

# OBEL Weather Monitoring System Manual

Release 2.0

# OBEL Weather Monitoring System

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## 1. Introduction

Environ Weather Monitoring system takes advantage of the latest data-gathering technology available to monitor a wider range of weather variable and send their values across to a central repository. The system consist of both analog and digital measurement devices to collect environmental data such as Rain, Temperature, Pressure, Humidity, Wind Speed, Wind direction, Global Radiation,3level Soil moisture and River water level etc. at a particular location or site. Each of these location/sites is further referred as Clients.

A server is a central repository where the environmental data polled by all the stations/clients is collected and kept for analysis and predictions. The Server also acts as a communication device to all the stations. For example the frequency of polling of data by a station /Client Can is set from the server etc.

By default all the stations are configured to poll the data at a frequency of 60 minutes.

The stations/clients once polled the data will communicate to the central Server with the data polled through communication link. The communication link can be a GSM/GPRS module.

Web Portal - The data can be queried through a web interface to check/ see the Weather station status, compare conditions at different locations or present analysis of the archived data.

## OBEL Weather Monitoring System

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### 2. Login

Open you web browser (IE /Chrome/Mozilla)

Type the URL of the application

URL/IP address: \_\_\_\_\_



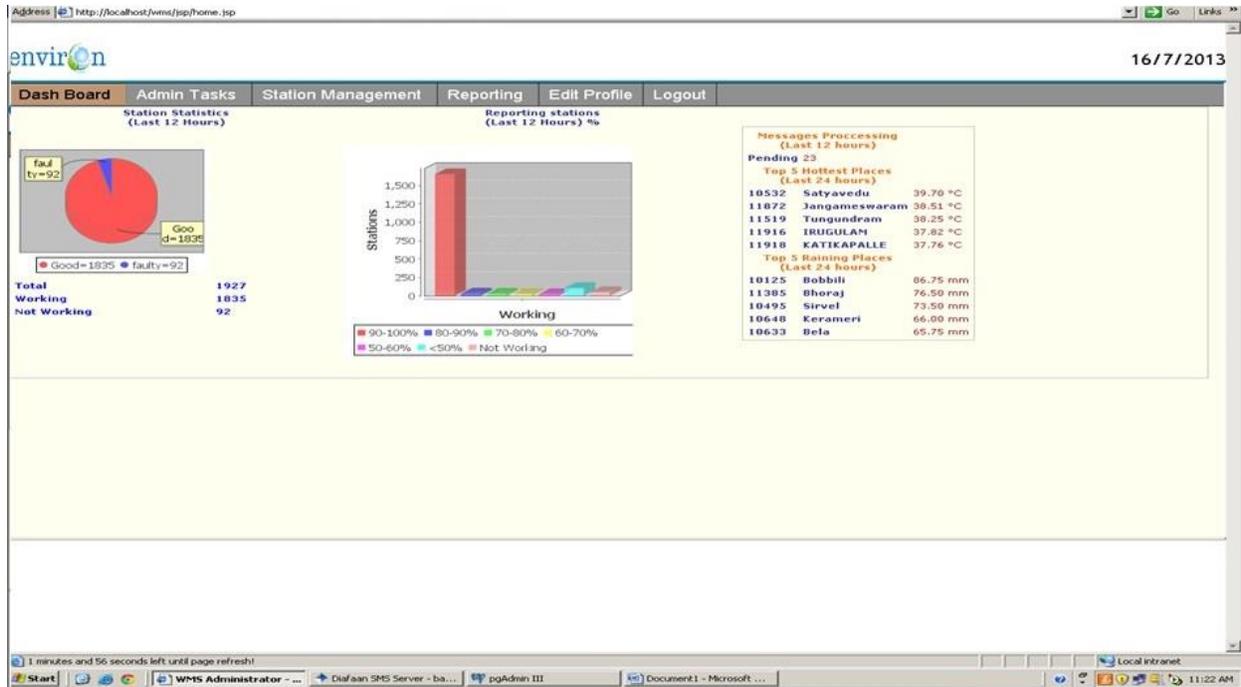
Use the User Name and password assigned to you by the application Administrator to logon into the portal

User Name: \_\_\_\_\_

Password: \_\_\_\_\_

A typical Administrator (default access to all modules) looks as follows. The default page is Dashboard page

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## 2. Security:

Security aspects are dealt using **roles** in the portal.

Tasks are grouped by their actions they perform called Modules. For example all the reports have been grouped under Reporting Module and so on.

Each menu item is a function by itself in the application

All the functionality in the portal has been grouped into 3 Modules for this release

- Admin Tasks
- Station Management
- Reporting

Each of the modules can be assigned to a group and a group can be attached to a

portal User More about Managing groups assigning module can be read in Admin

Module

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## 4. Dash Board

Dash board is the default landing pages once user has been successfully authorized to logon into the portal

Dash board provides the overview of the entire system. This will give the users the Health check of the system

The Stations Statistics Provides working vs Non-working Stations.



Click on the working or Not Working will pop up the list of the respective stations

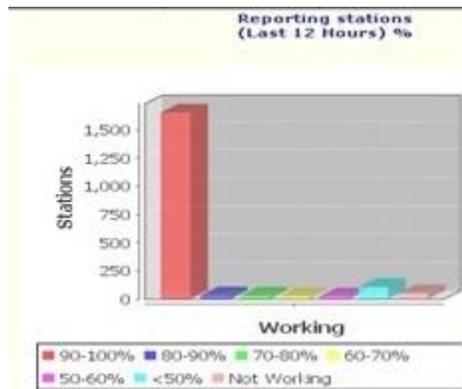


Not Working Stations List

clientid	State	District	Mandal	Location	Longitude	Latitude	Data Last Received (dd/mm/yyyy hh24:mi)
10649	ANDRA PRADESH	Adilabad	Kotapalle	Kotapalle	79.790833	18.959503	22/10/2011 10:00
10995	ANDRA PRADESH	Adilabad	Vemanpalle	Suraram	79.747222	19.118333	-
10630	ANDRA PRADESH	Adilabad	Bazarhathnoor	Bazarhathnoor	78.353056	19.457774	13/10/2011 13:59
10638	ANDRA PRADESH	Adilabad	Dandepalle	Velaganuru	79.151389	18.997326	23/10/2011 01:00
10828	ANDRA PRADESH	Anantapur	Talupula	Talupula	78.259167	14.239167	21/10/2011 09:00
10874	ANDRA PRADESH	Anantapur	Vidapanakal	Malapuram	77.196944	15.035278	27/09/2011 05:00
10056	ANDRA PRADESH	Chittoor	Gurramkonda	Gurram Konda	78.589167	13.781814	16/10/2011 16:00
10508	ANDRA PRADESH	Chittoor	Gangadhara Nellore	Gangadhara Nellore	79.185556	13.232038	16/10/2011 21:00
10116	ANDRA PRADESH	Chittoor	Pakala	Pakala	79.117222	13.446534	17/10/2011 18:16
10185	ANDRA PRADESH	East Godavari	Kadium	Vemagiri	81.794167	16.912661	18/10/2011 19:00
11016	ANDRA PRADESH	East Godavari	I Polavaram	IPolavaram	82.190833	16.660833	23/10/2011 11:59
10391	ANDRA PRADESH	East Godavari	Mamidikuduru	Nagaram	81.907222	16.497778	26/09/2011 23:00
10288	ANDRA PRADESH	Guntur	Rentachintala	Rentachintala	79.554444	16.552567	17/10/2011 00:16
10986	ANDRA PRADESH	Guntur	Pittalavanipalem	Khajipalem	80.606111	15.965556	12/10/2011 14:00
10421	ANDRA PRADESH	Guntur	Veldurthi	Veldurthi	79.368056	16.349722	15/10/2011 16:00
10416	ANDRA PRADESH	Guntur	Nuzendla	Nuzendla	79.742222	15.925737	19/10/2011 15:00

Reporting station Statistics for last 12 hours are displayed in a BAR Chart

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This gives a pretty clear picture of how the stations are performing at a glance

Top 5 Hottest and Raining places for last 12 hours are also seen in the Dash board

Messages Processing (Last 12 hours)

Pending 23

Top 5 Hottest Places (Last 24 hours)

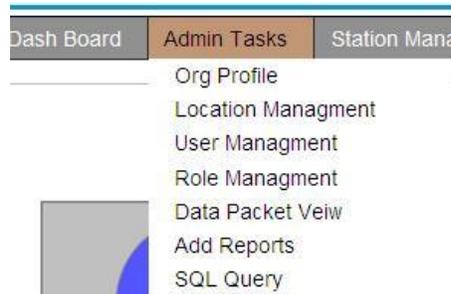
10532	Satyavedu	39.70 °C
11872	Jangameswaram	38.51 °C
11519	Tungundram	38.25 °C
11916	IRUGULAM	37.82 °C
11918	KATIKAPALLE	37.76 °C

Top 5 Raining Places (Last 24 hours)

10125	Bobbili	86.75 mm
11385	Bhoraj	76.50 mm
10495	Sirvel	73.50 mm
10648	Kerameri	66.00 mm
10633	Bela	65.75 mm

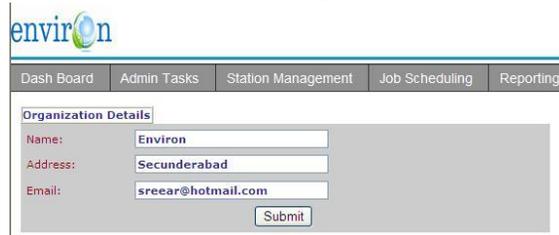
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## 5. ADMIN MODULE (Admin Tasks)



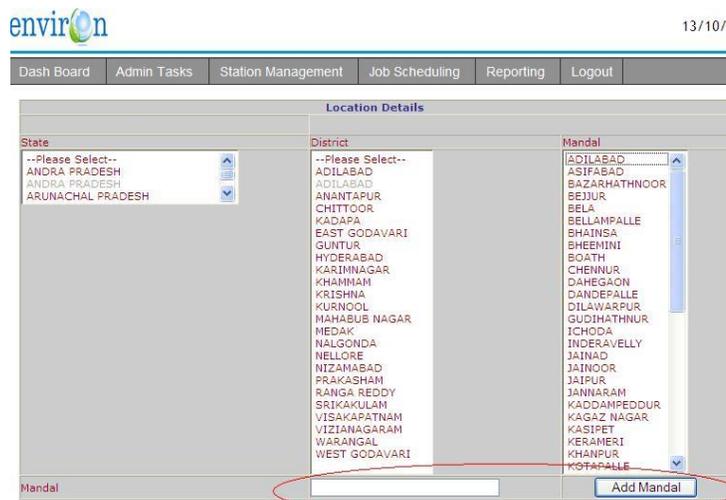
Below are the activities a user can do as a **System Administrator**

### 1. Org Profile: View/set Organization profile



### 2. Location Management:

All the District data is populated. You can view data for any selected State/District



You can use this <<**Add Mandal**>>utility to add any missing Mandals in a specific District if one is not present

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## 3. User Management

List users in the Portal

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout	
<b>User List</b>						
User ID	Name	Login Name	Role	Phone	Email	select
1	Srini	sreear	Admin role	9618033933	sreear@gmail.com	<input type="radio"/>
3	Anurag	anu	report	9246355287	anu@hotmail.co.in	<input type="radio"/>
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>						

### a. Add User

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout
<b>Add User</b>					
User ID	<input type="text" value="4"/>				
Name	<input type="text" value="Ram"/>				
Login Name	<input type="text" value="Parashuram"/>				
Password	<input type="password" value="....."/>				
Role	report <input type="button" value="v"/>				
Phone	<input type="text" value="918192312"/>				
Email	<input type="text" value="ram@environinfra.com"/>				
<input type="button" value="Insert"/> <input type="button" value="Cancel"/>					

Add user by Entering his name, Login Name, Password. Phone and Email are optional Select the Role this user will perform in the portal. See Role Management section for add/edit roles.

Press <<Insert>> to add the user or <<Cancel>> to abort this operation

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout	
<b>User List</b>						
User ID	Name	Login Name	Role	Phone	Email	select
1	Srini	sreear	Admin role	9618033933	sreear@gmail.com	<input type="radio"/>
3	Anurag	anu	report	9246355287	anu@hotmail.co.in	<input type="radio"/>
4	Ram	Parashuram	report	918192312	ram@environinfra.com	<input checked="" type="radio"/>
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>						

- b. Edit: you can use this option to change the user data viz, Change his password, Login Name or Change user role.  
Select the User from the list and press <<Edit>>
- c. Delete User: Select the user and click <<<Delete>>. The user account will be removed from the portal

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### 4. Role Management:

One can define or Modify roles in this section. If a role modification is done all user assigned to this role will get effected.

Role list shows all the roles available.

Dash Board	Admin Tasks	Station Management	Job Scheduling	Rep
------------	-------------	--------------------	----------------	-----

Role List			
Role ID	Name	select	Menu(s) Assigned
1	Admin role	<input type="radio"/>	<b>Dash Board</b> <b>Admin Tasks</b> <b>Station Management</b> <b>Job Scheduling</b> <b>Reporting</b>
2	report	<input type="radio"/>	<b>Dash Board</b> <b>Admin Tasks</b> <b>Reporting</b>
		<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>	

Add a role by mentioning the name and selecting the Menu(s)

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout
------------	-------------	--------------------	----------------	-----------	--------

Add Role	
<b>Role ID</b>	<input style="width: 90%;" type="text" value="3"/>
<b>Role Name</b>	<input style="width: 90%;" type="text"/>
<b>Menu List</b>	<input type="checkbox"/> Dash Board <input type="checkbox"/> Admin Tasks <input type="checkbox"/> Station Management <input type="checkbox"/> Job Scheduling <input type="checkbox"/> Reporting
<input type="button" value="Insert"/> <input type="button" value="Cancel"/>	

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You can Edit a role name and add/remove Menu(s)

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout
------------	-------------	--------------------	----------------	-----------	--------

Edit Role	
Role ID	<input type="text" value="1"/>
Role Name	<input type="text" value="Admin role"/>
Menu List	<input checked="" type="checkbox"/> Admin Tasks <input checked="" type="checkbox"/> Reporting <input checked="" type="checkbox"/> Job Scheduling <input checked="" type="checkbox"/> Dash Board <input checked="" type="checkbox"/> Station Management
<input type="button" value="Update"/> <input type="button" value="Cancel"/>	

Select a role from the Role list and press <<**Delete**>> to delete a role. Use this role with caution as the role assigned to the user will be reset to null. You need to edit the users individually and add them to a valid role.

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## 5. Data Packets View

View Data Packet of a particular station for specific Date Ranges

Select Date Range	Date & Time	Rain ( mm )	Temperature(° C)	Wind Speed ( kmph )	Wind Direction (*from north )	Humidity ( % )	Local Pressure ( millibar )	MSLP ( millibar )
From 27/6/2014	27/06/14 00:00	0.0	30.08	0.34	206.5	48.65	945.5	1004.27
To 28/06/2014	27/06/14 01:00	0.0	29.0	0.0	255.0	51.83	944.7	1003.64
	27/06/14 02:00	0.0	29.91	4.39	98.4	46.49	945.3	1004.09
	27/06/14 03:00	0.0	27.78	0.0	1.6	57.54	945.1	1004.31
	27/06/14 04:00	0.0	27.4	0.0	133.6	61.29	944.7	1003.96
	27/06/14 05:00	0.0	26.8	0.0	235.7	64.61	945.3	1004.72
	27/06/14 06:00	0.0	27.05	0.08	350.2	61.77	945.7	1005.1
	27/06/14 07:00	0.0	27.87	0.25	338.3	58.48	946.0	1005.25
	27/06/14 08:00	0.0	28.55	1.89	333.5	56.56	946.4	1005.54
	27/06/14 09:00	0.0	31.03	7.48	228.8	51.78	946.9	1005.57
	27/06/14 10:00	0.0	33.58	1.97	14.5	45.09	946.9	1005.07
	27/06/14 11:00	0.0	34.41	6.88	152.8	42.37	946.7	1004.69
	27/06/14 12:00	0.0	35.05	5.25	37.5	42.37	946.1	1003.93
	27/06/14 13:00	0.0	35.1	4.21	49.3	39.07	945.4	1003.18
	27/06/14 14:00	0.0	35.79	8.35	73.3	37.43	944.8	1002.41
	27/06/14 15:00	0.0	35.01	4.3	108.9	39.07	944.1	1001.82
	27/06/14 16:00	0.0	29.91	4.73	141.3	56.56	944.2	1002.93
	27/06/14 17:00	0.0	28.21	5.59	254.2	61.81	945.1	1004.22
	27/06/14 18:00	0.0	27.18	1.54	138.3	67.8	944.9	1004.22
	27/06/14 19:00	0.0	27.1	0.0	259.9	66.91	945.6	1004.98
	27/06/14 20:00	0.0	26.8	4.56	343.4	69.12	947.4	1006.96
	27/06/14 21:00	0.0	24.4	2.84	29.8	70.76	948.0	1008.09
	27/06/14 22:00	0.5	23.37	0.0	18.7	80.9	947.7	1007.98
	27/06/14 23:00	0.5	23.76	0.0	319.1	80.01	947.0	1007.16
	28/06/14 00:00	0.5	24.89	1.54	238.0	71.2	946.4	1006.29
	28/06/14 01:00	0.5	25.19	0.0	122.0	68.54	945.8	1005.59
	28/06/14 02:00	0.5	24.89	0.0	341.7	69.42	945.3	1005.12
	28/06/14 03:00	0.5	25.83	0.0	346.5	66.03	945.0	1004.6
	28/06/14 04:00	0.5	26.01	2.41	340.2	66.03	945.0	1004.57
	28/06/14 05:00	0.5	25.06	0.0	353.3	71.64	945.2	1004.07

Select the date ranges you wish the data to run the query

To date will be applied till the end of the day selected. I.e. till 24<sup>th</sup> hour

If you are selecting for a particular day both from and to date has to be same

If you know the station ID you can enter the same and do a search or else select the station by selecting State -> District. You can narrow the station list by selecting Mandal.

Click on the station will fetch the results on the screen

## 6. Add Reports

This section is used by advanced user to add new adhoc reports to the application. User should know to build SQL Queries against the database. There are two built-in Templates provided to add the reports namely adhoc2.jsp and adhoc4.jsp which accepts 2 inputs and 4 inputs respectively.

Adhoc2.jsp variables are state and District in that order

Adhoc4.jsp variables are from date, to date, State and District in that order

You need a report Name, Tile for the report and the SQL Query required.

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Once a report has been added it will be displayed under reporting Module

Adding a Sample report: Adhoc2 ( with State and District Variable)

Report Name: Stations List

Title: Stations List

Query= select clientid, Location,longitude,latitude,last\_reported from station\_configs\_det where cast(state as text)=? And cast (district as text) =?



Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout
<b>Edit Report</b>					
<b>Report ID</b>	<input type="text" value="1"/>				
<b>Report Name</b>	<input type="text" value="Stations List"/>				
<b>Title</b>	<input type="text" value="Stations List"/>				
<b>Query</b>	<input style="width: 100%; height: 40px;" type="text" value="select clientid,Location,longitude,latitude, last_reported from station_configs_det where cast(state as text)=? and cast (district as text)=?"/>				
<b>Template</b>	<input type="text" value="adhoc2.jsp"/>				
<input type="button" value="Save"/> <input type="button" value="Cancel"/>					

After saving the report will appear in the reporting Menu. You need to logout and re - login to see the menu to be populated



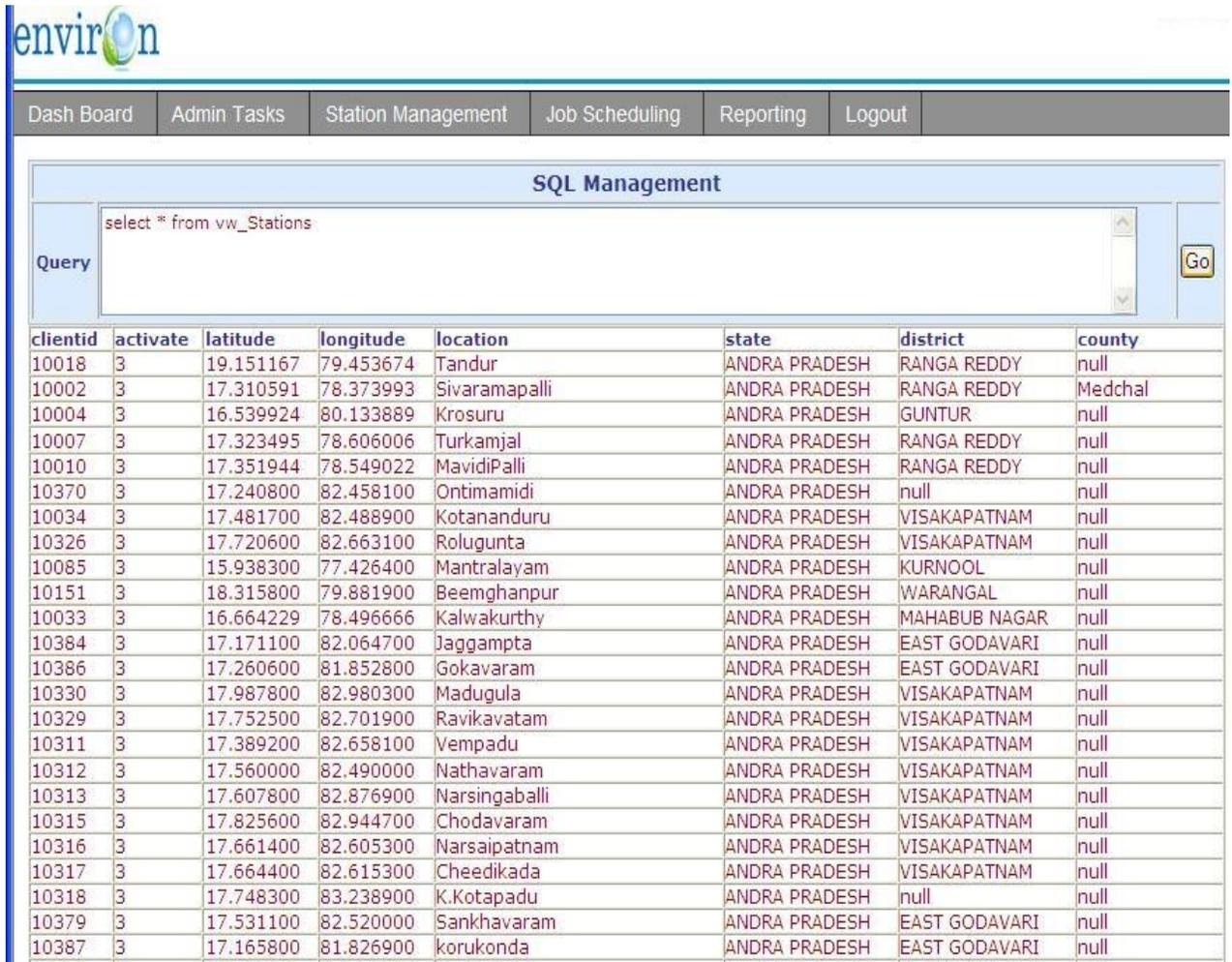
Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout
<b>Reports Admin</b>					
<b>Report ID</b>	<b>Report Name</b>	<b>Title</b>	<b>Query</b>		<b>Template select</b>
1	Stations List	Stations List	select clientid,Location,longitude,latitude, last_rep (state as text)=? and cast(district as text)=?		adhoc2.jsp <input type="radio"/>
2	Stations Last Reported	Stations Last Reported	select clientid,Location,longitude,latitude,last_rep last_reported between to_date(?, 'dd/mm/yyyy') ; as text)=? and cast(district as text)=?		adhoc4.jsp <input type="radio"/>
<input type="button" value="New"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>					

Reading By Dates  
 % Reported  
 Last Reported Sensors  
**RainFall Specific Time**  
 Data Summary(8:30AM to 8:30AM)  
 Data Analysis  
 Data Analysis by Sensor  
 Reporting by Percentage  
**Stations List**

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## 7. SQL query

A SQL Query interface to be retrieve data from the database instead of using Database tools to extract data.



The screenshot shows the 'SQL Management' interface. At the top, there is a navigation menu with options: Dash Board, Admin Tasks, Station Management (selected), Job Scheduling, Reporting, and Logout. Below the menu is a text input field for a SQL query, containing the text 'select \* from vw\_Stations'. To the right of the input field is a 'Go' button. Below the input field is a table with the following columns: clientid, activate, latitude, longitude, location, state, district, and county. The table contains 20 rows of data representing various weather stations in Andhra Pradesh, India.

clientid	activate	latitude	longitude	location	state	district	county
10018	3	19.151167	79.453674	Tandur	ANDRA PRADESH	RANGA REDDY	null
10002	3	17.310591	78.373993	Sivaramapalli	ANDRA PRADESH	RANGA REDDY	Medchal
10004	3	16.539924	80.133889	Krosuru	ANDRA PRADESH	GUNTUR	null
10007	3	17.323495	78.606006	Turkamjal	ANDRA PRADESH	RANGA REDDY	null
10010	3	17.351944	78.549022	MavidiPalli	ANDRA PRADESH	RANGA REDDY	null
10370	3	17.240800	82.458100	Ontimamidi	ANDRA PRADESH	null	null
10034	3	17.481700	82.488900	Kotananduru	ANDRA PRADESH	VISAKAPATNAM	null
10326	3	17.720600	82.663100	Rolugunta	ANDRA PRADESH	VISAKAPATNAM	null
10085	3	15.938300	77.426400	Mantralayam	ANDRA PRADESH	KURNOOL	null
10151	3	18.315800	79.881900	Beemghanpur	ANDRA PRADESH	WARANGAL	null
10033	3	16.664229	78.496666	Kalwakurthy	ANDRA PRADESH	MAHABUB NAGAR	null
10384	3	17.171100	82.064700	Jaggampta	ANDRA PRADESH	EAST GODAVARI	null
10386	3	17.260600	81.852800	Gokavaram	ANDRA PRADESH	EAST GODAVARI	null
10330	3	17.987800	82.980300	Madugula	ANDRA PRADESH	VISAKAPATNAM	null
10329	3	17.752500	82.701900	Ravikavatam	ANDRA PRADESH	VISAKAPATNAM	null
10311	3	17.389200	82.658100	Vempadu	ANDRA PRADESH	VISAKAPATNAM	null
10312	3	17.560000	82.490000	Nathavaram	ANDRA PRADESH	VISAKAPATNAM	null
10313	3	17.607800	82.876900	Narsingaballi	ANDRA PRADESH	VISAKAPATNAM	null
10315	3	17.825600	82.944700	Chodavaram	ANDRA PRADESH	VISAKAPATNAM	null
10316	3	17.661400	82.605300	Narsaipatnam	ANDRA PRADESH	VISAKAPATNAM	null
10317	3	17.664400	82.615300	Cheedikada	ANDRA PRADESH	VISAKAPATNAM	null
10318	3	17.748300	83.238900	K.Kotapadu	ANDRA PRADESH	null	null
10379	3	17.531100	82.520000	Sankhavaram	ANDRA PRADESH	EAST GODAVARI	null
10387	3	17.165800	81.826900	korukonda	ANDRA PRADESH	EAST GODAVARI	null

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## 6. STATION MANAGEMENT

This Module allows you to add new stations, edit existing parameters of the station.



Send various Maintenance commands like restart stations, Clear Data logger, update date time etc. to Stations/Clients. It also allows you to Query for any missing packets for a particular time frame and send request to stations to re-send the data packets

### 1. Add/View/Edit Station:



If you know the station Id you can enter the id in Station ID box and click Search to view/Edit the station details else select state-> District ->Mandal. You will see the list of station in that Mandal.

Note: for some reason you are not able to see the stations in the Mandal, may be the station Mandal's are not mapped – go to one level up (district) and don't select anything in Mandal. You will be able to see all the stations in that district as depreciated in last image

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Select a station from the list of station to see details of the stations as below

The screenshot shows the 'Station Details' form with the following data:

StationID	10626	District	ADILABAD	Mandal	null
Location	ADILABAD	Location Address	APSEB Sub-station		
Longitude (Degrees)	78.083611	Latitude (Degrees)	19.030416	Altitude (meters)	358.00
Station SIM #	9491067232	Data Frequency (minutes)	60	Comm Frequency (minutes)	60
Time 1 (HHMM)	0001	Time 2 (HHMM)	0001	Time 3 (HHMM)	0001
Wind Averaging	4	Rain Calibration	81	Wind Calibration	007
Server SIM	+919491042103	Server Backup SIM1	+919491042103	Server Backup SIM2	+919491042103
Future Expansion	Yes	Num Settings	Yes	Numbers	Yes
Activate	3	Watchdog	1	Flash	0
Additional Commands	1	Contact Person	Kiran	Email	reddy1990b@gmail.com
Last Reported	18/08/2011 08:00				

Adding New Stations required populating STATE/District/Mandal drop downs and Press <<Add New>> button to add a new station. The stations will be added to the particular District/Mandal

The screenshot shows the 'Add New Station' form with the following data:

State	ANDRA PRADESH	District	CHITTOOR	Mandal	Bangarupalem
ClientID	10827	Location		Address	
Longitude		Latitude		Altitude	
Station SIM #		Data Frequency		Comm Frequency	
Time 1		Time 2		Time 3	
Wind Averaging		Rain Calibration		Wind Calibration	
Server SIM		Server Backup SIM1		Server Backup SIM2	
Activate	Yes	Watchdog	Yes	Flash	Yes
Additional Commands		Contact Person		Email	

Enter all the relevant information for setting up the station and press <<insert>>

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### 3. Data Recovery:

There would be various reasons for a data packet loss.

It can be due to the station failure where the data packet is not generated or  
Could be due to communication link failure when transmitting the data packet-  
Transmission loss or problems with the Central Server.

Data recovery is done automatically in the backend by the system at a default frequency of 6 hours. The process involves in identifying missing packets and requesting stations to resend the data packet(s) missing.

One can use this utility to check if data packets are missing for a specific date ranges for a station and then attempt a recovery.

The System uses Data frequency parameter defined in the Station parameters to list missing Data packets.

To check if packets are missing –

Enter the search from and to dates

Select the Station in question and click <<**Search**>>

You will be displayed with a list of probable missing packets

## OBEL Weather Monitoring System

The screenshot shows the 'Station Management' page of the OBEL Weather Monitoring System. The interface includes a navigation menu with options like 'Dash Board', 'Admin Tasks', 'Station Management', 'Reporting', 'Edit Profile', and 'Logout'. The main content area displays a table of station data with columns for 'recover\_id', 'clientid', 'start\_time', and 'end\_time'. A message 'Found 31 missing packets' is visible above the table. On the left, there are filters for 'Select Date Range' (From: 27/6/2014, To: 28/6/2014), 'Select Station' (State: ANDRA PRADESH, District: Adilabad), and a list of stations. A 'Recover' button is located at the bottom left of the table area.

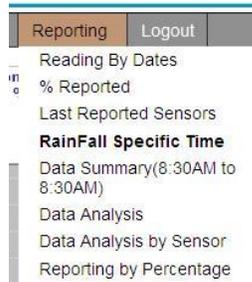
recover_id	clientid	start_time	end_time
335379390	12031	27/06/2014 00:00	27/06/2014 01:00
335379391	12031	27/06/2014 01:00	27/06/2014 02:00
335379392	12031	27/06/2014 02:00	27/06/2014 03:00
335379393	12031	27/06/2014 03:00	27/06/2014 04:00
335379394	12031	27/06/2014 04:00	27/06/2014 05:00
335379395	12031	27/06/2014 05:00	27/06/2014 06:00
335379396	12031	27/06/2014 06:00	27/06/2014 07:00
335379397	12031	27/06/2014 07:00	27/06/2014 08:00
335379398	12031	27/06/2014 08:00	27/06/2014 09:00
335379399	12031	27/06/2014 09:00	27/06/2014 10:00
335379400	12031	27/06/2014 10:00	27/06/2014 11:00
335379401	12031	27/06/2014 11:00	27/06/2014 12:00
335379402	12031	27/06/2014 12:00	27/06/2014 13:00
335379403	12031	27/06/2014 13:00	27/06/2014 14:00
335379404	12031	27/06/2014 14:00	27/06/2014 15:00
335379405	12031	28/06/2014 08:00	28/06/2014 09:00
335379406	12031	28/06/2014 09:00	28/06/2014 10:00
335379407	12031	28/06/2014 10:00	28/06/2014 11:00
335379408	12031	28/06/2014 11:00	28/06/2014 12:00
335379409	12031	28/06/2014 12:00	28/06/2014 13:00
335379410	12031	28/06/2014 13:00	28/06/2014 14:00
335379411	12031	28/06/2014 14:00	28/06/2014 15:00
335379412	12031	28/06/2014 15:00	28/06/2014 16:00
335379413	12031	28/06/2014 16:00	28/06/2014 17:00
335379414	12031	28/06/2014 17:00	28/06/2014 18:00
335379415	12031	28/06/2014 18:00	28/06/2014 19:00
335379416	12031	28/06/2014 19:00	28/06/2014 20:00
335379417	12031	28/06/2014 20:00	28/06/2014 21:00

After that click <<**Recover**>> button to start recovery.

Now the system will parse all the missing packets and if possible send a single instruction to the Station to retrieve the data packets. Recheck back if the missing packet has been recovered after 15 – 30 minutes as the process of sending and receiving is asynchronous.

# OBEL Weather Monitoring System

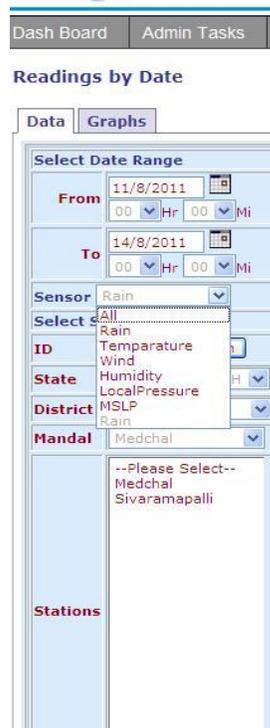
## 7. REPORTING



We will discuss in detail the Default reporting provided by the system. As already discussed in the Report Management module you can add your own reports anytime

### 1. Reading by Dates: This report provides a detail view of data for a specific time frame for a specific station.

Your select criteria should include Date/time, Sensor(s) and Station



# OBEL Weather Monitoring System

**2. Rainfall at specific Time:** This report provides a Cumulative Rainfall (mm) view of data for a specific time for last 12 hours.

Your select criteria should include Date/time, State and District.

Sl.	ClientID	District	Mandal	Location	Latitude	Longitude	Last Updated before Selected Date/time (24hrs)	Rain (mm)
1	10158	Adilabad	Adilabad	Adilabad	19.672810	78.537277	06/28/2014 07:00	9.25
2	12027	Adilabad	Adilabad	Adilabad_RG	17.875213	79.972305	06/28/2014 08:00	0.0
3	11399	Adilabad	Adilabad	Ramnagar	19.686111	78.505833	06/28/2014 08:00	1.25
4	10629	Adilabad	Asifabad	Asifabad	19.357420	79.296883	06/28/2014 07:00	0.0
5	10630	Adilabad	Bazarhathnoor	Bazarhathnoor	19.457529	78.353195	06/28/2014 08:00	0.25
6	10631	Adilabad	Bejuri	Bejuri	19.348011	79.866326	06/28/2014 07:00	0.0
7	10633	Adilabad	Bela	Bela	19.721098	78.771942	06/28/2014 07:00	51.0
8	11929	Adilabad	Bela	Mangrud	19.770217	78.856483	06/28/2014 08:00	9.25
9	10634	Adilabad	Bellampalle	Bellampalle	19.068744	79.490284	06/28/2014 07:00	0.0
10	10150	Adilabad	Bhainsa	Bhainsa	19.113223	77.962135	06/28/2014 08:00	1.75
11	11382	Adilabad	Bhainsa	Wanalphad	19.102222	78.034722	06/28/2014 08:00	11.25
12	11396	Adilabad	Bhemini	Janakapur	19.117222	79.578667	06/28/2014 08:00	0.0
13	10635	Adilabad	Bhemini	Kannapalli	19.147778	79.668869	06/28/2014 07:00	0.5
14	10435	Adilabad	Boath	Boath	19.347397	78.321808	06/28/2014 07:00	0.0
15	11383	Adilabad	Boath	Sonala	19.416111	78.318333	06/28/2014 08:00	0.0
16	10636	Adilabad	Chennur	Chennur	18.855522	79.795982	06/28/2014 07:00	0.0
17	10992	Adilabad	Chennur	Kommerla	18.762337	79.791328	06/28/2014 08:00	0.0
18	10637	Adilabad	Dahegaon	Dahegaon	19.270634	79.716194	06/28/2014 07:00	0.5
19	11384	Adilabad	Dandepalle	Dandepalle	18.997222	79.151389	06/28/2014 08:00	0.5
20	10638	Adilabad	Dandepalle	Vellaganuru	18.939728	79.131256	06/28/2014 08:00	0.0
21	10625	Adilabad	Dilawarpur	Dilawarpur	19.089275	78.227737	06/28/2014 08:00	11.25
22	10639	Adilabad	Gudihathnur	Gudihathnur	19.529233	78.516830	06/28/2014 07:00	0.0
23	10310	Adilabad	Ichoda	Ichoda	19.428655	78.455658	06/28/2014 07:00	0.0
24	10640	Adilabad	Inderavelly	Inderavelly	19.492689	78.674728	06/28/2014 07:00	2.25
25	11385	Adilabad	Jainad	Bhoraj	19.737500	78.539167	06/28/2014 08:00	2.0
26	10641	Adilabad	Jainad	Jainad	19.735220	78.644119	06/28/2014 07:00	0.0
27	10642	Adilabad	Jainoor	Jainoor	19.371261	78.908852	06/28/2014 07:00	0.0
28	11400	Adilabad	Jaipur	Rheemavaram	18.818889	79.516667	06/28/2014 08:00	1.25
29	10643	Adilabad	Jaipur	Jaipur	18.849342	79.586052	06/28/2014 08:00	1.5
30	10993	Adilabad	Jaipur	Kundaram	18.761608	79.612824	06/28/2014 08:00	0.25
31	10644	Adilabad	Jannaram	Jannaram	19.119281	78.999504	06/28/2014 08:00	0.5

**3. Percentage Reported:** This report provides a working and not working percentage status view of data for a specific time frame.

Your select criteria should include Date/time, State and District.

District	Total	Not Reporting	90% - 100% %	80% - 90%	70% - 80%	60% - 70%	50% - 60%	< 50%
Adilabad	96	1	75	1	3	0	3	3
Anantapur	122	1	110	1	3	2	3	2
BIJAPUR	1	null	1	null	0	0	0	0
Chitoor	132	1	116	2	3	2	2	6
East Godavari	91	1	80	null	4	1	2	3
Guntur	87	1	73	1	6	0	0	6
Hyderabad	23	null	23	null	0	0	0	0
Kadapa	96	1	88	2	1	0	1	3
Kanninagar	113	1	107	null	1	1	2	1
Khammam	70	2	56	1	3	2	0	6
Krishna	89	null	84	1	2	0	1	1
Kurnool	123	4	112	1	1	4	0	1
Mahabub Nagar	123	4	106	1	8	2	0	2
Nedak	88	null	85	null	0	1	0	1
Nalgonda	116	3	94	6	2	1	2	8
Nellore	84	null	74	3	0	3	0	4
Nizamabad	65	null	59	1	0	1	0	4
Prakasham	116	3	93	null	3	2	2	11
Ranga Reddy	78	1	65	2	4	4	1	1
Srikakulam	61	2	48	2	2	1	0	5
Visakapathnam	63	3	46	2	4	2	2	4
Vizianagaram	47	1	37	1	2	2	1	3
Warangal	90	null	76	5	3	3	1	2
West Godavari	75	null	69	1	0	1	3	1

# OBEL Weather Monitoring System

**4. Last Reported sensors:** This report provides a Last updated time for each sensor status view of data for specific District.

Your select criteria should include State and District.



Dash Board		Admin Tasks		Station Management		Reporting		Edit Profile		Logout			
Select Station		Last Reported Stations											
State	ANDRA PRADESH	Client Id	Location	Latitude	Longitude	District	Packet Date/Time	Rain Packet	Temp Packet	Humidity Packet	WindSpeed Packet	WindDirection Packet	Pressure Packet
District	Adilabad	10645	Kaddampeddur	19.097572	78.773483	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10647	Kondapur	19.026360	79.439224	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10990	Basar	18.884291	77.953827	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10632	Kuntala	19.176584	78.103569	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10994	Pembi	19.194380	78.637756	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 10:00	06/28/2014 13:00	06/28/2014 13:00
		10158	Adilabad	19.672810	78.537277	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10635	Kannepalli	19.147778	79.668869	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		11387	Lingapur	19.034722	78.717222	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		11403	Mudhole	18.974444	77.911667	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10637	Dahegaon	19.270634	79.716194	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10435	Boath	19.347397	78.321808	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10646	Kagaznagar	19.353145	79.484871	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		11895	okulam	19.261389	79.480833	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10663	Sirpur(U)	19.338793	78.947426	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10310	Ichoda	19.428655	78.455658	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		11397	Tandra	19.178889	78.464722	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		10666	Tandur	19.151167	79.453675	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00
		11931	Arjunagutta	18.867050	79.950677	Adilabad	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00	06/28/2014 13:00

**5. Data Summary:** This report provides a data summary of all sensors each site status view of data for specific Date.

Your select criteria should include Date/time, State and District.



19/7/2014

Dash Board		Admin Tasks		Station Management		Reporting		Edit Profile		Logout															
Select Date Range		All Data Summary																							
From	To	Day	Client ID	District	Mandal	Location	Latitude	Longitude	Temperature (°C)	Humidity (%)	Local Pressure (millibar)	MSL Pressure (millibar)	Wind Speed (kmph)	Wind Direction (degrees)											
27/6/2014	27/6/2014	06/27/2014	10214	Karimnagar	Korutla	Korutla	18.822739	78.710190	29.793807	34.583707	54.6343	59.9661	18971.06968	921000.221005	5.210030	0.0	7.34	2.78	8.3241.2	33.7					
		06/27/2014	10226	Karimnagar	Kataram	Kataram	18.626808	79.940246	26.593209	29.054217	74.7867	79.9858	86990.24988	231002.39	1007.0	1004.91	0.0	4.19	0.29	11.3356	6274.2				
		06/27/2014	10262	Karimnagar	Ramagundam	Ramagundam	18.748747	79.447204	24.8934	34.319544	13.84	36.55	61.981	56.986	52.983	691002.351008	0.021004	6.3	0.0	0.07	0.01	38.2347	1169.0		
		06/27/2014	10264	Karimnagar	Sultanabad	Sultanabad	18.525722	79.321030	26.7938	18.32	43.90269	52.54	27.976	1900.829	78.921000	071005	7.31003	4.3	0.0	12.42	2.79	1.4253	0164.3		
		06/27/2014	10266	Karimnagar	Karimnagar	Dursheed	18.459154	79.188736	24.0738	99.30	33.0975	94.56	84.971	62.976	81.974	381000	231007	0.41003	9.1	0.0	7.12	26.4	49.3350	4197.1	
		06/27/2014	10269	Karimnagar	Manakondur	Manakondur	18.401127	79.187935	25.2435	22.30	33.49	15.73	44.60	16.970	62.974	84.972	72	999.45	1004.59	1002.08	0.0	8.46	0.71	8.3332	9120.4
		06/27/2014	10272	Karimnagar	Huzurabad	Huzurabad	18.201547	79.399903	22.5435	71.29	20.40	04.84	22.59	94.968	54.974	41.972	58	996.84	1004.06	1001.62	0.0	12.35	4.42	4.3360	0172.9
		06/27/2014	10274	Karimnagar	Jammikunta	Jammikunta	18.289992	79.473831	23.5134	36.29	12.42	26.83	43.59	52.974	94.980	05.977	321000	791006	831003	6.5	0.0	11.01	1.73	31.4261	4
		06/27/2014	10280	Karimnagar	Husnabad	Husnabad	18.129158	79.210418	27.163	08.031	46.26	53.67	32.44	79.963	43.968	06.966	21	999.32	1005.41	1003.0	0.0	11.39	4.59	1.7547	1182.0
		06/27/2014	10283	Karimnagar	Kamalapur	Shanigaram	18.187909	79.606636	22.7635	71.30	43.37	94.81	49.54	01.962	82.969	77.965	69	999.18	1008.03	1002.81	1.65	46.06	17.9	4.6345	1718.4
		06/27/2014	10284	Karimnagar	Ellanthakunta	Ellanthakunta	18.311313	78.954002	22.8836	51.30	53.28	11.62	84.44	72.961	43	967.965	52	993.32	1000.51	998.12	0.0	16.1	4.63	13.6344	8221.3
		06/27/2014	10287	Karimnagar	Yellareddipeta	Ellareddipeta	18.373528	78.656517	23.6437	76.6101	13.02	07.77	94.53	34.959	97.964	94.962	54	993.46	999.95	996.78	0.0	17.64	4.01	39.4118	5
		06/27/2014	10290	Karimnagar	Sirsilla	Sirsilla	18.389104	78.813858	23.1939	65.51	29.23	42.76	71.49	76.963	42.970	09.966	62	1000.11	1008.93	1004.47	0.0	16.54	5.53	1.6358	8198.0
		06/27/2014	10293	Karimnagar	Vemulawada	Mallaram	18.498506	78.817024	24.5638	02.31	46.26	53.67	32.44	79.963	43.968	06.966	21	999.32	1005.41	1003.0	0.0	11.39	4.59	1.7547	1182.0
		06/27/2014	10300	Karimnagar	Ibrahimpatnam	Godhuru	18.892873	78.623414	26.438	86.31	77.31	68.74	01.51	98.968	63.973	29	971.31	1001.56	1007.35	1005.09	0.0	11.54	2.27	12.5328	4158.9
		06/27/2014	10302	Karimnagar	Kodimal	Pudur	18.623989	78.957932	27.7336	72.32	58.39	24.68	49.49	03.956	88.960	42.958	69	997.4	1002.1	999.63	0.0	7.42	2.95	3.9355	3200.0
		06/27/2014	10303	Karimnagar	Jagtlal	Jagtlal	18.796416	78.915053	24.0836	71.29	98.36	76.81	13.58	43.969	47.974	14.972	041000	111005	921003	4.5	0.0	11.09	2.19	2.3359	5125.1
		06/27/2014	10305	Karimnagar	Dharmaram	Dharmaram	18.730871	79.191559	22.9237	23.29	92.41	66.81	53.61	35.979	04.984	18.981	821001	451007	481004	7.9	0.0	13.08	3.56	17.1319	0134.2
		06/27/2014	10306	Karimnagar	Dharmapur	Dharmapur	18.948107	79.098977	25.4438	19.91	33.00	63.74	78.53	44	978.1983	49.981	25	996.72	1002.79	1000.28	0.0	9.51	3.21	72.2188	6
		06/27/2014	10307	Karimnagar	Bejanki	Bejanki	18.253874	79.021172	22.4135	69.92	43.84	94.25	64.5964	17.969	75.966	631000	811008	261004	0.9	0.0	12.35	5.15	0.6359	0139.5	
		06/27/2014	10311	Karimnagar	Bheemadavarpalle	Bheemadavarpalle	18.087243	79.340946	22.4335	73.29	38.43	52.93	08.64	58.967	87.972	27.970	351001	091006	721004	3.8	0.0	10.46	3.24	17.6313	99.4
		06/27/2014	10317	Karimnagar	Boinpalle	Boinpalle	18.512431	78.938972	25.74	37.93	21.16	89.74	76.56	02.964	34.968	77.966	97	1001.27	1007.13	1004.84	0.0	14.0	8.19	2.6306	1
		06/27/2014	10319	Karimnagar	Chandurthi	Marragadda	18.551208	78.783386	24.9339	27.231	83.33	79.78	47.54	08.959	44.963	65.962	01	998.08	1003.72	1001.63	0.0	9.18	2.59	27.2315	8185.3
		06/27/2014	11080	Karimnagar	Chigurumamidi	Chigurumamidi	18.236585	79.198784	23.8336	27.80	61.40	63.85	61.59	14.966	32.970	54.968	69	1001.11	1006.64	1000.19	0.0	14.31	6.34	20.9355	1210.4
		06/27/2014	11081	Karimnagar	Choppadandi	Arnakonda	18.576761	79.169258	24.5367	57.00	50.40	68.84	14.62	41.968	35.973	36.971	0.0	1000.41	1006.84	1003.86	0.0	16.7	4.35	3.	

## OBEL Weather Monitoring System

6. **Data Analysis::** This report provides a receiving data analysis of all sensors each site status view of data for specific Time Period.

Your select criteria should include Date/time, State and District.

enviroN 24/7/2014

Select Date Range		Data Analysis (Sensors)												
From	To	Day	Client Id	District	Mandal	Location	Latitude	Longitude	Data	Temp	Rainfall	Humidity	Pressure	Wind
27/6/2014		06/27/2014	10001	Ranga Reddy	Ghatkesar	Moulali	17.462824	78.559748	24	24	24	18	24	24
		06/27/2014	10002	Ranga Reddy	Rajendranagar	Sivaramapalle	17.331760	78.436567	24	24	24	24	24	24
		06/27/2014	10004	Guntur	Krosuru	Krosuru	16.543224	80.140671	24	24	24	24	24	24
		06/27/2014	10005	Ranga Reddy	Ibrahimpatnam	Ibrahimpatnam	17.196867	78.650336	15	15	15	15	15	15
		06/27/2014	10006	Ranga Reddy	Jubli Hills	JubileeHills	17.415857	78.407463	24	24	24	24	24	24
		06/27/2014	10007	Ranga Reddy	Hayatnagar	Turkamjal	17.268061	78.577751	23	23	23	23	23	23
		06/27/2014	10008	Ranga Reddy	Shamsabad	ShamsabadAP	17.260065	78.397705	23	23	23	23	23	23
		06/27/2014	10009	Ranga Reddy	Chandrayanigutta	Chandrayangutta	17.255251	78.552882	16	16	16	16	0	16
		06/27/2014	10010	Ranga Reddy	Saroomagar	Mamidipalle	17.252227	78.451588	24	24	24	24	24	24
		06/27/2014	10011	Ranga Reddy	Malkaram	Malkaram	17.249896	78.276871	23	23	23	23	23	23
		06/27/2014	10012	Ranga Reddy	Chilakal Guda	ChilakalGuda	17.428198	78.536077	24	24	24	24	24	24
		06/27/2014	10013	Ranga Reddy	Uppal	BandiGuda	17.370978	78.569482	23	23	23	23	23	23
		06/27/2014	10014	Ranga Reddy	Serilingampalle	Madhapur	17.429387	78.377919	22	22	22	22	22	22
		06/27/2014	10015	Guntur	Phirangipuram	Phirangipuram	16.289606	80.263794	24	24	24	24	24	24
		06/27/2014	10016	Ranga Reddy	Chevella	Dharmasagar	17.345391	78.162426	10	10	10	10	10	10
		06/27/2014	10017	Ranga Reddy	Pargi	Pargi	17.179701	77.875725	24	24	24	24	24	24
		06/27/2014	10018	Ranga Reddy	Tandur	Tandur	17.256293	77.583559	24	24	24	24	24	24
		06/27/2014	10019	Ranga Reddy	Kulkacharla	Puttapahad	16.957798	77.866675	24	24	24	24	24	24
		06/27/2014	10020	Mahabub Nagar	Kodangal	Kodangal	17.105146	77.630219	24	24	24	24	24	24
		06/27/2014	10021	Mahabub Nagar	Madidur	Madidur	15.913070	77.892054	23	23	23	23	23	23
		06/27/2014	10022	Mahabub Nagar	Mahabubnagar	MahabubNagar	16.757003	77.937261	17	17	17	17	0	17
		06/27/2014	10023	Mahabub Nagar	Manikal	Manikal	16.602035	77.730166	19	0	19	0	19	19
		06/27/2014	10024	Mahabub Nagar	Makthal	Makthal	16.502992	77.515548	3	3	3	3	3	3
		06/27/2014	10025	Mahabub Nagar	Atmakur	Amarchinthal	16.374295	77.777748	23	23	23	23	23	23
		06/27/2014	10026	Mahabub Nagar	Gadwal	Gadwal	16.238741	77.795459	15	15	15	15	15	15
		06/27/2014	10027	Mahabub Nagar	Jadcherla	Jadcherla	16.773656	78.137062	24	24	24	24	24	24
		06/27/2014	10028	Kurnool	Kurnool	Dimmedavarapadu(Apcarbides)	15.772614	78.037511	24	24	24	24	24	24
		06/27/2014	10029	Mahabub Nagar	Alampur	Alampur	15.880814	78.135100	24	24	24	8	24	24
		06/27/2014	10030	Mahabub Nagar	Midjil	Midjil	16.741184	78.319259	19	19	19	19	19	19
		06/27/2014	10031	Mahabub Nagar	Veepanagandla	Peddadagada	16.050815	78.164246	20	20	20	20	20	20
		06/27/2014	10032	Mahabub Nagar	Wanaparthy	Wanaparthy	16.364667	78.064991	23	23	23	23	23	23
		06/27/2014	10033	Mahabub Nagar	Kalawakurthy	Kalawakurthy	16.662454	78.492778	18	18	18	18	18	18
		06/27/2014	10034	Visakapatnam	Pedabavalu	Pedabavalu	18.284120	82.589722	24	18	24	18	24	24

**Reporting Percentage:** This report provides a receiving data analysis by percentage of each site status view of data for specific Time Period.

Your select criteria should include Date/time, State, District and particular percentage.

# OBEL Weather Monitoring System

Client Id	District	Mandal	Location	Latitude	Longitude	Messages Received
10158	Adilabad	Adilabad	Adilabad	19.672810	78.537277	90%
12027	Adilabad	Adilabad	Adilabad_RG	17.875213	79.972305	100%
11399	Adilabad	Adilabad	Ramnagar	19.686111	78.505833	100%
10629	Adilabad	Asifabad	Asifabad	19.357420	79.296883	100%
10630	Adilabad	Bazarhathnoor	Bazarhathnoor	19.457329	78.351195	100%
10631	Adilabad	Bejur	Bejur	19.348011	79.866326	100%
10633	Adilabad	Bela	Bela	19.721098	78.771942	100%
11929	Adilabad	Bela	Mangrud	19.770217	78.856483	100%
10634	Adilabad	Bellampalle	Bellampalle	19.068744	79.490284	100%
10150	Adilabad	Bhainsa	Bhainsa	19.119223	77.962135	100%
11382	Adilabad	Bhainsa	Wanalphad	19.102222	78.034722	90%
11396	Adilabad	Bheemini	Janakapur	19.117222	79.576667	100%
10635	Adilabad	Bheemini	Kannepalli	19.147778	79.668869	100%
10435	Adilabad	Boath	Boath	19.247397	78.321808	100%
11383	Adilabad	Boath	Sonala	19.416111	78.318333	90%
10636	Adilabad	Chennur	Chennur	18.855522	79.795982	100%
10992	Adilabad	Chennur	Kommara	18.762337	79.791328	100%
10637	Adilabad	Dahegaon	Dahegaon	19.270634	79.716194	100%
11384	Adilabad	Dandepalle	Dandepalle	18.997222	79.151389	100%
10638	Adilabad	Dandepalle	Velaganuru	18.939728	79.131256	100%
10625	Adilabad	Dilawarpur	Dilawarpur	19.089273	78.227737	100%
10639	Adilabad	Gudhathnur	Gudhathnur	19.529233	78.516830	100%
10310	Adilabad	Ichoda	Ichoda	19.428655	78.455658	100%
10640	Adilabad	Inderavelly	Inderavelly	19.492689	78.674728	100%
11385	Adilabad	Jainad	Bhoraj	19.737500	78.539167	90%
10641	Adilabad	Jainad	Jainad	19.733220	78.644119	100%
10642	Adilabad	Jainoor	Jainoor	19.371261	78.908852	30%
11400	Adilabad	Jaipur	Bheemavaram	18.818889	79.516667	100%
10643	Adilabad	Jaipur	Jaipur	18.849342	79.580552	100%
10993	Adilabad	Jaipur	Kundaram	18.761908	79.612804	90%
10644	Adilabad	Jannaram	Jannaram	19.119281	78.999504	100%
11401	Adilabad	Kaddampeddur	Dasturbad	19.085556	78.865278	100%

7. **AWS Detailed Data:** This report provides a receiving detailed data analysis by Hourly of each site status view of data for specific Date Time Period.

Your select criteria should include Date/time, State and District.

Client ID	District	Mandal	Location	Date	Latitude	Longitude	Temperature (°C)	Humidity (%)	Wind Speed (kmph)	Wind Direction (degrees from north)	Local Pressure (millibar)	MSLP (millibar)	Cummulative Rainfall (mm)	Hourly Rainfall (mm)
10135	Adilabad	Mancherial	Mancherial	06/27/2014 00:00:02	18.876317	79.446472	27.21	62.68	0.0	334.8	987.75	1004.53	0.0	0.0
10135	Adilabad	Mancherial	Mancherial	06/27/2014 01:00:01	18.876317	79.446472	26.5	65.56	0.0	25.7	987.76	1004.58	0.0	0.0
10135	Adilabad	Mancherial	Mancherial	06/27/2014 02:00:07	18.876317	79.446472	26.56	68.59	0.0	359.5	987.27	1004.08	0.0	0.0
10135	Adilabad	Mancherial	Mancherial	06/27/2014 03:00:07	18.876317	79.446472	26.52	70.45	0.0	99.1	986.76	1003.56	0.0	0.0
10135	Adilabad	Mancherial	Mancherial	06/27/2014 04:00:06	18.876317	79.446472	26.84	70.48	0.0	198.7	987.65	1004.45	0.0	0.0
10135	Adilabad	Mancherial	Mancherial	06/27/2014 05:00:07	18.876317	79.446472	26.58	71.37	0.0	238.3	987.88	1004.69	0.0	0.0
10138	Adilabad	Luxettipet	Luxettipet	06/27/2014 00:00:00	18.886763	79.208908	24.72	78.31	0.0	295.1	986.73	1004.78	10.75	0.0
10138	Adilabad	Luxettipet	Luxettipet	06/27/2014 01:00:00	18.886763	79.208908	25.27	75.64	0.0	357.8	986.69	1004.71	10.75	0.0
10138	Adilabad	Luxettipet	Luxettipet	06/27/2014 02:00:00	18.886763	79.208908	25.68	75.74	0.08	149.4	986.59	1004.58	10.75	0.0
10138	Adilabad	Luxettipet	Luxettipet	06/27/2014 03:00:00	18.886763	79.208908	25.76	77.95	0.0	58.8	986.24	1004.22	10.75	0.0
10138	Adilabad	Luxettipet	Luxettipet	06/27/2014 04:00:00	18.886763	79.208908	25.75	77.34	0.0	148.5	986.42	1004.4	10.75	0.0
10138	Adilabad	Luxettipet	Luxettipet	06/27/2014 05:00:00	18.886763	79.208908	25.82	80.21	0.0	207.2	986.81	1004.8	10.75	0.0
10145	Adilabad	Khanpur	Khanpur	06/27/2014 00:00:00	19.040611	78.655129	28.67	55.69	0.0	308.0	976.48	1004.75	0.0	0.0
10145	Adilabad	Khanpur	Khanpur	06/27/2014 02:00:00	19.040611	78.655129	27.6	62.91	0.0	277.1	975.96	1004.32	0.0	0.0
10145	Adilabad	Khanpur	Khanpur	06/27/2014 03:00:00	19.040611	78.655129	27.34	66.94	0.0	345.2	975.64	1004.01	0.0	0.0
10145	Adilabad	Khanpur	Khanpur	06/27/2014 04:00:00	19.040611	78.655129	27.16	69.58	0.0	329.1	975.93	1004.33	0.0	0.0

All the reports are menu driven – you should be able to figure out what the report fetches for you

# OBEL Weather Monitoring System

Received Time	Operator	Message	UniquelID
17-11-20 15:30:51	http	*wsysse_R10A,OB-0002,016572,1711201530,0+12.9-02+09+0+0x0000,R+0.00,H+5.051,V+0.701+81.090?	29786900
17-11-20 15:30:45	http	*wstest_R10A,TWAD-0002,008505,1711201530,0+12.9-12+11+0+0x0000,R+0.00,E+167.8+0095,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786899
17-11-20 15:30:44	http	*wsysse_R10A,OB-0001,017150,1711201530,0+13.2+118+09+0+0x0000,R+0.00,H+7.723,V+0.458+83.960?	29786898
17-11-20 15:30:33	http	*wsysse_R10A,OB-0004,005006,1711201530,0+13.0+07+22+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786896
17-11-20 15:30:31	http	*wstest_R10A,TWAD-0004,015112,1711201530,0+13.0+10+26+0+0x0000,R+0.00,E+119.5+0212,W+047+00.1+100+00.6+080+01.2+074+02.2,T+32.5+32.7+32.8+60-0999?	29786895
17-11-20 15:30:27	http	*wstest_R10A,TWAD-0005,014897,1711201530,0+13.0+18+26+0+0x0000,R+0.00,E+204.5+0200,W+002+00.2+153+01.1+286+01.6+271+03.0,T+32.0+32.0+32.9+68-0999?	29786894
17-11-20 15:30:24	http	*wsysse_R10A,OB-0006,009500,1711201530,0+12.9-00+26+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786892
17-11-20 15:30:22	http	*wsysse_R10A,OB-0005,010093,1711201530,0+12.9+08+29+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786891
17-11-20 15:30:22	http	*wsysse_R10A,OB-0008,009446,1711201530,0+12.9+06+17+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786890
17-11-20 15:30:19	http	*wstest_R10A,TWAD-0003,015021,1711201530,0+12.8-16+16+0+0x0000,R+0.00,E+000.5+0194,W+310+00.1+104+00.2+088+00.3+115+00.6,T+37.0-999.0+38.2-999-0999?	29786888
17-11-20 15:29:52	http	*wstest_R10A,TWAD-0001,015378,1711201530,0+13.2+250+31+0+0x0000,R+0.00,E+208.5+0072,W+095+00.7+105+01.3+115+02.0+140+04.3,T+30.3+30.3+30.4+74-0999?	29786887
17-11-20 15:29:48	http	*wstest_R10A,TWAD-0002,008505,1711201520,0+12.9-15+11+0+0x0000,R+0.00,E+165.5+0086,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786883
17-11-20 15:29:30	http	*wstest_R10A,TWAD-0005,014896,1711201520,0+13.4+652+25+0+0x0000,R+0.00,E+205.5+0208,W+000+00.1+170+00.2+165+00.4+244+01.5,T+32.5+32.9+32.9+65-0999?	29786882
17-11-20 15:29:28	http	*wstest_R10A,TWAD-0004,015111,1711201520,0+13.1+10+26+0+0x0000,R+0.00,E+119.5+0210,W+049+00.3+077+00.8+074+01.2+086+03.0,T+32.1+32.5+32.5+60-0999?	29786880
17-11-20 15:29:21	http	*wstest_R10A,TWAD-0003,015020,1711201520,0+12.9-06+14+0+0x0000,R+0.00,E+000.5+0173,W+090+00.0+141+00.2+141+00.5+148+00.9,T+37.0-999.0+38.2-999-0999?	29786879
17-11-20 15:19:52	http	*wstest_R10A,TWAD-0001,015377,1711201520,0+13.2+269+31+0+0x0000,R+0.00,E+208.5+0072,W+113+01.1+111+01.5+113+02.0+131+04.3,T+30.4+30.4+30.4+72-0999?	29786875
17-11-20 15:10:47	http	*wstest_R10A,TWAD-0002,008504,1711201510,0+12.8-13+13+0+0x0000,R+0.00,E+161.5+0095,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786876
17-11-20 15:10:34	http	*wstest_R10A,TWAD-0003,015019,1711201510,0+12.8-22+14+0+0x0000,R+0.00,E+000.5+0115,W+136+00.2+139+00.3+153+00.5+185+01.0,T+37.0-999.0+38.2-999-0999?	29786854
17-11-20 15:10:30	http	*wstest_R10A,TWAD-0004,015110,1711201510,0+12.9-06+26+0+0x0000,R+0.00,E+119.5+0281,W+083+00.0+072+00.3+076+00.8+074+02.2,T+32.4+32.4+32.4+60-0999?	29786852
17-11-20 15:10:29	http	*wstest_R10A,TWAD-0005,014895,1711201510,0+13.1+8+26+0+0x0000,R+0.00,E+205.5+0232,W+131+00.1+133+00.3+242+00.8+276+01.9,T+30.4+30.4+32.9+64-0999?	29786851
17-11-20 15:09:54	http	*wstest_R10A,TWAD-0001,015376,1711201510,0+13.2+283+31+0+0x0000,R+0.00,E+208.5+0067,W+090+01.6+110+02.0+112+02.7+056+06.2,T+30.4+30.4+31.0+100-0999?	29786848
17-11-20 15:09:13	http	*wstest_R10A,HSR-0001,007750,1711201500,0+13.1+241+25+0+0x0000,R+0.00,E+152.5+0060,W+080+01.7+09.3+30.6+30.6+31.9+77+1008.4,M+00+86+78+65.7,L+0+704?	29786837
17-11-20 15:00:50	http	*wstest_R10A,OB-0001,017149,1711201500,0+12.9-04+11+0+0x0000,R+0.00,H+5.053,V+0.864+81.090?	29786836
17-11-20 15:00:48	http	*wsysse_R10A,OB-0001,017149,1711201500,0+12.9+00+08+0+0x0000,R+0.00,H+2.731,V+0.000-1.900?	29786835
17-11-20 15:00:43	http	*wstest_R10A,TWAD-0002,008503,1711201500,0+12.9-29+12+0+0x0000,R+0.00,E+158.5+0097,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786834
17-11-20 15:00:32	http	*wstest_R10A,TWAD-0003,015018,1711201500,0+12.9-07+15+0+0x0000,R+0.00,E+000.5+0148,W+107+00.3+126+00.3+107+00.4+136+00.7,T+37.0-999.0+38.2-999-0999?	29786825
17-11-20 15:00:28	http	*wstest_R10A,TWAD-0004,015109,1711201500,0+13.0+09+26+0+0x0000,R+0.00,E+119.5+0281,W+083+00.0+072+00.3+076+00.8+074+02.2,T+32.4+32.4+32.4+60-0999?	29786823
17-11-20 15:00:27	http	*wstest_R10A,TWAD-0005,014894,1711201500,0+13.1+8+26+0+0x0000,R+0.00,E+205.5+0232,W+131+00.1+133+00.3+242+00.8+276+01.9,T+30.4+30.4+32.9+64-0999?	29786822
17-11-20 15:00:27	http	*wsysse_R10A,OB-0004,005005,1711201500,0+12.9+10+21+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786821
17-11-20 15:00:27	http	*wsysse_R10A,OB-0006,009499,1711201500,0+12.9-04+24+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786820
17-11-20 15:00:27	http	*wsysse_R10A,OB-0003,005183,1711201500,0+12.9+05+16+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786819
17-11-20 15:00:24	http	*wsysse_R10A,OB-0008,009445,1711201500,0+13.0+04+17+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786827
17-11-20 15:00:20	http	*wsysse_R10A,OB-0005,010092,1711201500,0+12.9+06+29+0+0x0000,R+0.00,H+999-999-9-999-999-999?	29786826
17-11-20 15:00:20	http	*wstest_R10A,TWAD-0003,015018,1711201500,0+12.9-07+15+0+0x0000,R+0.00,E+000.5+0148,W+107+00.3+126+00.3+107+00.4+136+00.7,T+37.0-999.0+38.2-999-0999?	29786825
17-11-20 14:59:55	http	*wstest_R10A,TWAD-0001,015375,1711201500,0+13.2+277+31+0+0x0000,R+0.00,E+208.5+0080,W+086+00.1+115+01.9+115+02.8+108+04.0,T+31.0+31.0+31.0+100-0999?	29786823
17-11-20 14:56:26	http	*wstest_R10A,HSR-0004,003805,1711201500,0+12.9-30+18+0+0x0000,R+0.00,E+334.5+0127,W+128+00.0+00.0,T+29.5+29.5+31.8+78+990.2,M+52+57+49+25.2,L+1+10?	29786818
17-11-20 14:50:44	http	*wstest_R10A,TWAD-0002,008502,1711201450,0+13.0-13+12+0+0x0000,R+0.00,E+156.5+0107,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786810
17-11-20 14:50:33	http	*wstest_R10A,TWAD-0004,015108,1711201450,0+13.0-20+26+0+0x0000,R+0.00,E+119.5+0286,W+180+00.0+018+00.2+357+00.4+084+00.9,T+32.5+33.6+33.6+57-0999?	29786809
17-11-20 14:50:32	http	*wstest_R10A,TWAD-0005,014894,1711201450,0+13.1+8+26+0+0x0000,R+0.00,E+205.5+0232,W+131+00.1+133+00.3+242+00.8+276+01.9,T+30.4+30.4+32.9+64-0999?	29786808
17-11-20 14:50:22	http	*wstest_R10A,TWAD-0003,015017,1711201450,0+12.9+18+18+0+0x0000,R+0.00,E+000.5+0177,W+086+00.2+113+00.3+133+00.6+152+00.9,T+37.0-999.0+38.2-999-0999?	29786806
17-11-20 14:49:54	http	*wstest_R10A,TWAD-0001,015374,1711201450,0+13.2+284+31+0+0x0000,R+0.00,E+208.5+0084,W+086+00.1+149+00.5+299+01.0,T+32.3+32.3+32.5+100-0999?	29786805
17-11-20 14:40:44	http	*wstest_R10A,TWAD-0002,008501,1711201440,0+13.1+0+15+13+0+0x0000,R+0.00,E+157.5+0135,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786797
17-11-20 14:40:28	http	*wstest_R10A,TWAD-0004,015107,1711201440,0+13.1+0+23+0+0x0000,R+0.00,E+119.5+0183,W+000+00.0+058+00.0+071+00.7+070+02.7,T+31.8+32.3+32.3+62-0999?	29786796
17-11-20 14:40:27	http	*wstest_R10A,TWAD-0005,014892,1711201440,0+12.9-22+25+0+0x0000,R+0.00,E+205.5+0295,W+101+00.1+260+00.6+277+01.4+274+02.5,T+32.4+32.9+32.9+64-0999?	29786795
17-11-20 14:40:19	http	*wstest_R10A,TWAD-0003,015016,1711201440,0+12.9-03+14+0+0x0000,R+0.00,E+000.5+0232,W+084+00.2+099+00.4+090+00.5+101+01.0,T+37.0-999.0+38.2-999-0999?	29786793
17-11-20 14:39:58	http	*wstest_R10A,TWAD-0001,015373,1711201440,0+13.2+349+31+0+0x0000,R+0.00,E+208.5+0112,W+093+00.4+237+00.5+288+01.6+286+02.3,T+32.2+32.2+32.4+100-0999?	29786792
17-11-20 14:38:26	http	*wstest_R10A,HSR-0004,003805,1711201400,0+12.9-33+18+0+0x0000,R+0.00,E+334.5+0370,W+233+00.0+00.0,T+30.4+31.8+32.1+66+990.2,M+51+57+49+24.4,L+1+27?	29786791
17-11-20 14:30:50	http	*wsysse_R10A,OB-0002,016570,1711201430,0+12.9-04+09+0+0x0000,R+0.00,H+5.050,V+0.688+81.090?	29786787
17-11-20 14:30:46	http	*wsysse_R10A,OB-0001,017148,1711201430,0+12.9+00+09+0+0x0000,R+0.00,H+2.709,V+0.000-1.800?	29786786
17-11-20 14:30:44	http	*wstest_R10A,TWAD-0002,008500,1711201430,0+13.2+10+13+0+0x0000,R+0.00,E+159.5+0141,W+999-99-9-999-99-9-999-99,9,T+99-99-9-99-9-99-9999?	29786785

## TAMILNADU WATER SUPPLY AND DRAINAGE BOARD

HTTP message
WMS Administrator

obelindia.com/twad/jsp/home.jsp
20/11

Dashboard
Admin Tasks
Station Management
Reporting
Edit Profile
Logout

### Station Statistics (Last 12 Hours)

Total: 5  
Working: 5  
Not Working: 0

Legend: 100%+, 90-100%, 80-90%, 70-80%, 60-70%, 50-60%, <50%, Not Working

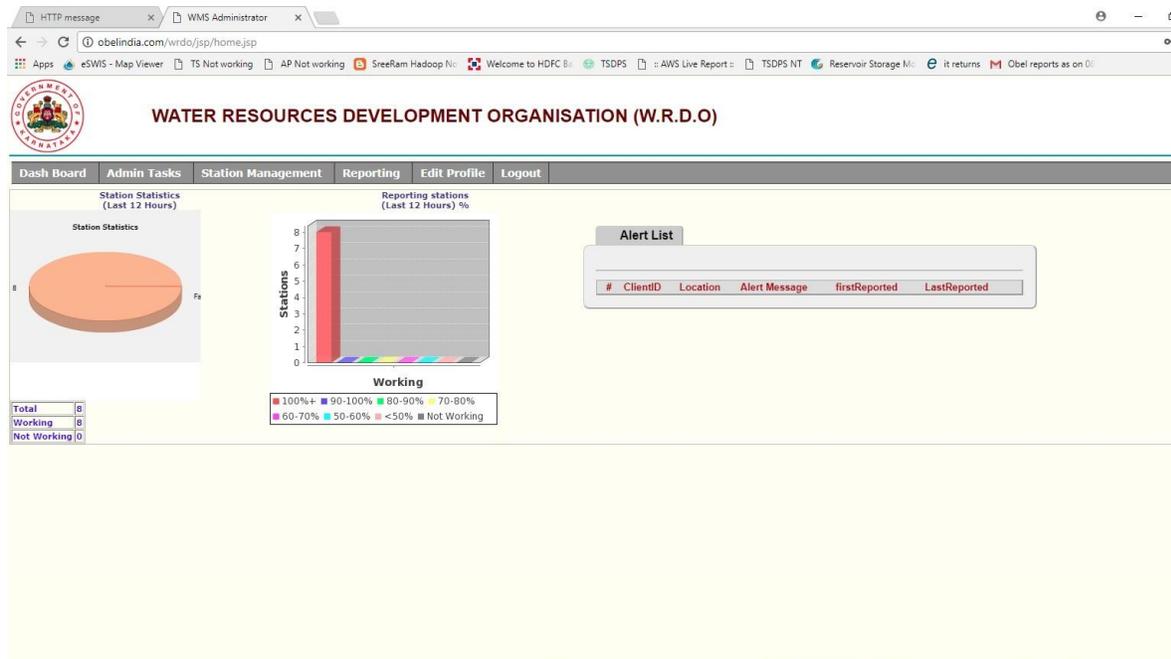
### Reporting stations (Last 12 Hours) %

### Alert List

#	ClientID	Location	Alert Message	firstReported	LastReported
1	5000002	PONANANAN KURICHI	temp value out of Range:99.9	20/11/17 00:10	20/11/17 15:30
2	5000003	VEERANAM	humidity value out of Range:999	20/11/17 00:10	20/11/17 15:30
3	5000003	VEERANAM	temp value out of Range:999.0	20/11/17 00:10	20/11/17 15:30

# OBEL Weather Monitoring System

## ➤ WATER RESOURCES DEVELOPMENT ORGANISATION (W.R.D.O) HASAN, BANGALORE



## ➤ YSR Horticultural University

