

GUJARAT JALSEVA TRAINING INSTITUTE

GUJARAT WATER SUPPLY & SEWERAGE BOARD

2 Days Classroom Training Programme on

“Network Design using EPANET & JalTantra, Hydraulic Design & Surge Analysis”

(Batch-2 for Zone-3, 4 & 5)

TRAINING SUMMARY REPORT

Name of Training	Network Design using EPANET & JalTantra, Hydraulic Design & Surge Analysis (Batch-2 for Zone-3, 4 & 5)	
Venue	Inspection Bungalow, Rajkot	
Organizing Institute	Gujarat Jalseva Training Institute, GWSSB, Gandhinagar	
Course Level / Type	Zone Level	
Target Groups	DEE, AE & AAE Civil Engineers from Zone-3, 4 & 5 of GWSSB	
Date	26-27 August 2021	
No of days	2 Days	
Planned/Unplanned	Planned	
Co-ordinators Team		
1. Mr. P H Shah, Director	Course Director	
2. Mr. Bhavik Rathod, Joint Director (Adm.) 3. Ms. A M Bhuvella, Ex. Engineer (Adm.) 4. Mr. S P Patel, DEE 5. Ms. Hetal Tewar, AE	Course Co-ordinator	
6. Mr. Dipak Vadher, PA to CE, Zone-3 7. Mr. Ankit Gohil, DEE, PHSSD, Rajkot	Course Co-ordinator from Zone-3	
Training Schedule		
Time	Topic	Faculty
Date: 26-08-2021		
10:45 - 12:00	Network Design using EPANET 1. State of water supply systems in Indian cities, Major causes for poor performance, Scope for improvement 2. Types of Water Supply Systems 3. Types of Water Distribution Networks 4. Some Basic Hydraulic Principles 5. Frictional Head Loss in Pipes 6. WTP, Reservoirs, Pumps and Valves	Dr. Devang Shah, BE (Civil), ME (Env. Engg), PhD (Civil Engg.) Associate Prof. , DJMIT, Mogar, Anand & Consultant, Mark Procon Pvt. Ltd., Vadodara
12:15 - 13:30	Network Parameters and Introduction to EPANET 1. EPANET as an open-source tool 2. Advantage of LOOP or Excel Analysis	do

	3. Practice on self-explanatory tutorial	
14:30 - 17:15	Real-Life Network Design and Analysis with a Case Study 1. Layouts of water distribution networks using QGIS & WaterNetGen 2. Obtaining pipe lengths and elevation data 3. Identification of the variation in daily demand 4. Use of EPANET and other tools in designing WDN 5. Determining costs of various pipe networks based on SOR 6. Least cost design with commercial diameters for WDN, 7. Exercise problem hands-on practice	do
Date: 27-08-2021		
10:30 - 12:00	Network Design using JalTantra	Sh. Prakash Vaghasiya, AAE, PHWD-1, Amreli
12:15 - 13:30	Hydraulic Design of Rising Main & Gravity Main	Sh. Prakash Vaghasiya, AAE, PHWD-1, Amreli
14:30 - 17:15	Surge Analysis & Water Hammer Hydraulic Transient	Sh. Devang Shah, Himadri Enviro Protection Consultants Pvt. Ltd, A'bad
Total No of Participants	32 (31 Regular Employees of GWSSB & 1 Apprentice Engineer & Outsource staff)	

List of Regular Employees of GWSSB

No.	CPF NO.	Name	Designation	Office & Place
1	-	AJAYKUMAR DHIRUBHAI MEVADA	AAE (C)	PHSSD-1, Rapar
2	-	AMARDEEP MANJIBHAI KUKADIYA	AAE (C)	PHC, Junagadh
3	GWSSB/10408	ANKIT RAMESHBHAI GOHIL	DEE (C)	PHWD, Rajkot
4	GWSSB/10232	DHARAMKUMAR JAYNTILAL CHAUHAN	DEE (C)	PHSSD, Jetpur
5		DHAVAL MANSUKHBHAI NAGAR	AAE (C)	PHWD, Jetpur
6	GWSSB/10337	DHIRUBHAI NATHUBHAI VAGHELA	DEE (C)	PHSSD, Gadhada
7	GWSSB/10279	DILIP GOVINDBHAI KHOKHARI	AAE (C)	PHSSD, Ranavav
8	GWSSB/10401	GAUTAMBHAI NATVARLAL PATEL	DEE (C)	PHSSD-2, Surendranagar
9	-	GUNJALIBEN CHANDULAL BUTANI	AAE (C)	Zone 5, Junagadh
10	GWSSB/10455	HARSHADKUMAR VALJIBHAI MAKWANA	AE (C)	PHSSd, Amreli
11	GWSSB/10390	HIMANSHU BIPINCHANDRA SONEJI	AE (C)	PHC, Rajkot
12	-	KANU UNADBHAI VALA	AAE (C)	PHSSD, Savarkundla
13	-	KAUSHIK BHARATBHAI DAVE	AAE (C)	PHSSD, Liliya
14	-	KAUSHIK MANILAL PANCHAL	AAE (C)	PHSSD, Bhuj
15	GWSSB/10126	KAUSHIKKUMAR JAYSUKHLAL VAGHELA	DEE (C)	Zone-4, Kutch
16	GWSSB/10278	MAHESHKUMAR SURMALBHAI DAMA	DEE (C)	PHSSD, Kutiyana
17	-	MAYUR KHENGARBHAI MAKWANA	AAE (C)	PHSSD-2, Rapar
18	GWSSB/10411	NARESHKUMAR TEJABHAI PARMAR	DEE (C)	PHSSD, Sayla
19		NIRALBEN MANSUKHBHAI TANK	AAE (C)	Zone-3, Rajkot
20	-	NIRAVKUMAR ISHWARBHAI PATEL	AAE (C)	PHSSD, Umralla
21	-	NISHANKUMAR HARESHBHAI PATEL	AAE (C)	PHSSD, Anjar
22	GWSSB/3714	PRAKASH JERAMBHAI VAGHASIYA	AAE (C)	PHWD-1, Amreli
23	-	PRANAV KISHORCHANDRA PATEL	AAE (C)	PHSSD, Keshod
24	GWSSB/10521	RAJESH CHHAGANLAL SOLANKI	AAE (C)	Zone 5, Junagadh
25	GWSSB/10267	RAVIKUMAR LALJIBHAI HALA	DEE (C)	PHSSD, Chotila
26	-	RUTUL JAYANTILAL MEWADA	AAE (C)	PHSSD, Bhachau
27	-	SHYAM RAMESHBHAI BODA	AAE (C)	PHSSD, Khambhaliya
28	-	SIDDHARTH RAMESHCHANDRA SAVSANI	AAE (C)	PHSSD, Bhanvad
29	-	TIRTHRAJ KANUBHAI BHABHOR	AAE (C)	PHSSD, Manavadar
30	GWSSB/10391	USHA PRANLAL VAGHELA	DEE (C)	PHSSD, Amreli
31	-	UTKARSH ARUN SRIVASTAVA	AAE (C)	PHSSD, Gandhidham

List of Employees (Outsource staff/Apprentice Engineer)

No.	Name	Designation	Office & Place
1	VISHNUBHAI GHANSHYAMBHAI DHARAJIYA	APPRENTICE. ENGG.	PHSSD, Limbdi

Photo Gallery

1. **Dr. Devang Shah**, Asst. Professor, DJMIT, Mogar, Anand addressing the trainees



2. Welcome to the dignitaries



3. **Sh. Devang Shah**, Consultant, Himadri Enviro-Protection Consultants Pvt. Ltd, A'bad addressing the trainees



4. **Sh. Prakash Vaghasiya**, AAE, PHWD-1, Amreli addressing the trainees



5. Practical Session of Computer Software



6. Participants attending training

