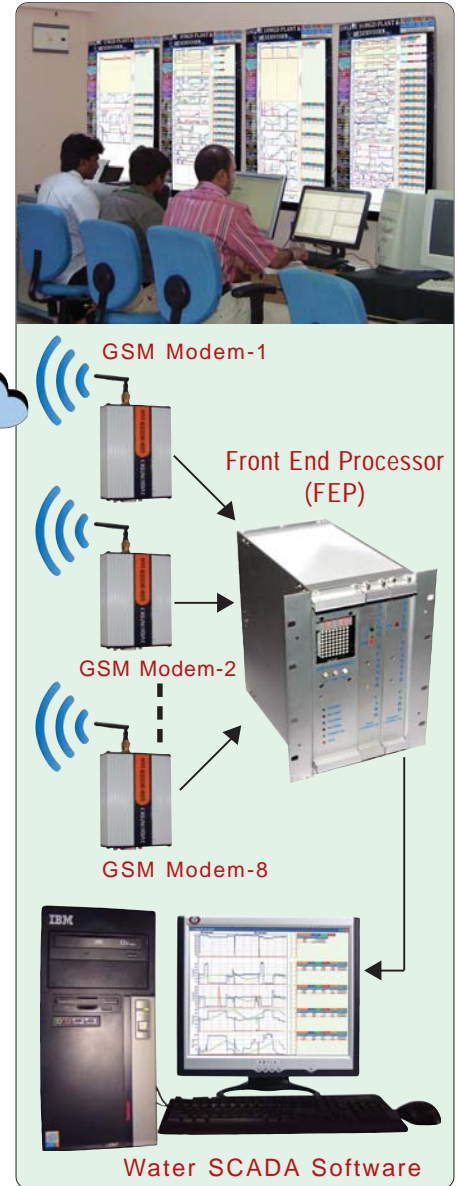


# WATER SCADA

Water SCADA provides Auditing in Drinking Water Systems. The system logs Water flow, Volume accumulated and Water quality in various stages of Production and Distribution. The entire data is transferred from each of the Water treatment plant, Service reservoir / Over Head tanks, Strategic points to the central place, where the data is posted in to database. Application software generates various reports and exceptions for online control and data analysis.

## INTELLIGENT ELECTRONIC DEVICE (IED)

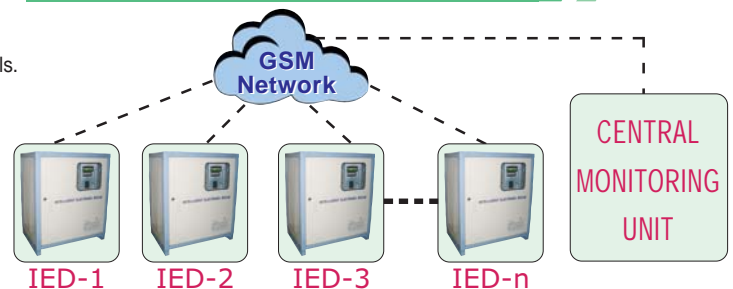
## CENTRAL MONITORING UNIT



## ADVANTAGES

- ❖ Total accountability in Water production and Water distribution system.
- ❖ Continuous monitoring and display of network flow status and supervisory controls.
- ❖ Reports overflows, leakages, Unaccounted For Water (UFW) at various stages of distribution.
- ❖ Uniform distribution of water can be achieved though out the supply area eliminating imbalances.
- ❖ Online information and historical data helps in managing demand variations.
- ❖ Automated reports helps in taking timely decision.
- ❖ Continuous assessment can ensure water Quality & Quantity.
- ❖ Improves quality of service and overall plant efficiency.

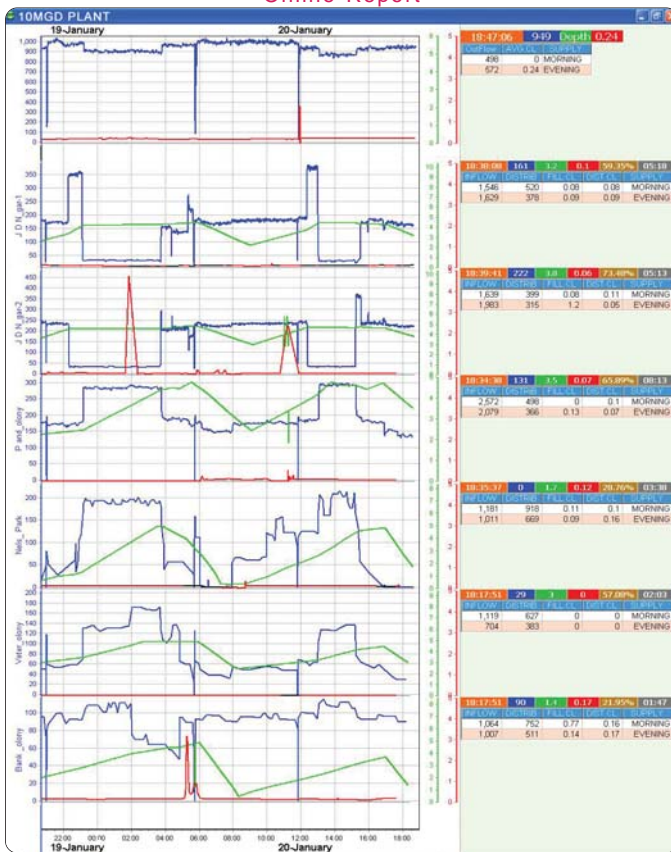
## BLOCK DIAGRAM



\* Due to continuous Research and Development product specifications are subjected to change.

## REPORTS

### Online Report



### Schedule Deviation Report



### Reservoir Problems Report

SNo	CircleID	ReservoirName	Less Chlorine Count	Overflow Quantity (KL)	Overflow Cost (Rs)	Leakage Quantity (KL)	Leakage Cost (Rs)	Surplus Supply %	Lesser Supply %
2	2	Match Factory	5	290.64	1791.84	521631.34	3129789.64	92.87	0
3	1	Malkajgiri pet	21	775.44	4652.64	173960.22	1043761.32	93.72	0
4	1	Lorry Stand	2	2042.56	12255.36	188866.10	1133196.80	93.36	0
5	2	Gandhi Nagar1	15	0	0	285419.32	1712515.92	47.2	0
6	2	Gandhi Nagar2	244	0	0	204504.62	1229427.92	93.33	0
7	3	Machavaram 1	25	0	0	385216.90	2219101.40	78.31	0
8	1	Finpeet	0	0	0	753275.26	45196411.56	96.11	0
9	3	Machavaram 2	35	0	0	158472.52	558035.12	53.16	0
10	1	Gandhi High School	250	0	0	138576.38	831458.28	79.68	0
11	2	Kadarewarpet-1 (old)	30	0	0	278306.44	1669838.64	86.29	0
12	2	H S C Bose Nagar	4	0	0	79832.56	478956.36	91.1	0
13	2	Vandray colony	201	0	0	353241.54	2121249.24	9	6.5
14	3	J D Nagar-1	58	0	0	221741.68	1330485.48	37.48	0
15	3	J D Nagar-2	40	0	0	346593.52	2079561.12	91.21	0
16	3	P and T Colony	35	0	0	450002.54	2404815.24	28.83	0
17	3	Nelson Mandela Park	45	0	0	150035.68	630214.08	84.69	0
18	3	Veterinary Colony	35	0	0	135872.30	815833.80	0	26.09
19	3	Bank Colony	45	547.60	3285.60	161800.00	970800.00	52.27	0

### Online Faults

RESEVOIR NAME	FAULT MESSAGE	OCCURRED TIME
Gollapalem gattu	Less Chlorine	01/19/2010 00:06:18:844
Fish Market	Less Chlorine	01/19/2010 00:13:26:484
H B Colony-2	Less Chlorine	01/19/2010 00:07:30:422
H B Colony - 1	Filling Started Late	01/19/2010 00:02:45:688
H B Colony - 1	Less Chlorine	01/19/2010 00:02:04:891
Kedarewarpet 1	Filling Started Late	01/19/2010 00:01:00:609
Kedarewarpet2	Less Chlorine	01/19/2010 00:06:54:219
Machavaram 2	Filling Started Late	01/19/2010 23:59:53:234
P and T Colony	Filling Started Late	01/19/2010 00:03:16:78
ORRS	Filling Started Late	01/19/2010 00:03:03:812
Bank Colony	Filling Started Late	01/19/2010 00:12:06:859
Priyadarshini Colony	Filling Started Late	01/19/2010 00:03:30:141
Nelson Mandela Park	Filling Started Late	01/19/2010 00:06:17:516
Vandray colony	Filling Started Late	01/19/2010 00:03:00:859

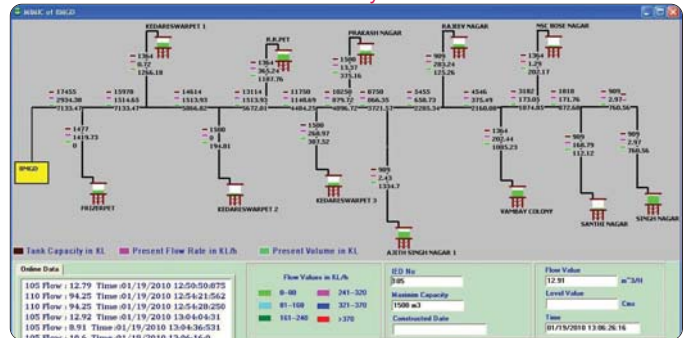
### Overflow Report



### Leakage Report



### Online Status of Hydraulic zones



### Daily Report

S.No	Reservoir Name	Capacity (KL)	Height(m)	From Time (HH:MM)	To Time (HH:MM)	Actual Duration (HH:MM)	Actual Inflow (KL)	Inflow Volume (KL)	Total Inflow (KL)	Fill Start Level (m)	Fill End Level (m)	Fill End Volume (KL)	Net Qty (Pumped) (KL)	Shut down for Filling	Fill STATUS	From Time (HH:MM)	To Time (HH:MM)	Duration (HH:MM)	Start Level(m)	Start Volume (KL)	End Level(m)	End Volume (KL)	Net Qty (Distribute) (KL)	Fill	Overflow	Storage	Dist	Total	Average CL (gpm)	Filling	Distrib		
1	Labbet	1,477.00	5.00	18:13	01:27	07:13	1,495.26	0.00	1,000.63	116.75	2,802.64	0.10	25.10	4.93	1,583.91	1,568.91	99%	FILL	05:51	06:34	01:21	4.90	1,230.97	0.20	69.65	1,489.32	63.56	0.00	1,124.57	58.09	1,177.77	1.27	1.80
2	Match Factory	1,477.00	5.00	20:25	05:26	08:09	4,452.06	0.00	237.20	40.96	4,730.22	0.22	50.85	4.81	1,451.85	1,401.20	96%	FILL	06:10	07:30	02:39	4.72	1,423.02	0.29	67.26	1,365.76	3,050.86	0.00	266.03	20.48	3,367.85	1.42	0.96
3	Malkajgiri pet	1,477.00	4.35	20:09	05:01	08:57	1,550.38	0.00	0.97	36.00	1,587.33	0.11	34.31	3.98	1,241.25	1,206.94	91%	FILL	06:02	09:05	03:03	3.89	1,213.18	0.25	77.97	1,135.21	343.42	0.00	29.04	36.00	408.48	1.57	0.88
4	Lorry Stand	1,477.00	3.66	20:29	02:24	05:55	1,638.80	0.00	1.52	1.18	1,640.98	0.11	35.62	3.56	1,376.92	1,341.30	97%	FILL	04:59	09:05	04:06	3.50	1,352.39	0.20	65.17	1,287.22	65.50	0.00	26.05	1.18	92.73	2.44	1.88
5	Gandhi Nagar1	1,477.00	4.60	18:16	02:36	08:20	1,563.12	0.00	17.10	300.66	1,863.78	0.74	247.93	4.29	1,837.36	1,189.42	65%	FILL	06:00	07:46	01:46	4.02	1,346.89	1.08	361.86	985.04	373.90	0.00	107.66	301.86	782.12	1.53	1.69
6	Gandhi Nagar2	1,477.00	4.15	18:19	02:11	07:51	1,451.10	0.00	4.68	2.01	1,453.08	0.66	255.79	3.89	1,374.44	1,118.65	84%	FILL	05:57	07:31	01:34	3.68	1,294.66	0.98	250.22	1,000.12	332.45	0.00	64.36	2.01	418.82	1.70	0.76
7	Machavaram 1	517.00	3.00	17:10	04:21	11:10	940.54	0.00	130.24	3.95	1,074.73	0.48	82.81	8.87	322.61	239.80	62%	NOT FILL	06:01	06:25	00:24	3.82	279.48	0.38	65.56	213.92	700.74	0.00	173.37	3.95	878.06	0.00	0.00
8	Machavaram 2	517.00	3.00	18:39	05:00	10:21	547.91	0.00	32.08	5.09	595.08	0.41	70.73	2.49	429.58	395.85	83%	NOT FILL	06:02	06:45	00:42	2.49	429.58	0.42	72.48	357.12	189.06	0.00	32.08	5.09	226.23	0.00	0.00
9	Gandhi High School	1,023.00	3.20	19:53	02:28	08:36	1,048.91	0.00	2.60	7.55	1,056.86	0.20	39.47	3.12	916.48	877.01	95%	FILL	06:35	07:49	01:14	2.94	899.55	0.25	48.73	800.82	169.90	0.00	68.43	7.55	245.88	1.99	1.11
10	Kadarewarpet-1 (old)	1,363.00	3.38	19:46	05:56	10:09	1,169.04	0.00	11.76	299.61	1,400.31	1.23	502.39	3.13	1,278.43	776.04	93%	FILL	05:58	07:49	01:51	3.10	1,290.86	0.96	392.11	908.75	393.00	0.00	8.87	299.61	683.04	0.71	0.16
11	H S C Bose Nagar	1,477.00	5.00	02:34	06:13	03:39	1,661.44	0.00	24.64	79.85	1,665.99	1.73	489.30	4.76	1,402.63	904.63	96%	FILL	06:29	07:30	01:07	4.74	1,397.58	0.81	226.43	1,169.15	46.81	0.00	30.69	799.55	167.25	0.86	1.54
13	J D Nagar-1	1,500.00	5.13	20:43	03:54	07:10	1,715.15	0.00	0.66	0.21	1,716.02	0.23	44.36	4.99	1,418.63	1,374.17	97%	FILL	06:27	07:25	00:58	4.95	1,406.07	1.94	469.32	936.75	340.96	0.00	13.12	0.21	354.31	0.52	1.24
14	J D Nagar-2	1,500.00	5.00	20:30	01:41	05:11	983.14	0.00	364.82	475.93	1,823.89	1.90	489.68	4.51	1,329.59	877.91	90%	FILL	06:00	09:01	03:00	4.37	1,290.50	2.08	520.22	770.28	105.23	0.00	11.91	475.93	993.07	0.30	0.72
15	P and T Colony	1,500.00	4.96	20:38	23:26	02:48	637.61	0.00	799.38	767.34	2,204.13	2.92	802.77	4.48	1,329.59	524.73	81%	FILL	06:46	09:07	02:20	3.99	1,162.88	2.14	540.40	622.28	112.78	0.00	964.10	767.34	1,844.22	0.16	0.19
16	Nelson Mandela	1,000.00	5.00	22:26	03:48	05:21	1,247.56	0.00	378.73	512.45	2,387.74	1.29	316.79	4.75	1,364.28	1,047.49	96%	FILL	06:40	09:58	03:15	4.37	1,248.52	2.21	598.47	669.05	200.07	0.00	494.49	512.45	1,207.01	0.08	0.08



'R & D' Recognised by DSIR Govt. of INDIA

Approved by RDSO Govt. of INDIA Ministry of Railways



**EFFTRONICS SYSTEMS PVT. LTD.**  
40-15-9, Brundavan Colony, Vijayawada-520 010, A.P., INDIA  
☎ : +91(866) 2466675, 2493375 Fax: +91(866)2474097  
E-mail: info@efftronics.com Visit us: www.efftronics.com