

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.

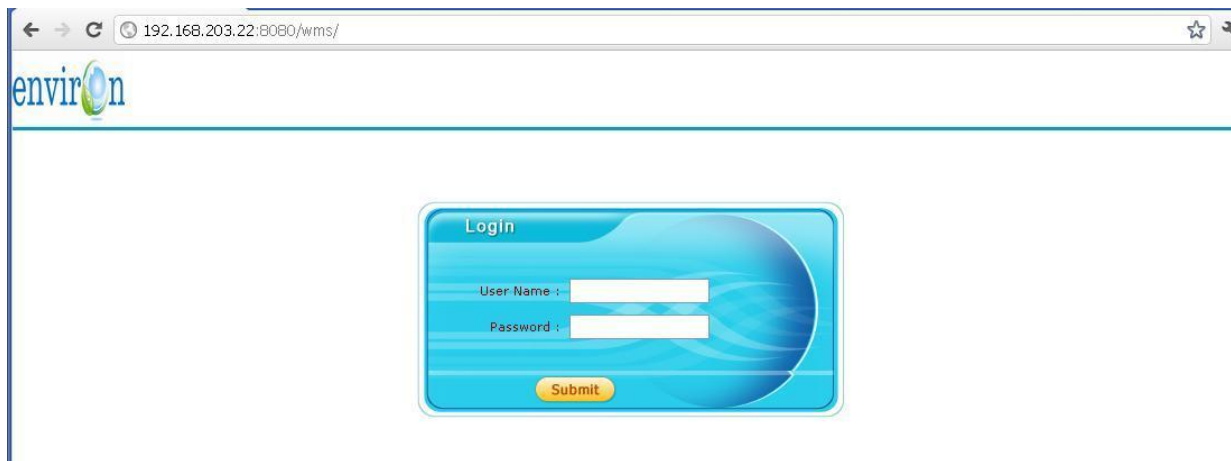
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2. Login

Open you web browser (IE /Chrome/Mozilla)

Type the URL of the application

URL/IP address: _____



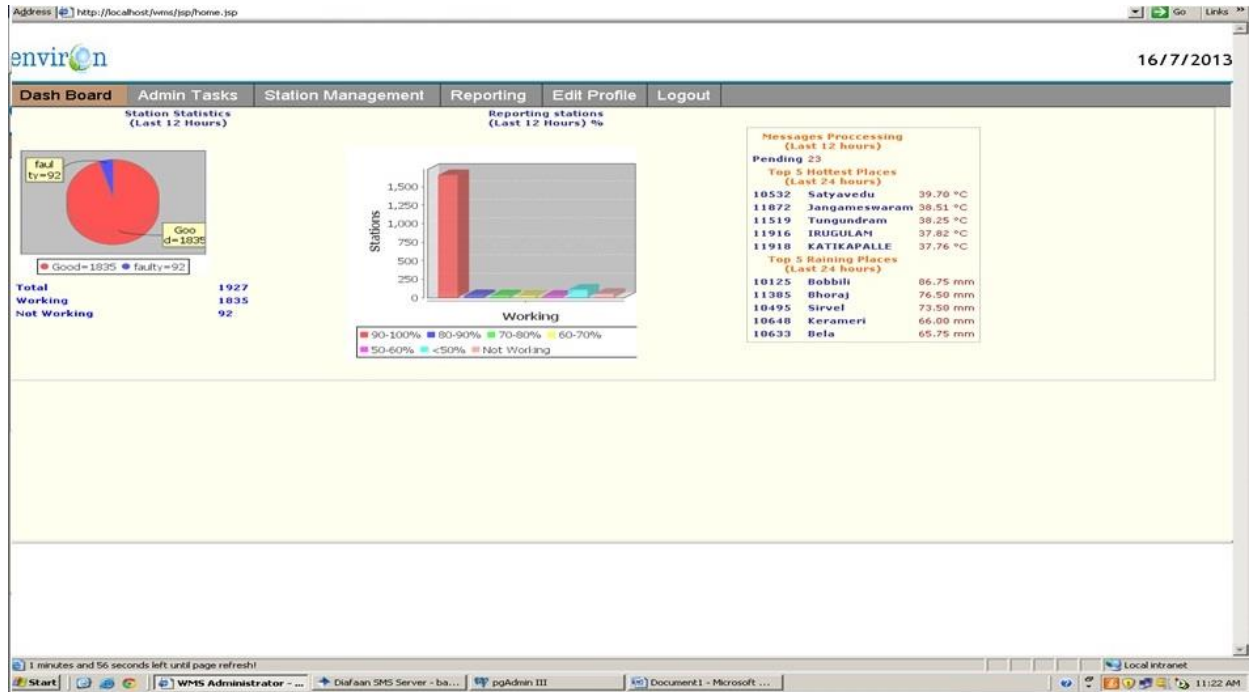
Use the User Name and password assigned to you by the application Administrator to logon into the portal

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 login 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	Vemampalle	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	Kadiam	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)

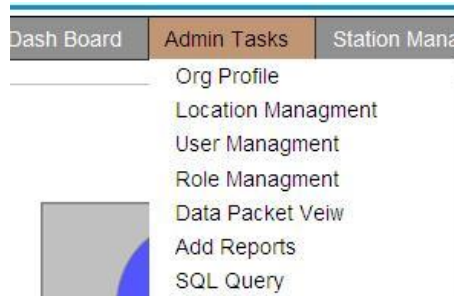
10532	Satyavedu	39.70 °C
11872	Jangameswaram	38.51 °C
11519	Tungundram	38.25 °C
11916	IRUGULAM	37.82 °C
11918	KATIKAPALLE	37.76 °C

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

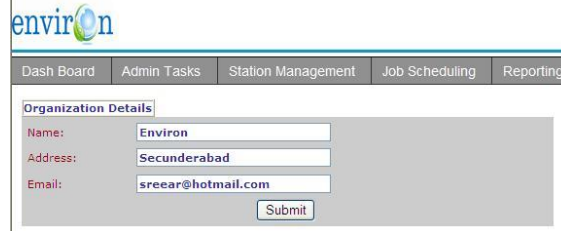
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5. ADMIN MODULE (Admin Tasks)



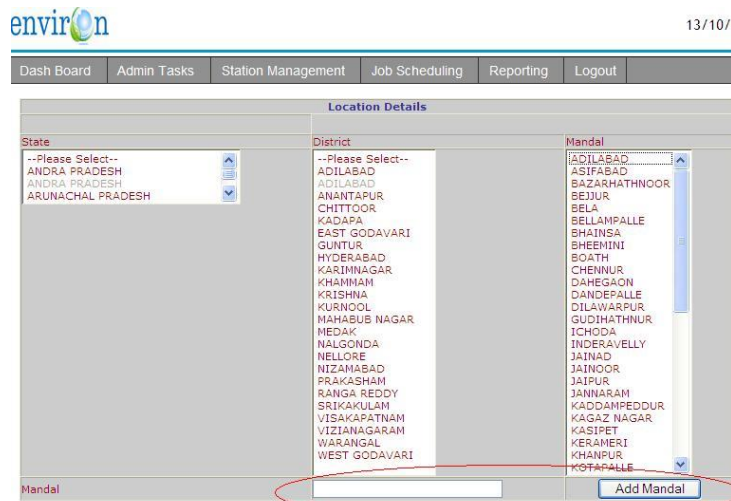
Below are the activities a user can do as a **System Administrator**

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	
User List						
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	
Add User						
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	<input type="text" value="report"/>					
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	
User List						
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"/>	

- 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>>
- 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"/>	Dash Board Admin Tasks Station Management Job Scheduling Reporting
2	report	<input type="radio"/>	Dash Board Admin Tasks Reporting
		<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										
<table border="1"> <thead> <tr> <th colspan="2">Add Role</th></tr> </thead> <tbody> <tr> <td>Role ID</td><td><input type="text" value="3"/></td></tr> <tr> <td>Role Name</td><td><input type="text"/></td></tr> <tr> <td>Menu List</td><td> <input type="checkbox"/> Dash Board <input type="checkbox"/> Admin Tasks <input type="checkbox"/> Station Management <input type="checkbox"/> Job Scheduling <input type="checkbox"/> Reporting </td></tr> <tr> <td colspan="2"> <input type="button" value="Insert"/> <input type="button" value="Cancel"/> </td></tr> </tbody> </table>						Add Role		Role ID	<input type="text" value="3"/>	Role Name	<input type="text"/>	Menu List	<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"/>	
Add Role															
Role ID	<input type="text" value="3"/>														
Role Name	<input type="text"/>														
Menu List	<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)

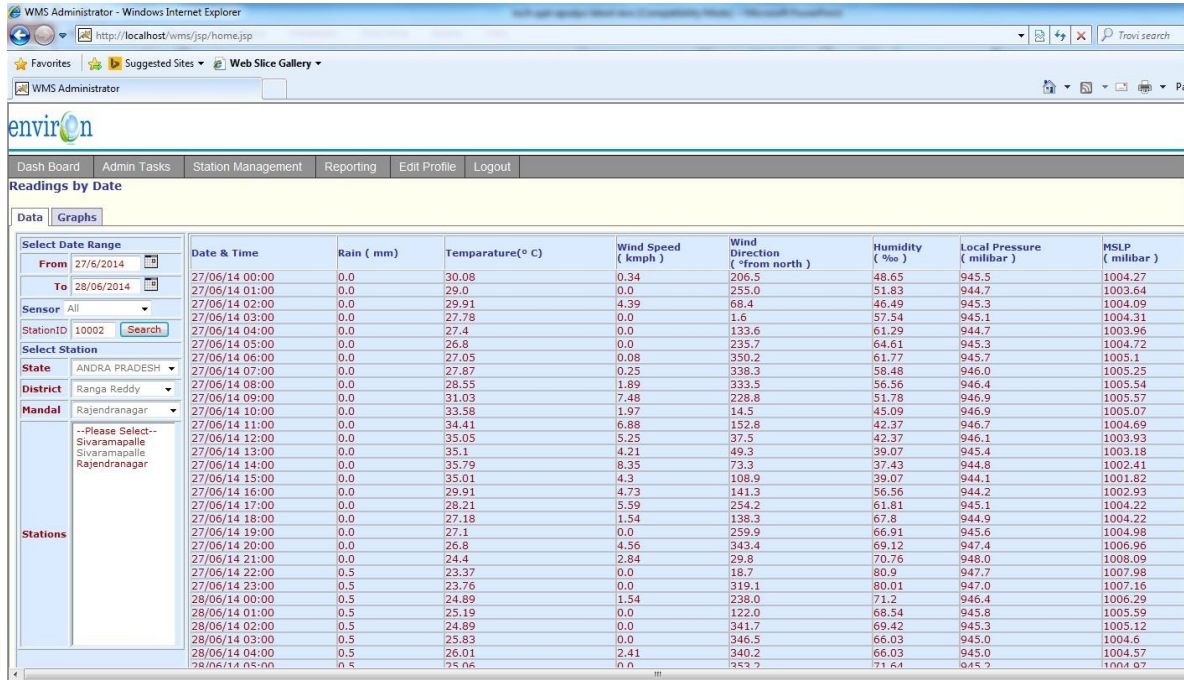
Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout
Edit Role					
Role ID	<input type="text" value="1"/>				
Role Name	<input type="text" value="Admin role"/>				
Menu List	<input checked="" type="checkbox"/> Admin Tasks <input checked="" type="checkbox"/> Reporting <input checked=""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



Date & Time	Rain (mm)	Temperature(° C)	Wind Speed (kmph)	Wind Direction (° from north)	Humidity (%)	Local Pressure (millibar)	MSLP (millibar)
27/06/14 00:00	0.0	30.08	0.34	206.5	48.65	945.5	1004.27
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	68.4	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	353.2	71.64	945.2	1004.97

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 24th 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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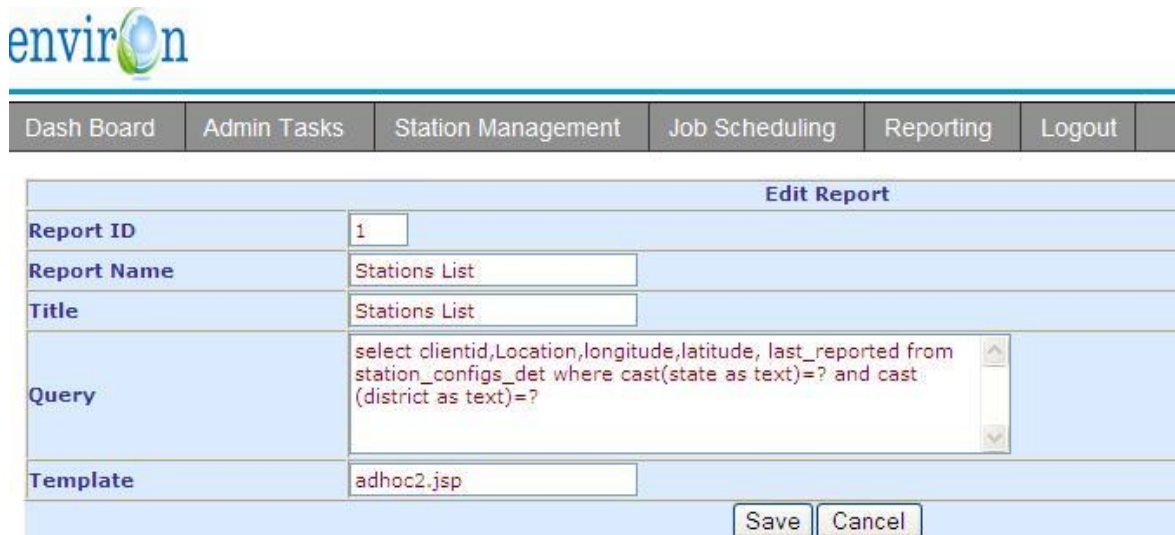
Once a report has been added it will be displayed under reporting Module

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) =?



Edit Report	
Report ID	1
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) =?
Template	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



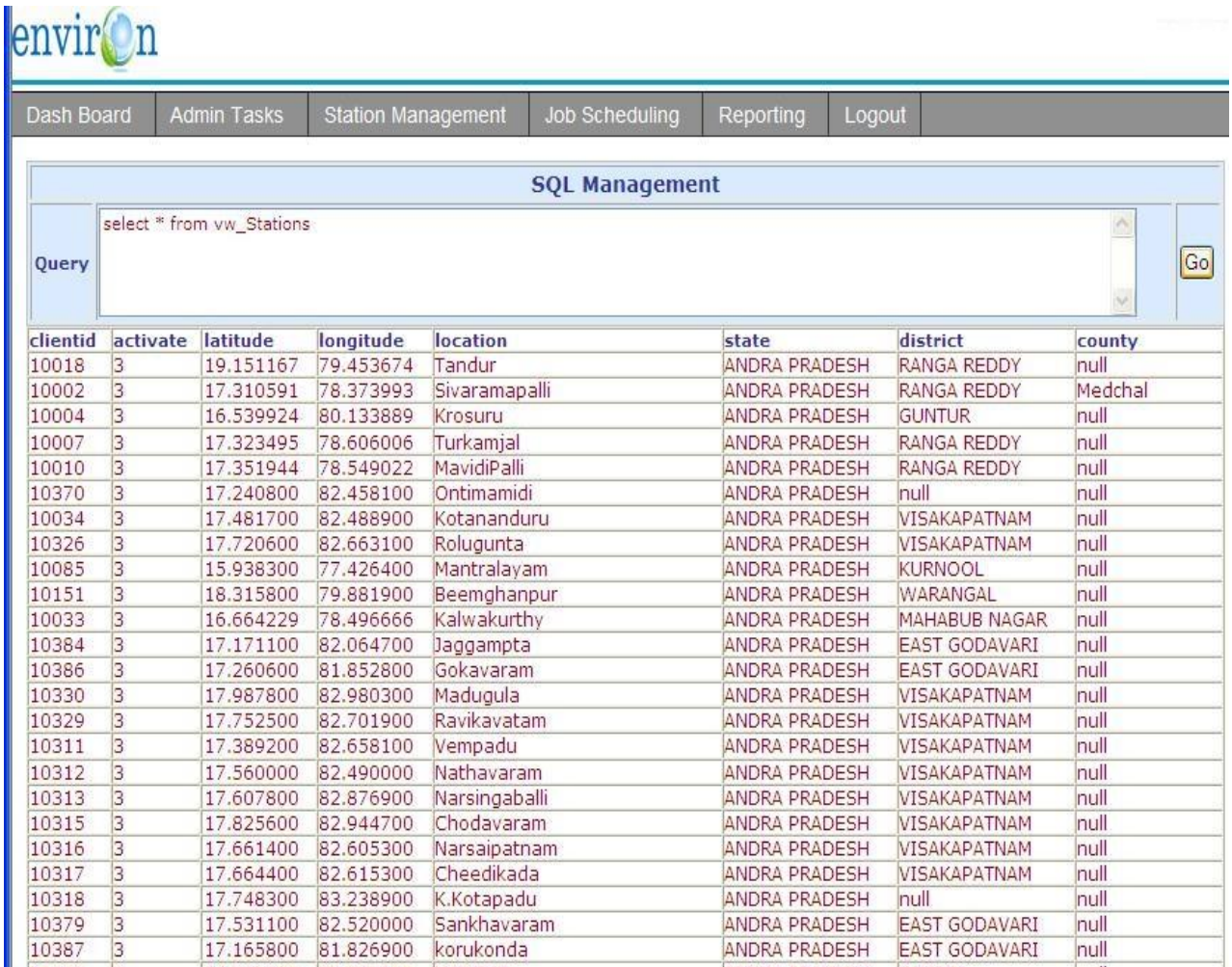
Report ID	Report Name	Title	Query
1	Stations List	Stations List	select clientid, Location, longitude, latitude, last_reported from station_configs_det where cast(state as text)=? and cast (district as text) =?
2	Stations Last Reported	Stations Last Reported	select clientid, Location, longitude, latitude, last_reported from station_configs_det where cast(state as text)=? and cast (district as text) =?

New Edit Delete

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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.



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:

The screenshot shows the Station Details form with the following fields: StationID (0), State (--Please Select--), District (--Please Select--), and Mandal (--Please Select--). There is a Search button and an Add New button at the bottom.




The screenshot shows the Station Details form with the following fields: StationID (0), State (ANDRA PRADESH), District (ADILABAD), and Mandal (JAINAD). There is a Search button and an Add New button at the bottom.




The screenshot shows the Station Details form with the following fields: StationID (0), State (ANDRA PRADESH), District (ADILABAD), and Mandal (--Please Select--). The Mandal dropdown is open, showing a list of stations: Adilabad, ADILABAD, ADILABAD, ADILABAD, ASIFABAD, BAZARHATHNOOR, BEJJUR, BELA, BELLAMPALLE, Bhainsa, BHEEMINI, Boath, CHENNUR, DAHEGAON, DANDEPALLE, GUDIHATHNOOR, ICHODA, INDRAVELLI, and JAINAD. There is a Search button and an Add New button at the bottom.

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


14/10/

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout																																																																		
<div style="display: flex;"> <div style="width: 25%;"> <p>Station Details</p> <p>StationID <input type="text" value="0"/> <input type="button" value="Search"/></p> <p>State <input type="text" value="ANDRA PRADESH"/></p> <p>District <input type="text" value="ADILABAD"/></p> <p>Mandal <input type="text" value="--Please Select--"/></p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> --Please Select-- Adilabad ADILABAD ADILABAD ADILABAD ASIFABAD BAZARHATHNOOR BEJJUR SELA BELLAMPALLE Bhainsa BHEEMINI Boath CHENNUR DAHEGAON DANDEPALLE GUDIHATHNOOR ICHODA INDRAVELLI JAINAD </div> <p><input type="button" value="Add New"/></p> </div> <div style="width: 75%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>ID</td> <td>10626</td> <td>District</td> <td>ADILABAD</td> <td>Mandal</td> <td>null</td> </tr> <tr> <td>Location</td> <td>ADILABAD</td> <td>Location Address</td> <td colspan="3">APSEB Sub-station</td> </tr> <tr> <td>Longitude (Degrees)</td> <td>78.083611</td> <td>Latitude (Degrees)</td> <td>19.030416</td> <td>Altitude (meters)</td> <td>358.00</td> </tr> <tr> <td>Station SIM #</td> <td>9491067232</td> <td>Data Frequency (minutes)</td> <td>60</td> <td>Comm Frequency (minutes)</td> <td>60</td> </tr> <tr> <td>Time 1 (HHMM)</td> <td>0001</td> <td>Time 2 (HHMM)</td> <td>0001</td> <td>Time 3 (HHMM)</td> <td>0001</td> </tr> <tr> <td>Wind Averaging</td> <td>4</td> <td>Rain Calibration</td> <td>81</td> <td>Wind Calibration</td> <td>007</td> </tr> <tr> <td>Server SIM</td> <td>+919491042103</td> <td>Server Backup SIM1</td> <td>+919491042103</td> <td>Server Backup SIM2</td> <td>+919491042103</td> </tr> <tr> <td>Future Expansion</td> <td>Yes</td> <td>Num Settings</td> <td>Yes</td> <td>Numbers</td> <td>Yes</td> </tr> <tr> <td>Activate</td> <td>3</td> <td>Watchdog</td> <td>1</td> <td>Flash</td> <td>0</td> </tr> <tr> <td>Additional Commands</td> <td>1</td> <td>Contact Person</td> <td>Kiran</td> <td>Email</td> <td>reddy1990b@gmail.com</td> </tr> <tr> <td>Last Reported</td> <td colspan="5">18/08/2011 08:00</td> </tr> </table> <div style="display: flex; justify-content: space-between; margin-top: 10px;">  <input type="button" value="Edit"/> </div> </div> </div>						ID	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				
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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


14/11

Dash Board	Admin Tasks	Station Management	Job Scheduling	Reporting	Logout																																																						
<table style="width: 100%;"> <tr> <td>State</td> <td>ANDRA PRADESH</td> <td>District</td> <td>CHITTOOR</td> <td>Mandal</td> <td>Bangarupalem</td> </tr> <tr> <td>ClientID</td> <td><input type="text" value="10827"/></td> <td>Location</td> <td><input type="text"/></td> <td>Address</td> <td><input type="text"/></td> </tr> <tr> <td>Longitude</td> <td><input type="text"/></td> <td>Latitude</td> <td><input type="text"/></td> <td>Altitude</td> <td><input type="text"/></td> </tr> <tr> <td>Station SIM #</td> <td><input type="text"/></td> <td>Data Frequency</td> <td><input type="text"/></td> <td>Comm Frequency</td> <td><input type="text"/></td> </tr> <tr> <td>Time 1</td> <td><input type="text"/></td> <td>Time 2</td> <td><input type="text"/></td> <td>Time 3</td> <td><input type="text"/></td> </tr> <tr> <td>Wind Averaging</td> <td><input type="text"/></td> <td>Rain Calibration</td> <td><input type="text"/></td> <td>Wind Calibration</td> <td><input type="text"/></td> </tr> <tr> <td>Server SIM</td> <td><input type="text"/></td> <td>Server Backup SIM1</td> <td><input type="text"/></td> <td>Server Backup SIM1</td> <td><input type="text"/></td> </tr> <tr> <td>Activate</td> <td><input type="text" value="Yes"/></td> <td>Watchdog</td> <td><input type="text" value="Yes"/></td> <td>Flash</td> <td><input type="text" value="Yes"/></td> </tr> <tr> <td>Additional Commands</td> <td><input type="text"/></td> <td>Contact Person</td> <td><input type="text"/></td> <td>Email</td> <td><input type="text"/></td> </tr> </table> <div style="display: flex; justify-content: center; margin-top: 10px;"> <input type="button" value="insert"/> <input type="button" value="cancel"/> </div>						State	ANDRA PRADESH	District	CHITTOOR	Mandal	Bangarupalem	ClientID	<input type="text" value="10827"/>	Location	<input type="text"/>	Address	<input type="text"/>	Longitude	<input type="text"/>	Latitude	<input type="text"/>	Altitude	<input type="text"/>	Station SIM #	<input type="text"/>	Data Frequency	<input type="text"/>	Comm Frequency	<input type="text"/>	Time 1	<input type="text"/>	Time 2	<input type="text"/>	Time 3	<input type="text"/>	Wind Averaging	<input type="text"/>	Rain Calibration	<input type="text"/>	Wind Calibration	<input type="text"/>	Server SIM	<input type="text"/>	Server Backup SIM1	<input type="text"/>	Server Backup SIM1	<input type="text"/>	Activate	<input type="text" value="Yes"/>	Watchdog	<input type="text" value="Yes"/>	Flash	<input type="text" value="Yes"/>	Additional Commands	<input type="text"/>	Contact Person	<input type="text"/>	Email	<input type="text"/>
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Enter all the relevant information for setting up the station and press <<insert>>

OBEL Weather Monitoring System

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 OBEL Weather Monitoring System interface. At the top, there's a navigation bar with tabs: Dash Board, Admin Tasks, Station Management, Reporting, Edit Profile, and Logout. The date 24/7/2014 is displayed in the top right corner. Below the navigation bar, there's a section for selecting a date range and a station. The date range is set from 27/6/2014 to 28/6/2014. The station is selected as Adilabad in Andhra Pradesh. A dropdown menu for stations is open, showing a list of stations including Adilabad, Arjunagutta, Asifabad, Basar, Bazarhatnoor, Beervelli, Bejpur, Bela, Bellampalle, Bhainsa, Bharampur, Bheemavaram, Bhora, Boath, Borampalle, and Chennur. Below the filters, there's a table with columns: recover_id, clientid, start_time, end_time, and a checkbox column. The table contains 31 rows of data, representing missing packets. A status message "Found 31 missing packets" is displayed above the table. At the bottom of the interface, there's a "Recover" button and a status bar showing "Internet | Protected Mode On" and a 100% zoom level.

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

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

Reporting	Logout
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	

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



Dash Board	Admin Tasks
Readings by Date	
Data	Graphs
Select Date Range From 11/8/2011 00 Hr 00 Mi To 14/8/2011 00 Hr 00 Mi Sensor Rain Select s All ID Temperature State Wind District Humidity Mandal LocalPressure Stations MSLP --Please Select-- Medchal Sivaramapalli	

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	Bejpur	Bejpur	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	Wanalphahad	19.102222	78.034722	06/28/2014 08:00	11.25
12	11396	Adilabad	Bheemini	Janakapur	19.117222	79.576657	06/28/2014 08:00	0.0
13	10635	Adilabad	Bheemini	Kannepalli	19.147778	79.668859	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	Kommara	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	Velagannuru	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	Gudihathnuru	Gudihathnuru	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	1
Anantapur	122	1	110	1	2	2	3	2
BJAPUR	1	null	1	null	0	0	0	0
Chittoor	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
Kannannagar	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	0	1	4	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	1	93	null	3	2	2	11
Ranga Reddy	78	1	65	2	4	4	1	1
Srikakulam	61	2	48	3	2	1	0	5
Visakhapatnam	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						
<div>Select Station</div> <div><div>State</div><div>ANDRA PRADESH</div></div> <div><div>District</div><div>Adilabad</div></div>											
		Last Reported Stations									
Client Id	Location	Latitude	Longitude	District	Packet Date/Time	Rain Packet	Temp Packet	Humidity Packet	WindSpeed Packet	WindDirection Packet	Pressure Packet
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 13:00	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	-
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	-
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	-
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	-
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	79.959067	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	-

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

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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.

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24/7/2014

Dash Board

Admin Tasks

Station Management

Reporting

Edit Profile

Logout

Select Date Range

From

27/6/2014

To

27/6/2014

Select Station

State

ANDRA PRADESH

District

--Please Select--

Data Analysis (Sensors)

Day	Client Id	District	Mandal	Location	Latitude	Longitude	Data	Temp	Rainfall	Packets Humidity	Pressure	Wind
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	17.196667	78.650536	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	Chandrayanigutta	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	BandlaGuda	17.370978	78.569482	23	23	23	23	23	23
06/27/2014	10014	Ranga Reddy	Senlingampalle	Madhapur	17.429287	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	Madhur	Madhur	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	Dinnevarapadu(Apcarbides)	15.772614	78.037511	24	24	24	24	24	24
06/27/2014	10029	Mahabub Nagar	Alampur	Alampur	15.880614	78.135100	24	24	24	8	24	24
06/27/2014	10030	Mahabub Nagar	Midil	Midil	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	Kalwakurthy	Kalwakurthy	16.662454	78.492778	18	18	18	18	18	18
06/27/2014	10034	Visakapatnam	Pedabavali	Pedabavali	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

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24/7/2014

Dash Board Admin Tasks Station Management Reporting Edit Profile Logout

Select Date Range

From 27/6/2014 00:00 Hr 00 Mi

To 27/6/2014 10:00 Hr 00 Mi

Reported All %

Select Station

State ANDRA PRADESH

District Adilabad

Reporting Stations (Percentage)

from 27/6/2014 00:00 Hrs to 27/6/2014 10:00 Hrs

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	79.072305	100%
11399	Adilabad	Adilabad	Ramnagar	19.686111	78.505833	100%
10629	Adilabad	Asifabad	Asifabad	19.357420	79.296883	100%
10630	Adilabad	Bazarhathnoor	Bazarhathnoor	19.457529	78.353195	100%
10631	Adilabad	Bejpur	Bejpur	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	19.112223	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	19.347397	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	19.089275	78.227737	100%
10639	Adilabad	Gudhathnuru	Gudhathnuru	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	19.373500	78.539167	90%
10641	Adilabad	Jainad	Jainad	19.735220	78.644119	100%
10642	Adilabad	Jainoor	Jainoor	19.371261	78.908852	30%
11400	Adilabad	Japur	Bheemavaram	18.818889	79.516667	100%
10643	Adilabad	Japur	Japur	18.849342	79.586052	100%
10993	Adilabad	Japur	Kundaram	18.761808	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.

enviro

Dash Board Admin Tasks Station Management Reporting Edit Profile Logout

Select Date Range

From 27/6/2014 00:00 Hr 00 Mi

To 27/6/2014 06:00 Hr 00 Mi

Select Station

State ANDRA PRADESH

District Adilabad

All Data Detailed

from 27/6/2014 00:00 Hrs to 27/6/2014 06:00 Hrs

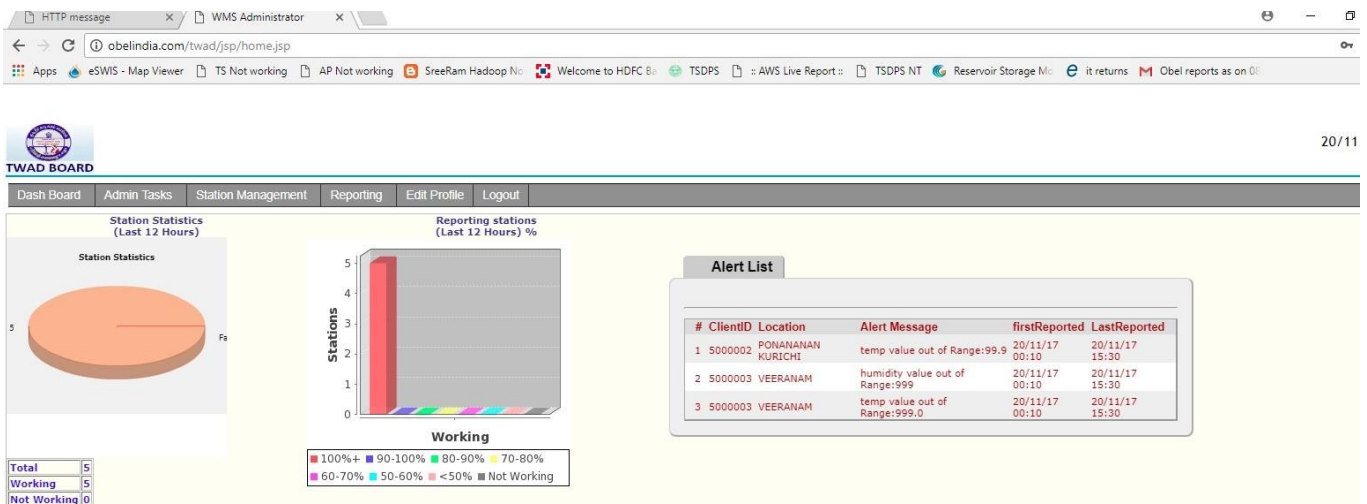
Client ID	District	Mandal	Location	Date	Latitude	Longitude	Temperature (°C)	Humidity (%)	Wind Speed (kmph)	Wind Direction (degrees from north)	Local Pressure (millibar)	MSLP (millibar)	Cummulative Rainfall (mm)	Hourly Rainfall (mm)
10135	Adilabad	Mancherial	Mancherial	06/27/2014 00:00:02	18.876317	79.446472	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

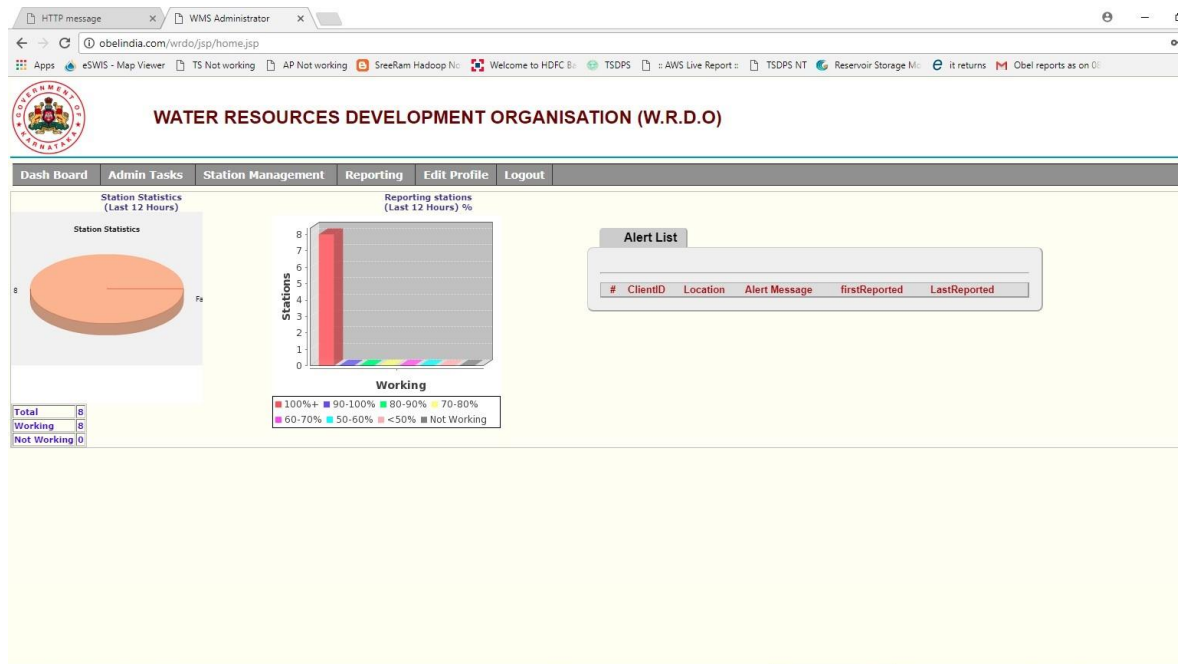
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TAMILNADU WATER SUPPLY AND DRAINAGE BOARD



OBEL Weather Monitoring System

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



➤ YSR Horticultural University

