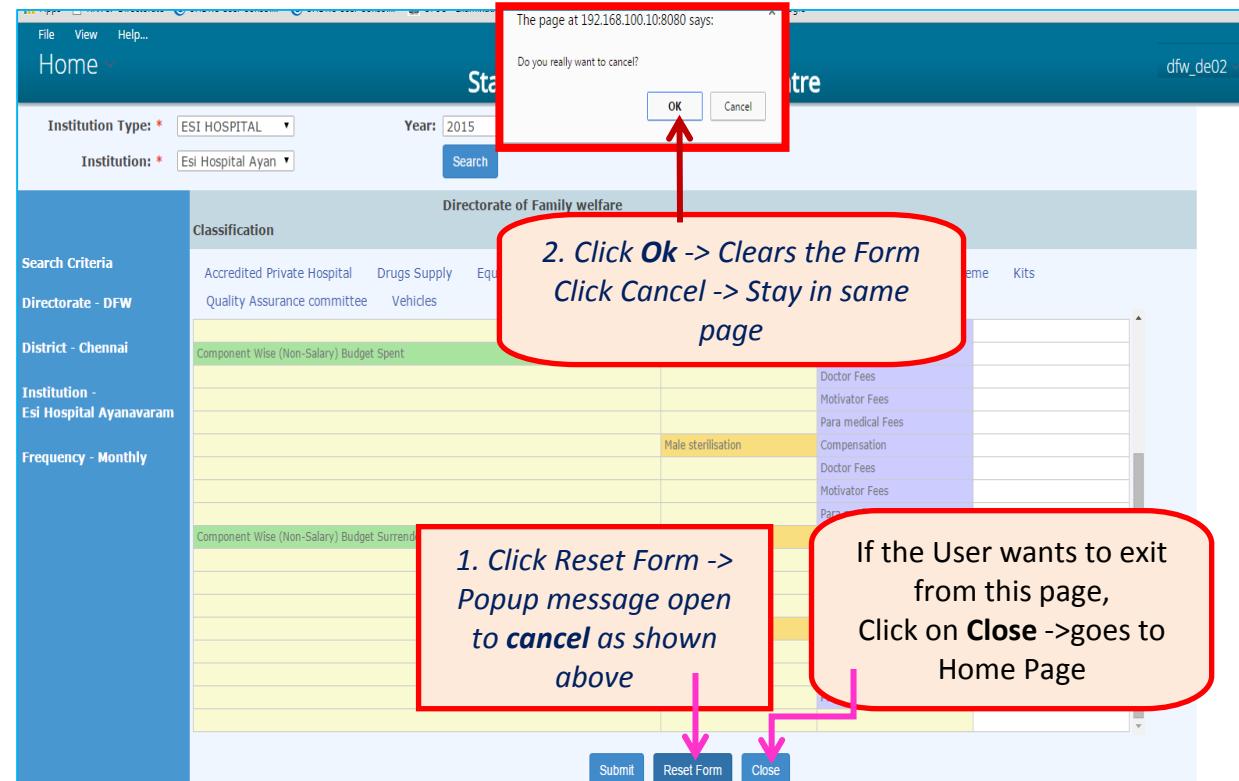
OK

Classification			
Accredited Private Hospital	Drugs Supply	Equipment	Finance
Quality Assurance committee	Vehicles		
Component Wise (Non-Salary) Budget Spent		Female sterilisation	Para medical Fees Compensation Doctor Fees Motivator Fees Para medical Fees Compensation Doctor Fees Motivator Fees Para medical Fees Compensation Doctor Fees Motivator Fees Para medical Fees Compensation Doctor Fees Motivator Fees Para medical Fees
		Male sterilisation	30 300 20 30000 50
Component Wise (Non-Salary) Budget Surrendered		Female sterilisation	
		Male sterilisation	

Submit Reset Form Close

- Once data entry has been made for specific search criteria, the values entered cannot be modified.
- If the user tries to **modify** or **resubmit** the form, user is prompted with warning message saying that "**Indicator value cannot be modified. Please contact system administrator**".

2.8 Resetting the Data Entry Form

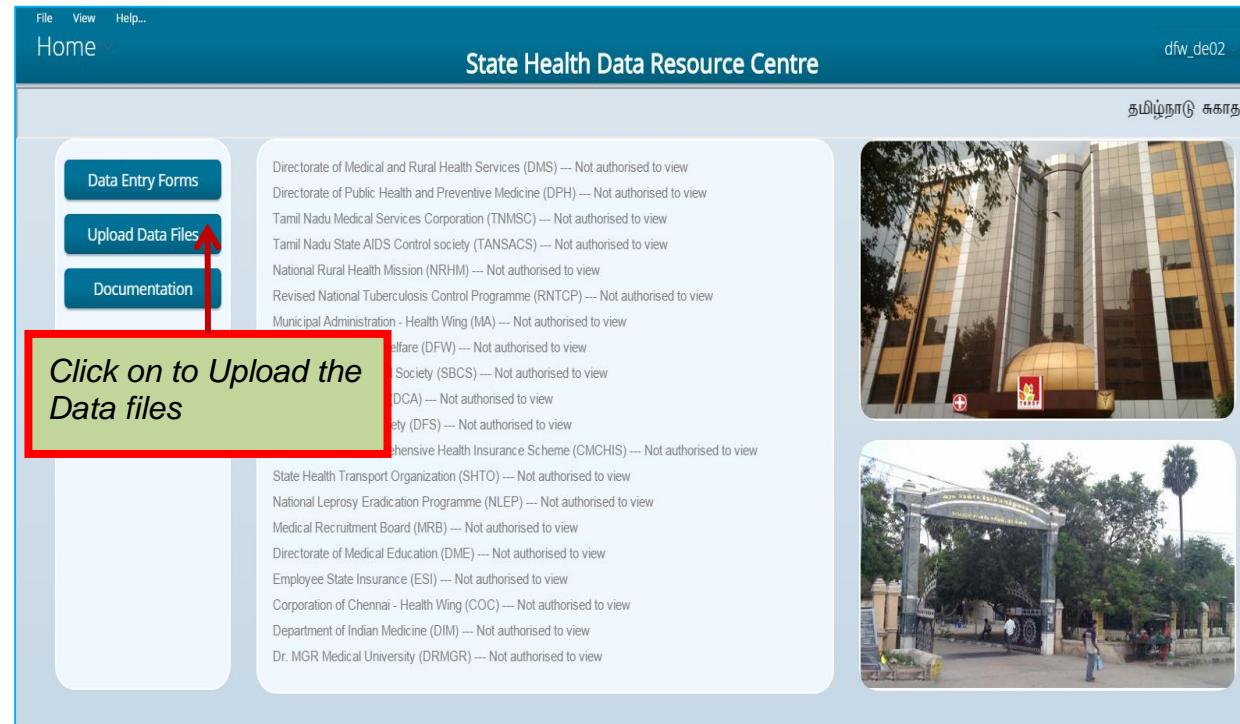


- In order to change the search criteria, the user can click on the **Reset** button.
- When the **Reset** button is clicked, user is prompted with warning message saying that “**Do you really want to cancel?**”
- When the user clicks the **OK** button, the form is **refreshed**.

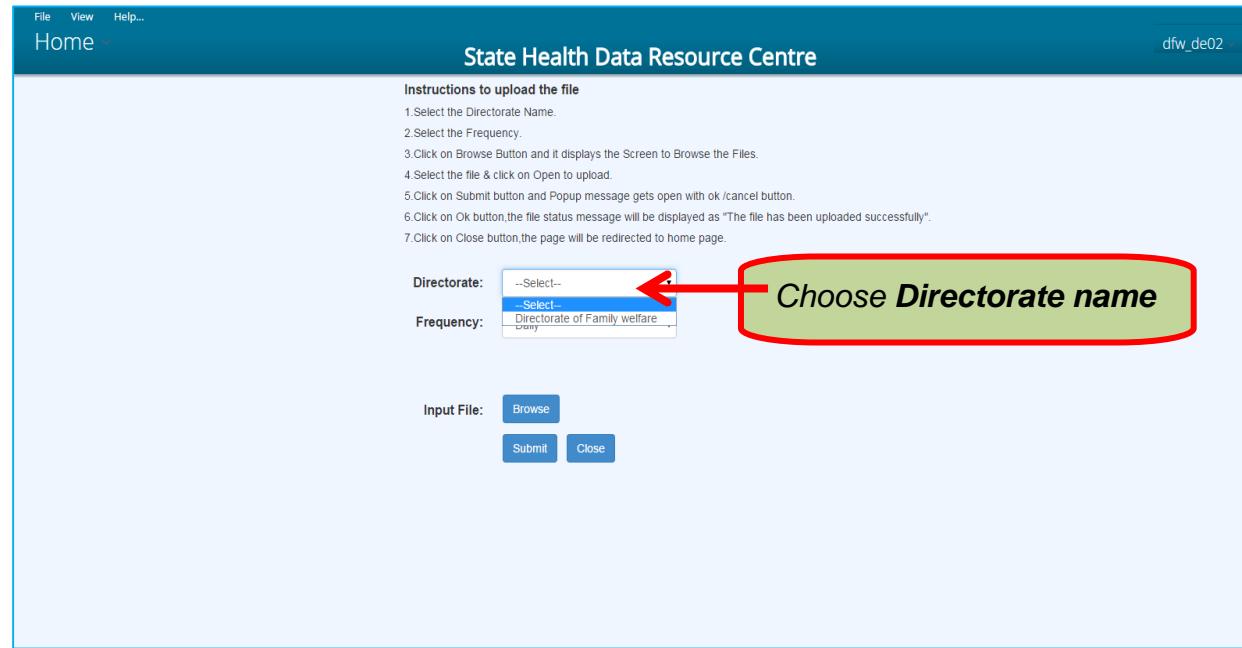
The screenshot shows the SHDRC DATA Entry - Web Form interface. On the left, a sidebar titled 'Search Criteria' lists the selected filters: Directorate - DFW, District - Chennai, Institution - All, and Frequency - Monthly. The main area has a header 'State Health Data Resource Centre' and a sub-header 'SHDRC DATA Entry - Web Form'. It includes search filters for Directorate (Directorate of Far), Frequency (Monthly), Month (April), Year (2015), and a 'Search' button. Below these filters is a 'Classification' section for 'Directorate of Family welfare' with categories like Accredited Private Hospital, Drugs Supply, Equipment, Finance, Grants, HR, HRD, IEC, Indemnity Insurance Scheme, Kits, Quality Assurance committee, and Vehicles. A large table below the classification section has columns for 'Indicator Name', 'General Type', 'General Name', and 'Indicator Value', but no data is present.

- The user can then choose the required **searchcriteria**.
- Clicking on the **Close** button will take the user out of the **Data Entry Form** and the user is taken back to the **Home Page**.

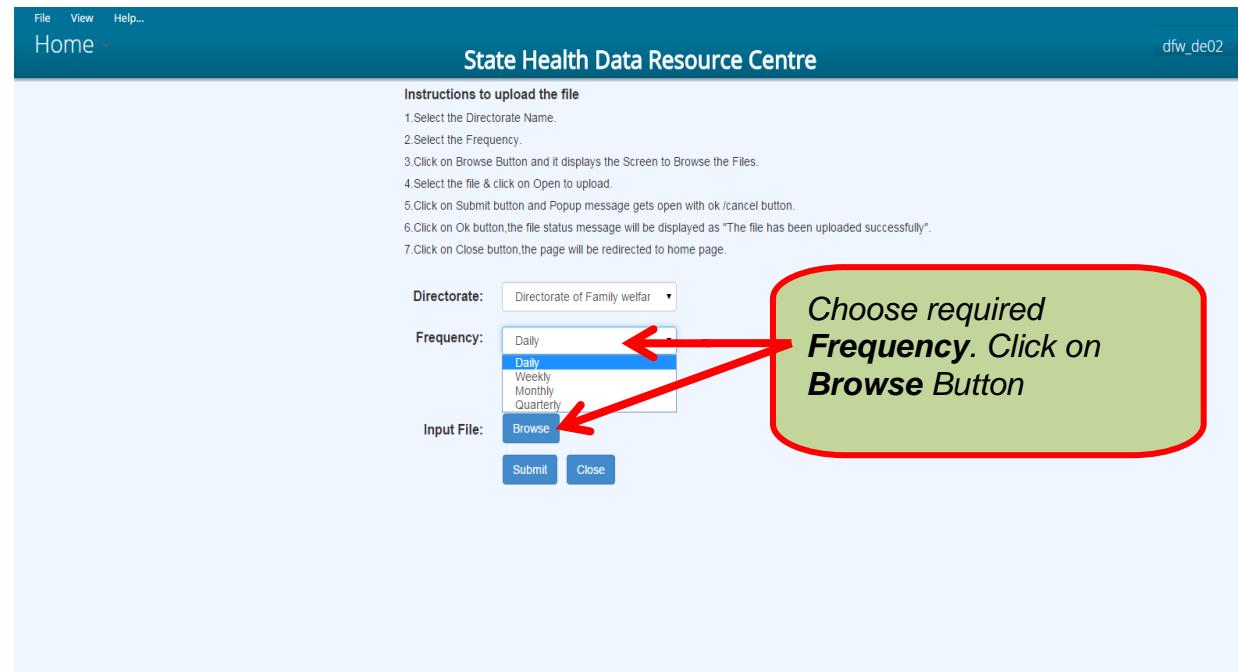
3. UPLOAD DATA FILES



- Clicking on **Upload Data Files** tab on the Left Side takes the user to the upload data files page of the corresponding directorate.

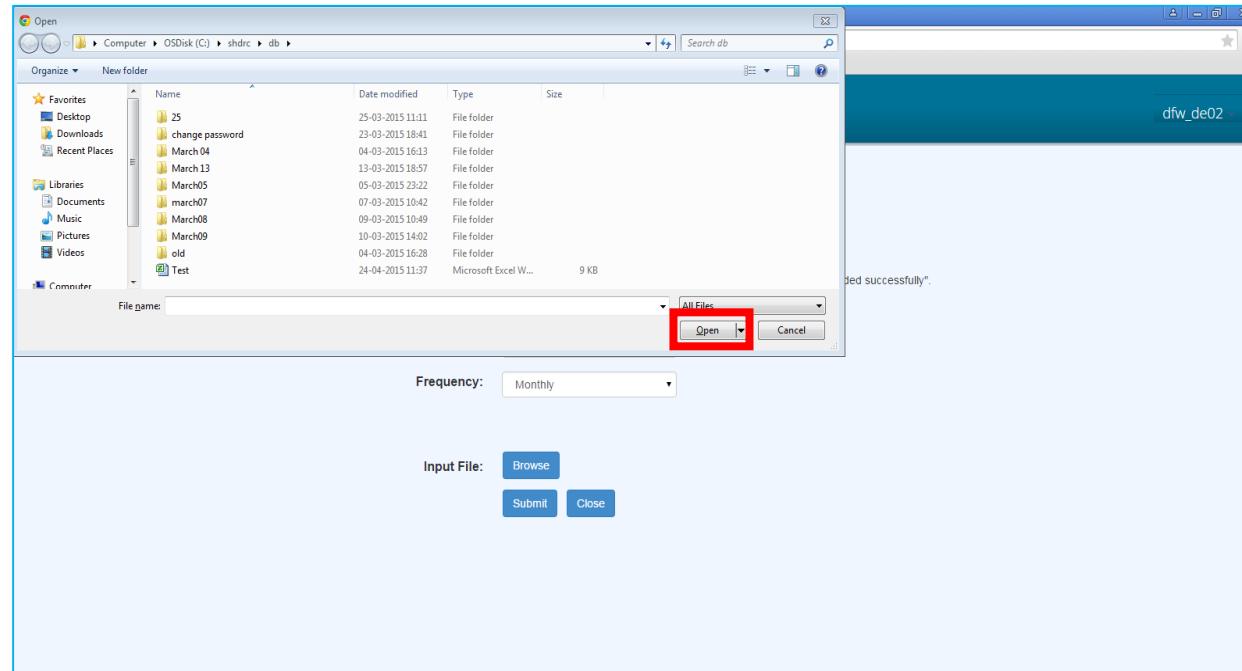


- The Upload Data File Page has **drop downs** which enable users to choose the **Directorate**, **Frequency** for which data is needed and the **Input File** to be uploaded.
- By default, the corresponding directorate is only available in the **Directorate** drop down.



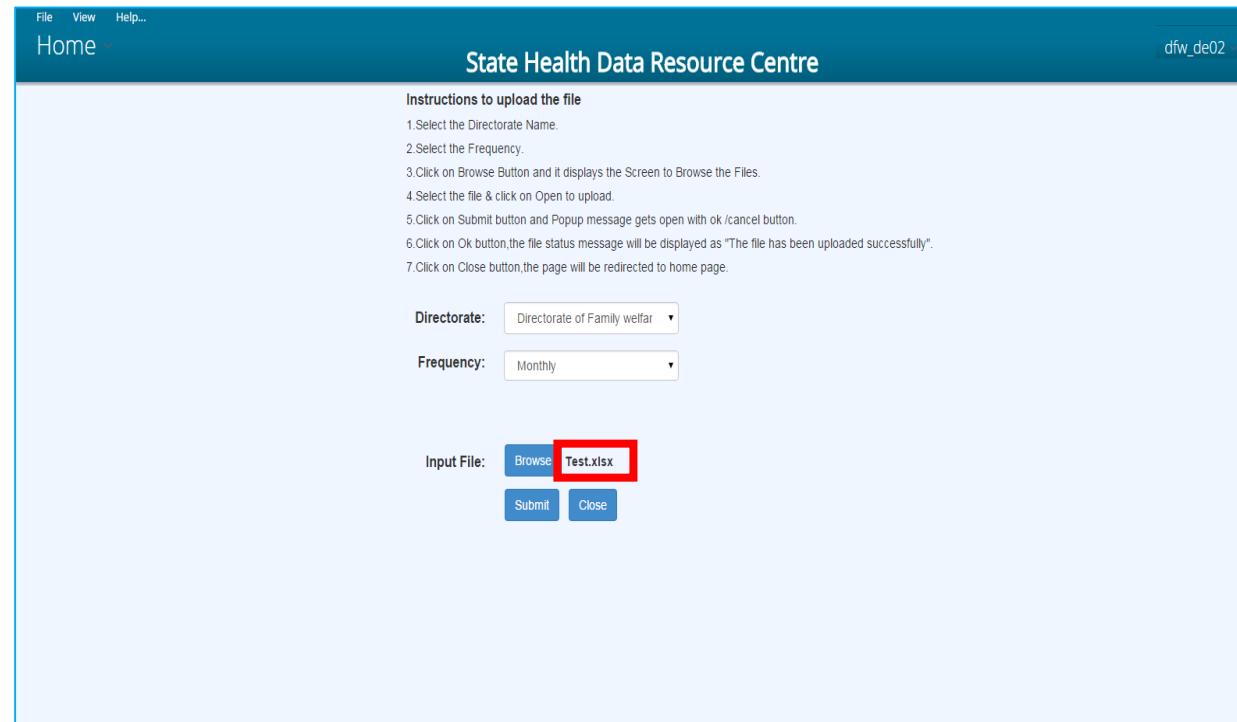
- Users can select the Frequency for which the file has to be uploaded in the Frequency dropdown
- Click on the **Browse** button to select the input file to be uploaded.
- It is to be noted that the input file that are to be loaded should be in .xls or .xlsx or .csv formats only.

3.1 Selecting the required file for Uploading

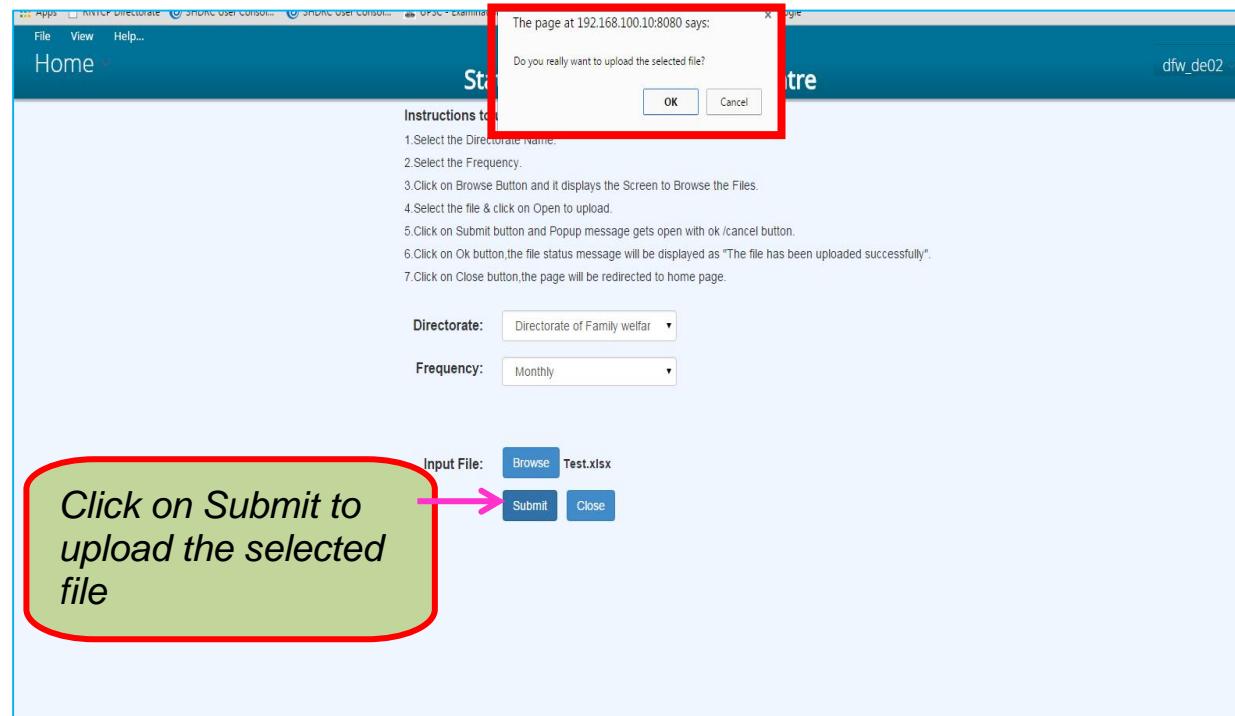


- Choose the corresponding **path** where the file is located and click on **Open** to select the file.

3.2 Uploading the file

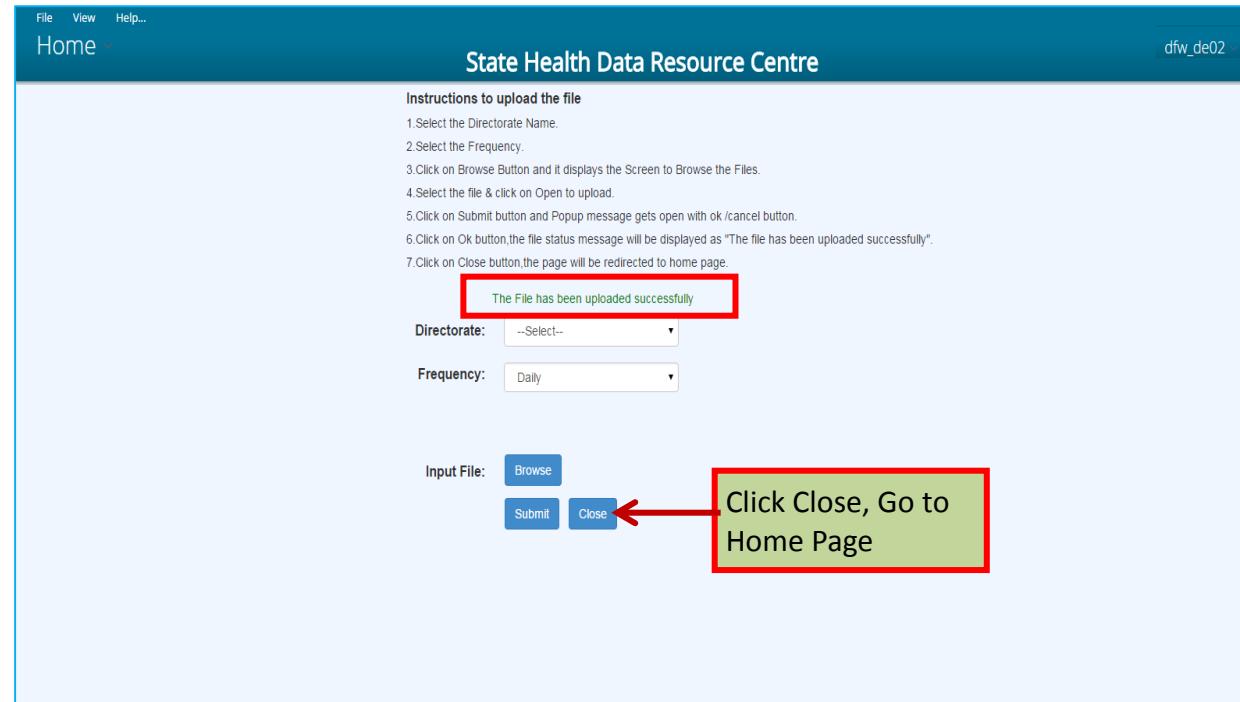


- The **selected file** gets displayed next to the browse button.



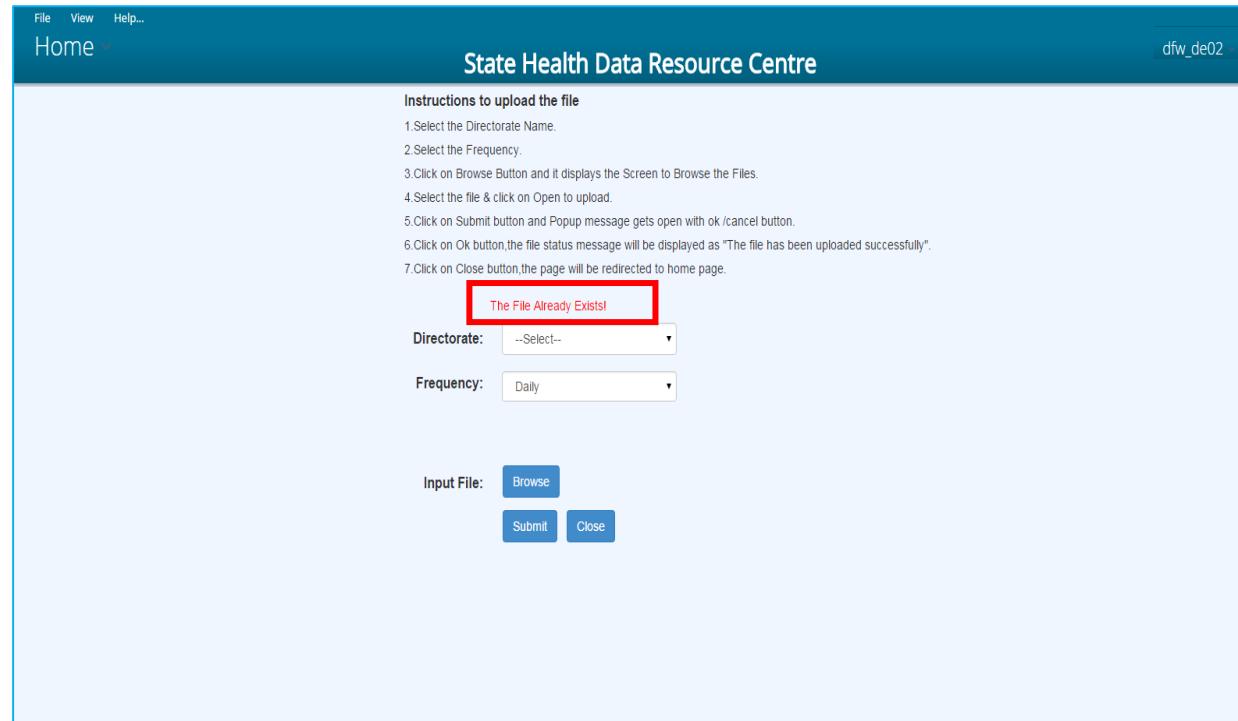
- After the file has been chosen, the **Submit** button has to be clicked to **upload** the file.
- When the Submit button is clicked, there is a prompt asking “**Do you really want to upload the selected file?**”
- If user wants to choose a different file, user can click the **Cancel** button.
- In order to upload the file, the user has to click on the **OK** button.

3.3 Successful Upload



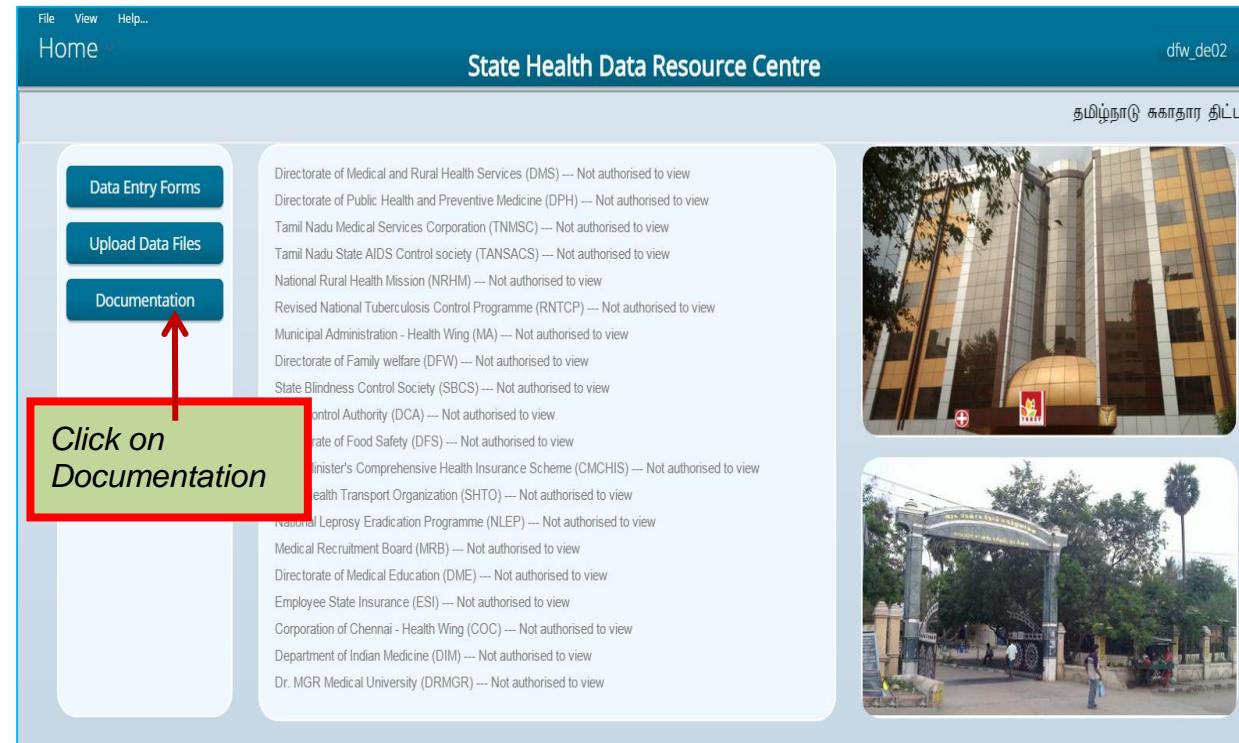
- Once the file has been uploaded, a message gets displayed above the Directorate drop down saying "**The File has been uploaded successfully**".
- The fields are **automaticallyrefreshed** after the upload.

3.4 Validation for Uploading



- It is to be noted that when the user tries to upload a file which has already been uploaded, user is displayed with warning message saying that "**The File already exists**".

4. Documentation tab



- Clicking on the **Close** button will take the user out of the **Upload Data Files** and the user is taken back to the **Home Page**.
- Clicking on **Documentation** tab on the Left Side takes the user to the Documentation page of the corresponding directorate.

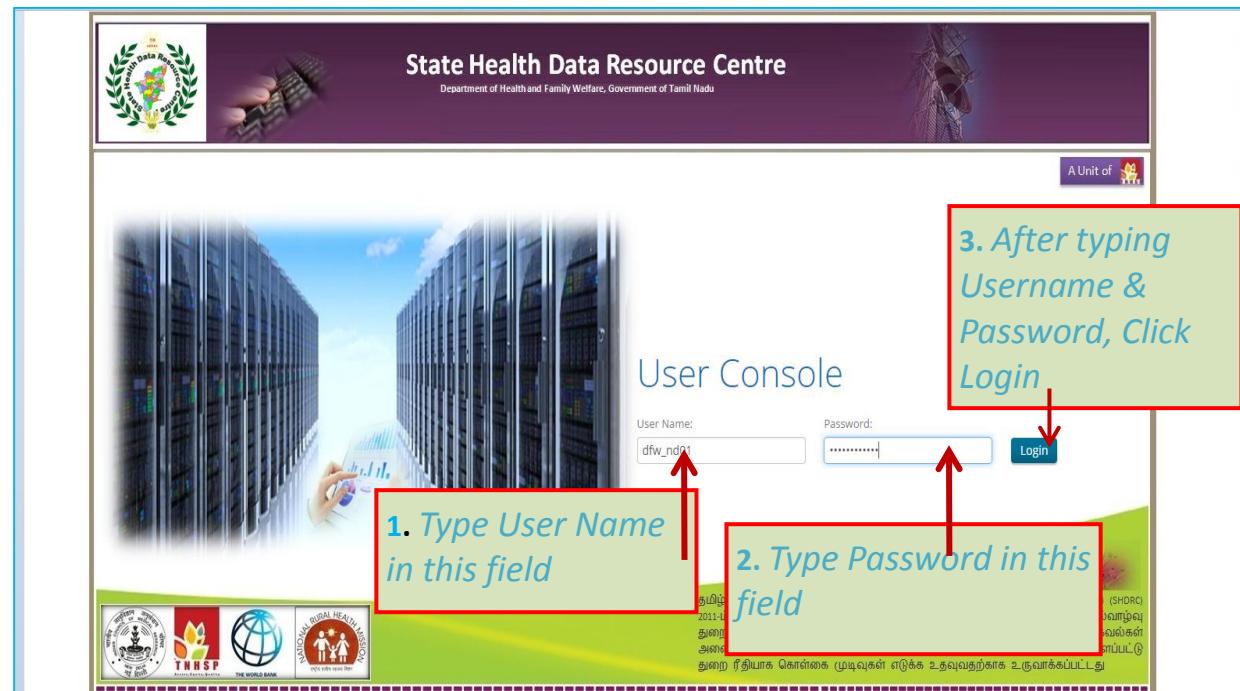


- The **Documentationzone** consists of the **training material** which users can refer while working with the SHDRC Portal.
- It can be noted that the training material consists of **guidelines** including **Data Entry Forms**, **Upload Data Files** and **the Zones** (of Reports) of the directorates.
- Users can also download and save the documentation for further use.



- When the user clicks on the **Username** (say, **dfw_de02**) tab on the right side, **logout** option gets displayed.
- Clicking on the **logout** option will exit the user from SHDRC Portal and takes back to the **SHDRC User Console Page**.

5. ZONES



- As stated earlier, in order to view the zones of a directorate, login has to be done by **Tier-1/Tier- 2/Tier-3 users**.
- Let us login through a **Nodal Officer's** credentials.
- In this example, we are using **dfw_nd01** for understanding the **features and functionalities** in the various zones.

5.1 SHDRC Home Page – in the view of a Nodal Officer

The screenshot shows the SHDRC Home Page for Nodal Officers. At the top, there is a navigation bar with 'File', 'View', and 'Help...' options. Below it, the title 'State Health Data Resource Centre' is displayed, along with the text 'தமிழ்நாடு குடும்ப தீர்மான மூலம் மாநில குடும்ப தகவல் ஆசிரியர் வழங்கல்' and the identifier 'dfw_nd01'. On the left side, there are three tabs: 'Data Entry Forms', 'Upload Data Files', and 'Documentation'. In the center, there is a list of government bodies and their access status. One item, 'Directorate of Family welfare (DFW)', is highlighted with a red box and a blue arrow pointing to a green callout bubble that says 'Click on the link, to open the Zones Layout'. To the right of the list are two images: a modern building with a glass facade and a traditional gate. At the bottom, there is a logo for 'Tamil Nadu Health Systems Project' and the text 'Department of Health and Family Welfare, Government of Tamil Nadu'.

File View Help...

Home State Health Data Resource Centre dfw_nd01

தமிழ்நாடு குடும்ப தீர்மான மூலம் மாநில குடும்ப தகவல் ஆசிரியர் வழங்கல்

Data Entry Forms

Upload Data Files

Documentation

Directorate of Medical and Rural Health Services (DMR) — Not authorised to view

Directorate of Public Health and Preventive Medicine (DPH) — Not authorised to view

Tamil Nadu Medical Services Corporation (TNMSC) — Not authorised to view

Tamil Nadu State AIDS Control Society (TANSACS) — Not authorised to view

National Rural Health Mission (NRHM) — Not authorised to view

Revised National Tuberculosis Control Programme (RNTCP) — Not authorised to view

Municipal Administration - Health Wing (MA) — Not authorised to view

Directorate of Family welfare (DFW)

State Consumer Commission (SCC) — Not authorised to view

Drug Control Authority (DCA) — Not authorised to view

Directorate of Food Safety (DFS) — Not authorised to view

Chief Minister's Comprehensive Health Insurance Scheme (CMCHIS) — Not authorised to view

Corporation of Chennai - Health Wing (COC) — Not authorised to view

Department of Indian Medicine (DIM) — Not authorised to view

Dr. MGR Medical University (DRMGR) — Not authorised to view

Click on the link, to open the Zones Layout

Tamil Nadu Health Systems Project
Department of Health and Family Welfare, Government of Tamil Nadu

TNHSP Access, Equity, Quality

DEPARTMENT OF HEALTH AND FAMILY WELFARE GOVERNMENT OF TAMIL NADU

- After Login, the **SHDRC Home Page** is displayed.
- The **Username** corresponding to the user who has logged in gets displayed on the Right Side of the screen.
- The Home Page consists of tabs on the Left Side of the screen and links on Centre of the screen.
- As stated earlier access to the various areas of the SHDRC portal varies with each user.

- As an example, a DFW **Nodal Officer** has access to all the **Data Entry Forms**, **Upload Data Files** page and the various **Zones** of DFW. The Data Entry Forms and the Upload Data Files page enable users to feed in data and the links give access to the various zones of the directorate.
- A DFW **Deputy Director** or**Joint Director** can view only the various **Zones** pertaining to DFW.
- The **Documentation** tab consists of the training material which serves as a guide for users to understand the functioning of the SHDRC portal.

5.2 Zones – an overview

The screenshot shows the SHDRC portal interface. At the top, there is a navigation bar with links for File, View, Help..., Home, dfw_nd01, and several zones: Dashboard Zone (highlighted with a red border), Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Send SMS, and Home Page. Below the navigation bar, the main content area is titled "DFW Dashboard KPI". It features a table with 19 rows of data. The columns are labeled "Dashboard Name", "State", "Dashboard Figure", and "State Level Red". The data includes various health indicators for Tamil Nadu, such as "% Of Female Sterilization to ELD", "% Of IUCD Acceptors to ELD", "% Of Male Sterilization to ELD", "% Of PPIUCD Acceptors to ELD", "% of Financial Achievement for this month/Quarter", "% of In Position of Staff", "% of caesarean among deliveries", Birth Order Statistics, Contraceptive Stocks - E Pills, Contraceptive Stocks - IUCD, Contraceptive Stocks - OP, Contraceptive Stocks - Tubal Rings, Contraceptive Stocks - CC, Indemnity Insurance, MTP done due to rape, MTP done for below age 15, Sex ratio at birth, Total No. of Sterilization deaths, and Total Sterilization Achievement % to ELD.

Dashboard Name	State	Dashboard Figure	State Level Red
% Of Female Sterilization to ELD	Tamil Nadu	782	90
% Of IUCD Acceptors to ELD	Tamil Nadu	75	90
% Of Male Sterilization to ELD	Tamil Nadu	101	20
% Of PPIUCD Acceptors to ELD	Tamil Nadu	58	90
% of Financial Achievement for this month/Quarter	Tamil Nadu	-	-
% of In Position of Staff	Tamil Nadu	-	-
% of caesarean among deliveries	Tamil Nadu	44	50
Birth Order Statistics	Tamil Nadu	9	10
Contraceptive Stocks - E Pills - District Level Stock Position	Tamil Nadu	1,001,584	0
Contraceptive Stocks - IUCD - District Level Stock Position	Tamil Nadu	2,912,568	0
Contraceptive Stocks - OP - District Level Stock Position	Tamil Nadu	1,862,565	0
Contraceptive Stocks - Tubal Rings - District Level Stock Position	Tamil Nadu	147,940	0
Contraceptive Stocks - CC - District Level Stock Position	Tamil Nadu	36,708,817	0
Indemnity Insurance	Tamil Nadu	-	-
MTP done due to rape	Tamil Nadu	17	1
MTP done for below age 15	Tamil Nadu	72	1
Sex ratio at birth	Tamil Nadu	931	950
Total No. of Sterilization deaths	Tamil Nadu	8	1
Total Sterilization Achievement % to ELD	Tamil Nadu	768	90

- The various zones that are available in the SHDRC portal are the **DashboardZone**, **ReportsZone**, **IndicatorZone**, **Analysis Zone** and **Freehand Zone** specific to each directorate.
- These zones are visible to users on clicking the **DirectorateName** link in the SHDRC Home Page.
- As an example, in this case, the link “**Directorate of Family Welfare (DFW)**” is enabled on the home page for the DFW users.
- By clicking on this link, users can view the various zones and the data available in these zones.
- By default, the **DashboardZone** is already opened for the users.

6. Dashboard Zone

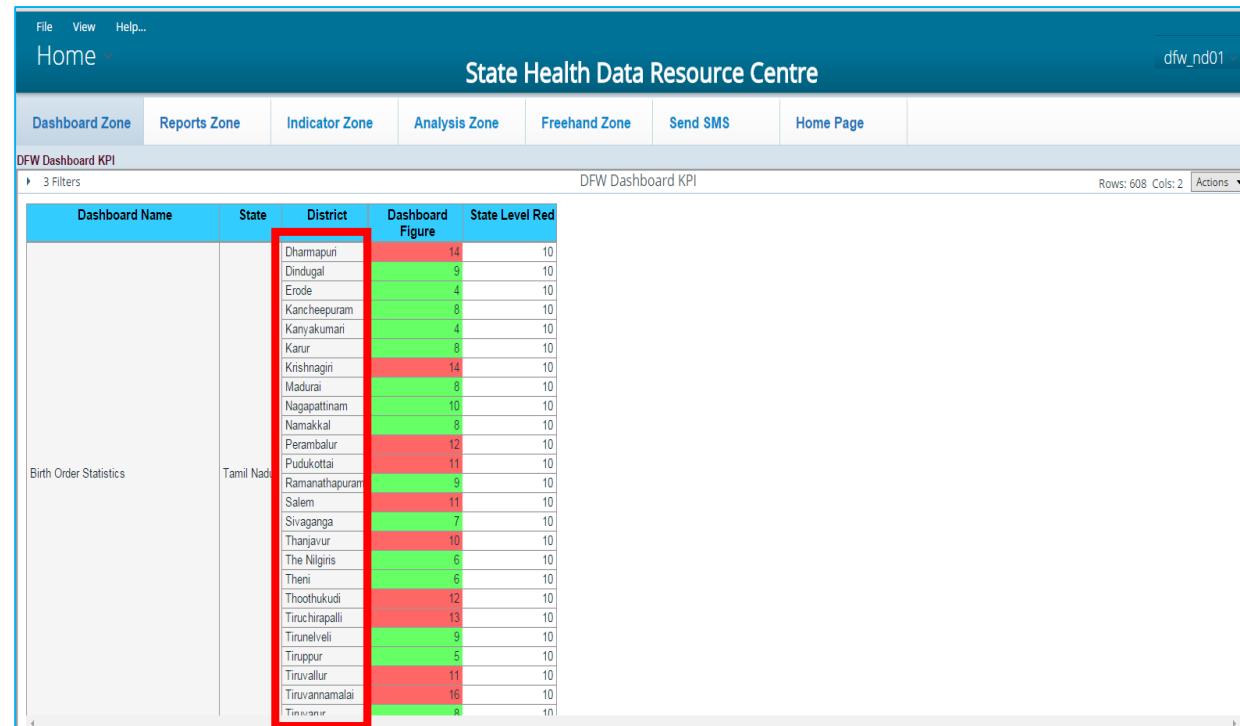
- The **DashboardZone** consists of the values of certain important indicators specific to that directorate, which we term the **Dashboard Indicators**.
- These indicators are identified by the Directorate personnel themselves.
- They also define certain threshold values for each of these Dashboard Indicators.
- There are two main features of the SHDRC portal in the Dashboard Zone.
- These are the **indication of the thresholdcross-over** and the **Drilldownlevels from the State to Institution**.

DFW Dashboard KPI

Dashboard Name	State	Dashboard Figure	State Level Red
% Of IUCD Acceptors to ELD	Tamil Nadu	75	90
% Of IUD acceptors to ELD	Tamil Nadu	58	90
% of Financial Achievement for this month/Quarter	Tamil Nadu	-	-
% of In Position of Staff	Tamil Nadu	-	-
% of caesarean among deliveries	Tamil Nadu	44	50
Birth Order Statistics	Tamil Nadu	9	10
Contraceptive Stocks - E Pills - District Level Stock Position	Tamil Nadu	1,001,584	0
Contraceptive Stocks - IUCD - District Level Stock Position	Tamil Nadu	2,912,568	0
Contraceptive Stocks - OP - District Level Stock Position	Tamil Nadu	1,862,565	0
Contraceptive Stocks - Tubal Rings - District Level Stock Position	Tamil Nadu	147,940	0
Contraceptive Stocks -CC - District Level Stock Position	Tamil Nadu	36,708,817	0
Indemnity Insurance	Tamil Nadu	-	-
MTP done due to rape	Tamil Nadu	17	1
MTP done for below age 15	Tamil Nadu	72	1
Sex ratio at birth	Tamil Nadu	931	950
Total No. of Sterilization deaths	Tamil Nadu	8	1

- It can be seen that the State Name is displayed across each indicator in the Dashboard Zone.
- This gives the **StateLevelData** for each indicator.

6.1 Drilldown Levels in Zones – State to District



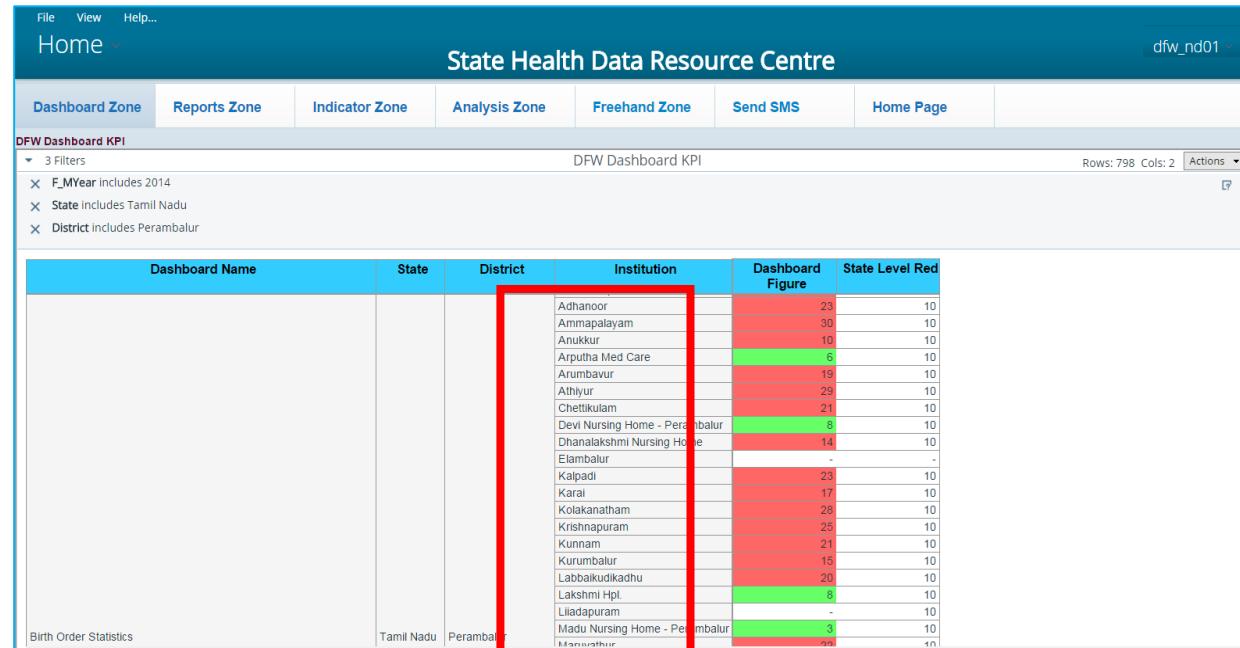
The screenshot shows a dashboard titled "State Health Data Resource Centre". The top navigation bar includes links for File, View, Help..., Home, Dashboard Zone (selected), Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Send SMS, and Home Page. A sub-menu for "DFW Dashboard KPI" is open, showing a table with 3 filters. The table has columns: Dashboard Name, State, District, Dashboard Figure, and State Level Red. The data is grouped by State (Tamil Nadu) and District. The "District" column is highlighted with a red border. The table contains 29 rows of data.

Dashboard Name	State	District	Dashboard Figure	State Level Red
Birth Order Statistics	Tamil Nadu	Dharmapuri	14	10
		Dindugal	9	10
		Erode	4	10
		Kanchipuram	8	10
		Kanyakumari	4	10
		Karur	8	10
		Krishnagiri	14	10
		Madurai	8	10
		Nagapattinam	10	10
		Namakkal	8	10
		Perambalur	12	10
		Pudukkottai	11	10
		Ramanathapuram	9	10
		Salem	11	10
		Sivaganga	7	10
		Thanjavur	10	10
		The Nilgiris	6	10
		Theni	6	10
		Toothukudi	12	10
		Tiruchirappalli	13	10
		Tirunelveli	9	10
		Tiruppur	5	10
		Tiruvallur	11	10
		Tiruvannamalai	16	10
		Tirunvar	8	10

- Users can also view District Level information in the Dashboard Zone.
- For that users have to double click on the state name displayed there.
- To understand this, when a user double clicks on Tamil Nadu against any indicator, all the districts and their specific values get displayed against each indicator.
- These give the **DistrictLevelData** for each indicator.

6.2 Drilldown Levels in Zones – District to Institution

- SHDRC also supports further drill down to Institution Levels in the Dashboard Zone.
- For that users have to double click on the district name displayed there.



The screenshot shows a dashboard interface with a navigation bar at the top. The main content area displays a table titled "DFW Dashboard KPI". The table has columns for "Dashboard Name", "State", "District", "Institution", "Dashboard Figure", and "State Level Red". A red box highlights the "District" column header and the row for "Perambalur".

Dashboard Name	State	District	Institution	Dashboard Figure	State Level Red
Birth Order Statistics	Tamil Nadu	Perambalur	Adhanoor	23	10
			Ammapalayam	30	10
			Anukkur	10	10
			Arputha Med Care	6	10
			Arumbavur	19	10
			Athiyur	29	10
			Chettikulam	21	10
			Devi Nursing Home - Perambalur	8	10
			Dhanatakshmi Nursing Home	14	10
			Elambalur	-	-
			Kalpadi	23	10
			Karai	17	10
			Kolakanatham	28	10
			Krishnapuram	25	10
			Kunnam	21	10
			Kurumbalur	15	10
			Labbakudikadhu	20	10
			Lakshmi Hpl	8	10
			Liaiapuram	-	10
			Madu Nursing Home - Perambalur	3	10
			Manaputhur	22	10

- To understand this, when a user double clicks on any district say, Chennai against any indicator, all the institutions for all the districts and their specific values get displayed against each indicator.
- These give the **Institution Level Data** for each indicator.
- It can also be more easily understood from the count of rows in this example, with a filter applied to select only **Perambalur** District.
- There are 798 rows which imply that data is displayed for all the 798 institutions of **Perambalur** District.

6.3 Indication of Threshold Cross-over

Dashboard Name	State	District	Institution	Dashboard Figure	State Level Red
			Adhanoor	23	10
			Ammappalayam	30	10
			Anukkur	10	10
			Arputha Med Care	6	10
			Arumbavur	19	10
			Athiyur	29	10
			Chettikulam	21	10
			Devi Nursing Home - Perambalur	8	10
			Dhanalakshmi Nursing Home	14	10
			Elambalur	-	-
			Kalpadi	23	10
			Karai	17	10
			Kolakanatham	28	10
			Krishnapuram	25	10
			Kunnam	21	10
			Kurumbalur	15	10
			LabbaiKudikadhu	20	10
			Lakshmi Hpl.	8	10
			Liladapuram	-	10
			Madu Nursing Home - Perambalur	3	10
			Manuthur	10	10

- Another feature of the Dashboard zone is the **indication of threshold cross-over**.
- This feature is available for the **drilldown levels** from **State** to **Institution** also.
- The Directorate given threshold values for these Dashboard Indicators is fed to the SHDRC system.
- Thus the Dashboard zone indicates the values of the indicators in **green** and **red** colors.

- The **green** color indicates that the values of the indicators satisfy the threshold value.
- The **red** color indicates that the values of the indicators do not satisfy the threshold value.
- For example, **BirthOrderStatistics** should be **lesser than or equal to 10**.
- Thus for a district or institution, when the indicator value is **lesser than or equal to 10**, it is displayed in **green**; whereas it is **red** when the indicator value is **greaterthan10**.
- Taking another example, **Sex ratio at birth** should be **greater than or equal to 950**.
- Thus for a district or institution, when the indicator value is **greater than or equal to 950**, it is displayed in **green**; whereas it is **red** when the indicator value is **lesserthan950**.

7. Reports Zone

The screenshot shows the SHDRC portal interface. At the top, there's a navigation bar with 'File', 'View', 'Help...', 'Home', 'Dashboard Zone', 'Reports Zone' (which is highlighted with a red box), 'Indicator Zone', 'Analysis Zone', 'Freehand Zone', and 'Home Page'. Below this is a title 'State Health Data Resource Centre' and a sub-section 'dfw_nd01'. The main area is divided into two sections: 'DFW Report List' on the left and a 'Performance with reference to ELD' table on the right. The table has columns for Category, Indicator Total, Proportionate, For the Month, Up to the Month, and % P.Wrt. ELD. The data is as follows:

Category	Indicator Total	Proportionate	For the Month	Up to the Month	% P.Wrt. ELD
CC Users	180,000	15,000	249	147,883	985.9
Female Sterilization	392,000	32,667	128	3,198	9.8
IUCD	433,000	36,083	21	6,829	18.9
Male Sterilization	8,000	667	0	9	1.4

- The second zone available in the SHDRC portal is **ReportsZone**.
- The Reports Zone consists of indicator values in the form of tables classified under various categories.
- As an example, in DFW there are 17 reports.
- By default, the first report is opened to the users.

File View Help...

Home State Health Data Resource Centre dfw_nd01

Dashboard Zone Reports Zone Indicator Zone Analysis Zone Freehand Zone Home Page

DFW Report List

Performance with reference to ELD
Method Wise Sterilisation Performance
Performance Of Method Wise Sterilisation and Spacing Method
District Wise Performance on MTP
Total Sterilisation Programme
FW Contraceptive stock Position In Tamil Nadu
District Wise FW Contraceptive stock position
Sterilization Performance Compared with Previous Year
District Wise Performance Of Deliveries,Caesarian,MTP's (ReportLink)
Female Sterilisation Programme
IUCD Performace compared with Previous Year
Male Sterilisation Programme
Parity Wise Report On Sterilisation Acceptors

District Wise Performance Of Deliveries,Caesarian,MTP's

3 Filters District Wise Performance Of Deliveries,Caesarian,MTP's Rows: 32 Cols: 60 Actions

F_Month									
District	Sterilization	Total Deliveries	Apr			May			Plain M
			Cesarian Deliveries	Plain MTP	MTP Stern	Sterilization	Total Deliveries	Cesarian Deliveries	
Aniyalur	199.00	1,466.00	756.00	86.00	48.00	340.00	1,600.00	810.00	
Chennai	2,838.00	15,764.00	8,780.00	1,328.00	520.00	3,004.00	17,962.00	9,722.00	1.
Combatore	1,087.00	7,838.00	4,166.00	176.00	58.00	1,192.00	8,126.00	4,018.00	
Cuddalore	875.00	6,592.00	3,060.00	122.00	168.00	947.00	7,214.00	3,220.00	
Dharmapuri	796.00	4,210.00	1,128.00	110.00	80.00	770.00	4,070.00	1,160.00	
Dindugal	964.00	5,152.00	1,648.00	242.00	66.00	1,070.00	5,252.00	1,658.00	
Erode	988.00	5,180.00	2,858.00	222.00	40.00	1,074.00	5,202.00	2,882.00	
Kancheepuram	1,338.00	6,670.00	2,656.00	146.00	156.00	1,473.00	8,020.00	3,416.00	
Kanyakumari	839.00	4,340.00	2,626.00	72.00	74.00	1,004.00	4,752.00	2,792.00	
Karur	367.00	2,128.00	1,064.00	114.00	52.00	412.00	2,106.00	912.00	
Krishnagiri	797.00	4,458.00	1,226.00	270.00	40.00	840.00	4,410.00	1,366.00	
Madurai	1,349.00	8,960.00	2,804.00	94.00	124.00	1,280.00	8,364.00	2,938.00	
Nagapattinam	453.00	2,110.00	1,206.00	42.00	20.00	469.00	2,318.00	1,312.00	
Namakkal	673.00	3,100.00	1,504.00	212.00	160.00	696.00	3,364.00	1,596.00	
Perambalur	217.00	1,292.00	600.00	56.00	42.00	209.00	1,286.00	636.00	
Pudukkottai	503.00	3,150.00	1,180.00	74.00	34.00	541.00	3,696.00	1,404.00	
Ramanathapuram	533.00	3,400.00	1,512.00	184.00	88.00	640.00	3,430.00	1,510.00	
Salem	1,289.00	7,516.00	2,602.00	168.00	456.00	1,421.00	8,050.00	3,036.00	
Sivaganga	534.00	3,102.00	1,420.00	84.00	24.00	595.00	3,200.00	1,426.00	
Thanjavur	888.00	7,320.00	3,310.00	204.00	92.00	1,120.00	8,314.00	3,928.00	
The Nilgiris	222.00	1,120.00	374.00	50.00	36.00	271.00	1,204.00	448.00	

- As stated, clicking on each **ReportLink** displays the indicators that are grouped under that particular **report**.
- As an example, the screenshot shows a different report “**District Wise Performance of Deliveries, Caesarian, MTPs**” been chosen and its indicators getting displayed.

The screenshot shows a web-based reporting system. At the top, there are tabs for Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, and Home Page. The main content area is titled 'District Wise Performance Of Deliveries,Caesarian,MTP's'. Below this, there is a table with columns for District, Sterilization, Total Deliveries, Cesarean Deliveries, Plain MTP, MTP Stern, Sterilization, Total Deliveries, Cesarean Deliveries, and Plain MTP. The table has two sections: 'Apr' and 'May'. A red box highlights a context menu that appears when right-clicking on a row. The menu items shown are 'Exclude Dhamapuri' and 'Keep Only Dhamapuri'.

District Wise Performance Of Deliveries,Caesarian,MTP's									
F_Month									
Apr									
District	Sterilization	Total Deliveries	Cesarean Deliveries	Plain MTP	MTP Stern	Sterilization	Total Deliveries	Cesarean Deliveries	Plain MTP
Anivillur	199.00	1,466.00	756.00	86.00	48.00	340.00	1,600.00	810.00	
Chennai	2,838.00	15,764.00	8,780.00	1,328.00	520.00	3,004.00	17,962.00	9,722.00	1,
Coimbatore	1,087.00	7,838.00	4,166.00	176.00	58.00	1,192.00	8,126.00	4,016.00	
Cuddalore	875.00	6,592.00	3,060.00	122.00	168.00	947.00	7,214.00	3,220.00	
Dharmapuri	766.00	4,310.00	1,128.00	110.00	80.00	770.00	4,070.00	1,160.00	
Dindigul			1,648.00	242.00	66.00	1,070.00	5,252.00	1,658.00	
Erode			2,858.00	222.00	40.00	1,074.00	5,202.00	2,982.00	
Kancheepuram			2,656.00	146.00	156.00	1,473.00	8,020.00	3,416.00	
Kanyakumari			659.00	4,048.00	2,626.00	72.00	74.00	1,004.00	4,752.00
Karur	367.00	2,128.00	1,064.00	114.00	52.00	412.00	2,106.00	912.00	
Krishnagiri	797.00	4,458.00	1,226.00	270.00	40.00	840.00	4,410.00	1,366.00	
Madurai	1,349.00	8,960.00	2,804.00	94.00	124.00	1,280.00	8,364.00	2,938.00	
Nagapattinam	453.00	2,110.00	1,206.00	42.00	20.00	469.00	2,318.00	1,312.00	
Namakkal	673.00	3,100.00	1,504.00	212.00	160.00	696.00	3,364.00	1,596.00	
Perambalur	217.00	1,292.00	600.00	56.00	42.00	209.00	1,286.00	636.00	
Pudukkottai	503.00	3,150.00	1,180.00	74.00	34.00	541.00	3,696.00	1,404.00	
Ramanathapuram	533.00	3,400.00	1,512.00	184.00	88.00	640.00	3,430.00	1,510.00	
Salem	1,289.00	7,516.00	2,602.00	168.00	456.00	1,421.00	8,050.00	3,036.00	
Sivaganga	534.00	3,102.00	1,420.00	84.00	24.00	595.00	3,200.00	1,426.00	
Thanjavur	888.00	7,320.00	3,310.00	204.00	92.00	1,120.00	8,314.00	3,928.00	
The Nilgiris	222.00	1,120.00	374.00	50.00	36.00	271.00	1,204.00	448.00	

- From the list values that occur for each parameter, a certain value can be retained or removed from the report.
- In order to achieve this, right click on the required value.
- There are two major options available – Exclude (that value) and Keep Only (that value).
- Apart from these, there are also other options specific to the field chosen.
- Exclude** helps to remove that value from the report.
- Keep only** helps to retain only that value to the report and remove all other values.

File View Help...

Home > State Health Data Resource Centre dfw_nd01

Dashboard Zone Reports Zone Indicator Zone Analysis Zone Freehand Zone Home Page

DFW Report List

Performance with reference to ELD
Method Wise Sterilisation Performance
Performance Of Method Wise Sterilisation and Spacing Method
District Wise Performance on MTP
Total Sterilisation Programme
FW Contraceptive stock Position In Tamil Nadu
District Wise FW Contraceptive stock position
Sterilization Performance Compared with Previous Year
District Wise Performance Of Deliveries,Caesarian,MTP's
Female Sterilisation Programme
IUCD Performace compared with Previous Year
Male Sterilisation Programme
Parity Wise Report On Sterilisation Acceptors
Performance Under C.C. Programme

4 Filters District Wise Performance Of Deliveries,Caesarian,MTP's Rows: 31 Cols: 60 Actions

F_Month

District	Apr				May				
	Sterilization	Total Deliveries	Cesarian Deliveries	Plain MTP	MTP Stern	Sterilization	Total Deliveries	Cesarian Deliveries	Plain N
Aniyalur	199.00	1,466.00	756.00	86.00	48.00	340.00	1,600.00	810.00	
Chennai	2,838.00	15,764.00	8,780.00	1,328.00	520.00	3,004.00	17,962.00	9,722.00	1.
Coimbatore	1,087.00	7,838.00	4,166.00	176.00	58.00	1,192.00	8,126.00	4,018.00	
Cuddalore	875.00	6,592.00	3,060.00	122.00	168.00	947.00	7,214.00	3,220.00	
Dindugal	964.00	5,152.00	1,648.00	242.00	66.00	1,070.00	5,252.00	1,658.00	
Erode	988.00	5,180.00	2,858.00	222.00	40.00	1,074.00	5,202.00	2,882.00	
Kancheepuram	1,338.00	6,670.00	2,656.00	146.00	158.00	1,473.00	8,020.00	3,416.00	
Kanyakumari	839.00	4,340.00	2,626.00	72.00	74.00	1,004.00	4,752.00	2,792.00	
Karur	367.00	2,128.00	1,064.00	114.00	52.00	412.00	2,106.00	912.00	
Krishnagiri	797.00	4,458.00	1,226.00	270.00	40.00	840.00	4,410.00	1,366.00	
Madurai	1,349.00	8,960.00	2,804.00	94.00	124.00	1,280.00	8,364.00	2,938.00	
Nagapattinam	453.00	2,110.00	1,206.00	42.00	20.00	469.00	2,318.00	1,312.00	
Namakkal	673.00	3,100.00	1,504.00	212.00	160.00	696.00	3,364.00	1,596.00	
Perambalur	217.00	1,292.00	600.00	56.00	42.00	209.00	1,286.00	636.00	
Pudukkottai	503.00	3,150.00	1,180.00	74.00	34.00	541.00	3,696.00	1,404.00	
Ramanathapuram	533.00	3,400.00	1,512.00	184.00	88.00	640.00	3,430.00	1,510.00	
Salem	1,289.00	7,516.00	2,602.00	168.00	456.00	1,421.00	8,050.00	3,036.00	
Sivaganga	534.00	3,102.00	1,420.00	84.00	24.00	595.00	3,200.00	1,426.00	
Thanjavur	888.00	7,320.00	3,310.00	204.00	92.00	1,120.00	8,314.00	3,928.00	
The Nilgiris	222.00	1,120.00	374.00	50.00	36.00	271.00	1,204.00	448.00	
Theni	519.00	2,848.00	1,120.00	120.00	44.00	561.00	3,092.00	1,324.00	

- In the above example, **Exclude Option** is chosen.
- Hence, **Dharmapuri** is excluded from the entire list.

7.1 Functions of Action Tab

The screenshot shows the SHDRC interface with the 'Reports Zone' selected. On the left, a sidebar lists various reports like 'DFW Report List', 'Performance with reference to ELD', and 'Method Wise Sterilisation Performance'. The main area displays a table titled 'Sterilization Performance Compared with Previous Year' for 15 districts. The table has columns for District, Sterilization Performance 2013, Sterilization Performance 2014, and Increase / Decrease. A red box highlights the 'Actions' dropdown button in the top right corner of the report view. A green callout bubble with a blue arrow points to this button with the text: 'Click Dropdown option in Action Button to display Menus'.

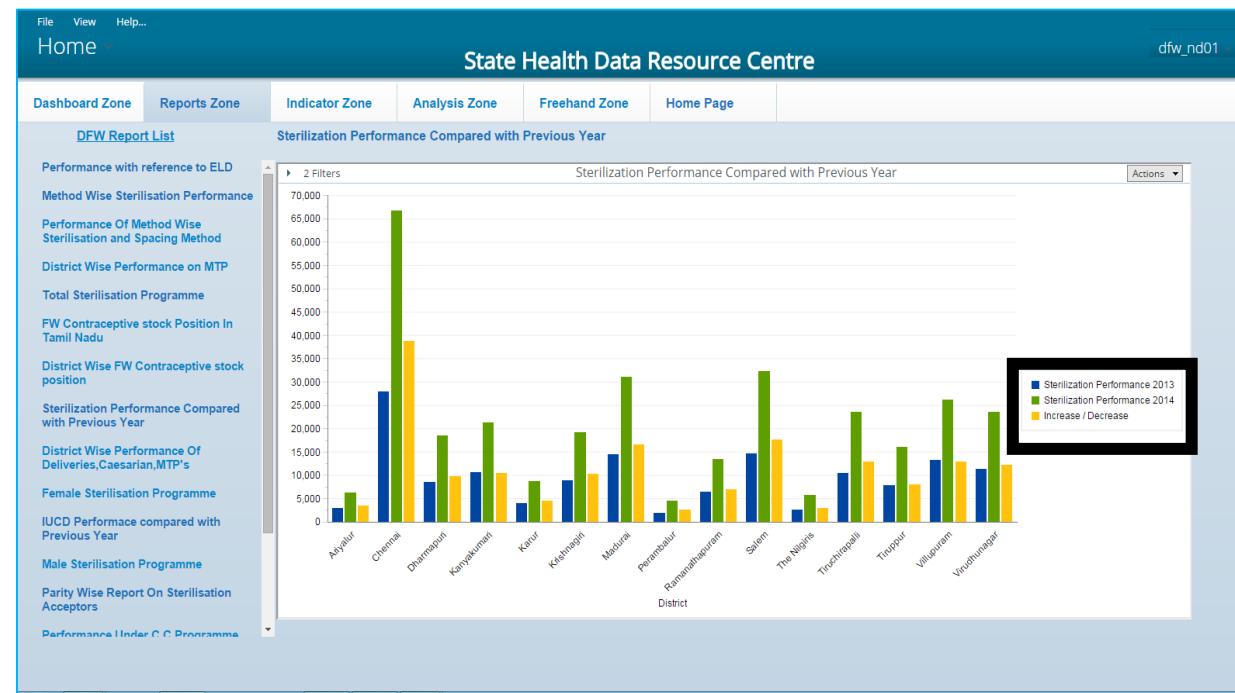
District	Sterilization Performance 2013	Sterilization Performance 2014	Increase / Decrease
Anyalur	2,933	6,396	3,463
Chennai	28,075	66,831	38,756
Dharmapuri	8,672	18,556	9,884
Kanyakumari	10,774	21,321	10,547
Karur	4,122	8,780	4,658
Krishnagiri	8,879	19,248	10,369
Madurai	14,543	31,172	16,629
Perambalur	1,874	4,499	2,625
Ramanathapuram	6,510	13,518	7,008
Salem	14,683	32,390	17,707
The Nilgiris	2,687	5,735	3,048
Tiruchirappalli	10,599	23,650	12,951
Tiruppur	7,932	16,078	8,146
Villupuram	13,308	26,229	12,921
Virudhunagar	11,361	23,614	12,253

- The Reports Zone can also be viewed graphically.
- The Reports Zone supports this with various options such as **Column, Bar, Line, Area, Pie**, etc.
- As per the selected option, the report is displayed in a specific format.
- To view the reports graphically, users can avail the **Actionoption** on the **toprightcorner** of the report.

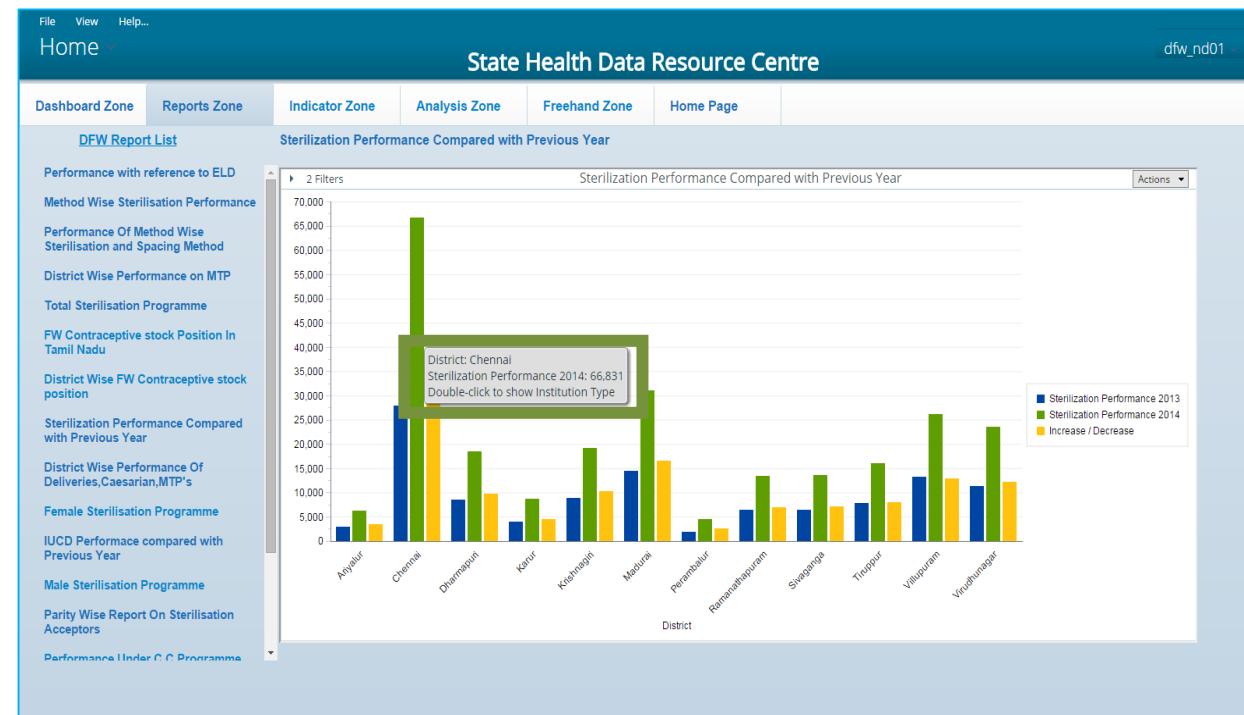
The screenshot shows a web-based reporting application. At the top, there's a navigation bar with links like 'File', 'View', 'Help...', 'Home', 'Indicator Zone', 'Analysis Zone', 'Freehand Zone', and 'Home Page'. Below this is a main content area with a title 'State Health Data Resource Centre'. On the left, there's a sidebar titled 'DFW Report List' containing various report categories such as 'Performance with reference to ELD', 'Method Wise Sterilisation Performance', etc. The central part of the screen displays a table titled 'Sterilization Performance Compared with Previous Year' with data for 15 districts. To the right of the table is a context menu with options like 'Table', 'Column', 'Row', 'Chart', etc. A specific item in the 'Actions' dropdown, 'Column', is highlighted with a red box.

District	Sterilization Performance 2013	Sterilization Performance 2014	Increase / Decrease
Anyalur	2,933	6,386	3,453
Chennai	28,075	66,831	38,756
Dharmapuri	8,672	18,556	9,884
Kanyakumari	10,774	21,321	10,547
Karur	4,122	8,780	4,658
Krishnagiri	8,879	19,248	10,369
Madurai	14,543	31,172	16,629
Perambalur	1,874	4,499	2,625
Ramanathapuram	6,510	13,518	7,008
Salem	14,683	32,390	17,707
The Nilgiris	2,687	5,735	3,048
Tiruchirappalli	10,599	23,550	12,951
Tiruppur	7,932	16,078	8,146
Villupuram	13,308	26,229	12,921
Virudhunagar	11,361	23,614	12,253

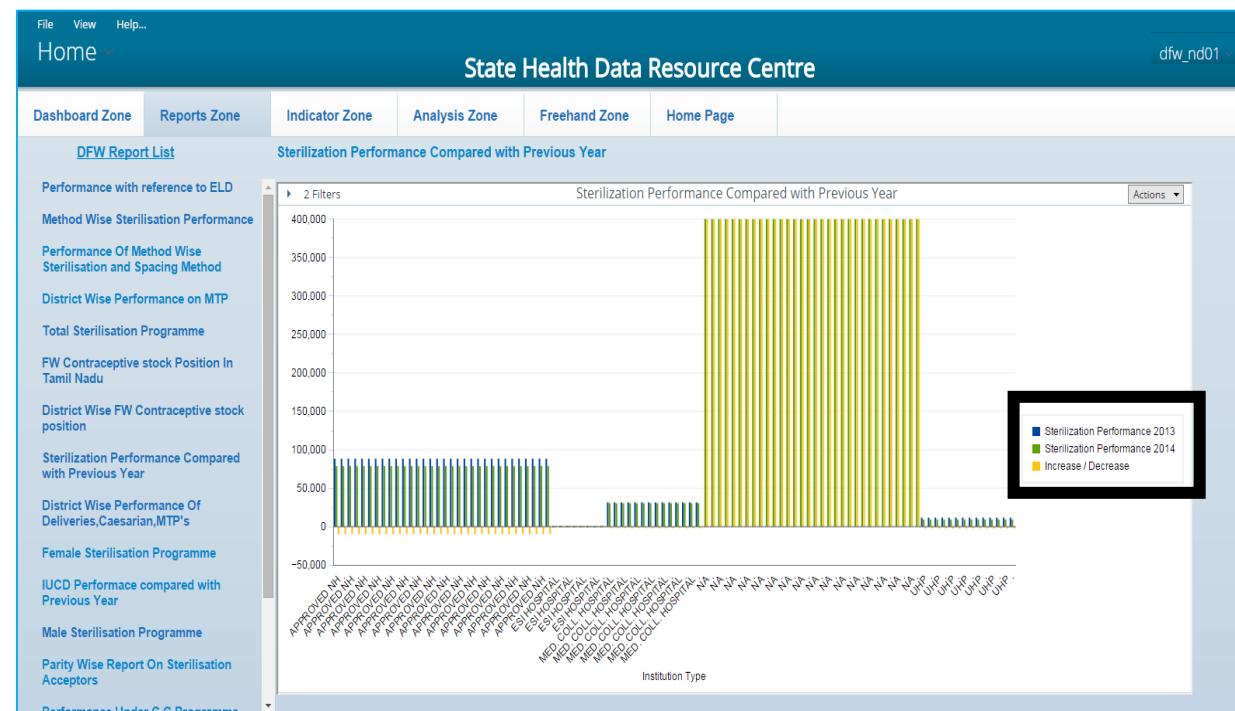
- To view the reports as columns, users can avail the **Columnoption** in Action Tab.
- Choose Actions -> Show Report as TableChart -> Column for the same.



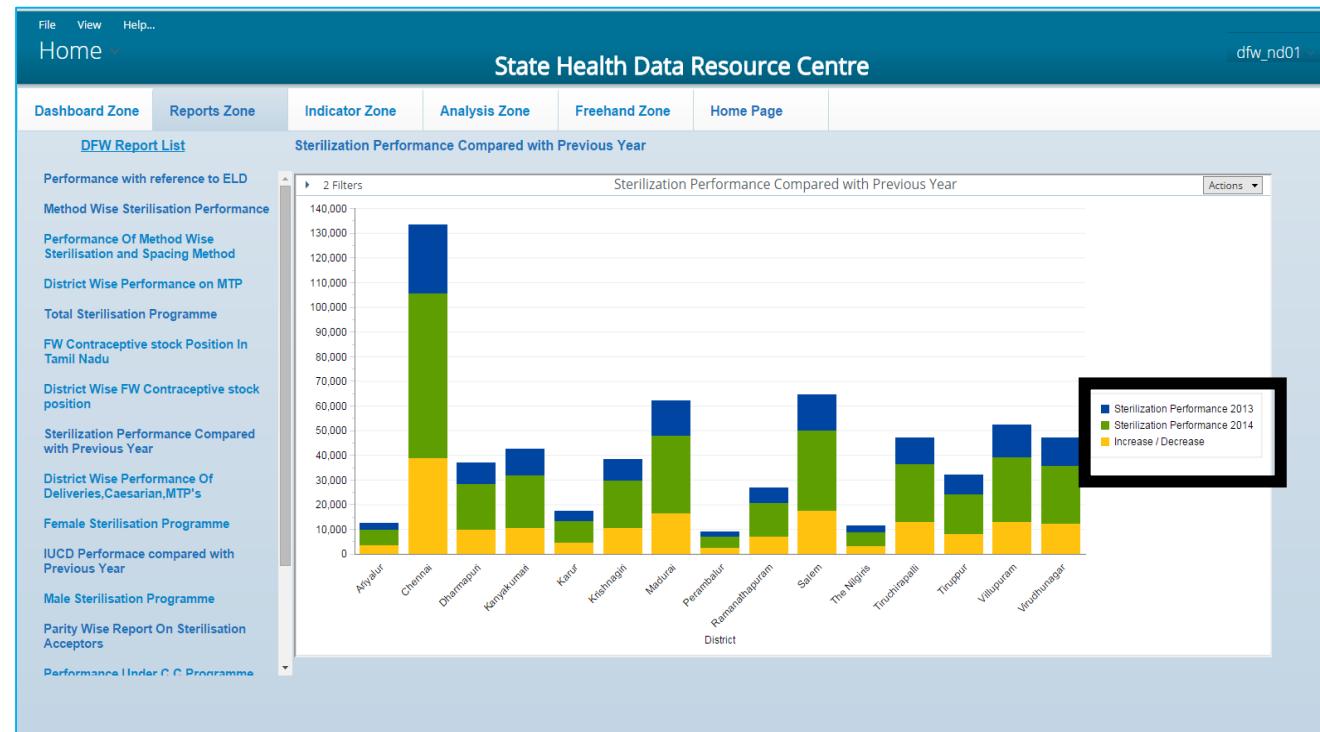
- The report is displayed as a **columngraph**.
- The various columns show the values for different districts.
- The reference for which column corresponds to which indicator is shown by the side of the graph.



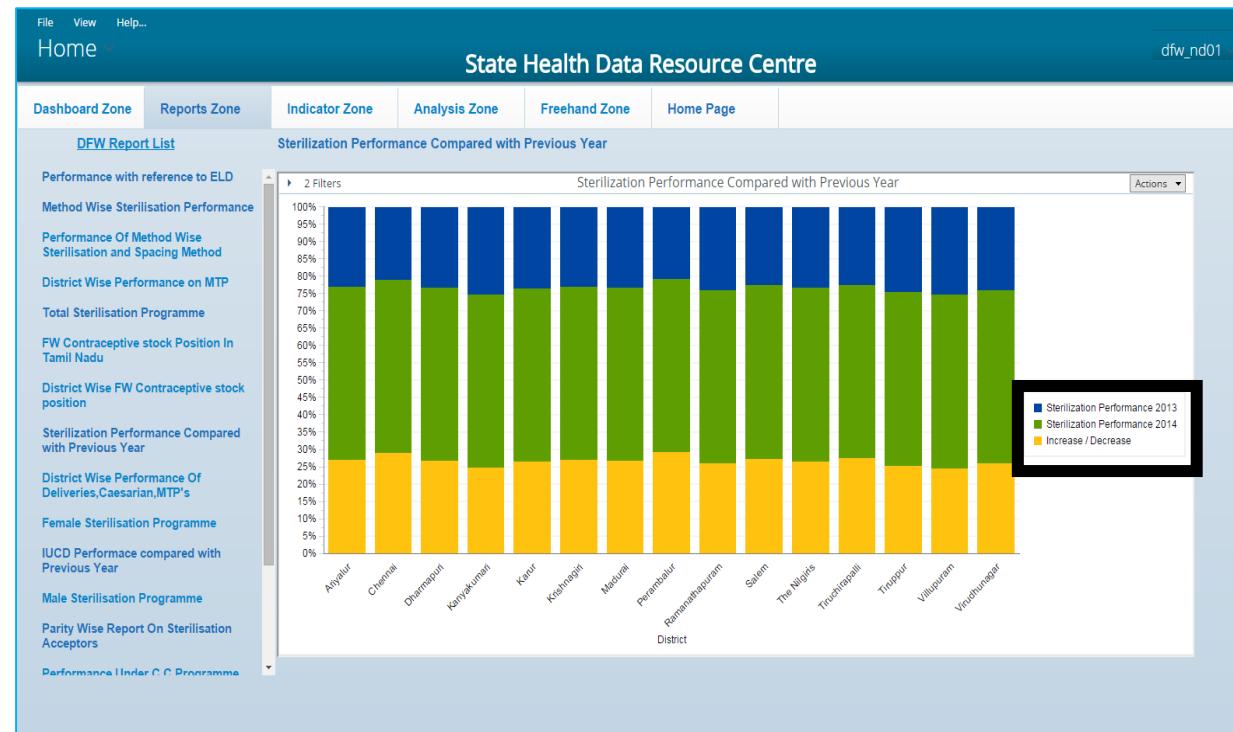
- It can be noted that placing the cursor on a particular column, gives a small description about that column.
- In this the Column corresponds to **District - Chennai; Indicator-SterilizationPerformance; Year - 2014; Value - 66.831**.



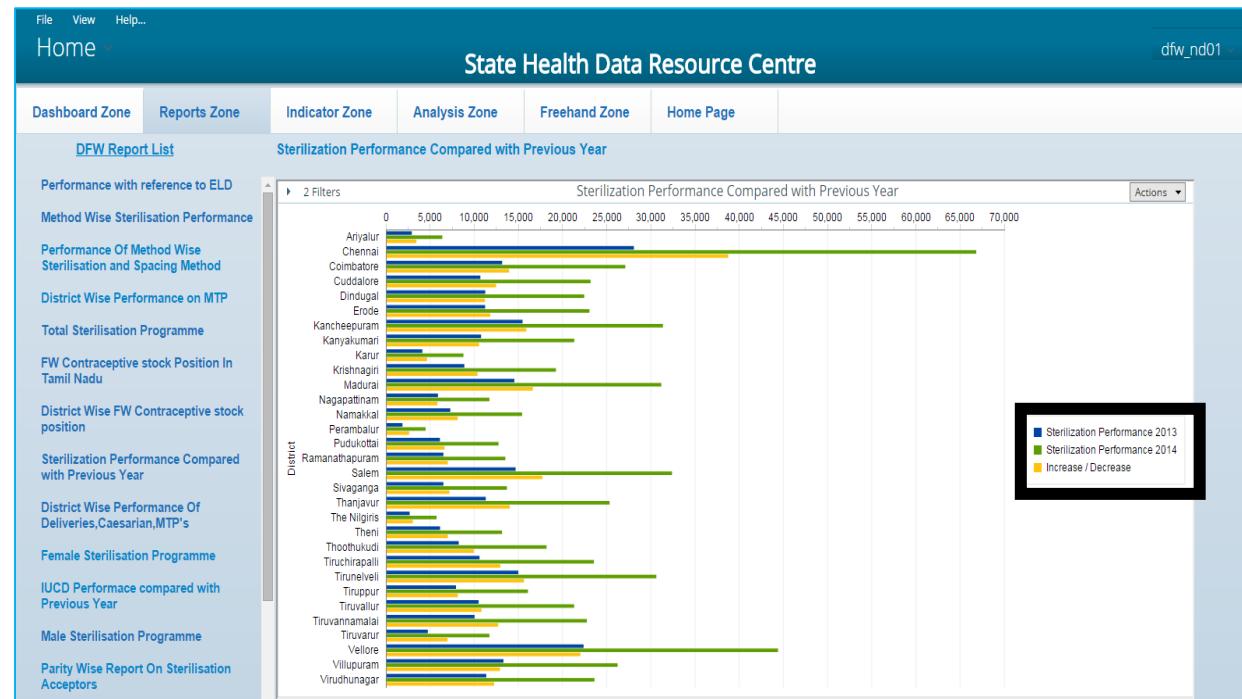
- On double clicking on a column district, the drilldown level of **Institutions** will be displayed.
 - Due to **numerous institutions** available for each district, the columns are not legibly seen.
 - To avoid this, **filters** can be applied to choose a **particular Indicator** for a **particular District** and then **Institutioncolumns** can be seen.



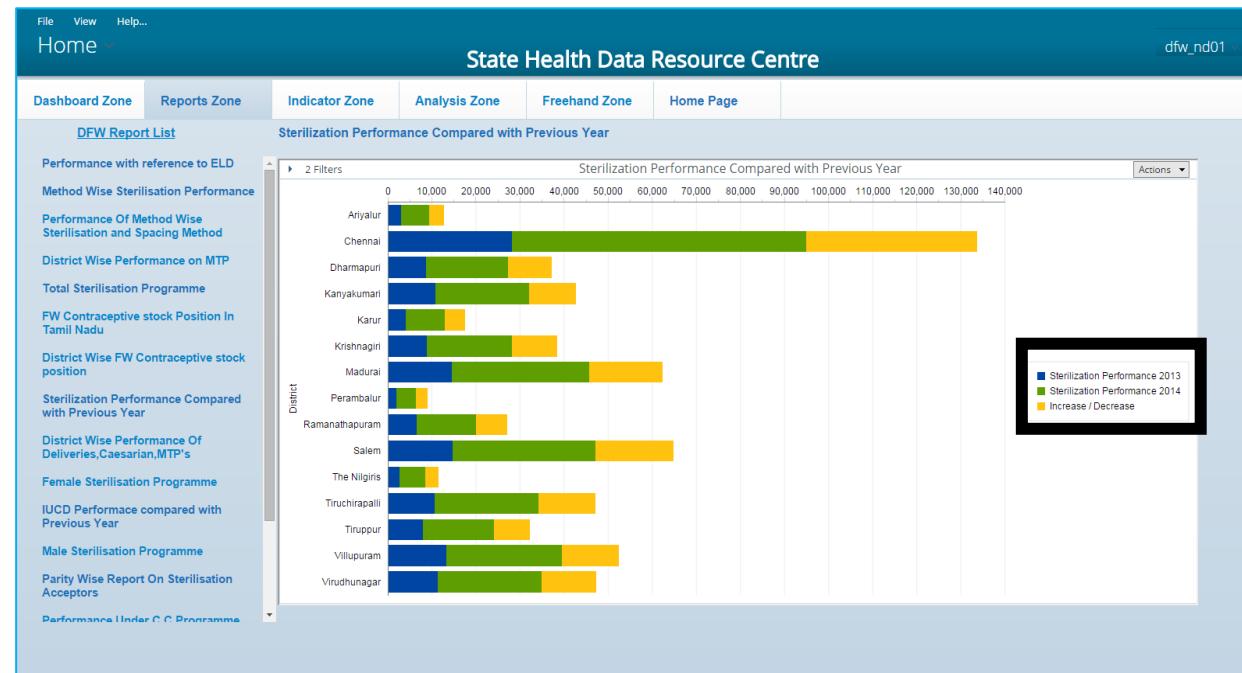
- To view the reports as single column, users can avail the **StackedColumnoption** in **Action Tab**.
- **Stacked Column** appends the Indicator Values one over the other and shows data district wise.
- This helps in analyzing the total values for each district.
- Choose Actions -> Show Report as TableChart ->Stacked Column for the same.



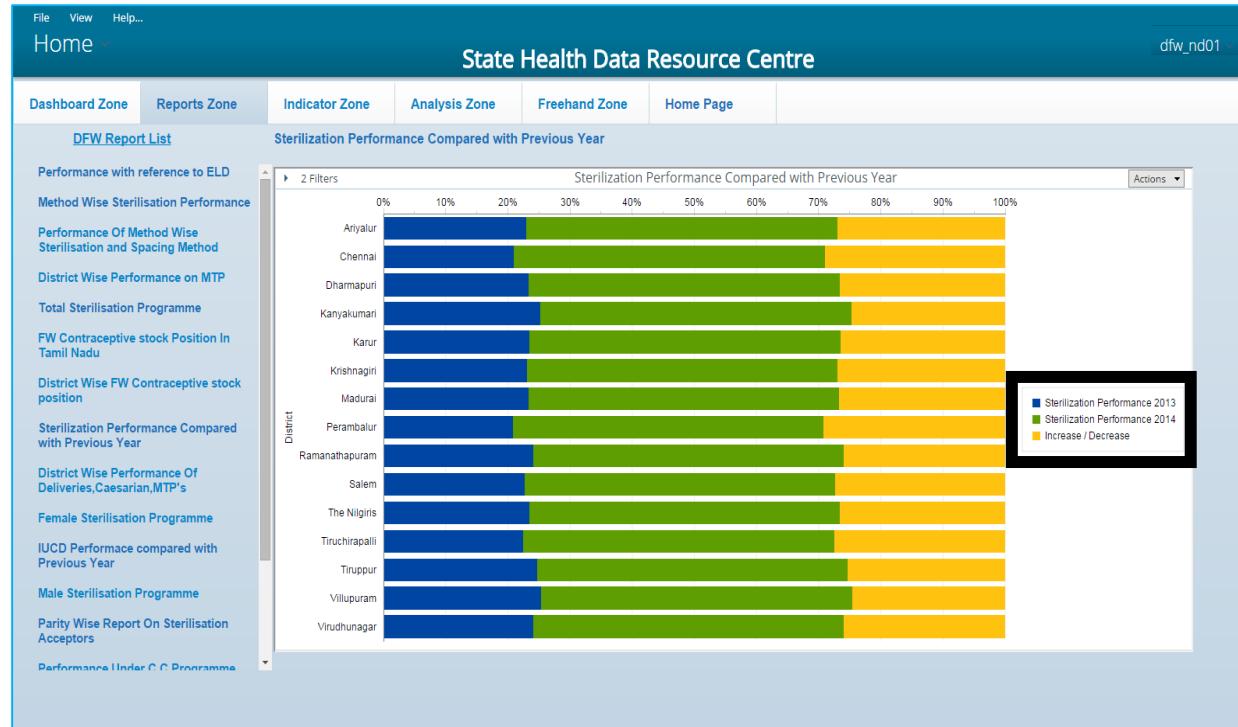
- To view the reports as a percentage of 100 in a single column, users can avail the **100% Stacked Column option** in Action Tab.
- **100% Stacked Column** appends the Indicator Values one over the other and shows each value as a percentage of 100.
- This helps in analyzing the contribution of each Indicator as a percentage of 100 for each district.
- Choose Actions -> Show Report as TableChart ->100% Stacked Column for the same.



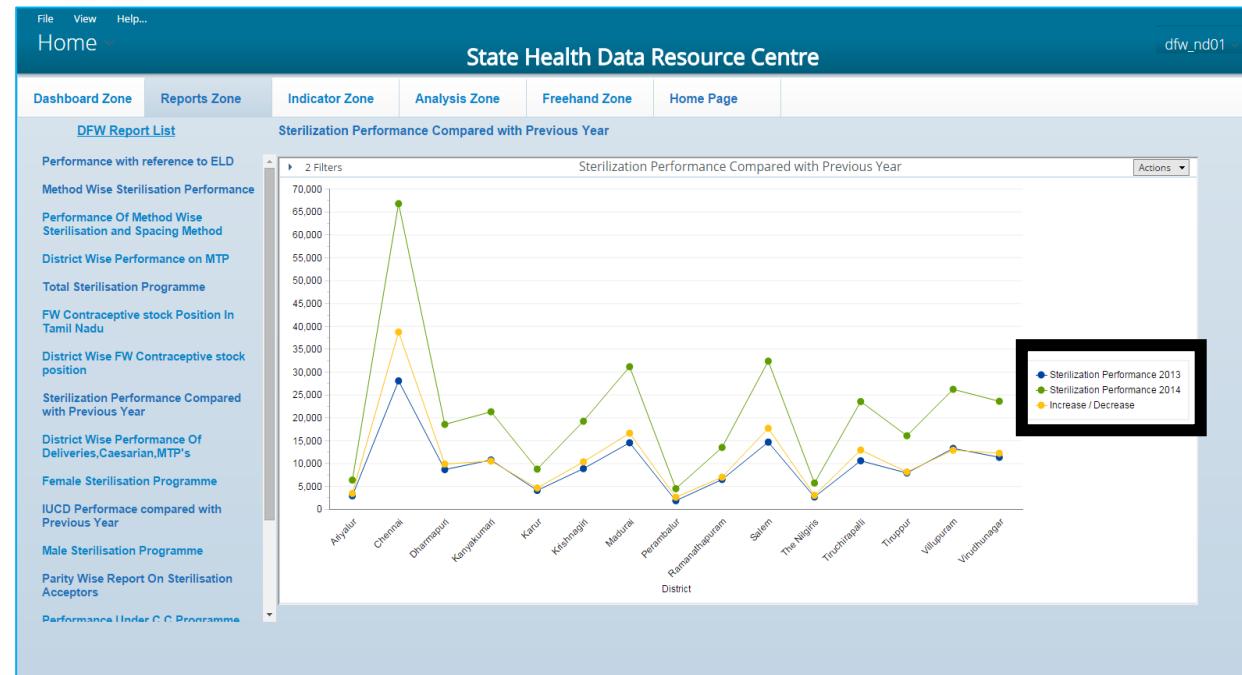
- To view the reports as horizontal bars, users can avail the **Baroption** in Action Tab.
- Choose Actions -> Show Report as TableChart -> Bar for the same.
- The report is displayed as a **bargraph**.
- The various bars show the values for different districts.
- The reference for which bar corresponds to which indicator is shown by the side of the graph.



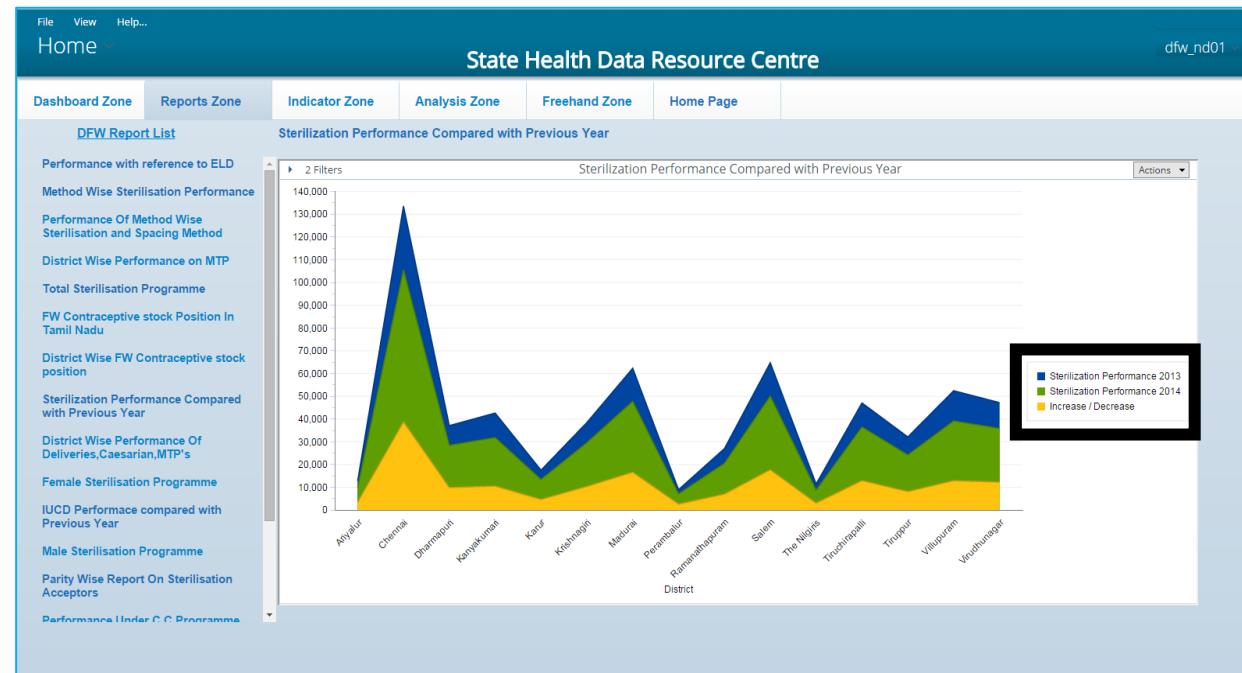
- To view the reports as single bar, users can avail the **StackedBaroption in Action Tab**.
- **Stacked Bar** appends the Indicator Values one over the other and shows data district wise.
- This helps in analyzing the total values for each district.
- Choose Actions -> Show Report as TableChart -> Stacked Bar for the same.



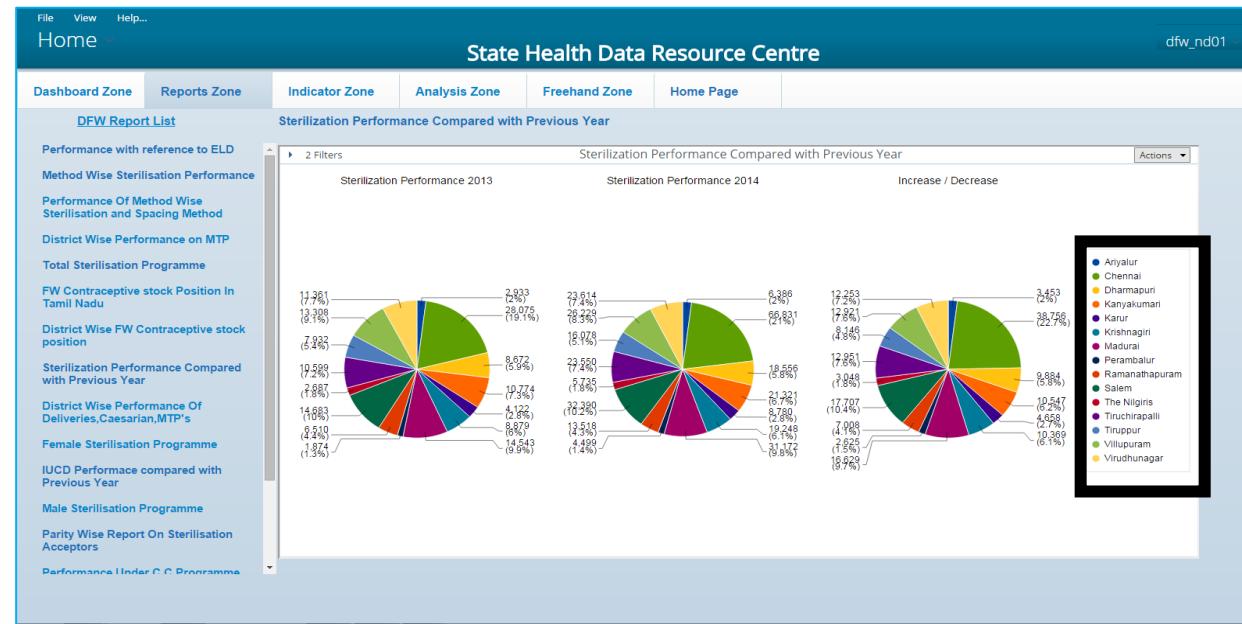
- To view the reports as a percentage of 100 in a single bar, users can avail the **100% Stacked Bar option in Action Tab**.
- **100% Stacked Bar** appends the Indicator Values one over the other and shows each value as a percentage of 100.
- This helps in analyzing the contribution of each Indicator as a percentage of 100 for each district.
- Choose Actions -> Show Report as TableChart -> 100% Stacked Bar for the same.



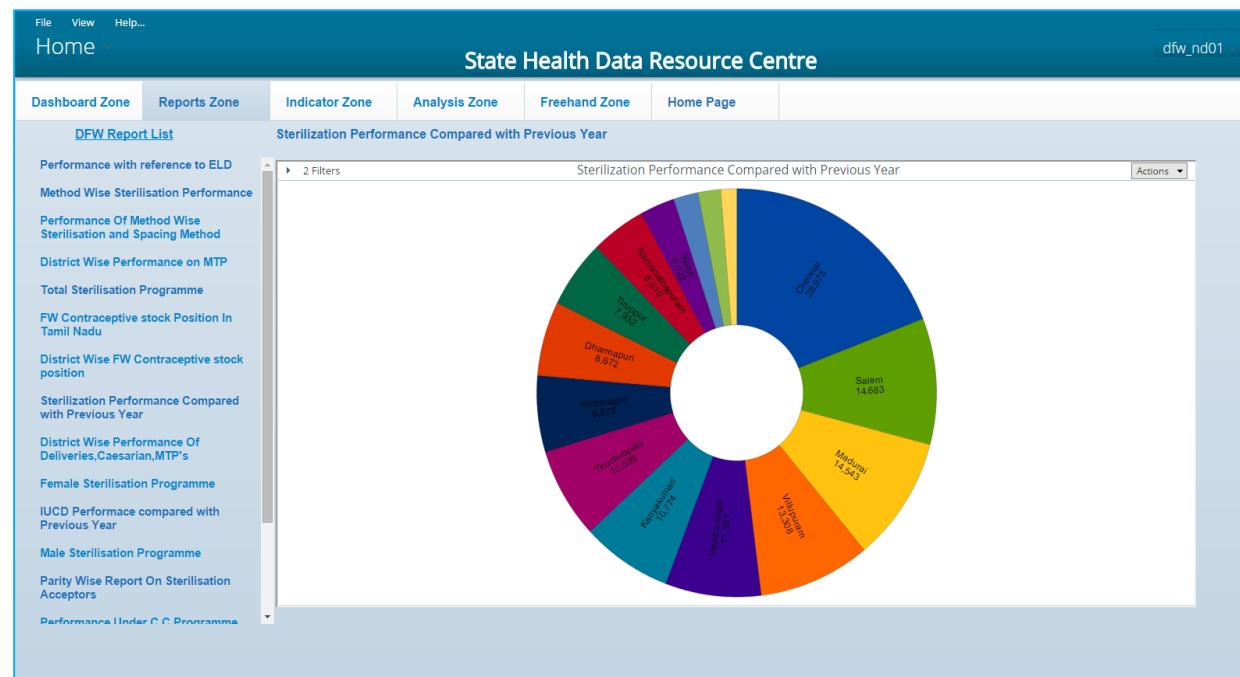
- To view the report on a linear basis, users can avail the **Lineoptionin Action Tab**.
- Choose Actions -> Show Report as TableChart ->Line for the same.
- The report is displayed as a **linear graph**.
- The various lines indicate the comparative values for each district in the report.
- The reference for which line corresponds to which indicator is shown by the side of the graph.



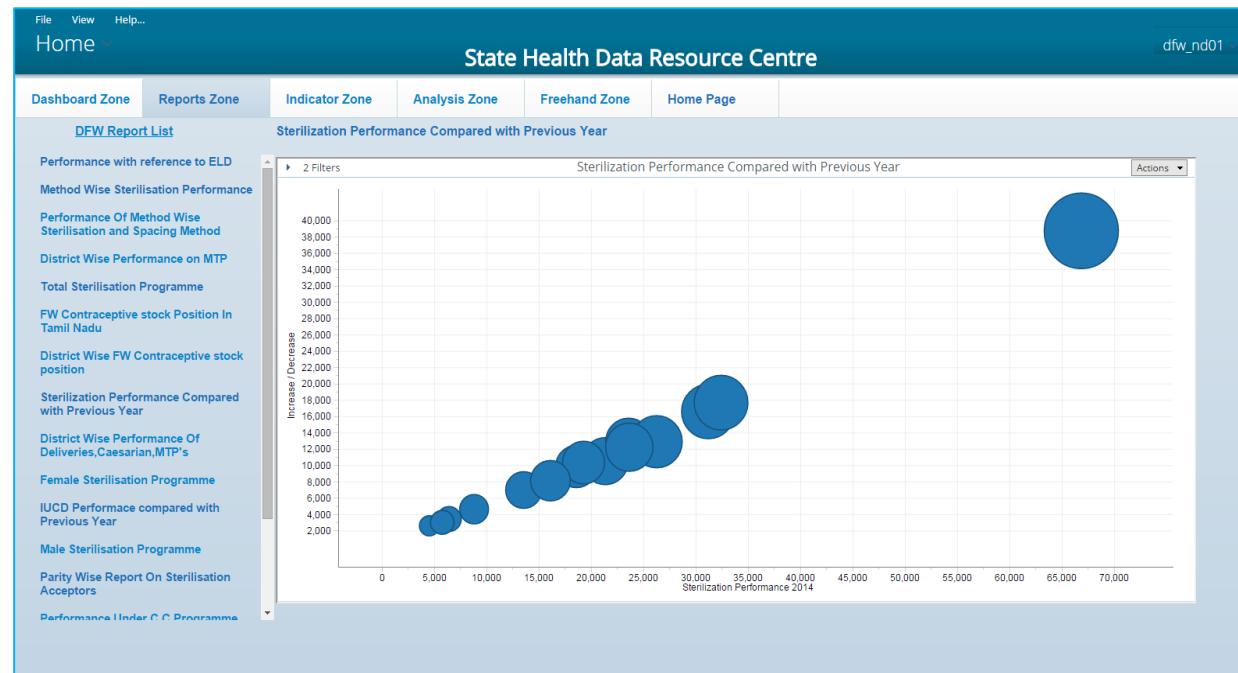
- To view the reports as an area, users can avail the **Areaoption in Action Tab**.
- Choose Actions -> Show Report as TableChart ->Area for the same.
- The various indicators are described as an area from the zero line to their corresponding values.
- The reference for which area corresponds to which indicator is shown by the side of the graph.



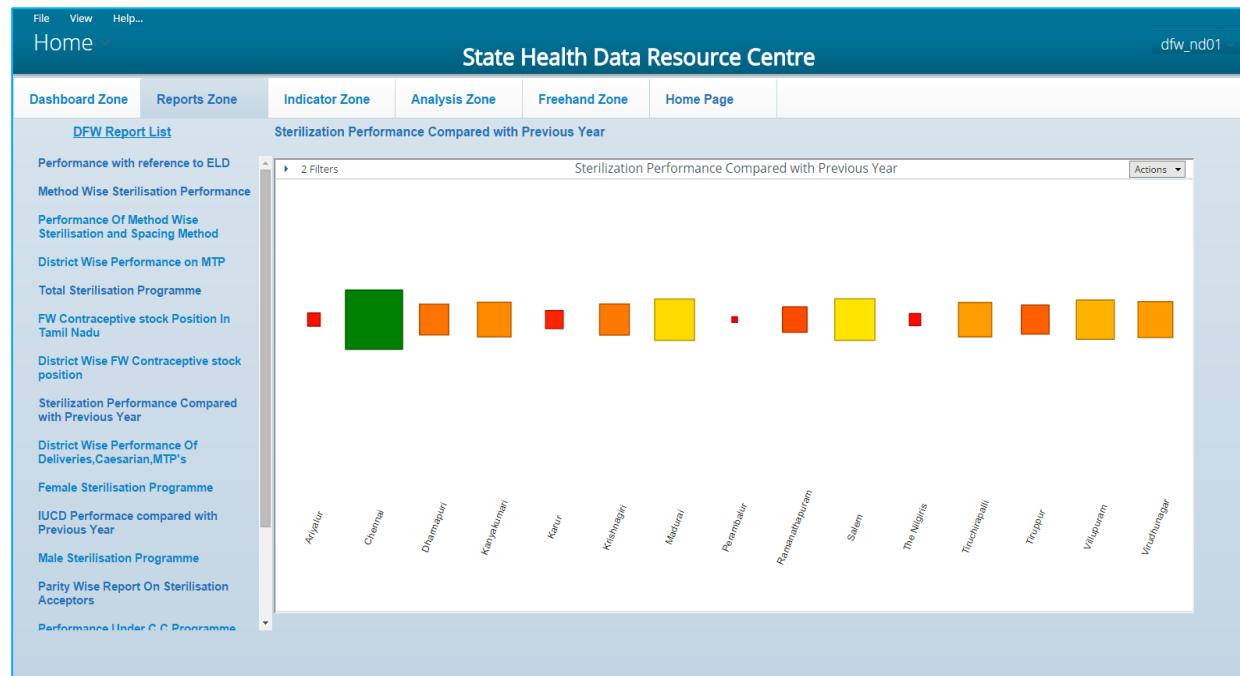
- To view the reports as a pie chart, users can avail the **Pieoption in Action Tab**.
- Choose Actions -> Show Report as TableChart ->Pie for the same.
- The various indicators are described on a circular basis, with each indicator/district occupying appropriate areas corresponding to their values.
- The reference for which area corresponds to which indicator/district is shown by the side of the graph.
- In the above example, the sectors on the circles correspond to the values of different districts and the indicator name is displayed on top of the pie chart.



- To view the reports as a pie chart for individual indicators, users can apply respective filters to choose **individual indicators** and then avail the **Sunburst option in Action Tab**.
- Choose Actions -> Show Report as TableChart ->Sunburst for the same.
- The various indicators are described on a circular basis, with each indicator/ district occupying appropriate areas corresponding to their values.
- The reference for which area corresponds to which indicator/ district is shown on the graph.



- To view the report with indicator values described as points, users can apply respective **filters** to choose **individual indicators** and then avail the **Scatteroption in Action Tab**.
- Choose Actions -> Show Report as TableChart -> Scatterfor the same.
- The various indicators/districts are described as points on a graph, where the points are placed at positions corresponding to their values.



- To view the report with indicator values described as squares, users can apply respective **filters** to choose **individual indicators** and then avail the **Heat Grid option in Action Tab**.
- Choose Actions -> Show Report as TableChart -> Heat Grid for the same.
- The various indicators/districts are described as squares on a graph, where the sizes of the squares are corresponding to their values.
- Placing the cursor on a particular square gives the description of the square.

The screenshot shows a web-based reporting interface for the State Health Data Resource Centre. The main title is "State Health Data Resource Centre". On the left sidebar, there are several report categories: DFW Report List, Performance with reference to ELD, Method Wise Sterilisation Performance, Performance Of Method Wise Sterilisation and Spacing Method, District Wise Performance on MTP, Total Sterilisation Programme, FW Contraceptive stock Position In Tamil Nadu, District Wise FW Contraceptive stock position, Sterilization Performance Compared with Previous Year, District Wise Performance Of Deliveries,Caesarian,MTP's, Female Sterilisation Programme, IUCD Performace compared with Previous Year, Male Sterilisation Programme, and Parity Wise Report On Sterilisation Acceptors.

The central area displays a table titled "Total Sterilisation Programme" with data for various districts (Ariyalur, Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindugal, Erode, Kanchipuram, Kanyakumari) across four months (Apr, May, Jun, Jul). The table includes columns for State, District, Indicator Name, and Indicator Total values for both Female and Male sterilizations.

A context menu is open over the table, with the "Actions" option selected. The submenu includes "Rows: 64 Cols: 12", "Show Report as Table/Chart", "Show Grand Totals for Rows" (which is highlighted with a red box), "Show Grand Totals for Columns", "Export to PDF", and "Export to Excel".

- There is also a feature in the Reports Zone to show the **Grand Total Value** for **Rows/Columns** in the report.
- This can be availed by making use of the **Actions option**.
- Choose **Actions ->Grand Total Value for Rows** for the same.

State	District	Indicator Name	Nov	Dec	Jan	Feb	Mar	Grand Total
			Indicator Total					
Ariyalur	Total No Of Female Sterilization	240	3,679	35	51	-	-	5,787
	Total No Of Male Sterilization	1	74	-	-	-	-	99
Chennai	Total No Of Female Sterilization	1,386	40,104	633	566	191	191	60,933
	Total No Of Male Sterilization	7	804	2	2	2	2	856
Coimbatore	Total No Of Female Sterilization	830	15,863	539	535	107	107	25,401
	Total No Of Male Sterilization	-	310	-	-	-	-	322
Cuddalore	Total No Of Female Sterilization	500	14,117	175	198	60	60	21,088
	Total No Of Male Sterilization	5	287	1	-	-	-	318
Dharmapuri	Total No Of Female Sterilization	380	11,142	111	126	54	54	16,673
	Total No Of Male Sterilization	-	224	-	-	-	-	229
Dindugal	Total No Of Female Sterilization	612	13,279	308	280	74	74	20,512
	Total No Of Male Sterilization	-	264	-	-	-	-	319
Erode	Total No Of Female Sterilization	840	13,231	433	438	100	100	21,672
	Total No Of Male Sterilization	5	260	-	-	-	-	277
Kancheepuram	Total No Of Female Sterilization	785	16,962	271	251	72	72	27,874
	Total No Of Male Sterilization	-	340	-	-	-	-	383
Kanyakumari	Total No Of Female Sterilization	563	12,196	495	381	72	72	19,908
	Total No Of Male Sterilization	-	240	-	-	-	-	248
		Total No Of Female Sterilization	162	5,211	88	87	20	7,976

- Thus **Grand Total** gets displayed for **each indicator** in the specific report.
- It can also be noted that values can be viewed for each indicators at State Level, District Level, Month wise, etc. by adding suitable **filters**.

The screenshot shows the SHDRC interface with the following details:

- Header:** File, View, Help..., Home, State Health Data Resource Centre, dfw_nd01.
- Top Navigation:** Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Home Page.
- Left Sidebar (DFW Report List):**
 - Performance with reference to ELD
 - Method Wise Sterilisation Performance
 - Performance Of Method Wise Sterilisation and Spacing Method
 - District Wise Performance on MTP
 - Total Sterilisation Programme
 - FW Contraceptive stock Position In Tamil Nadu
 - District Wise FW Contraceptive stock position
 - Sterilization Performance Compared with Previous Year
 - District Wise Performance Of Deliveries,Caesarian,MTP's
 - Female Sterilisation Programme
 - IUCD Performace compared with Previous Year
 - Male Sterilisation Programme
 - Parity Wise Report On Sterilisation Acceptors
 - Performance Under C & C Programme
- Report Content:** Total Sterilisation Programme. The report table has columns for State, District, Indicator Name, and Indicator Total for Apr, May, Jun, Jul, Aug. The table includes data for districts like Ariyalur, Chennai, Coimbatore, etc., across various sterilization categories.
- Actions Menu (Highlighted):** The 'Actions' dropdown in the top right of the report area is highlighted with a red box. It contains options: Show Report as Table/Chart, Show Grand Totals for Rows, Show Grand Totals for Columns (which is also highlighted with a black box), Export to PDF, and Export to Excel.

- To view the grand total for each indicator in this report in the form of a histogram, choose **Actions -> Show Grand Totals for Columns**.

The screenshot shows the SHDRC interface with the following details:

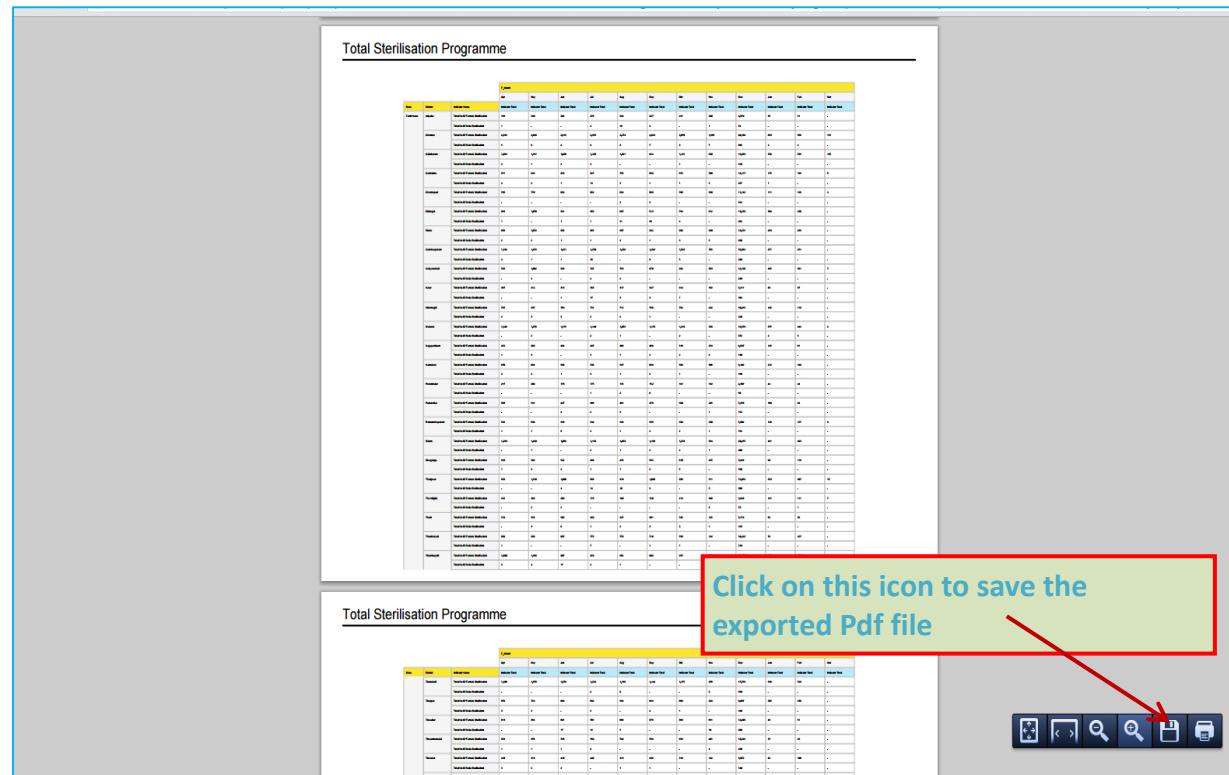
- Header:** File, View, Help..., Home, State Health Data Resource Centre, dfw_nd01.
- Navigation:** Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Home Page.
- Section:** DFW Report List, Total Sterilisation Programme.
- Table:** F_Month (Indicator Name, State, District, Month: Apr, May, Jun, Jul, Aug, Sep). The table lists monthly sterilization counts for districts like Thoothukudi, Tiruchirapalli, Tirunelveli, Tiruppur, Tiruvallur, Tiruvarur, Vellore, and Villupuram.
- Bottom Row:** Grand Total (28,198, 30,601, 25,802, 26,554, 24,843, 26,848).

- Thus **GrandTotal** gets displayed for **eachmonth** in the specific report.
- It can also be noted that values can be viewed for each indicators at State Level, District Level, Month wise, etc. by adding suitable **filters**.

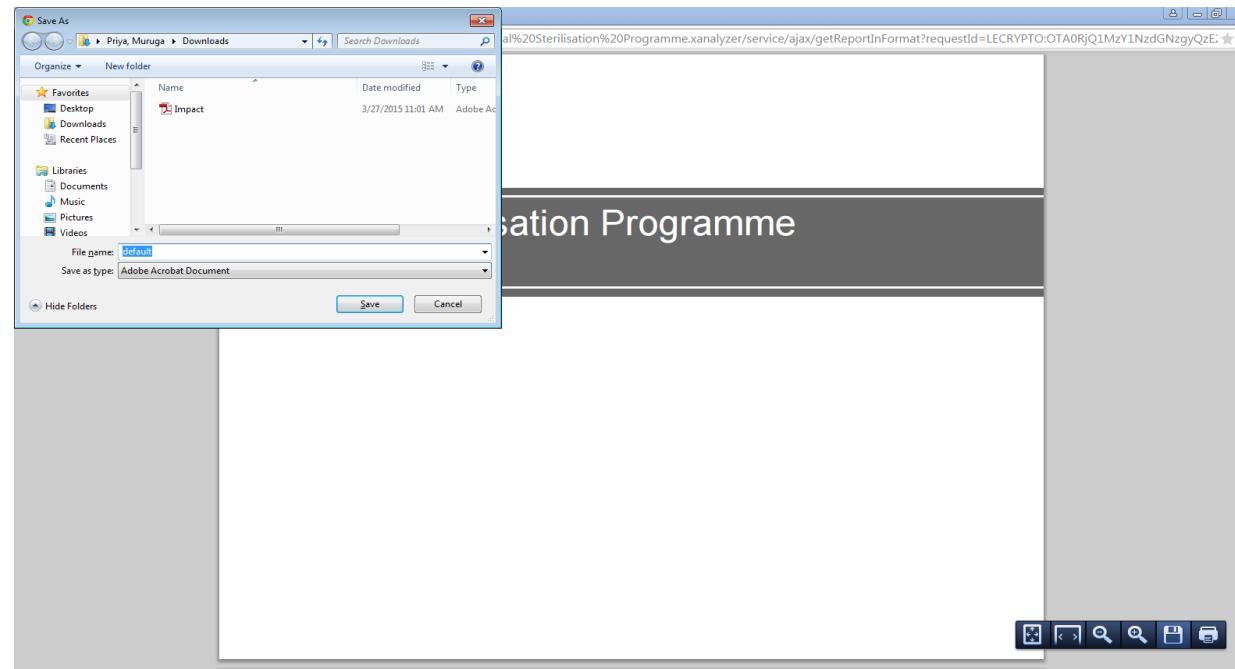
The screenshot shows the SHDRC interface with the following details:

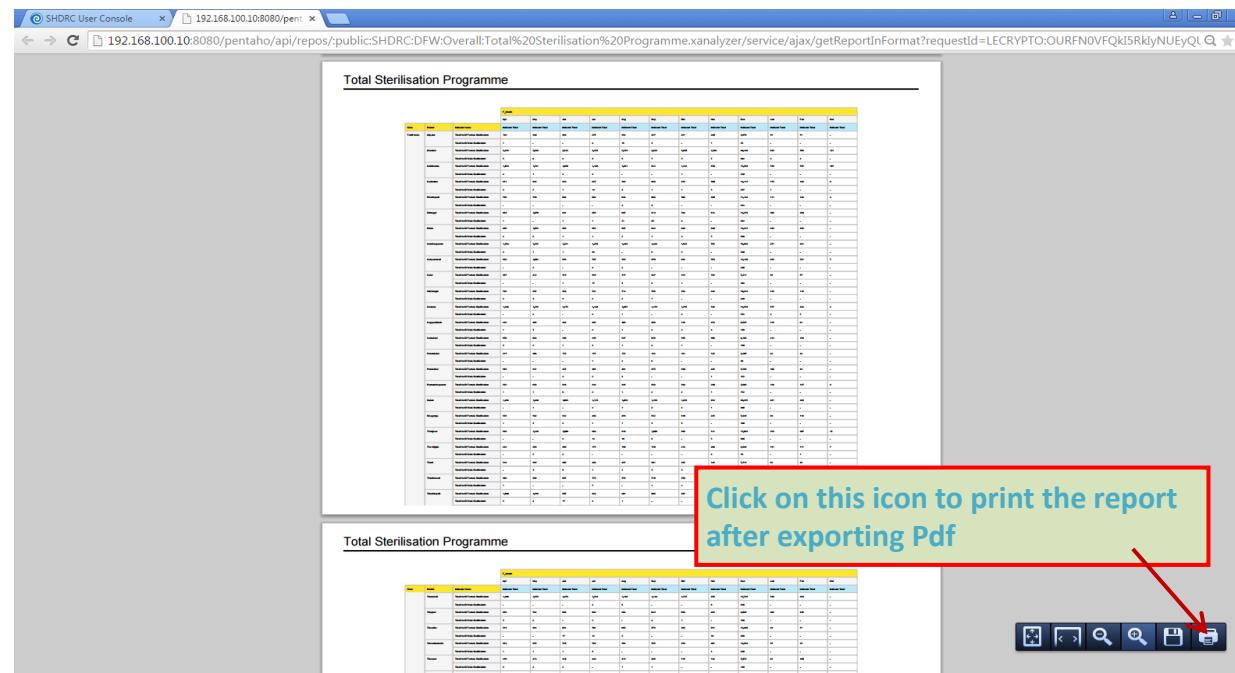
- Header:** File, View, Help..., Home, State Health Data Resource Centre, dfw_nd01.
- Navigation:** Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Home Page.
- Left Sidebar (DFW Report List):**
 - Performance with reference to ELD
 - Method Wise Sterilisation Performance
 - Performance Of Method Wise Sterilisation and Spacing Method
 - District Wise Performance on MTP
 - Total Sterilisation Programme
 - FW Contraceptive stock Position In Tamil Nadu
 - District Wise FW Contraceptive stock position
 - Sterilization Performance Compared with Previous Year
 - District Wise Performance Of Deliveries,Caesarian,MTP's
 - Female Sterilisation Programme
 - IUCD Performace compared with Previous Year
 - Male Sterilisation Programme
- Report Title:** Total Sterilisation Programme
- Table Headers:** F_Month (Apr, May, Jun, Jul), State, District, Indicator Name, Indicator Total.
- Table Data:** A grid of data for various districts (Ariyalur, Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindugal, Erode, Kancheepuram, Kanyakumari, Karur, Krishnagiri, Madurai) across the specified months.
- Context Menu (Actions):**
 - Rows: 64 Cols: 12 Actions
 - Show Report as Table/Chart
 - Show Grand Totals for Rows
 - Show Grand Totals for Columns
 - Export to PDF** (highlighted with a red box)
 - Export to Excel

- There is also a feature in the Reports Zone to **Export the report to PDF/ Excel**.
- This can be availed by making use of the **Actions option**.
- For example, to export the report to PDF, choose **Actions -> Export to PDF**.



- The Report exported to PDF Format gets displayed.
- This can be saved for further use.





- The Report exported to PDF Format gets displayed.
- This can be printed for further use.



The screenshot shows a web-based reporting interface for the State Health Data Resource Centre. The main title is 'State Health Data Resource Centre'. On the left sidebar, there's a list of reports under 'DFW Report List' including 'Performance with reference to ELD', 'Method Wise Sterilisation Performance', 'Performance Of Method Wise Sterilisation and Spacing Method', 'District Wise Performance on MTP', 'Total Sterilisation Programme', 'FW Contraceptive stock Position In Tamil Nadu', 'District Wise FW Contraceptive stock position', 'Sterilization Performance Compared with Previous Year', 'District Wise Performance Of Deliveries,Caesarian,MTP's', 'Female Sterilisation Programme', 'IUCD Performace compared with Previous Year', 'Male Sterilisation Programme', and 'Parity Wise Report On Sterilisation Acceptors'. The main content area displays a table titled 'Total Sterilisation Programme' with columns for State, District, Indicator Name, and four months (Apr, May, Jun, Jul). The 'Actions' menu, located in the top right of the report area, is highlighted with a red box and contains options like 'Rows: 64 Cols: 12 Actions', 'Show Reports as Table/Chart', 'Show Grand Totals for Rows', 'Show Grand Totals for Columns', 'Print', and 'Export to Excel'.

State	District	Indicator Name	Total Sterilisation Programme			
			Apr	May	Jun	Jul
Ariyalur	Total No Of Female Sterilization	198	340	264	278	
	Total No Of Male Sterilization	1	-	-	4	
Chennai	Total No Of Female Sterilization	2,832	2,999	2,318	2,358	
	Total No Of Male Sterilization	5	6	4	6	
Coimbatore	Total No Of Female Sterilization	1,083	1,191	1,080	1,103	
	Total No Of Male Sterilization	4	1	2	4	
Cuddalore	Total No Of Female Sterilization	871	945	823	927	
	Total No Of Male Sterilization	4	2	1	13	
Dharmapuri	Total No Of Female Sterilization	786	770	684	662	
	Total No Of Male Sterilization	-	-	-	2	
Dindugal	Total No Of Female Sterilization	963	1,070	831	865	
	Total No Of Male Sterilization	1	-	1	1	
Erode	Total No Of Female Sterilization	986	1,072	868	965	
	Total No Of Male Sterilization	2	2	1	1	
Kancheepuram	Total No Of Female Sterilization	1,334	1,472	1,221	1,270	
	Total No Of Male Sterilization	4	1	1	26	
Kanyakumari	Total No Of Female Sterilization	839	1,002	933	797	
	Total No Of Male Sterilization	-	2	-	2	
Karur	Total No Of Female Sterilization	367	412	313	358	
	Total No Of Male Sterilization	-	-	1	17	
Krishnagiri	Total No Of Female Sterilization	795	837	763	731	
	Total No Of Male Sterilization	2	3	3	2	
Madurai	Total No Of Female Sterilization	1,349	1,278	1,175	1,140	
	Total No Of Male Sterilization	-	-	-	1,17	

- There is also a feature in the Reports Zone to **Export** the **report** to **PDF/ Excel**.
- This can be availed by making use of the **Actions option**.
- For example, to export the report to PDF, choose **Actions -> Export to Excel**.

The screenshot shows a Microsoft Excel spreadsheet with the following details:

Report Summary:

- Report Name: Total Sterilisation Programme
- Description: No Description
- Report Create: dfw_nd01
- Report Locati: public/SHDRC/DFW/Overall/Total Sterilisation Programme.xanalyzer
- Created on: Apr 29, 2015 3:06:43 PM
- Cube: DFW_Fact
- Date Exporte: Apr 29, 2015 3:06:43 PM
- Filters Used: Indicator Name includes Total No Of Female Sterilization and Total No Of Male Sterilization
F_MYear includes 2014

Table Data:

The table displays monthly sterilization counts by state and district. The columns represent months from April to March, and the rows list various sterilization categories for each location.

State	District	Indicator Name	F_Month											
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Ariyalur	Total No Of Female Sterilization	198	340	264	278	254	227	221	261	3,840	193	210		
	Total No Of Male Sterilization	1	-	-	4	16	3	-	2	74	-	-		
Chennai	Total No Of Female Sterilization	2,833	2,998	2,317	2,361	2,272	2,622	2,650	2,629	41,658	1,791	1,625		
	Total No Of Male Sterilization	5	6	4	8	8	7	3	7	807	4	6		
Coimbatore	Total No Of Female Sterilization	1,083	1,191	1,080	1,103	1,021	924	1,114	1,126	16,263	889	836		
	Total No Of Male Sterilization	4	1	2	4	-	-	1	6	319	1	4		
Cuddalore	Total No Of Female Sterilization	871	945	823	927	785	869	872	826	14,650	627	649		
	Total No Of Male Sterilization	4	2	1	13	3	1	1	6	287	1	1		
Dharmapuri	Total No Of Female Sterilization	796	770	684	662	634	666	726	700	11,623	530	530		
	Total No Of Male Sterilization	-	-	-	-	2	3	-	-	226	-	-		
Dindugal	Total No Of Female Sterilization	963	1,070	831	865	697	813	794	863	13,756	746	687		
	Total No Of Male Sterilization	1	-	1	1	21	26	4	-	266	1	1		
Erode	Total No Of Female Sterilization	986	1,072	868	965	897	944	998	940	13,612	726	737		
	Total No Of Male Sterilization	2	2	1	1	2	1	3	5	261	15	6		
	Total No Of Female Sterilization	1,334	1,472	1,221	1,270	1,288	1,492	1,528	1,376	18,038	1,061	887		

- The Report exported to Excel Format gets displayed.
- This can be saved/ printed for further use.

8. Indicator Zone

The screenshot shows the SHDRC portal interface. At the top, there is a navigation bar with links: File, View, Help..., Home, dfw_nd01, Dashboard Zone, Reports Zone, **Indicator Zone**, Analysis Zone, Freehand Zone, and Home Page. The 'Indicator Zone' tab is highlighted with a red box. Below the navigation bar, the title 'State Health Data Resource Centre' is displayed. A sub-header 'DFW Normal KPI' is followed by a filter section with 'No Filters' and a button 'Actions'. The main content area contains a table titled 'DFW Normal KPI' with the following data:

Indicator Classification	Indicator Category	Indicator Name	Indicator Total
INPUT	Contraceptive Stocks	IUCD Stock	24,060,659
		OP stock	13,004,885
		CC Stock	335,909,170
		Epills stock	3,607,212
		Tubal Rings Stock	645,429
	CC Users	Net Condoms Distributed to Regular Users	40,553,873
	Female Sterilization	Total No Of Female Sterilization	1,335,690
	IUCD	Total No of IUCD Inserted	2,521,184
	MTP Acceptance	Total MTP Acceptance	181,774
	Male Sterilization	Total No Of Male Sterilization	11,888
		Permanent Method Vasectomy AgeWise 15-19	4
		Permanent Method Vasectomy AgeWise 20-24	118
		Permanent Method Vasectomy AgeWise 25-29	520
		Permanent Method Vasectomy AgeWise 30-34	938
		Permanent Method Vasectomy AgeWise 35-39	910
		Permanent Method Vasectomy AgeWise 40-44	774
		Permanent Method Vasectomy AgeWise 45-49	534
		Permanent Method Tubectomy AgeWise 15-19	2,027
		Permanent Method Tubectomy AgeWise 20-24	281,859
	Permanent Method Tubectomy AgeWise 25-29	367,755	
	Permanent Method Tubectomy AgeWise 30-34	123,414	

- The third zone in the SHDRC portal is the **IndicatorZone**.



The screenshot shows the SHDRC user interface with the 'Indicator Zone' selected in the top navigation bar. The main content area displays a table titled 'DFW Normal KPI' with the following data:

Indicator Classification	Indicator Category	Indicator Name	Indicator Total
		IUD Literacy Status Illiterate	63,240
		IUD Literacy Status Upto 5th	168,982
		IUD Literacy Status Up to 8th	256,575
		IUD Literacy Status Upto 10th	286,666
		IUD Literacy Status Upto Hr.Sec	167,353
		IUD Literacy Status Diploma	28,100
		IUD Literacy Status Graduate	49,067
		IUD Literacy Status Others	1,722
		Vasectomy Literacy Status-Spouse Illiterate	980
		Vasectomy Literacy Status-Spouse Upto 5th	1,201
		Vasectomy Literacy Status-Spouse Up to 8th	1,633
		Vasectomy Literacy Status-Spouse Upto 10th	1,621
		Vasectomy Literacy Status-Spouse Upto Hr Sec	909
		Vasectomy Literacy Status-Spouse Diploma	169
		Vasectomy Literacy Status-Spouse Graduate	696
		Vasectomy Literacy Status-Spouse Others	20
		Tubectomy Literacy Status-Spouse Illiterate	95,683
		Tubectomy Literacy Status-Spouse Upto 5th	173,292
		Tubectomy Literacy Status-Spouse Up to 8th	298,060
		Tubectomy Literacy Status-Spouse Upto 10th	374,291
		Tubectomy Literacy Status-Spouse Upto Hr Sec	205,750

- The Indicator Zone consists of **alltheindicators** that are available in that directorate.



The screenshot shows a web-based application for the State Health Data Resource Centre. At the top, there's a navigation bar with links for File, View, Help..., Home, and a dropdown menu dfw_nd01. Below the navigation is a horizontal menu bar with tabs: Dashboard Zone, Reports Zone, **Indicator Zone**, Analysis Zone, Freehand Zone, and Home Page. The **Indicator Zone** tab is currently selected. The main content area displays a table titled "DFW Normal KPI". The table has four columns: **Indicator Classification**, **Indicator Category**, **Indicator Name**, and **Indicator Total**. The first column, "Indicator Classification", contains the value "PROCESS" with a red border around it. The other three columns have red borders around them as well. The table lists various indicators and their counts, such as MTP Religion Hindu (151,291), MTP Religion Christian (9,926), and MTP living Children 0 (16,978). A filter section at the top of the table says "No Filters" and shows "Rows: 274 Cols: 1 Actions".

Indicator Classification	Indicator Category	Indicator Name	Indicator Total
PROCESS		MTP Religion Hindu	151,291
		MTP Religion Christian	9,926
		MTP Religion Muslim	9,146
		MTP Religion Sikh	127
		MTP Religion Others	659
		Reason for Termination Danger to the life of pregnant woman	19,147
		Reason for Termination Grave injury to the Physical health	25,435
		Reason for Termination Grave injury to the mental health	9,435
		Reason for Termination Pregnancy caused by rape	168
		Reason for Termination Failure of any contraceptive device	2,096
		Reason for Termination Others	112,223
		MTP Acceptance Sterilisation	98,207
		MTP Acceptance IUD	14,253
		MTP Acceptance Oral Pills/Others Contraceptives	19,830
		MTP Acceptance Plain MTP	220,635
		MTP Acceptance No. of Deaths Reported	41
		MTP Acceptance No. of MTP Done to unwed mothers	633
		MTP living Children 0	16,978
		MTP living Children 1	66,303
		MTP living Children 2	70,681
		MTP living Children 3+	17,181

- These indicators along with their values get displayed as per the **classifications** given by the Directorate, say **INPUT**, **PROCESS**, **OUTPUT**, etc.

Indicator Classification	Indicator Category	Indicator Name	Indicator Total
	C-3 Children Laproscopy	2,801	
	D-4 and above Laproscopy	373	
	A-0 and 1 child IUD	218,723	
	B-2 Children IUD	61,769	
	C-3 Children IUD	8,440	
	D-4 and above IUD	1,311	
	A-0 and 1 child OP	12,622	
	B-2 Children OP	3,610	
	C-3 Children OP	554	
	D-4 and above OP	115	
	A-0 and 1 child CC	177,399	
	B-2 Children CC	58,706	
	C-3 Children CC	11,531	
	D-4 and above CC	2,804	
	Vasectomy Living Children 0+1	365	
	Reason for Termination Substantial risk	2,649	
SpacingMethod	No. of mothers using E.Pills	357,128	
	Total no of O.P Cycles distributed	1,805,073	
	Total Condoms Distributed	20,714,004	
	No. of E.Pills pack distributed	371,523	
	Total MTP	181,749	

- The indicators in each classification are further classified into various **categories** as specified by the Directorate.
- In DFW, some of the categories are **Contraceptive Stocks, Male Sterilization, Performance, Spacing method**, etc.
- The features of the Action Tab explained in the **Reports Zone** are the same for the **Indicator Zone** as well.

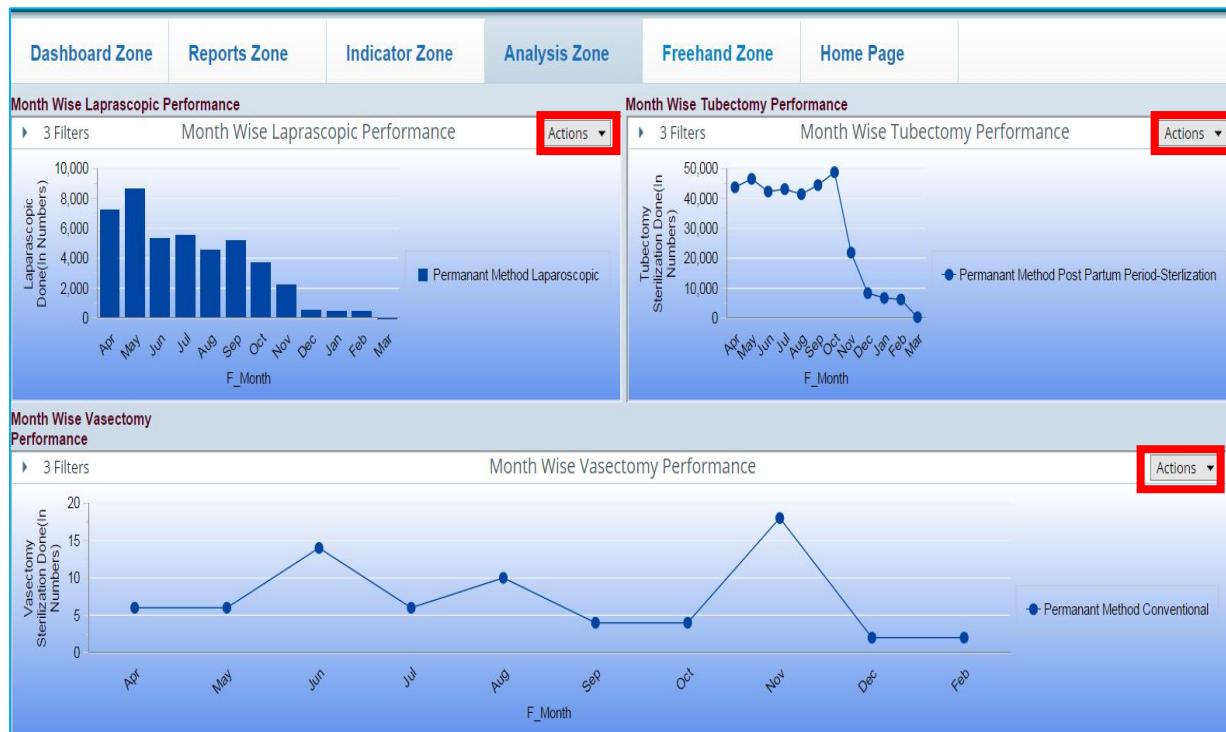
9. Analysis Zone



- The fourth zone in the SHDRC portal is the **Analysis Zone**.
- The Analysis Zone consists of graphical representations of certain indicator values, which can be compared for certain analysis purposes.
- For example, these data can be viewed **month wise, year wise** etc.



- To view individual analysis reports, users can click on the **Link** that is the available as the **Report Name**.



- It can be seen that an **Action Tab** is available for individual reports in the Analysis Zone.
- The various features of the Action Tab explained in the Reports Zone act well in the Analysis Zone as well.

10. Freehand Zone

The screenshot shows the Freehand Zone interface. The top navigation bar includes tabs for Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone (which is highlighted with a red box), and Home Page. The main workspace on the right is titled "State Health Data Resource Centre" and "dfw_nd01". It features a "Layout" panel with sections for Rows, Columns, and Measures, each with a "Drop Level Here *" placeholder. A "Table" icon is present. To the left, a sidebar lists "Available fields (45) for DFW_Fact" with categories like Age, Current_FMonth_No, Directorate, Gender, General, Indicator Category, Institution Type, and Level. A "Find:" search bar is also in the sidebar.

- The last zone available in the SHDRC Portal is the **FreehandZone**.
- This zone is helpful for the users to make comparisons in terms of **different years, different districts**, etc.
- The various features of the Action Tab explained in the Reports Zone act well in the Freehand Zone as well.
- In addition to that many more features are also available as **More Actions and Options** icon.

The screenshot shows the 'Freehand Zone' tab selected in the top navigation bar. On the left, there's a sidebar titled 'Available fields (45) for: DFW_Fact' with a search bar. The main workspace is divided into three layout panels: 'Rows', 'Columns', and 'Measures', each with a 'Drop Level Here *' placeholder. Below these is a 'Properties' panel with a 'Report Options...' button. A status message at the bottom left says 'No Filters' and 'Unsaved Report'. To the right, there's a 'Table' icon with a plus sign. A note in the center says 'Drag an available field to the required layout zones. (Marked with a red asterisk in the layout panel.)'. The URL at the bottom of the page is: 192.168.100.10:8080/pentaho/mantle/home/freehandzone.jsp?directorate=10&selectedZone=freeHand

- Freehand zone has no default reports displayed.
- Reports can be generated as per user choice by selecting the required fields from the **Available fields** and **Layout pane**.
- The fields can be dragged and dropped into the Layout pane (Rows, Columns &Measures) to generate custom reports.

Available fields

- Available Fields pane helps users with a list of fields such as Indicator Name, General Category, etc.
- Users can select the desired fields from the available list in order to be viewed in the Freehand Zone.

Find

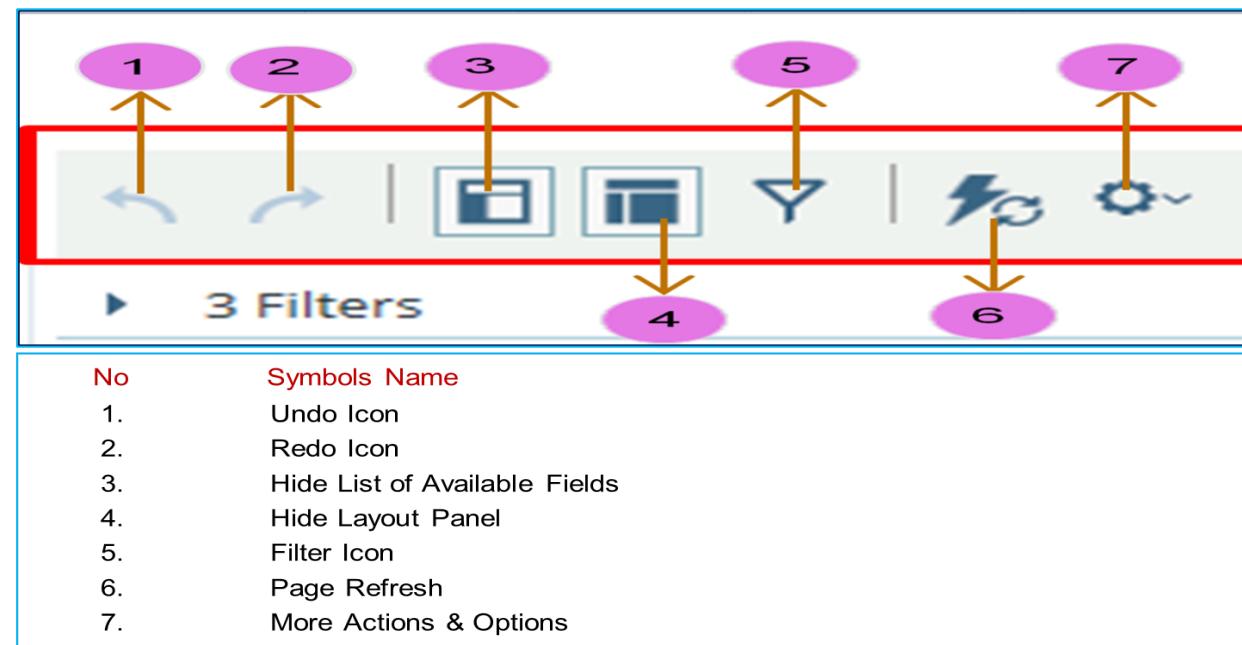
- Find text box allows users to type the desired field in the text box.
- This helps users to save time to search for the desired field in the list.

Layout

- In order to add fields to the report, they have to be added to the Layout Pane either in Rows or Columns.

10.1 Icons in the Freehand Zone

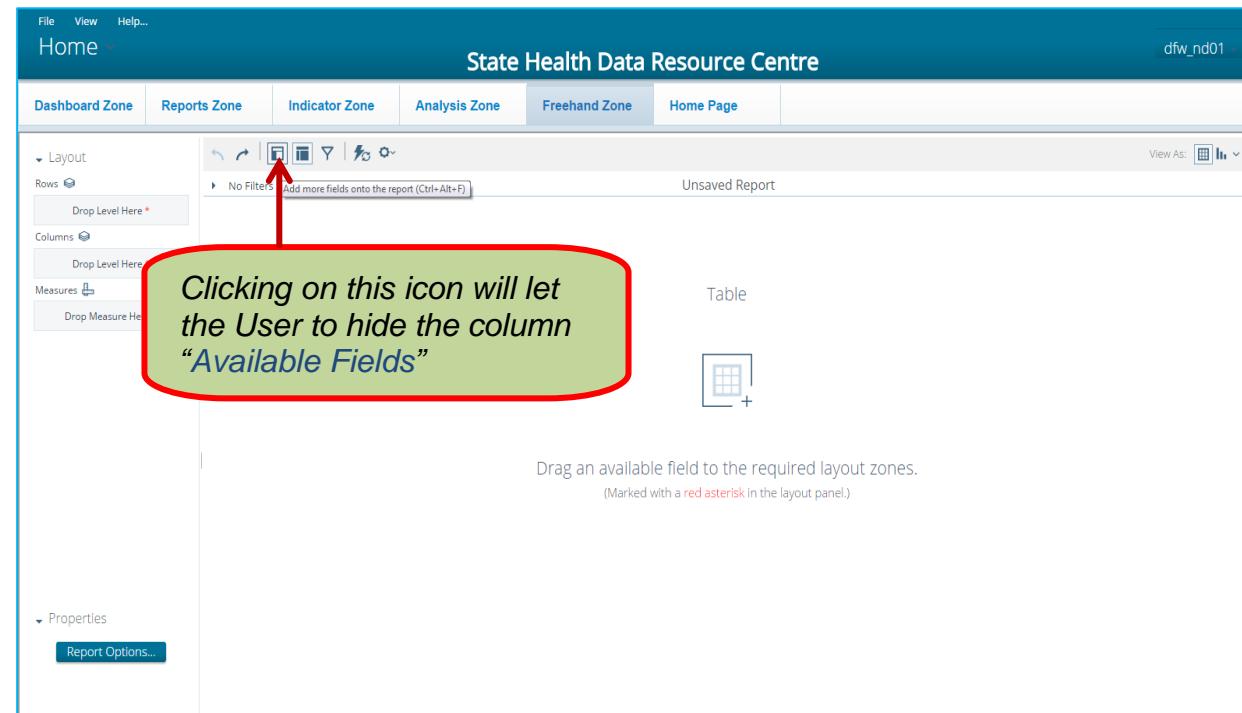
- There are various features available with shortcut icons available for Hide List of Available fields, Hide layout Panel, Show all filters in use and add new filters, Disable auto-refresh in the Freehand Zone.
- In addition to these, **Undo**, **Redo**, **Switch to Table format**, **Switch to Chart format** shortcut icons are also available.



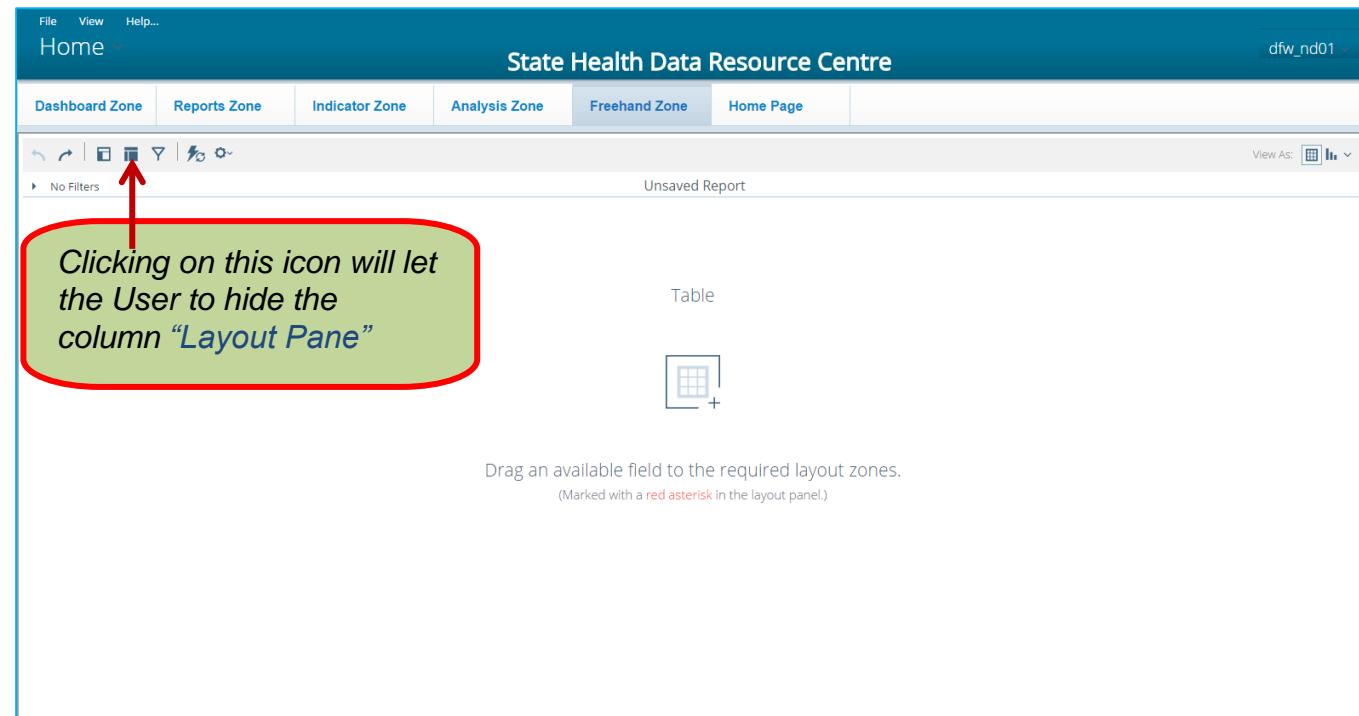
10.2 Functions of Icons present in Freehand Zone

Symbols		Explanations
1.		Undo icon (ctrl + z) Click to get back previous Action in the screen
2.		Redo icon (ctrl + y) Click to get same position after performing Undo operation
3.		Hide list of available fields (ctrl + alt + f) One left click -> list of available fields will get hidden Second left click -> Used to visible the hidden fields
4.		Hide layout panel (ctrl + alt + y) One left click -> layout panel will get hidden Second left click -> layout panel get visible
5.		Filter icon Particular field can be filtered (columns/rows wise) and viewed on the screen

Symbols	Explanations
6. 	<p>Refresh icon Used for page refresh</p>
7. 	<p>More actions & options</p> <p>Click the Dropdown option -> display following options</p> <ol style="list-style-type: none">1. Export - to PDF, Excel, CSV2. About this Report3. Report options4. Chart options5. Reset options6. Reset column sizes7. Administration - Xml, Log, Mdx, Clear



- The **thirdicon** in the icon bar, **Hide list of available field'sicon**, as the name suggests, helps to hide the Available Lists Pane in the Freehand Zone.
- Clicking on the icon again, helps to unhide the Available Lists Pane.



- The **fourth icon** in the icon bar, **Hide Layout Panel icon**, as the name suggests, helps to hide the Layout Panel in the Freehand Zone.
- Clicking on the icon again, helps to unhide the Layout Panel.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. On the left, a sidebar lists available fields for the 'DPW_Fact' table, including Age, Age Group, Age in Days, Current_FMonth_No, F_Year, FMonth_No, Directorate, Directorate Name, Gender, General, General Type, Category, Sub Category, Sub Sub Category, General Name, Active, Indicator Category, Indicator Classification, Indicator Category, Indicator Group, Indicator Sub Category, Indicator Measure Level, and Indicator Name. The 'Indicator Name' field is highlighted with a red box. In the center, the 'Layout' panel has three sections: 'Rows' (highlighted with a yellow box), 'Columns' (highlighted with a grey box), and 'Measures'. Each section has a 'Drop Level Here *' placeholder. To the right, a preview area shows a 'Table' icon with a plus sign, and a tooltip says 'Drag an available field to the required layout zones. (Marked with a red asterisk in the layout panel.)'. The top navigation bar includes File, View, Help..., Home, State Health Data Resource Centre, dfw_nd01, Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Home Page, and View As: icons.

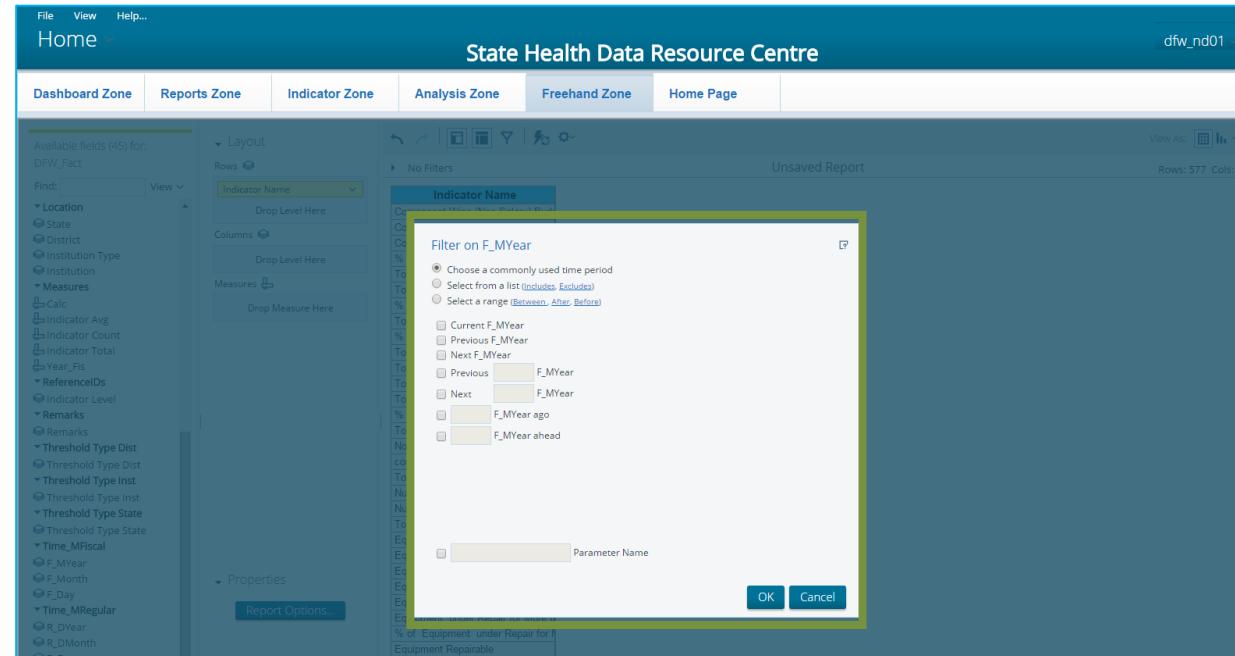
- To add more fields to the report, they can be added by simply dragging them to the Layout in Rows/ Columns.
- For instance, let us drag **IndicatorName** to **Rows**.

The screenshot shows the State Health Data Resource Centre interface. The top navigation bar includes File, View, Help..., Home, Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Home Page, and dfw_nd01. The main area is titled "State Health Data Resource Centre" and displays an "Unsaved Report". On the left, a sidebar lists "Available fields (45) for: DFW_Fact" with various categories like Indicator Name, Institution type, Level, and Measures. A red box highlights the "Indicator Name" category. In the center, a "Layout" panel shows "Rows" (Indicator Name selected), "Columns" (Drop Level Here), and "Measures" (Indicator Total selected). A red arrow points from the "Indicator Total" selection to the table. The table has columns "Indicator Name" and "Indicator Total". The data includes various family planning methods and their counts, such as IUD Stock (24,060,659), OP stock (13,004,885), and Tubal Rings Stock (645,429). The right side of the interface shows "View As" options (grid, list, etc.) and statistics: Rows: 274 Cols: 1.

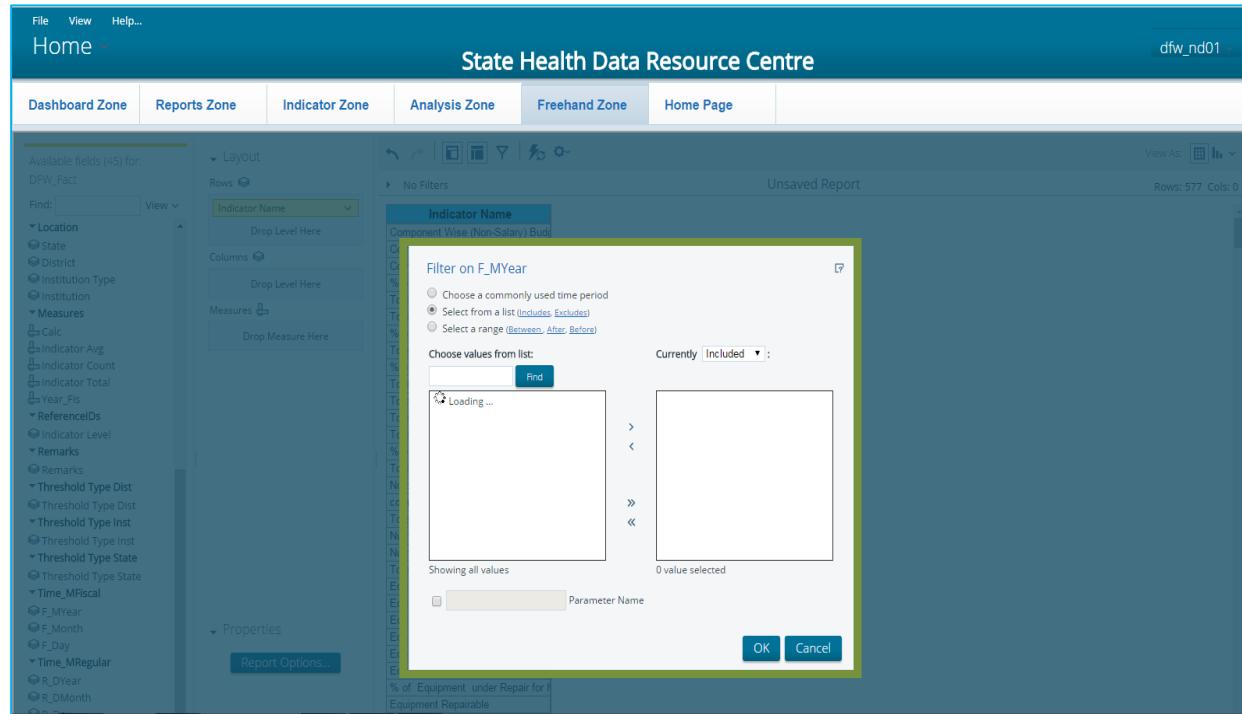
Indicator Name	Indicator Total
IUOD Stock	24,060,659
OP stock	13,004,885
CC Stock	335,909,170
Eggs stock	3,807,212
Tubal Rings Stock	645,429
Permanent Method Conventional	272
Permanent Method NSV	7,476
Permanent Method Post Partum Period-Sterilization	1,548,621
Permanent Method Laparoscopic	191,339
Permanent Method Mini-Lap/TAT	57,974
Total MTP done	171,160
Total MVA done	58,841
MTP Other Methods	112,285
Normal Deliveries	1,454,333
Cesarean Deliveries	1,956,955
Assisted Deliveries	84,262
Total Deliveries	5,081,593
Para I Male	1,339,132
Para I Female	1,261,370
Para II Male	1,105,740
Para II Female	1,036,475
Para III Male	311,183
Para III Female	259,917
Paral Birth Total	2,600,534
Paral Birth Total	2,142,231
Paral Birth Total	571,100
Post Placenta (within 10 min.) 380A	71,456
PPILUC - Post Partum (within 48 hours) 380A	82,612
PPILUC-Intra-Cesarean 380A	96,408
Post Placenta (within 10 min.) 375	5,356
PPILUC - Post Partum (within 48 hours) 375	11,305
PPILUC-Intra-Cesarean 375	10,785
Permanent Method Vasectomy AgeWise 15-19	4
Permanent Method Vasectomy AgeWise 20-24	119

- With no filters applied, all the values (Indicators in this case) get displayed.
- By default, the **View as Table icon** is selected and hence the Indicators are displayed in the form of a table.

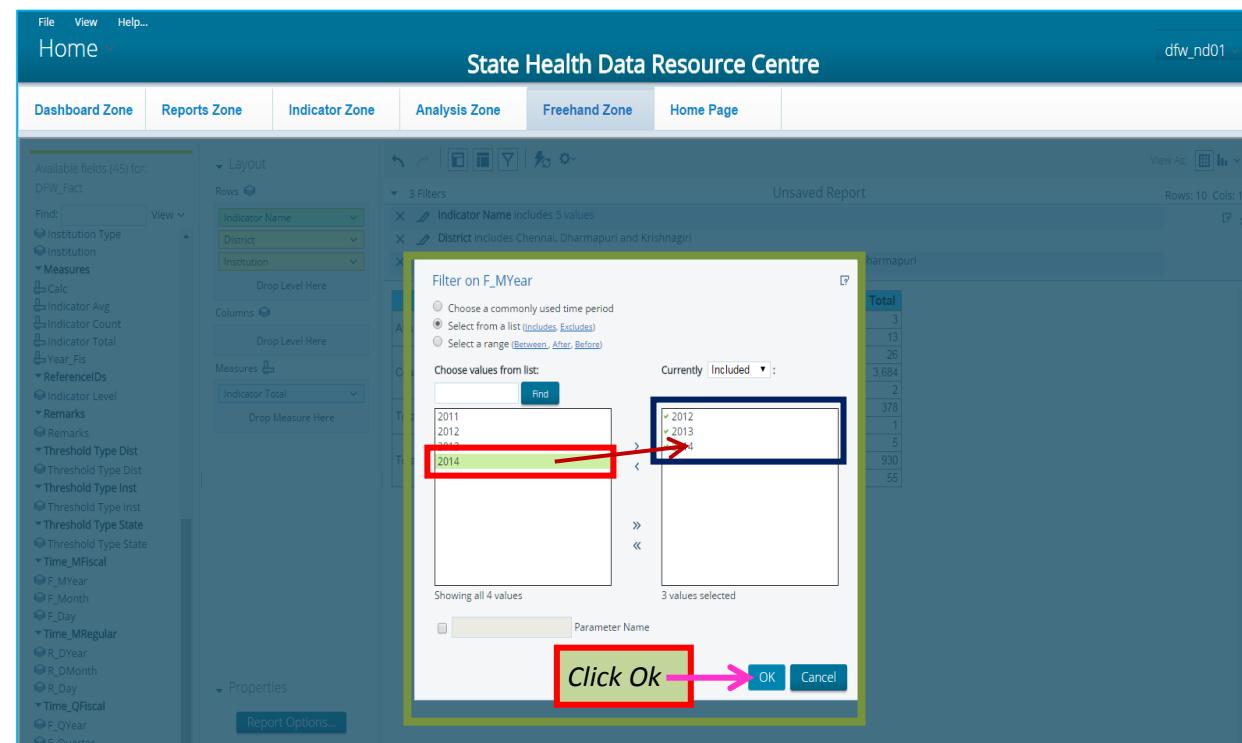
10.3 Adding Filters in Freehand Zone Reports



- When filters are added to the report, we can select a few values and view data that correspond to the selected values.
- This helps to reduce the number of data to be viewed.
- As an example, when **F_MYear** is dragged to the filter, there is a message asking to select the list of years for which data is required to be viewed.
- There are options like Select a range, Select from a list.



- **Select from a list** displays a list of values for which data is available and allows users to choose from the same.
- **Select a range** allows users to specify a certain range of values for which data is required.



- In this example, **Select from a list** is chosen.
- Thus for F_MYear, a list of years get displayed, from which the desired ones are chosen.

Indicator Name	District	Institution	Indicator Total	Indicator Total	Indicator Total
			2012	2013	2014
Assisted Deliveries	Chennai	A V M Medical Centre - Adyar Zone	3	-	-
	Dharmapuri	Dnv Pc, Dharmapuri	-	13	-
	Chennai	A V M Medical Centre - Adyar Zone	26	-	-
Cesarean Deliveries	Dharmapuri	Dnv Pc, Dharmapuri	1,322	1,318	1,044
	Krishnagiri	A.R.K. Nh, Krishnagiri	-	2	-
Total MTP Acceptance	Dharmapuri	Dnv Pc, Dharmapuri	102	125	132
	Krishnagiri	A.R.K. Nh, Krishnagiri	1	-	-
	Chennai	A V M Medical Centre - Adyar Zone	5	-	-
Total No Of Female Sterilization	Dharmapuri	Dnv Pc, Dharmapuri	350	294	229
	Krishnagiri	A.R.K. Nh, Krishnagiri	20	18	14

- More filters can also be applied on various other parameters, which help to bring in a **drill down level** and view more specific information.
- As an example, in the below screenshot, filters on **district**, **institution** and **indicator name** are also applied.
- In order to **remove** a particular filter, users can click the **cross** near that filter.
- In order to **edit** a particular filter, users can click the **pen** near that filter.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. On the left, there's a sidebar with various filters and measures. In the center, a report table is displayed with columns for F_MYear, Indicator Name, District, Institution, and Indicator Total (2012, 2013, 2014). A context menu is open over the table, specifically over the first row. The menu has several options: 'Indicator Name', 'District', 'Institution', 'F_MYear', 'Indicator Total', 'Remove from Report', and 'Report Options...'. The 'Remove from Report' option is highlighted with a red box.

F_MYear	Indicator Name	District	Institution	Indicator Total	Indicator Total	Indicator Total
				2012	2013	2014
Total No Of Female Sterilization						
	Deliveries	Chennai	A V M Medical Centre - Adyar Zone	3	-	-
		Dhamapuri	Dnv Pc, Dhamapuri	-	13	-
	Acceptance	Chennai	A V M Medical Centre - Adyar Zone	26	-	-
		Dhamapuri	Dnv Pc, Dhamapuri	1,322	1,318	1,044
	Deliveries	Krishnagiri	A.R.K. Nh, Krishnagiri	-	2	-
		Dhamapuri	Dnv Pc, Dhamapuri	102	125	132
	Acceptance	Krishnagiri	A.R.K. Nh, Krishnagiri	1	-	-
		Chennai	A V M Medical Centre - Adyar Zone	5	-	-
	Deliveries	Dhamapuri	Dnv Pc, Dhamapuri	350	294	229
		Krishnagiri	A.R.K. Nh, Krishnagiri	20	18	14

- To add more values to the filter, users can double click on the filter values and add more values from the available list.
- In order to remove a column/row from the report, users can use the **Remove from Report** option.
- This can be done by **right clicking** on the **Row/Column** to be removed in the **LayoutPane** and choosing Remove from Report.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. On the left, there's a sidebar with various filters and measures. The main area displays a report titled 'F_MYear' with three columns: 2012, 2013, and 2014. The report includes data for Assisted Deliveries, Cesarean Deliveries, Total MTP Activity, and Total No Of Female Sterilization across different districts and institutions. In the bottom right corner of the report area, there is a trash icon.

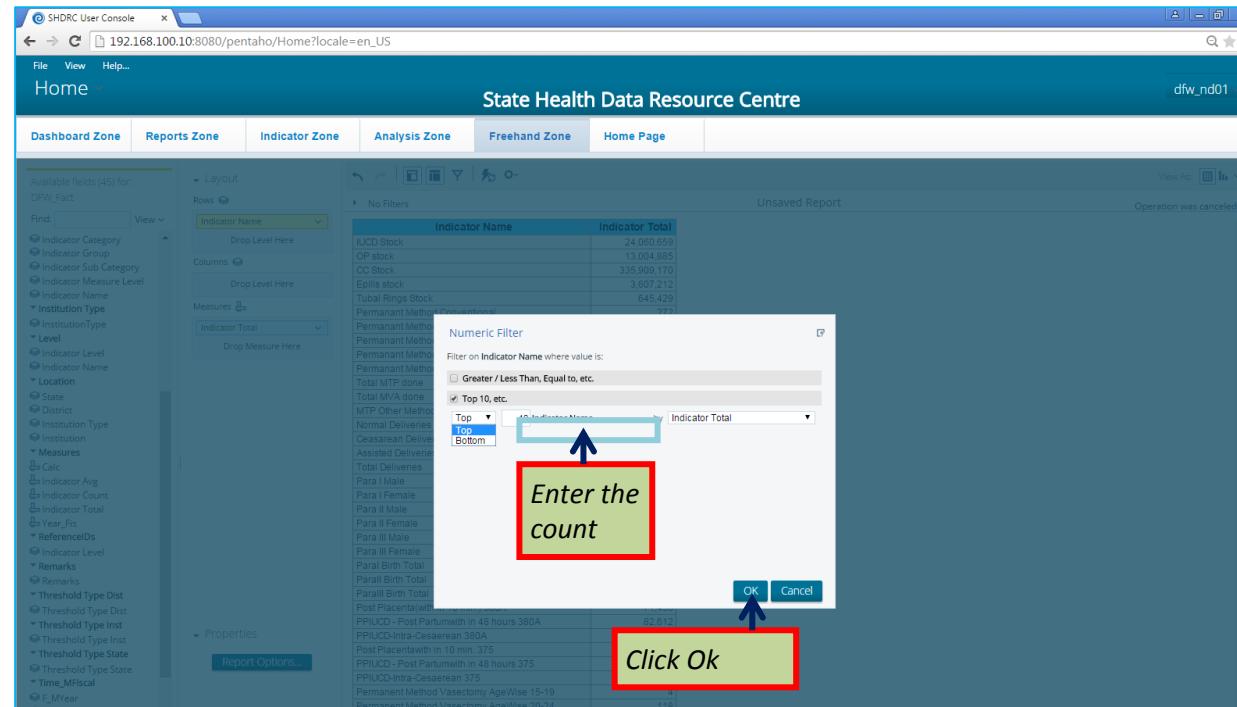
	2012	2013	2014
Indicator Name			
District			
Institution			
F_MYear			

- Deleting a Row/Column from the report can also be achieved by simply **dragging** the **Row/Column** to the **Trash icon** (which would be visible while dragging the row/column).

The screenshot shows the SHDRC User Console interface with the 'Freehand Zone' tab selected. On the left, there's a sidebar with various filters and fields. In the center, a table displays data with columns for 'Indicator Name' and 'Indicator Total'. A context menu is open over one of the table rows, with the 'Top 10, etc...' option highlighted.

Indicator Name	Indicator Total
Stock	24,060,659
Indicator Conventional	13,004,885
Indicator NSV	335,909,170
Indicator Laparoscopic	3,607,212
Indicator Post Partum Period-Sterilization	645,429
Indicator Mini-Lap/TAT	272
Indicator Lysis	7,476
Indicator Laparoscopic	1,548,621
Indicator Mini-Lap/TAT	191,339
Zone	57,974
Azone	171,160
Methods	58,841
ellencies	112,285
Ind Deliveries	1,454,333
Ind Deliveries	1,966,955
Deliveries	84,262
Total Deliveries	5,081,593
Para I Male	1,339,132
Para I Female	1,261,370
Para II Male	1,105,740
Para II Female	1,038,475
Para III Male	311,183
Para III Female	259,917
Paral Birth Total	2,600,534
Paral Birth Total	2,142,231
Paral Birth Total	571,100
Post Placenta with in 10 min) 380A	71,496
PPILCD - Post Partum with in 48 hours 380A	82,612
PPILCD-Intra-Cesarean 380A	96,408
Post Placenta with in 10 min . 375	5,356
PPILCD - Post Partum with in 48 hours 375	11,305
PPILCD-Intra-Cesarean 375	10,785
Permanent Method Vasectomy AgeWise 15-19	4
Permanent Method Vasectomy AgeWise 20-24	1181

- When no filters are applied, there are a lot values displayed in the report.
- Users can view limited values say, 10 rows from the top/bottom of the available values.
- This can be done by **right clicking** on the **Row/Column** to be removed in the **LayoutPane** and choosing **Top 10, etc.** option.



- When the **Top 10, etc.** option is chosen, the Freehand Zone displays a message box asking users to choose, whether data is to be viewed from **Top/Bottom**.
- When Top is chosen the first 10 values are displayed and so on.
- Users can also choose another option **Greater/Less Than, Equal to, etc.** wherein data can be limited based on indicator values.
- The “**Greater/Less Than, Equal to, etc.**” option allows to choose value less than 10 also.

The screenshot shows a web-based reporting interface for the State Health Data Resource Centre. The main area displays a table titled 'Indicator Name' and 'Indicator Total'. The table lists various health indicators and their totals, with the top 10 rows highlighted in red. The interface includes a sidebar with a 'Available fields (45) for: DFW_Fact' list and a 'Layout' panel for defining rows, columns, and measures.

Indicator Name	Indicator Total
CC Stock	335,909,170
Net Condoms Distributed to Regular Users	40,553,873
IUCD Stock	24,060,659
Total Condoms Distributed	20,714,004
OP stock	13,004,885
Total Deliveries	5,081,593
Epilis stock	3,607,212
Paral Birth Total	2,600,534
Total No of IUCD Inserted	2,521,184
Parall Birth Total	2,142,231

- The above screenshot shows the top 10 rows of Indicators.

The screenshot shows the State Health Data Resource Centre interface. On the left, there's a sidebar titled 'Available fields (45) for: DFW_Fact' with various categories like 'Category', 'Indicator', 'Measures', etc. In the center, there's a table titled 'Indicator Name' with columns 'Indicator Name' and 'Indicator Total'. A context menu is open over the first row of the table, with the 'Sort A-Z' option highlighted by a red box and a red arrow pointing to it. The menu also includes 'Sort Z-A', 'Show Subtotals', 'Tell me about...', and 'Remove from Report'.

Indicator Name	Indicator Total
Distributed to Regular Users	335 909 170
Distributed	40 553 873
ns Distributed	24 064 659
les	20 714 004
les	13 004 885
les	5 081 593
otal	3 607 212
otal	2 600 534
otal	2 521 184
l	2 142 231

- More features such as sorting can also be incorporated in the reports.
- In order to sort the list of values, users have to right click on the desired row/column and choose **Sort A->Z**.

The screenshot shows the SHDRC Freehand Zone interface. On the left, there is a sidebar titled "Available fields (45) for: DFW_Fact" with various filter options like Category, Sub Category, General Name, Active, Indicator Category, etc. In the center, there is a "Layout" panel with "Rows" and "Columns" sections, and a "Measures" section where "Indicator Total" is selected. Below these is a "Properties" panel with a "Report Options..." button. To the right is a table titled "Indicator Name" with columns "Indicator Name" and "Indicator Total". The table contains 14 rows of data, with the first 10 highlighted in red, indicating they are the top 10 sorted values. The data is as follows:

Indicator Name	Indicator Total
IUCD Stock	24,060,659
OP stock	13,004,885
OC Stock	335,909,170
Epills stock	3,607,212
Total Deliveries	5,081,593
Parai Birth Total	2,800,534
Parai Birth Total	2,142,231
Total No of IUCD Inserted	2,521,184
Net Condoms Distributed to Regular Users	40,553,873
Total Condoms Distributed	20,714,004

- Thus in this example, the **Top 10 indicators sorted in ascending order** are displayed with their indicator values.
- The values can also be sorted in Descending order.
- In order to do so, users have to choose the **Sort Z->A** option on right click.

The screenshot shows the SHDRC interface with a report titled "Top 10 Indicator Name by Indicator Total". The report table has three columns: "Indicator Name", "District", and "Indicator Total". The data is sorted by "Indicator Total" in descending order. The report also includes a sidebar with available fields and a filters section.

Indicator Name	District	Indicator Total
IUUD Stock	Chennai	6,626,197
	Perambalur	103,374
OP stock	Chennai	677,091
	Perambalur	80,076
CC Stock	Chennai	33,104,100
	Perambalur	2,115,962
Epills stock	Chennai	629,105
	Perambalur	7,605
Ceasarean Deliveries	Chennai	286,077
	Perambalur	17,765
Total Deliveries	Chennai	565,890
	Perambalur	37,873
Paral Birth Total	Chennai	264,786
	Perambalur	19,594
Total No of IUCD Inserted	Chennai	284,532
	Perambalur	21,670
Net Condoms Distributed to Regular Users	Chennai	4,847,546
	Perambalur	263,800
Total Condoms Distributed	Chennai	2,550,844
	Perambalur	133,100

- Drilldown options can also be provided for these reports.
- This can be done by adding District/Institution to the filters.

Indicator Name	District	Indicator Total
IUCD Stock	Chennai	6,626,407
	Perambalur	1,000
OP stock	Chennai	7,605
	Perambalur	286,077
CC Stock	Chennai	17,765
	Perambalur	555,899
Epis Stock	Chennai	37,873
	Perambalur	264,786
Caesarean Deliveries	Chennai	19,594
	Perambalur	284,532
Total Deliveries	Chennai	21,670
	Perambalur	4,847,546
Paral Birth Total	Chennai	263,800
	Perambalur	2,550,844
Total No of IUCD Inserted	Chennai	133,100
Net Condoms Distributed to Regular Users	Chennai	
Total Condoms Distributed	Chennai	

- From the list values that occur for each parameter, a certain value can be retained or removed from the report.
- In order to achieve this, right click on the required value.
- There are two major options available – **Exclude (that value)** and **Keep Only (that value)**.
- Apart from these, there are also other options specific to the field chosen.
- Exclude** helps to remove that value from the report.
- Keep Only** helps to retain only that value to the report and remove all other values.

Indicator Name	District	Indicator Total
IUCD Stock	Chennai	6,626,197
OP stock	Chennai	677,091
CC Stock	Chennai	33,104,100
Epilis stock	Chennai	629,105
Caesarean Deliveries	Chennai	286,077
Total Deliveries	Chennai	555,899
Normal Birth Total	Chennai	264,786
Total No of IUCD Inserted	Chennai	284,532
Net Condoms Distributed to Regular Users	Chennai	4,847,546
Total Condoms Distributed	Chennai	2,550,844

- In this example, **Keep Only Chennai** is chosen which retains only **Chennai** in the report.

The screenshot shows the SHDRC User Console interface. The top navigation bar includes links for File, View, Help..., Home, Analysis Zone, Freehand Zone, and Home Page. The Freehand Zone tab is selected. On the left, there's a sidebar titled 'Available fields (45) for: DFW_Fact' with a search bar and a tree view of available fields categorized by type (Institution Type, Level, Location, Measures, Remarks, Threshold Type, Time_MFiscal, Time_MRegular, ReferenceIDs, and Year_Fis). The main area contains a report titled 'State Health Data Resource Centre' with the subtitle 'dfw_nd01'. The report has two filters: 'District includes Chennai' and 'Top 10 Indicator Name by Indicator Total'. The data table has columns for 'Indicator Name', 'District', and 'Indicator Total'. A tooltip 'Chennai - Double-click to show Institution type' is visible over the 'District' column for the Chennai row.

Indicator Name	District	Indicator Total
IUCD Stock	Chennai	6,626,197
OP stock		
OC Stock		
Epills stock		
Ceasarean Deliveries	Chennai	286,077
Total Deliveries	Chennai	555,899
Paral Birth Total	Chennai	264,786
Total No of IUCD Inserted	Chennai	284,532
Net Condoms Distributed to Regular Users	Chennai	4,847,546
Total Condoms Distributed	Chennai	2,550,844

- As seen in Dashboard Zone, **drilldown levels from District to Institution** can be availed by **double clicking** on the District

The screenshot shows the SHDRC interface with the following details:

- Top Navigation:** File, View, Help..., Home, State Health Data Resource Centre, dfw_nd01.
- Menu Bar:** Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone (highlighted in blue), Home Page.
- Left Sidebar (Available fields):**
 - DFW_Fact
 - Institution Type (selected)
 - Indicator Name
 - Level
 - Indicator Level
 - Indicator Name
 - Location
 - State
 - District
 - Institution Type
 - Institution
 - Measures
 - Calc
 - Indicator Avg
 - Indicator Count
 - Indicator Total
 - Year, Fis
 - ReferenceIDs
 - Indicator Level
 - Remarks
 - Threshold Type Dist
 - Threshold Type Inst
 - Threshold Type Inst
 - Threshold Type State
 - Threshold Type State
 - Time_MFiscal
 - F_MYear
 - F_Month
 - F_Day
 - Time_MRegular
 - R_DYear
- Layout Section:**
 - Rows: Indicator Name, District, Institution Type.
 - Columns: Drop Level Here.
 - Measures: Indicator Total.
- Report Area:**

3 Filters: District includes Chennai, Institution Type includes ESI HOSPITAL and MEDI. COLL. HOSPITAL, Top 10 Indicator Name by Indicator Total.

Rows: 194, Cols: 1.

Indicator Name	District	Institution Type	Indicator Total
IUCC Stock	Chennai	ESI HOSPITAL	43,706
	MED. COLL. HOSPITAL	829,180	
	ESI HOSPITAL	43,706	
	MED. COLL. HOSPITAL	829,180	
	Kancheepuram	MED. COLL. HOSPITAL	829,180
	Kanyakumari	MED. COLL. HOSPITAL	829,180
	Salem	ESI HOSPITAL	43,706
	MED. COLL. HOSPITAL	829,180	
	Thanjavur	MED. COLL. HOSPITAL	829,180
	Tirunelveli	MED. COLL. HOSPITAL	829,180
	Vellore	MED. COLL. HOSPITAL	829,180
	Virudhunagar	ESI HOSPITAL	43,706
OP stock	Chennai	ESI HOSPITAL	106,278
	MED. COLL. HOSPITAL	193,434	
	ESI HOSPITAL	106,278	
	MED. COLL. HOSPITAL	193,434	
	Kancheepuram	MED. COLL. HOSPITAL	193,434
	Kanyakumari	MED. COLL. HOSPITAL	193,434
	Salem	MED. COLL. HOSPITAL	193,434
	Thanjavur	MED. COLL. HOSPITAL	193,434
	Tirunelveli	MED. COLL. HOSPITAL	193,434
	Vellore	MED. COLL. HOSPITAL	193,434
	Chennai	ESI HOSPITAL	106,278

- Thus the drill down levels from District to Institution can be viewed.
- In order to view more specific data in the reports, appropriate filters can be added.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. On the left, there's a sidebar with 'Available fields (45) for: DFW_Fact' and various filter and layout options. The main area displays a table titled 'Indicator Name' with columns 'Indicator Name' and 'Indicator Total'. A red box highlights the 'More Actions and Options' icon (a gear icon) in the top right corner of the report area. A green arrow points from this icon to a red box around the 'To Excel...' option in a dropdown menu. The menu also includes 'About this Report', 'Report Options...', 'Chart Options...', 'Reset Report', and 'Reset Column Size'. The table data is as follows:

Indicator Name	Indicator Total
IUCD Stock	6,626,197
OP stock	677,091
OC Stock	33,104,100
Epilis stock	629,105
Cesarean Deliveries	286,077
Total Deliveries	555,899
Paral Birth Total	Chennai 264,786
Total No of IUCD Inserted	Chennai 284,532
Net Condoms Distributed to Regular Users	Chennai 4,847,546
Total Condoms Distributed	Chennai 2,550,844

- There is also a feature in the Freehand Zone to Export the **report to PDF/ Excel/CSV formats**.
- This can be availed by making use of the **More Actions and Options** icon in the Freehand Zone.
- To export the report to Excel, choose **More Actions and Options ->Export -> To Excel**.

Click Export to convert into Excel

Indicator Name	District	Indicator Total
IUOD Stock	Chennai	6,626,197
OP stock	Chennai	677,091
OC Stock	Chennai	33,104,100
Epills Stock	Chennai	629,105
Cesarean Deliveries	Chennai	288,077
Total Deliveries	Chennai	565,899
Para Birth Total	Chennai	264,786
Total No of II COD Inserted	Chennai	284,532

- When Export -> To Excel option is chosen, a dialogue box with various options is displayed.
- Users can select the desired **paper format**, **paper orientation**, **the scaling of the file**, etc. to obtain the file in the required format.

The screenshot shows the SHDRC interface with a report titled 'dfw_nd01'. The report contains data for 10 rows and 3 columns: Indicator Name, District, and Indicator Total. A context menu is open over the report, with the 'Open' option highlighted. A red box highlights the 'default (1).xlsx' file in the bottom-left corner of the Freehand Zone.

Indicator Name	District	Indicator Total
IUOD Stock	Chennai	6,626,197
OP Stock	Chennai	677,091
CC Stock	Chennai	33,104,100
Epills Stock	Chennai	629,105
Cesarean Deliveries	Chennai	286,077
Total Deliveries	Chennai	555,899
Para Birth Total	Chennai	264,786
Total No of IUCD Inserted	Chennai	284,532
Net Condoms Distributed to Regular Users	Chennai	4,847,546
Total Condoms Distributed	Chennai	2,550,844

- When **Exportoption** is used, the **exported file** is available in the **bottom left corner** of the Freehand Zone.
- Users can **double click** on it or **right click and choose open** to view it.

The screenshot shows a Microsoft Excel window with the title bar "default (1) [Protected View] - Microsoft Excel". The menu bar includes File, Home, Insert, Page Layout, Formulas, Data, Review, and View. A yellow banner at the top states "Protected View This file originated from an Internet location and might be unsafe. Click for more details." with a "Enable Editing" button. The main content area displays a table with the following data:

	Indicator Name	District	Indicator Total
18	IUCD Stock	Chennai	6,626,197
19	OP stock	Chennai	677,091
20	CC Stock	Chennai	33,104,100
21	Ellips stock	Chennai	629,105
22	Cesarean Deliveries	Chennai	286,077
23	Total Deliveries	Chennai	555,899
24	Paral Birth Total	Chennai	264,766
25	Total No of IUCD Inserted	Chennai	284,532
26	Net Condoms Distributed to Regular Users	Chennai	4,847,546
27	Total Condoms Distributed	Chennai	2,550,844

- Thus the report exported to Excel will be seen as above.
- It can be noted that, Fields for details about the Report are automatically displayed.
- Users can fill in appropriate information for further use.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. On the left, there's a sidebar with various filters and dropdowns. In the center, a table displays data with columns for 'Indicator Name' and 'Indicator Total'. A context menu is open over the table, with options like 'Export', 'About this Report...', 'Report Options...', 'Chart Options...', 'Reset Report', and 'Reset Column Sizes'. The 'To CSV...' option is highlighted with a red box and a green arrow pointing to it.

Indicator Name	Indicator Total
IUCD Stock	
OP stock	
OC Stock	
Epills stock	
Tubal Rings Stock	
Permanent Method Conventional	8,250
Permanent Method NSV	1,663,978
Permanent Method Post Partum Pe	204,184
Permanent Method Laparoscopic	
Permanent Method Mini-Lap/TAT	64,115
Total MTP done	189,154
Total MVA done	66,277
MTP Other Methods	122,843
Normal Deliveries	1,609,733
Cesarean Deliveries	2,137,434
Assisted Deliveries	94,600
Total Deliveries	5,546,146
Para I Male	1,373,102
Para I Female	1,293,392
Para II Male	1,122,534
Para II Female	1,053,116
Para III Male	315,388
Para III Female	263,292
Paral Birth Total	2,666,494
Parall Birth Total	2,175,650
Parall Birth Total	578,680
Post Placenta/within 10 min.) 3804	89,484

- To export the report to CSV file format, choose More Actions and Options -> Export -> To CSV.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. A report titled 'Unsaved Report' is displayed with a table of data. A modal dialog box titled 'Export to CSV' is open in the center, containing options to 'Include Subtotals' and 'Keep Measure Formatting'. A red box highlights this dialog, and a green callout box with the text 'Click Export to convert into CSV' points to the 'Export' button, which is also highlighted with a red arrow.

Indicator Name	Indicator Total
IUCD Stock	26,712,846
OP stock	15,066,640
CC Stock	371,040,416
Ellips stock	4,146,838
Tubal Rings Stock	726,205
Permanant Method Conventional	268
Permanant Method IUD	4,350

- When Export -> To Excel option is chosen, a dialogue box with various options is displayed.
- Users can select whether to **Include Subtotals**, **Keep Measure Formatting**, etc. to obtain the file in the required format.

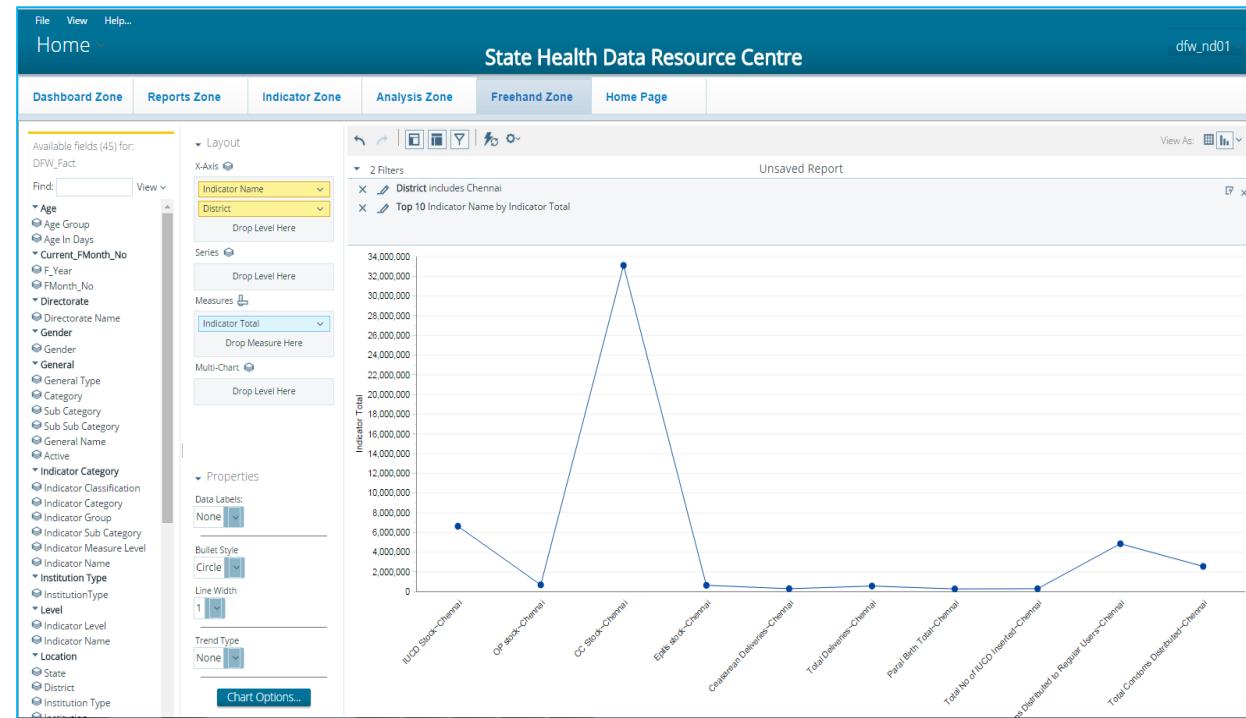
Indicator Name	Indicator Total
1 Indicator Name	
2 IUCD Stock	26,712,846
3 OP stock	15,066,640
4 CC Stock	371,040,416
5 Epills stock	4,146,838
6 Tubal Rings Stock	726,205
7 Permanant Method Conventional	268
8 Permanant Method NSV	8,250
9 Permanant Method Post Partum Period-Sterilization	1,663,978
10 Permanant Method Laparoscopic	204,184
11 Permanant Method Mini-Lap/TAT	64,115
12 Total MTP done	189,154
13 Total MVA done	66,277
14 MTP Other Methods	122,843
15 Normal Deliveries	1,609,733
16 Cesarean Deliveries	2,137,434
17 Assisted Deliveries	94,600
18 Total Deliveries	5,546,146
19 Para I Male	1,373,102
20 Para I Female	1,293,392
21 Para II Male	1,122,534
22 Para II Female	1,053,116
23 Para III Male	315,388
24 Para III Female	263,292
25 Paral Birth Total	2,666,494
26 Parall Birth Total	2,175,650
27 Parall Birth Total	578,680
28 Post Placenta(within 10 min.) 380A	89,484
29 PPIUCD - Post Partumwithin in 48 hours 380A	100,046
30 PPIUCD-Intra-Cesarean 380A	118,532
31 Post Placentawithin in 10 min. 375	10,120
32 PPIUCD - Post Partumwithin in 48 hours 375	12,926
33 PPIUCD-Intra-Cesaerean 375	14,434
34 Permanent Method Vasectomy AgeWise 15-19	4

- Thus the report exported to CSV format will be seen as above.
- Users can edit and save for further use.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab active. On the left, there's a sidebar with 'Available fields (45) for: DFW_Fact'. The main area displays a table with columns: Indicator Name, District, and Indicator Total. The table data is as follows:

Indicator Name	District	Indicator Total
IUCD Stock	Chennai	6,626,197
OP stock	Chennai	677,091
CC Stock	Chennai	33,104,100
Epills stock	Chennai	629,105
Cesarean Deliveries	Chennai	286,077
Total Deliveries	Chennai	555,899
Paral Birth Total	Chennai	264,786
Total No of IUCD Inserted	Chennai	284,532
Net Condoms Distributed to Regular Users	Chennai	4,847,546
Total Condoms Distributed	Chennai	2,550,844

- Reports can be viewed in various formats.
- To view the report on a linear basis, users can avail the **Actionoption** on the **toprightcorner** of the report.
- Choose **Actions -> Show Report as TableChart ->Line**.



- The report is displayed as a **linear graph**.
- When there are manyfields, there are various lines indicating the values for each field in the report.
- The reference for which field corresponds to which indicator will be shown by the side of the graph.

10.4 Functions of “More Actions & Options” Icon in Freehand Zones

The screenshot shows the SHDRC interface with the 'Freehand Zone' selected in the top navigation bar. A modal dialog box titled 'Report Options' is open in the center. The dialog contains several sections with checkboxes:

- Blank (Empty) Cells:**
In blank Measure cells, show:
 Also show Rows/Columns where the Measure cell is blank
- Totals:**
 Show Grand Totals for Rows
 Show Grand Totals for Columns
 Also display totals that include filtered out values
- Cell Drill-Through:**
 Show drill-through links on Measure cells ([Select Columns](#))
- Freeze Panes in Table:**
 Freeze column headers
 Freeze row labels

At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

- Export

Export allows users to export reports to PDF, Excel, CSV formats.

- About this Report

Provides the description of the report specifying Date Created, Date Modified and Modified By.

- Report Options

Report options provide users with options such as Blank (Empty) Cells, Totals, Cell Drill-Through, Freeze Panes in Tables.

Blank (Empty) Cells allows data to be filled in blank cells

Totals provide users with options to view Grand Total for Rows, Grand Total for Columns, Grand Totals for filtered values also.

Freeze Panes in Tables enable users to freeze Column Headers, Row Labels while scrolling the report.

- Chart Options

Chart options helps to format the display of the charts such as Background Fill Type, Background Fill Color, Font type of the Labels, Font size of the Labels, Font Style of the Labels and Maximum No. of Plot Values.

Users can specify desired appropriate values and generate more readable and attractive reports.

- Reset Report

Reset Report refreshes the entire report and brings the screen to the default Freehand Zone Layout.

- Reset Column sizes

The Column size of the Report will be adjusted to the default column size.

10.5 Comparison of Data in Freehand Zone

The screenshot shows the SHDRC Freehand Zone interface. On the left, there's a sidebar with various data fields listed under 'Available fields (47) for: DPW_Fact'. The main area is titled 'Indicator Name' and 'F_MYear' with a subtitle 'Ceasarean Deliveries'. It displays a table comparing 'Indicator Total' for four districts (Chennai, Dharmapuri, Karur, Villupuram) in two years (2013 and 2014). The 'District' column is highlighted with a red box.

District	Indicator Total	
	2013	2014
Chennai	107,422	100,230
Dharmapuri	13,094	12,786
Karur	11,506	9,534
Villupuram	12,790	12,224

- As stated earlier, Freehand Zone can be used to compare data between districts/years, etc.
- In the above example, the Indicator **Ceasarean Deliveries** has been compared for the years 2013 and 2014 and also among districts **Chennai, Dharmapuri, Karur, and Villupuram**.

The screenshot shows the SHDRC interface with the following details:

- Top Navigation:** File, View, Help..., Home, State Health Data Resource Centre, dfw_nd01.
- Menu Bar:** Dashboard Zone, Reports Zone, Indicator Zone, Analysis Zone, Freehand Zone, Home Page.
- Left Sidebar (Available fields):**
 - DFW_Fact
 - Indicator Avg
 - Indicator Count
 - Indicator Total
 - Year_Fis
 - ReferenceIDs
 - Indicator Level
 - Remarks
 - Social
 - Social
 - Threshold Type Dist
 - Threshold Type Dist
 - Threshold Type Inst
 - Threshold Type Inst
 - Threshold Type Inst
 - Threshold Type State
 - Threshold Type State
 - Time_MFiscal
 - F_MYear
 - F_Month
 - F_Day
 - Time_MRRegular
 - R_DYear
 - R_DMonth
 - R_Day
 - Time_QFiscal
 - F_QYear
- Layout Panel:**
 - Rows: District (selected), Institution Type (selected), Drop Level Here.
 - Columns: Indicator Name (selected), F_MYear (selected), Drop Level Here.
 - Measures: Indicator Total (selected), Drop Measure Here.
- Report Content:**
 - Filters:** F_MYear includes 2013 and 2014, District includes Chennai, Indicator Name includes Cesarean Deliveries.
 - Table:** Indicator Name (F_MYear) - Cesarean Deliveries (2013, 2014).
 - Drilldown:** A red box highlights the "Institution Type" column for the Chennai district, which is expanded to show detailed data for each institution type (APPROVED NH, UNAPPROVED NH, MED. COLL. HOSPITAL, UHP, VOL. ORG.) across the two years.

- As seen previously, Drilldown from **District to Institution** can be enabled by double clicking on any district.

The screenshot shows the SHDRC interface with the 'Freehand Zone' tab selected. On the left, there's a sidebar with various filters and dropdown menus for 'DFW_Fact'. The main area shows a report titled 'Unsaved Report' with the following details:

Layout:

- Rows: District, Institution Type, Institution
- Columns: Indicator Name, F_MYear
- Measures: Indicator Total

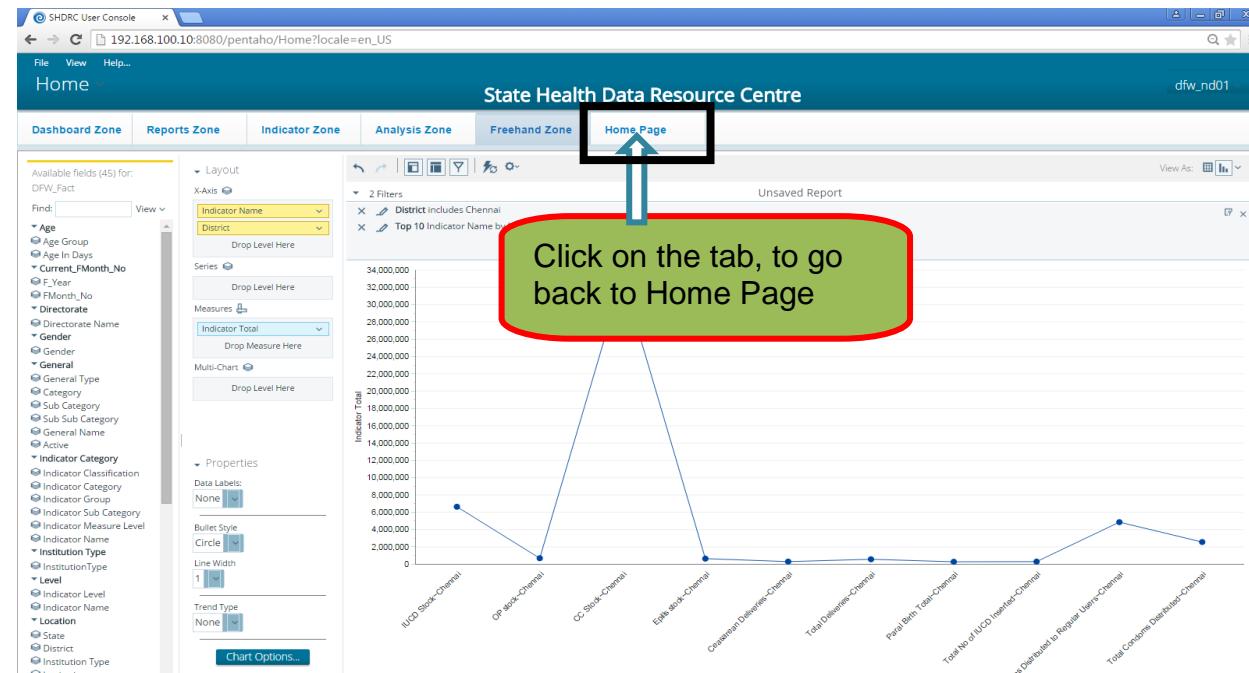
Filters:

- F_MYear includes 2013 and 2014
- Indicator Name includes Ceasarean Deliveries
- District includes Chennai
- Institution Type includes MED. COLL. HOSPITAL
- Institution excludes Govt.Peripheral Hospital - Kk Nagar - Chennai

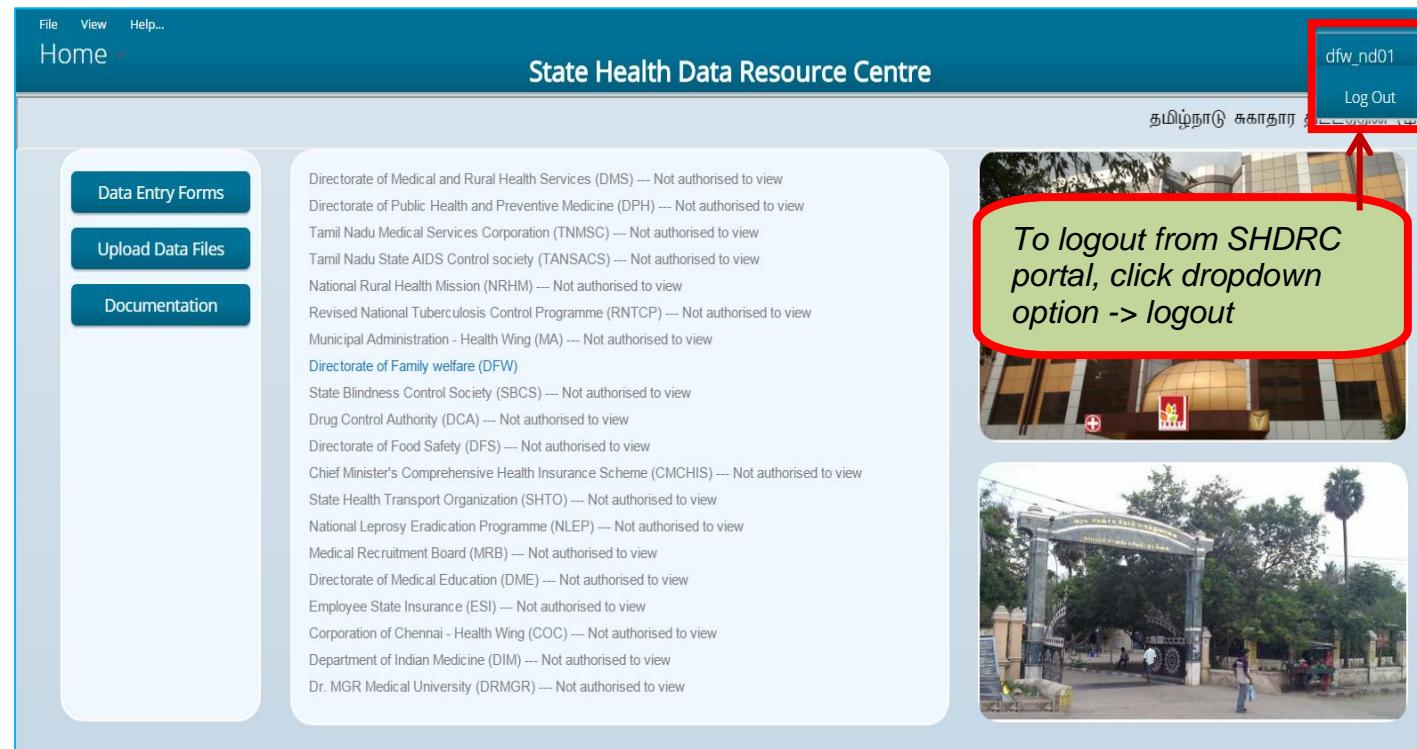
Report Content:

		Indicator Name F_MYear	
		Ceasarean Deliveries	
		2013	2014
District	Institution Type	Indicator Total	Indicator Total
Chennai	MED. COLL. HOSPITAL	Government Rsm Lying In Hospital - Chennai	10,374
		Govt Peripheral Hospital - Tondarpet - Chennai	9,806
		Institute Of Obst. And Gyn. And Govt.Hospital For Woman And Children - Chennai	12
		Institute Of Social Obst. And Govt.Kasturba Gandhi Hospital For Women And Children	14
		Kilpauk Medical College Hospital - Chennai	13,314
		Peripheral Hospital - Periyar Nagar - Chennai	8,294

- Freehand Zone can also be used to compare values of **Institutions**.
- In the above example, the District of **Chennai** has been filtered out and by **doubleclicking** on it, the values of the indicators for its **Institutions** can be compared.



- In order to go to the **SHDRC Home Page**, users can click on to the **HomePageTab** available next to the Freehand Zone tab



- When user clicks on to the Home Page tab, the SHDRC Home Page gets displayed.
- Users can logout from the portal by clicking on the **username (dfw_nd01 in this case)** on **top right corner** of the portal and choosing **Logout**.

11.Data Management & Quality Audits

Data Management:

Definition:

- It is the process by which the required data is acquired, validated, stored, protected, and processed, and by which its accessibility, reliability, and timeliness is ensured to satisfy the needs of the Users.
- The data management enables supervision of common data operations, such as validating, sorting, filtering, aggregation, and translation of changes.
- SHDRC acts as a central repository with data from all the 20 directorates.

Quality Audits:

- To enable good quality of data, the following measures are taken.
- Code review of all the modules.
- Perform Unit testing, Component testing, System Integration testing.

Data Validation:

- Definition: Data validation is the process of ensuring that a system operates on clean, correct and useful data.
- Data validation on following steps :
- Validate the source file template / file extension / name, if there is any deviation in the template / extension / name of the file, the file will be rejected and mail will be sent to the respective source system.
- Data type validation.If there is any mismatch in data type, type casting is done
- Data length validation for Key Fields

- The data format should be consistent throughout the source file
- All the below scenarios should be converted into a single format for easier retrieval from data warehouse,
- Eg: Age 0-9, 0-9 years, 0-9 yrs., 1yr 1 month, 20 days
- Replace all the invalid entries with the valid one as in master table

S.No.	Wrong Value	Correct Value
1	Sivagangai	Sivaganga
2	Tuticorin	Thoothukodi
3	Thiruppur	Tiruppur
4	Tirupur	Tiruppur
5	Nilgiris	The Nilgiris
6	Viluppuram	Villupuram
7	Tiruchirappalli	Tiruchirapalli

- Trim all the extra spaces in the string value.
- Eliminate duplicate records from source file based on the key fields

12. Importance of the Point Source Data for the functioning of SHDRC web portal

- The Source Data is considered to be base data to start with the development activities.
- The Source Data file template must be freezed as the same format will be used forward for the development.
- The Source Data should be provided as per the Frequency specified (Daily, Weekly, Quarterly & monthly).
- The Data should be given at the granular hierarchy for each Directorate.

13. Dos & Don'ts

Do's:

- Enter Data on real time in the web portal.
- Upload Files should uploaded on real time in the web portal.
- Notify to SHDRC, if there is any update in the previously loaded data with proper approval.
- If the Password has been forgotten by the User, they have to notify maintenance team of SHDRC with approval.

Don'ts:

- Do not share the User Id & Password.
- Do not change the Source Data file Template provided to SHDRC by the Directorate.If there is any change, kindly notify one month in advance to SHDRC with approval of the Directorate.

14. System Administration

Definition: Activities performed by a system administrator (or "admin", "sysadmin", "site admin") such as monitoring security configuration, managing allocation of user names and passwords, monitoring disk space and other resource use, performing backups, and setting up new hardware and software. System administrators often also help users, though in a large organization this may be a separate job.

System Administration for Directorates:

- Connectivity can be slow sometimes due to the heavy bandwidth usage, being a common internet connection, Directorates are requested to understand the same.
- Being a browser based application, sometimes the content displayed would be the same as previous, due to cached data from history. Directorates should clear the cache and history from the Firefox browser and then re-login to the portal.
- Changing the password regularly and having it remembered is suggested. Password should not be shared or written in paper visible to everyone.
- If in case the system is very slow, restarting the workstation pc, once in a week is best practice so it helps the temporary files to be deleted, memory to be cleared making the system faster.

15. Definitions & Abbreviations Used:

- **Data Warehouse:** is a subject-oriented, integrated, time-variant and non-volatile collection of data in support of management's decision making process.
- **WebPortal:** Web portal is most often one specially designed Web page which brings information together from diverse sources in a uniform way. Usually, each information source gets its dedicated area on the page for displaying information (a portlet); often, the user can configure which ones to display. Variants of portals include mashups and intranet "dashboards" for executives and managers.
- **Threshold Value:** Minimum or maximum value which serves as a benchmark for comparison or guidance and any breach of which may call for a complete review of the situation.
- **ETL:** ETL is short for extract, transform, and load, three database functions that are combined into one tool to pull data out of one database and place it into another database. Extract is the process of reading data from a database. Retrieving data from external data storage or transmission sources. Transmitting and loading data to the receiving end.
- **Data Model:** A data model can be said as a diagram or flowchart that illustrates the relationships between data.
- **LDAP:** The Lightweight Directory Access Protocol is an open, vendor-neutral, industry standard application protocol for accessing and maintaining distributed directory information services over an Internet Protocol network.
- **ODBC:** ODBC helps to access any data from any application, regardless of which database management system (DBMS) is handling the data. ODBC manages this by inserting a middle layer, called a database driver, between an application and the DBMS. The purpose of this layer is to translate the application's data queries into commands that the DBMS understands. For this to work, both the application

and the DBMS must be ODBC-compliant -- that is, the application must be capable of issuing ODBC commands and the DBMS must be capable of responding to them.

- **QA:** Quality Assurance (QA) is a way of preventing defects in program and avoiding problems when delivering solutions or services to customers.
- **FTP landing zone:** The location in SDHRC server wherein all the directorates can place their respective files. The SHDRC data warehouse will source all the files from all the directorates from this location.
- **Data Quality:** Data quality refers to the acceptable standards to be set for data usage. The data quality ensures the data we get follows certain standards in terms of expected form and format.
- **KPI:** Key Performance Indicators are quantifiable measurements, agreed to beforehand, that reflect the critical success factors of each directorates within TNHSP.
- **Predictive Analytics:** Predictive analytics is the way of extracting information from existing data sets in order to determine patterns and predict future outcomes and trends.

Acronym	Expansion
CC/COC	Chennai Corporation
CMCHIS	Chief Ministers Comprehensive Health Insurance Scheme
DCA	Drug Control Authority
DFS	Directorate of Food Safety
DFW	Department of Family Welfare
DIM	Department of Indian Medicine and Homeopathy
DME	Directorate of Medical Education
DMS	Directorate of Medical Services
DPH	Directorate of Public Health
ESI	Employee State Insurance
HSC	Health Sub Center
HUD	Health Unit District
MA	Municipal Administration
MRB	Medical Recruitment Board
NACO	National Aids Control Organization
NLEP	National Leprosy Eradication Program
NPCB	National Program for Control of Blindness
NRHM	National Rural Health Mission
PHC	Primary Health Center
RNTCP	Revised National Tuberculosis Control Program
SBCS	State Blindness Control Society
SBHI	State Bureau of Health Intelligence
SHTC	State Health Transport Corporation
TANSACS	Tamil Nadu Aids Control Society
TN Dr. MGRMU	Tamil Nadu Dr. MGR Medical University
TNHSP	Tamil Nadu State Health Project
TNMSC	Tamil Nadu Medical Service Corporation

16. Contact Details for Help & Support

TNHSP Contact Details:

1. Dr. S. K. Thirunavakkarasu
Deputy Director, TNHSP
skthiru@tnhsp.net

2. Dr. Amanda Tampoe
Medical Officer, TNHSP
+919445030715
shdrc.tnhsp@gmail.com

Accenture Consultant's Contact Details

1. Muruga Priya
muruga.priya@accenture.com

2. Siddanathi, Krishna P.
krishna.p.siddanathi@accenture.com