CCEI User Manual



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Chapter 1. Cold Chain Equipment Inventory (CCEI) System

1.1. Cold Chain Equipment Inventory (CCEI) System

The Cold Chain Equipment Inventory (CCEI) System can be used to manage the cold chain equipment requirements from health facilities and to monitor the working status of the equipments by tracking, thereby timely action can be taken in cold chain supply management.

1.2. Conceptual Framework

The CCEI application is developed to manage cold chain equipment in health facilities through routine data form equipments and a timely reporting of working condition of the equipment which plays a crucial role in cold chain management.

1.3. CCEI Architecture

The system is built on the two inputs data forms namely model data, equipment type/equipment data and two output data forms namely periodic and non-periodic data.

In the model data, the initial step is to define model type attributes, model type. This enables the system to provide fields to enter required data for model. Each model type will have its own model data. In other terms model data is attached to its model type. The definition of model type attributes, model type can be modified/updated when the actual model type is introduced or a new model comes in the market in future at any facility.

There are equipment type/equipment data with or without having model data. In order to capture equipment type data, define equipment type attributes and then add equipment type with its attributes. If the equipment type has model data, select the appropriate model type while adding equipment type and this enable to pull the data from the selected model type along with the data from equipment type. If the equipment type has no model data, then just define attributes and add equipment type with its attributes.

There are data related to equipment which need to be collected, processed and used for action. Every facility has some number of equipments and data needs to be captured from equipment. In order to monitor the working status of the equipment and its location (facility), periodic/non-periodic data is to be collected.

When it is periodic, equipment/facility wise dataset is designed and assigned to corresponding facilities. When it is non-periodic (for say, working status) data needs to be captured when there is any change in the process and this can be done using equipment type attributes. The user has to select the facility as the registering unit and the appropriate equipment type and the required data can be filled in equipment type attributes.

1.4. Data types in CCEI

Non-periodic data which is data recorded only when there is any change in the process. For example, working condition of the equipment in a facility will be recorded, when it is working well or Not working or under repair condition. These data are recorded using equipment type attributes.

Periodic data are data recorded periodically to monitor the equipment function, performance and its efficiency and to monitor for any requirements of equipments in health facilities.

1.5. Service Module: Cold Chain Equipment Inventory (CCEI)

1.5.1. Meta Data

In cold chain Equipment Inventory, the super user has to define the metadata in the application.

To define model, the super user has to create attributes for model and then add the attributes with its model. The model here for say refrigerator and freezers and the attributes are capacity, dimension etc. The super user can add more models.

The model indicates the model name, for say Electrolux FG 432. To add a new model, select the model type and then add model.

Equipment Type Indicates the equipment for say Refrigerator, Cold Box, Cold Room etc. Equipment type has a particular model but equipment have machine specific data with addition to the general data which is common among the models. In order to record the equipment specific data, the super user has to define attributes for the equipment for say Unique ID, Serial No, manufacturer etc. User can add many numbers of attributes for equipment.

To add a new equipment type for say it is refrigerator and freezers, add it and select model for refrigerator and freezer. It will enable to pull data from selected model and also additional data which are specific to refrigerator and freezer by using equipment attributes.

In summary metadata defines

- Data about model attribute
- Data about model
- Data about equipment type attribute
- Data about equipment type

1.5.2. Data flow



Periodic Data Flow monitors following :

- Equipment: Monitor for any changes in equipment like temperature
- Facility: Monitor facilities for any requirements
- Period: Monitor any change of event timely

1.6. Model Attribute: Cold Chain Equipment Inventory (CCEI)

1.6.1. Model Attribute

To specify the model geometry and properties the user has to create model attributes where properties of each model defined.

To access Model Attribute user has to go to Maintenance -> dhis-web-maintenance-ccei -> Model attributes

dhis2	CCEI Laos		Maintenance	Services
CCEI Setup	소송의	Model attributes 🕜		
Model attributes		Filter by name Filter Clear		
Model		Name		
Equipment type attributes		CatalogID		
Equipment type		Climate Zone		
Aggregation Query List		Cold Box Type		
Manual Aggregation		Data Source		
Lookups Lookups		Dimension Depth		
Transfer		Dimension Height		
Transfer facility data		Dimension Width		
Import / Export Data		Equipment Type		
Import Data		Freeze Gross Volume		
Cold chain equiment man	agement	Freeze Net Volume		
		Manufacturer		

1.6.2. Operations on Model Attribute

dhis2	CCEI Laos		Maintenance	Services	
CCEI Setup	소송의	Model attributes 😮			
Model attributes		Filter by name Filter Clear	ı		
Model		Name			
Equipment type attributes		CatalogID			
Equipment type		Climate Zone			
Aggregation Builder	Aggregation Builder Aggregation Query List	Cold Box Type			
Manual Aggregation		Data Source			
Lookups		Dimension Depth			
Transfer	Transfer	Dimension Height			
Transfer facility data		Dimension Width			
Import / Export Data		Equipment Type			
Import Data		Freeze Gross Volume			
Cold chain equiment manage	agement	Freeze Net Volume			
		Manufacturer			

Filter Clear - Quick search and list the model type with edit and show details options

Add new - Add new model attribute

Edit - To edit model attribute



Delete - To remove model attribute

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Show details - List shows name, description etc



1.6.3. Add a new model attribute

To add a new model attribute, the user has to click on 'Add new" button in the model type management page, user will be directed to the following screen as show below, where he/she can fill the details to add a new model attribute

dhis2	CCEI Laos			
CCEI Setup	⊘∲ ⇔}	Add new mod	el attribute	
Model attributes		Model attribute det	ails	
Model		Name *	1	
Equipment type attributes		Description * Mandatory* Number of characters	No	
adolphic in type		For display*	No	
Aggregation Builder		Value Type *	Number	
Aggregation Query List			Add	Cancel
Manual Aggregation				
Lookups				
Lookups				
Transfer				
Transfer facility data				
Import / Export Data				
Import Data				
Cold chain equiment mana Equipment Manager	agement			

1.7. Model: Cold Chain Equipment Inventory (CCEI)

1.7.1. Model

Model consists of geometry and properties of each equipment model type. To define model, the super user has to create attributes for model and then add the attributes with its model. The model here for say refrigerator and freezers and the attributes are capacity, dimension etc. The model indicates the model name, for say Electrolux FG 432.

To access the model, user needs to click on the 'Model option' as seen on the extreme top left corner of the screen and user will get following screen

dhis2	CCEI Laos			Maintenance	Services
CCEI Setup	公仲위	Model 😮			
Model attributes					
Model		Hiter by name	Filter Clear		
Equipment type attributes		Name Cold Box Model			
Equipment type		Dahinawan Catalon			
Aggregation Builder		Reingerator Catalog			
Aggregation Query List		No. of pages: 1	No. of rows pe	r page: 50	
Manual Aggregation					
Lookups					
Lookups					
Transfer					
Transfer facility data					
Import / Export Data					
Import Data					

1.7.2. Operations on Model

Filter Clear - Quick search and list the model type with edit and show details options

Add new - Add new model attribute

To upload an image for the Model click on following button



Once user has clicked the Image, following screen will appear. User has to browse for the image of particular Model and click on Upload button, once the image is uploaded it will be displayed on the screen. The image uploaded once can later be updated by the same procedure.

dhis2	CCEI - Malawi	Maintenance
CCEM Setup Model attributes		
Model	Name Cold Box Model	
Equipment type attributes	Description Cold Box Model	
Equipment type	Upload image* Choose File No file chosen	
aggregation_builder aggregation_query_list	Upload image Cancel	
manual_aggregation		
Transfer		
Transfer facility data		

Edit - To edit model attribute



Delete - To remove model attribute



Design Data Entry Screen - Data needs to be entered against the model attribute for particular model, user can design data entry screen for data entry by clicking on following icon.



Once data entry screen design button is clicked follwing screen will appear to design data entry screen. User will get the list of all model attribute of selected Model by clicking on "Model Attributr" button on Top right corner

dhis2 cce	I - Madawi Maintenance Services Profile
CCEM Setup Model attributes Model	Edit Model Dataentry: Cold Box Model Data entry form details Name * Design data entry form
Equipment type	■ Source □ ③ 曲 图 《 地 範 篇 篇 +
aggregation_builder aggregation_query_list manual_aggregation	Styles Pormat Port P Size Art Ar & L 2
Transfer Transfer facility data	
Import / Export Data	
Cold chain equiment managemen Equipment Manager	

Model attributes can be grouped as sections. To make a group list, the user should click on the required icon



Show details - List shows name, description etc



1.7.3. Add New Model

To add new Model, user has to click on "Add new" button in model management page, once user has clicked on button he/she will be redirected to following page where user can fill detail to add new model.

dhis2	CCEI - Malawi	Maintenance Servi
CCEM Setup Model attributes	Add new model	
Model	Description *	
Equipment type attribute Equipment type	s Available model attribute	Filter Selected model attribute
aggregation_builder aggregation_query_list	CatalogID Climate Zone Cold Box Type Data Source	Attributes
manual_aggregation	Dimension Depth Dimension Height	>
Transfer Transfer facility data	Dimension Width Equipment Type Freeze Gross Volume Freeze Net Volume Manufacturer	<
Import / Export Data	Model Net Storage Power Source Ref Gross Volume	
Import Data		
Cold chain equiment m	Add	Cancel

User will get the list of all available model attributes, user can select the model attribute from the list which he/she wants to use for the model.

1.8. Equipment Type Attribute: Cold Chain Equipment Inventory (CCEI)

1.8.1. Equipment Type Attribute>

Equipment type Attributes are the properties of Equipment type, in order to record the equipment specific data, the user has to define attributes for the equipment for say Unique ID, Serial No, manufacturer etc.

To access the Equipment Type Attribute user has to click Maintenance -> dhis-web-maintenance-ccei -> Equipment type attribute. After clicking on the link the user will be directed to Equipment type attribute management page

dhis2	CCEI Laos		Maintenance	Services
CCEI Setup	公仲利	Equipment type attributes 🔞		
Model attributes		Ellar hu cama	2	
Model		Piter Crea		
Equipment type attributes		Name Backup Generator		
Equipment type		Barrada		
Aggregation Builder		Balcove		
Aggregation Query List		Dimensions		
Manual Aggregation		Equipment Tracking ID		
Lookups		Gross Volume		
Transfer		Height		
Transfer facility data		Identifier		
Import / Export Data		Length		
Import Data		Manufacturer		
Cold chain equiment mar Equipment Manager	hagement	Model ID		

1.8.2. Operations on Equipment Type Attributes

Filter Clear - Quick search and list the Equipment Type Attributes with edit and show details options

Add new - Add new model attribute

Edit - To edit model attribute



Delete - To remove model attribute



Show details - List shows name, description etc



1.8.3. Add new Equipment Type Attribute

User can add a new Equipment type Attribute by clicking on "Add New" button. After clicking "Add New" button user will get the following screen.

dhis2	CCEI Laos		
CCEI Setup	☆∲୶	Add new equi	pment type attribute
Model attributes		Equipment type att	ributes details
Model		Name *	
		Description *	
Equipment type attributes	;	Mandatory*	No
Equipment type		Number of characters	
		Value Type *	Number
Aggregation Builder			Add
Aggregation Query List			
Manual Aggregation			

To create new equipment type attribute user has to enter following detail:

- Write the name for the attribute
- Write the description for the equipment type attribute
- Select the attribute mandatory as yes/no, based on whether the value to be entered is mandatory or not
- Specify the number of the characters
- Select the value type for the attribute as number, text etc

Please note that the user has to keep in mind the details need to be collected for the equipment type and the attributes should be created accordingly. Once the attributes are created, then the attributes need to be added to its particular equipment.

1.9. Equipment Type: Cold Chain Equipment Inventory (CCEI)

1.9.1. Equipment Type

Equipment Type Indicates the equipment for say Refrigerator, Cold Box, Cold Room etc. Equipment type has a particular model but equipment type have machine specific data with addition to the general data which is common among the models

To access the Equipment Type Attribute user has to click Maintenance -> dhis-web-maintenance-ccei -> Equipment type. After clicking on the link the user will be directed to Equipment type management page

dhis2	CCEI Laos		Maintenance Se	ervices
CCEI Setup	公体制	Equipment type 😢		
Model attributes		Filter by name	er Clear	
Model		Name		
Equipment type attributes		Coldrooms		
Equipment type		Definerence		
Aggregation Builder		Religeatus		
Aggregation Query List		No. of pages: 1	No. of rows per page: 50	
Manual Aggregation				¢
Lookups				
Lookups				

1.9.2. Operations on Equipment Type Attributes

Filter Clear - Quick search and list the Equipment Type Attributes with edit and show details options

Add new - Add new model attribute

Edit - To edit model attribute



Delete - To remove model attribute





Show details - List shows name, description etc



Equipment Type: Dataset

Periodic dataentry have to be done for Equipment Type, for dataentry user has to assign dataset to individual Equipment Type, this can be done by clicking on following button



Once clicked on above button user will be redirected to following screen

dhis2	CCEI Laos		Maintenance	e Services	Profil
CCEI Setup Model attributes Model	소(송위	Equipment Datasets Details of equipment type Name* Coldrooms			
Equipment type attributes		Available datasets	Filter	Selected datasets	
Equipment type		Filter Clear]		
Aggregation Builder Aggregation Query List Manual Aggregation Lookups Lookups		Facility Management Dataset Vaccine Stock Level	<	Refrigerator Routine Da	ta Entry
Transfer Transfer facility data		Save Cancel			

1.9.3. Add new Equipment Type

User can add a new Equipment type by clicking on 'Add New" button. After clicking "Add New" button user will get the following screen.

dhis2	CCEI Laos						Maintenance
CCEI Setup	(Ad	ld new	equipment t	уре			
Model attributes	Det	ails of eq	quipment type				
lodel	Nar	ne *					
	Des	cription *					
quipment type attributes	Trac	cking*	No				×
Equipment type	Mod	del	[Please select mod	iei]			×
Aggregation Builder	Ava	ailable eq	quipment attribute	s		Filter	Selected equipment a
Aggregation Query List	Fil	ter		Filter Clea	ar		a suite sea
Manual Aggregation	Ba Ba	ckup Gene rcode	erator		^		Attributes
.ookups	Eq Gro He	uipment T oss Volum light entifier	iracking ID te		н	>	
ransfer	Le Ma Mo Ne	ngth Inufactures Idel ID It Volume	f			>> <<	
Transfer facility data	Re	ason Noti rial Numb	working er				
Import / Export Data	30	4	add) [Cancel			L
Import Data				Carrot			

To create new equipment type user has to enter following detail:

- Write the name for Equipment Type
- Write the description for the equipment type
- Select whether the Equipment needs to be track or not
- Select the model from the list of availabel model list so that the properties of the selected model will be inherited to the Equipment
- Select the Equipment Type Attribute form the list of available attribute, user has to selet the attribute which are the members of this Equipment.

Once the Equipment Type Attributes have been selected then user can set the order of the attributes and user can select the attributes which needs to be displayed on user screen by checling particular attribute.

1.10. Aggregation Engine: Cold Chain Equipment Inventory (CCEI)

1.10.1. Aggregation Engine

Aggregation builder helps user to get quantitative data. It transforms metadata to populate data by aggregation query.

For Example

• In a facility number of refrigerators in use

- In a facility number of refrigerators not in use
- In a facility number of refrigerators unserviceable
- In a facility number of refrigerators awaiting repair etc

To create a query the user has to select aggregation query list where query can be made to transform metadata to populate data and to get aggregate populate data the user has to select manual aggregation.

1.10.2. Aggregation Query List

This is the Aggregation Query List page where list of queries can be add, edit, translate, delete and details of a query can be seen.

To access the Aggregation Query List user has to click Maintenance -> CCEI Setup -> Aggregation Builder -> Aggregation Query List

dhis2	CCEI Laos		Maintenance	Services	Pro
CCEI Setup	令体动	CCEI Aggregation Query Builder Management 🚱			
Model attributes		Filter by name			
Model		Name			
Equipment type attributes		Number of Refrigerator Functionaning of type - ChestRefrigerator			
Equipment type		Number of Refrigerator Functioning of type - IcePackFreezer			
Appreciation Builder		Number of Refrigerator Functioning of type - IceLinedRefrigerator			
Aggregation Query List		Number of Refrigerator AwaitingRepair of type - ChestFreezer			
Manual Aggregation		Number of Refrigerator Functioning of type - ChestFreezer			
Lookum		Number of Refrigerator AwaitingRepair of type - IceLinedRefrigerator			
Lookups		Number of Refrigerator AwaitingRepair of type - ChestRefrigerator			
_		Number of Refrigerator AwaitingRepair of type - IcepackFreezer			
Transfer		Number of Refrigerator Unservicable of type - IcepackFreezer			
Transie lecity data		Number of Refrigerator Unservicable of type - ChestFreezer			
Import / Export Data		Number of Refrigerator Unservicable of type - IceLinedRefrigerator			
Import Data		Number of Refrigerator Unservicable of model - MK304			
Cold chain equiment man	agement	Number of Refrigerator Unservicable of type - ChestRefrigerator			
Equipment Manager		Number of Refrigerator Unservicable of model - RCW 50 EG			

1.10.3. Operations on Aggregation Query List

Filter Clear - Quick search and list the Aggregation Query List with edit and show details options

Add new - Add new Aggregation Query List

Edit - To edit Aggregation Query List



Translate - To translate an aggregation query list, the person has to select translate option by clicking the query



Remove - To remove Aggregation Query List



Show details - List shows name, description etc



1.10.4. Adding Aggregation Query

Please note that before creating the Aggregation Query user has to create a aggregated data element, which will further be used for Aggrgation Query

User has to click on Add New buttin to create a new Aggregation Query and user will be redirected to following page

dhis2	CCEI Laos			Maintenance	Ser
CCEI Setup Model attributes Model	○(◆今)	Aggregation Query Builder Detail Data element* Type	Please Select Please Select		
Equipment type attributes Equipment type		Add Cancel			
Aggregation Builder Aggregation Query List Manual Aggregation					

User has to select the aggregated data element for creating Auery, so that the aggregated value generated by the query will be stored against the aggregated data element

Once the data element have been selected then user has to select the type for different Use cases as shown below

dhis2	CCEI Laos		Maintenance Serv
CCEI Setup	心神剑	Aggregation Query Builder Detail	
Model attributes		Data element*	Number of Refrigerator Unservicable of mo
Model		Туре	STORAGE CAPACITY
Equipment type attributes		Set value in Lookup	Please Select STORAGE CAPACITY REF WORKING STATUS BY MODEL
Equipment type		Add Cancel	REF UTILIZATION REF WORKING STATUS BY TYPE REF TEMP ALARMS
Appropriate Duilder			

1.10.5. Use Cases

Based on the type selected with the data element there will be some use cases for creating Aggregation Queries

1.10.5.1. Storage Capacity

The user can get storage capacity of each facility by selecting the appropriate data element. This gives the user to know whether shortage or surplus or sufficient storage available in a health facilities of a state.

dhis2	CCEI Laos		Maintenance	Sen
CCEI Setup	修制企	Aggregation Query Builder Detail		
Model attributes		Data element*	Low Alarms	
Equipment type attri	butes	Type Set value in Lookup	STORAGE CAPACITY	
Equipment type		Add Cancel		

1.10.5.2. Refrigerator working status by model

The user can get refrigerator working status by model of aggregate populate data from the facilities of state whether functioning or awaiting repair or unserviceable

dhis2	CCEI Laos			Maintenance	Services
CCEI Setup	心神病	Aggregation Query Builder Detail			
Model attributes		Data element*	Number of Refr	igerator AwaitingRep	air of model - M
Model		Туре	REF WORKING	STATUS BY MODE	L
Equipment type attributes			TCW 2000 DC		
Equipment type		MODEL_MODELTYPEATTRIBUTE	HBD-116 HBD-286 TFW 800		
Aggregation Builder			Functioning		
Aggregation Query List		WORKING_STATUS_OPTIONSET	Unservicable		
Manual Aggregation					
Lookups		Add Cancel			
Lookups					

By selecting refrigerator status by model from type, all models of a refrigerator will be displayed and also working status option too. For each model type attribute three queries can be made like whether functioning or awaiting repair or unserviceable.

For Example

- No of refrigerator MK 304 are functioning
- No of refrigerator MK 304 are awaiting repair
- No of refrigerator MK 304 are unserviceable

1.10.5.3. Refrigerator utilization

The user can get utilization of refrigerators in an aggregate populate data of the health facilities of a state whether in use or not in use or in store for allocation. This gives user to evaluate the utilization of refrigerator by model

dhis2	CCEI Laos		Maintenance Services
CCEI Setup	令侍命	Aggregation Query Builder Detail	
Model attributes		Data element*	Number of Refrigerator AwaitingRepair of model - 1
Model		Туре	REF UTILIZATION
Equipment type attributes			InUse
Equipment type		UTILIZATION_OPTIONSET	InStoreForAllocation
Aggregation Builder			TCW 2000 DC HBD-116
Aggregation Query List		MODEL_MODELTYPEATTRIBUTE	H8D-286 TFW 800
Manual Aggregation			
		Add Cancel	

By selecting refrigerator utilization, the all models of a refrigerator will be displayed and also utilization option set too. For each model type attribute three queries can be made like whether in use or not in use or in store for allocation.

For Example

- No of refrigerator HBD-116 are in use
- No of refrigerator HBD-116 are not in use
- No of refrigerator HBD-116 are in store for allocation

1.10.5.4. Refrigerator working status by type

The user can get refrigerator working status by type of aggregate populate data from the facilities of state whether functioning or awaiting repair or unserviceable

dhis2	CCEI Laos			Maintenance	Services	Pr
CCEI Setup Model attributes Model	(金)中的	Aggregation Query Builder Detail Data element*	Number of Refri	gerator AwaitingRep	air of model - MK	204
Equipment type attributes Equipment type		WORKING_STATUS_OPTIONSET	Functioning AwaitingRepair Unservicable	STATUS BY TYPE		
Aggregation Builder Aggregation Query List		EQUIPMENTTYPE_MODELTYPEATTRIBUTE	ChestReingerat IcepackFreezer SolarThermalRe UprightRefriger	tor efrigerator ator		
Manual Aggregation		Add Cancel				

By selecting refrigerator status by type, the all model type attributes of a refrigerator will be displayed and also working status option too. For each model type attribute three queries can be made like whether functioning or awaiting repair or unserviceable

For Example

- No of Chest refrigerator are functioning
- No of Chest refrigerator are awaiting repair
- No of Chest refrigerator are unserviceable

1.10.5.5. Refrigerator temperature alarms

The user can get refrigerator temperature alarms whether high temperature alarms or low temperature alarms of the facilities and also number of refrigerators wise. This gives user to evaluate the temperature alarms by refrigerator and facility wise

dhis2	CCEI Laos		Maintenance Service
CCEI Setup Model attributes	(수송) 고	Aggregation Query Builder Detail	Number of Befrierreter AugitiesBessir of mod
Model		Туре	REF TEMP ALARMS
Equipment type attributes		REF TEMP ALARMS	NO_OF_REF_WITH_HIGHTEMP_ALARM NO_OF_REF_WITH_LOWTEMP_ALARM FACILITY_WITH_HIGHTEMP_ALARM FACILITY_WITH_LOWTEMP_ALARM
Aggregation Builder Aggregation Query List		Add Cancel	

The options for the user to evaluate temperature alarms are

- No of refrigerators with high temperature alarm
- No of refrigerators with low temperature alarm
- Facility with high temperature alarm
- Facility with low temperature alarm
- Facility with temperature alarms

1.11. Aggregation of Data

Once Aggregation Queries are ready then its time to convert equipment data to aggregated data for the particular period

To get aggregate values of the health facilities, the user has to select Manual Aggregation under aggregation builder. The user will get the aggregated data of the equipments which can further be used for Other Analysis modules like GIS, Pivot tables and Data Visulizer

dhis2	CCEI Laos				Maintenance	
CCEI Setup	소동왕	Manual Aggreç	gation			
odel attributes		Period [select]		Prev year Ne	xt year	
del		Organisation Unit S	election			
		Select at level	Level 1 💌	Un-select at level	Un-select all	
uipment type attributes		Select in group	District Vaccine S 💌	Un-select in group	Select children	
upment type		E Lao PDR				^
gregation Builder gregation Query List		E Phouvong Phouvon Xaidaen E Samakkhixa E Sanamxay	9 Y			
ual Aggregation		E Sanxay				
kups		E Bokeo E Bolikhamxay				
okups		⊞ Huaphanh				
unsfer		 E Khammuane E Luangnamtha E Luangprabang Oudomxay 				2
insier racinty data		H Phonesalv				

To get data aggregated user has to follow:

- Select the period from period list for which aggregation needs to be performed
- Select the facility or the parent facility from OrgUnit tree for which aggregation needs to be done, (In case if parent facility is selected then aggregation will run for whole child tree)
- Click Aggregate Values button to aggregate data