

# Curriculum Vitae: Dr. Sanjaykumar M. Yadav



Professor & Head, Civil Engineering  
Department of Civil Engineering  
SV National Institute of Technology  
Surat 395007, Gujarat, INDIA  
Tel: +091-0261-2201526 (O)  
+091-0261-225 8283 (R)  
Mob: +091-09426152906  
Fax: +091-0261-2228374  
Gmail: shivnam27@gmail.com  
smy@ced.svnit.ac.in

## Research Interests

---

- Fluvial Hydraulics
- Hydrology and climate change
- Construction Management
- Reservoir Operation, Sediments & Sediment Yield and Hydro Power
- Application of Soft Computing Techniques in WRE

## Education

---

- July 2004–March 2009 : Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat. (INDIA)  
**Ph.D.** in Civil Engineering (Water Resources Engineering)  
**Thesis:** “Study of Ripple factor for Tapi River”  
**Thesis Supervisor:** Dr. B. K. Samtani
- July 1990–May 1992 : SGU, Surat, Gujarat. (INDIA)  
**M.E.** in Civil Engineering (Water Resources Engineering)  
**Thesis:** “Study of drag and lift coefficient for flat plate and artificially roughened plate.”  
**Thesis Supervisor:** Dr. B. K. Samtani  
**Percentage of Marks:** 76.86% (1<sup>st</sup> Class)
- Sept 1983–June 1987 : SPU, Surat, Gujarat. (INDIA)  
**B.E.** in Civil Engineering  
**Percentage of Marks:** 64% (1<sup>st</sup> Class)

## Employment Record

Name of Employer & place	Designation of post held	Nature of work	Period		Years and Months
			From	To	
Skylark Builder, Baroda	Site In-Charge	Civil work	Feb. '87	Nov. '87	10 Months
Anvin Construction, Baroda	Site In-Charge	Civil work	Nov. '87	June '88	6 Months
Govt. Engg. College, Modasa.	Lecturer (Adhoc )	Academic	Oct. '88	May '89	8 Months
SVNIT, Surat	Professor	Academic	Aug. '89	Till Date	27 Years

## Consultancy Experiences

Sr. No	Name of Work	Faculty	Year
<b>MAJOR DESIGN WORK</b>			
1	Survey and design for <b>development of natural kotar</b> from Samarvarni area up to Silvassa Municipal border, Samarvarni	Dr S.M.Yadav	2017
2	Design of <b>water supply network</b> , Ichhapore-Bhatpore, GIDC, Surat	Dr S.M.Yadav	2016
3	<b>Design of check dam</b> , Silvassa.	Dr S.M.Yadav	2016
4	Design of <b>canal water supply based water supply scheme</b> for filling ponds, Hazira	Dr S.M.Yadav	2016
5	Vetting of hydraulic design and drawings for <b>Storm Water Drain</b> at Silvassa	Dr S.M.Yadav	2016
6	Vetting/Proof Checked the designing for 'Augmentation <b>Water Supply Scheme</b> of Moti Daman Based on Bhamti Branch Canal of Madhuban Dam.'	Dr. S.M.Yadav	2016
7	Design and Proof checking of <b>long distance water supply pipe line</b>	Dr. S.M.Yadav	2015
8	<b>Storm Water Drainage Network Planning and Design</b> for all residential colonies (Existing) along the road leading to Balaji Temple within Silvassa Municipal Council area	Dr. S.M.Yadav	2012
9	<b>Design and re-sectioning of Bill Khadi-Vapi</b>	Dr. S.M.Yadav	2010
10	Contour Mapping and plain table survey and Recommendation for <b>Drainage system</b> and Specification of items for SRU of Hazira Plant of ONGC , Surat	Dr.S.M.Yadav	2006
11	Design of <b>storm water drainage</b> system for M/s Batliboi Plant Complex at Udhna, Surat	Dr.S.M.Yadav	2005
12	Design of two layer chain link fencing around Hazira Plant of ONGC, Surat.	Dr.S.M.Yadav	2006

13	<b>Design construction/strengthening of damaged boundary wall</b> of ONGC plant, Hazira, Surat	Dr.S.M.Yadav	2006
14	<b>Design of septic tank and seepage pit system</b> for M/s Batliboi Plant Complex at Udhna, Surat	Dr.S.M.Yadav	2006
15	Estimation and calculation of Built-up area for construction of Family Accommodation for CISF & Railway Personnel-Phase II Colony, ONGC, Hazira	Dr.S.M.Yadav	2004
16	Preparing estimates for seasoning shed ,furniture shed for Vanil Udyog,Vansada	Dr.S.M.Yadav	2002

**PROJECT MANAGEMENT COUNSALTANCY (SELECTED)**

<b>Sr. No</b>	<b>Name of Work</b>	<b>Faculty</b>	<b>Year</b>
1	Third Party Inspection (TPI) services for Construction of IT Mac Centre at T. P. Scheme No.36 (Althan), F. P. Plot No.01 in area of South West (Athwa) Zone under Surat Smart City Project.	Dr. S. M. Yadav Dr. R. M. Tailor	2017
2	TPI for the work of Providing, Laying & Constructing Storm Drainage line from Panvel Point to Golden Chowk, Mota Varachha in East Zone.	Dr. S. M. Yadav	2016
3	Third Party Inspection (TPI) Services for Construction of R.C.C.Box Culvert at D.T.P.S. 69(Godadara-Dindoli)(four Different Location) in area of South East Zone Limbayat.	Dr. S. M. Yadav	2016
4	TPI for Providing & Laying of 1219 mm dia. M. S. rising pipe line for Utran Sewage Pumping Station and Kosad Railway Sewage Pumping Station in New North Drainage Zone for augmentation.	Dr. S. M. Yadav	2016
5	TPI for Providing & Laying Storm Drainage pipe line on different roads of T.P.S. No.-66 (Kosad) Under Package outlet-13 in New North Zone (Katargam) at Surat City.	Dr. S. M. Yadav	2016
6	TPI for Providing & Laying RCC NP3/NP4 class spigot and socket rubber ring joint pipes for sewerage Network augmentation of Anjana Sewage Pumping Station in South East Drainage Zone.	Dr.S.M.Yadav	2015
7	TPI for Providing erecting commissioning of flood control gates for Outlet-2, at Motavarachha in East Zone.	Dr.S.M.Yadav	2015
8	Vetting/Proof Checked the designing for ‘Augmentation Water Supply Scheme of Moti Daman Based on Bhamti Branch Canal of Madhuban Dam.’	Dr. S.M.Yadav Dr. A.K.Desai	2015
9	Providing and Laying Drainage lines of R.C.C. NP3/NP4 class in Navagam area in East Drainage Zone Under old City Sewerage Network Augmentation, Surat.	Dr.S.M.Yadav	2015
10	Proof Checking of Hydraulics for “MNBs & MJB”	Dr. S.M.Yadav	2015
11	Providing and laying drainage line of R.C.C.Np3/NP4 class pipe having spigot and socket rubber ring joint in T.P.Scheme No-28(Althan-Bhatar)Azadnagar, Rasulabad in S.W.Z. under area of Surat City.	Dr. S.M.Yadav Dr. J N Patel	2015
12	Construction of Retaining wall (Wing Wall) for existing R.C.C. Cilvert on Priyanka Khadi in D.T.P.S. No.62 (Dindoli-Bhedwad-Bhestan) in S.E.Z. (Limbayat)	Dr.S.M.Yadav Dr.V.L.Manekar	2015
13	TPI for Providing erecting commissioning of flood control gates for Outlet-2, at Motavarachha in East Zone.	Dr.S.M.Yadav Dr.V.L.Manekar	2015
14	Providing Laying and constructing storm drainage R. C. C. pipes of 300mm to 900 mm dia, making inlet chambers and manhole at various areas of South West (Athwa) Zone.	Dr.S.M.Yadav Dr.V.L.Manekar	2015

15	Providing Third Party Inspection (TPI) for the work of ‘Government Boys Dry Hostel, Surat Building Works’	Dr.S.M.Yadav	2015
16	Providing TPI for laying of 600mm dia pipeline to fill Dindoli pond in South East Zone (Limbayat) Draft T.P. Scheme no.69 (Godadara-Dindoli).	Dr.V.L.Manekar Dr.S.M.Yadav	2014
17	Providing TPI Service for the work of providing and Constructing R.C.C. Storm Water Line for Remaining Network of Outlet-3 in T.P.S. No.61 (Middle ring road final plot no.176/B to Saint krupa Society final plot no. 189,190 and middle ring road final plot no.121/B?3 to Sai baba nagar final plot number114/A ) in West Zone area of Surat City.	Dr.V.L.Manekar Members Dr.S.M.Yadav Dr.P.G.Agnihotri	2014
18	TPI for the work of Providing & laying storm drainage line Rcc NP2/NP3 class pipes from Ved main road Viramnagar School to Shivchaya Soc.and till Ved main road Hariom Mill to Shivchaya Society vai Gopinath Society on T.P. road at N.Z. (Katargam).	Dr.V.L.Manekar Dr.S.M.Yadav	2014
19	TPI for the work of Providing & Laying Drainage main line from Navsari Bazar char Rasta to Salabatpura SPS in Central Zone.	Dr.V.L.Manekar Dr.S.M.Yadav	2014
20	TPI for Providing and Laying RCC Storm drainage line on various road for Outlet No. 7 (From Godadar khadi to Mansarovar Society railway parallel road) in DTSP. No. 69 (Godadara-Dindloi) in S.E.Z. (Limbayat).	Dr.S.M.Yadav Dr.V.L.Manekar Dr.P.G.Agnihotri	2014
21	TPI for laying of 600mm dia pipeline on various roads for outlet no. 13 and 14 (omnagar to Ambica park and Umiyanagar) in S.EZ.(Limbayat) Draft T.P. scheme no.69 (Godadara-Dindoli).	Dr.S.M.Yadav Dr.V.L.Manekar	2014
22	Proof Checking of Hydraulics for “Rural Water Networks Components”	Dr. S.M.Yadav	2014
23	Providing & Laying R.C.C. NP2/NP3 class pipes for storm water drainage 7 Constructing Manholes & Inlet Chamber at different areas of S. W.Z. (Athawa)	Dr.S.M.Yadav Dr.V.L.Manekar	2014
24	Providing and Laying RCC NP3 class pipes with Spigot socket/rubber ring joint for Sewage Network for remaining area of GODADARA station including Gamtal in S.E.Z	Dr.S.M.Yadav	2013
25	Verification of estimate prepared for E-Type Servant Quarter (high-rise building) S.V.N.I.T. Campus, Surat	Mr.S.M.Yadav Mr.K.A.Chauha	June 2007

## Teaching assistance experiences

### PhD Completed

<b>Candidate 1</b>	: HARSHUL J. PAREKH, DS 09 CE 104 (PEC)[Thesis Submitted]
Title	: Performance Evaluation and Ranking of Municipal Solid Waste Management System
Supervisor	: Dr. S.M.Yadav ,Dr. K.D.Yadav, Dr. N.C.Shah
<b>Candidate 2</b>	: DEVANSHU K.PANDIT, DS 09 CE 105 (PEC)[Degree Awarded]
Title	: To evolve an index to measure project development efficiency
Supervisor	: Dr. S.M.Yadav

## PhD Guided (Ongoing)

Candidate 1	:	<b>SAHITA IBHOPISHAK WAIKHOM</b> , DS12CE015 (PEC)
Title	:	Study of Sediment Transport Capacity
Semester	:	Tenth
Supervisor	:	Dr.S.M.Yadav
Candidate 2	:	<b>Miss Paresha Baria (PEC)</b>
Title	:	Extreme Rainfall Non Stationary investigations for Tapti basin
Semester	:	Nineth
Supervisor	:	Dr S.M.Yadav
Candidate 3	:	<b>Mrs.Preeti Ramkar (FIR)</b>
Title	:	Rainfall Runoff Modelling
Semester	:	Sixth
Supervisor	:	Dr. S.M.Yadav
Candidate 4	:	<b>Mr. Bankim Joshi (PEC)</b>
Title	:	Prédiction of Sediment yield for Ukai reservoir
Semester	:	Sixth
Supervisor	:	Dr. S.M.Yadav, Dr B K Samtani
Candidate 5	:	<b>Mr Kuldip Patel</b>
Title	:	Hydraulic modelling
Semester	:	Fourth
Supervisor	:	Dr S.M.Yadav
Candidate 6	:	<b>Mrs. Madhura Aher (PEC)</b>
Title	:	Rainfall Runoff Modelling
Semester	:	Third
Supervisor	:	Dr S.M.Yadav
Candidate 7	:	<b>Mr. Yazed Zabbar (FIR)</b>
Title	:	Development of Sediment Transport model
Semester	:	Third
Supervisor	:	Dr S M Yadav
Candidate 8	:	<b>Mr. Darshan Mehta (PEC)</b>
Title	:	Sediment transport modelling
Semester	:	Third
Supervisor	:	Dr S.M.Yadav
Candidate 9	:	<b>Mr. Vijendra Kumar (FIR)</b>
Title	:	Soft Computing Techniques
Semester	:	Second
Supervisor	:	Dr S.M.Yadav
Candidate 10	:	<b>Mr. Vipin Kumar Yadav (PEC)</b>
Title	:	-
Semester	:	First
Supervisor	:	Dr. S.M.Yadav, Dr B K Samtani

## M. Tech Guided

Sr. No.	Name of Student	Title	Year
1	Ms. Heatal Dadhania	Study of Sea Water Intrusion In The Veraval Taluka of Junaghadh District and its Control by Recharge Well Method	2003-04
2	Mr. Chauhan A.R.	Study of Sediment Distribution for Ukai Reservoir and Analyzing Life of Ukai Reservoir	2003-04
3	Mr. Mishra R.C.	Rehabilitation of Earthquake Affected Earthen Dams of Kachchh Region	2004-05
4	Mr. Chaudhari Prashant.	Evaluation of bed load equation	2007-08
5	Mr. Hemant Vasava	Mathematical modeling of salinity ingress –A case study	2008-09
6	Mr. Yogesh Kuwadiya	Design and analysis of Water Supply Network- A case study of SVNIT campus	2009-10
7	Mr Chauhan Pradeep	Seepage Analysis of Un lined Canal : A case study of Kakarapar Canal (Tentative title)	2011-12
8	Mr Kushal Patel	Flood Forecasting for Tapi River (Tentative Title)	2011-12
9	Kalpna Amulakh Shah	The Evaluation of Management Alternative Using Analytical Hierarchy Process and Assessment of Water Supply System Performance of Four Cities of Gujarat	2011-12
10	Ajudiya Bhavna K.	Water Distribution Network Design and Analysis: Case Study of Village Sokhada	2011-12
11	Mr. Nisarg V. Patel	Design and Analysis of Water Distribution Network for Utran-Kosad, Surat	2011-12
12	Mrs. Desai Margi N.	Optimization of Karjan Command Area By Using Linear Programming	2011-12
13	Jamit Ajay Kumar Kalanbhai	Analysis of Sediment Trapped By Slit and Beam Type Check Dams: A Case Study of Saurashtra and South Gujarat Region	2011-12
14	Mrs. Aarti Prabhakar Avalkar	Ground Water Analysis: A Case Study of Valsad and Navsari District	2012-13
15	Darshan Jayeshbhai Mehta	Geomorphic Channel Design and Analysis Using HEC-RAS Hydraulic Design Functions	2012-13
16	Jayeshree Harehbhai Talreja	Estimating the Sediment Transport Capacity of Flumes and Streams Using HEC-RAS and Study the effect of Hydraulic Parameters on Sediment Transport Capacity	2012-13
17	Daivakshi Dilipbhai Shastri	Study of Sukhi Reservoir Storage Using MLR and ANN Techniques	2012-13
18	Dhodiya Sumit J.	Analysis of Sediment Trapped By Check Dam of Uchhchhal and Nizar Region	2012-13

## M. Tech Guided

Sr. No.	Name of Student	Title	Year
19	Viral D. Patel	Analysis of Sediment Trapped Behind Slit and Beam Type Check Dams: A Case Study of Vansda Taluka	2012-13
20	Kaoustubh Tiwari	One Dimensional Numerical Modelling of Unsteady Flow and Reservoir Sedimentation: A Case Study of Lower Siang Project	2013-14
21	Vijendra Kumar	Sea Water Intrusion in the Coastal area of Navsari District and its Control by Surface Spreading Methods.	2013-14
22	Ajay R Patel	One Dimensional Numerical modelling for Flood Events using HEV-RAS	2013-14
23	Rahul M. Solanki	Optimal Crop Planning Using a CCLP model	2013-14
24	Payal Rameshbhai Khokhar	Analysis of Bed Load Transport for Steep Slope Channel	2013-14
25	Vipin Kumar Yadav	Analysis of Dimensionless Flow Parameters Influencing Sediment Transport Rate	2014-15
26	R. Naveen Kumar	Testing of Stream Power Equations for the Computation and Prediction of total Sediment Concentration	2014-15
27	Surbhi Saxena	Simulation and Scenario analysis to Assess future water demands in the South Gujarat region using Wrap model	2015-16
28	Jariwala Minal Maheshkumar	Application of River Basin Model to Assess Future Water Demands	2015-16
29	Anudeep Gadde	Experimental Investigation of the effect of horizontal plates on the reduction of local Scour around a single Bridge Pier	2015-16
30	Shilpa Bhagia	Simulation of Rainfall Runoff Modelling using Hec HMS For Purna Sub-Basin	2015-16
31	Upadhyay Ankita Chandradhar	Assessing predictive Capability of selected Suspended Load Formula Using Flume Data	2015-16
32	Pritikaben Ramanlal Prajapati	Determination of Roughness coefficient for Narmada Stream in Gujarat	2015-16
33	Dungrani Vivek Suresh	Comparative analysis of Suspended Transport function for Indian River	2016-17
34	Patel Rahulkumar Sureshbhai	Measurement of Longitudinal Distribution of Suspended sediments in Irrigation canal	2016-17
35	Gilitwala Anurag Dipakbhai	Measurement of bed load in natural Stream	2016-17
36	Amit Babu	Study of Computed Bed Load to suspended Load ration for Narmada River	2016-17
37	Tanmay Kumar	Analysis of Bed Load Equations using Measured Bed load and Bed-Material load of Mountainous Stream	2016-17

## Expert Lecture Delivered

Sr. No.	Title of Lecture	Place and Venue
1	People's Participation in Water Resources Project	One day Seminar on Integrated Development and Management of Water Resource organized by Central Water Commission and Civil Engineering Department , S.V.N.I.T., Surat on 24 March 2008.
2	Opportunities in Technical Education	Khatriya Mochi Education Society and sponsored by Manav Seva Trust at Khatriya Mochi Seminar Hall, Nanpura, Surat on 1 June 2008
3	Future of Quantity Surveyor	Shree Tapi Brahmcharyashram Sabha College of Diploma Engineering organized by Civil Engineering Department of S.T.B.S College of Diploma Engineering, Surat, June 06-12, 2008.
4	Application of Mathematical modeling in Fluvial hydraulics.	Application of Mathematical Sciences and soft computing, STTP, ASHD, SVNIT, Surat. December 8 -12, 2009.
5	Velocity distribution over sand roughened flat plates.	Wind energy, STTP, CED, SVNIT, Surat during January 19-23, 2009.
6	Rehabilitation of earthquake affected Tapar dam	One day Seminar on Management of Water Resources organized by Central Water Commission and Civil Engineering Department , S.V.N.I.T., Surat on 27 March 2009.
7	Carrier in Technical Education	Khatriya Mochi Education Society and sponsored by Manav Seva Trust, Navsari, May 2009.
8	Cyclic Activated Sludge Process	STTP on Treatment & Disposal of Waste Waters organized by Chemical & Civil Enng. Department during October 5-9, 2009
9	Contract Management	Civil Project: Development & management organized by CED, SVNIT, Surat during July 20-24, 2009.
10	The Evaluation of Professor as Teacher	Effective Teaching, Co-operative learning, Effective faculty development outcome based education organized by CED, SVNIT, Surat during December 14-18, 2009
11	"Recent advances in Testing Methodology and Techniques for Engineered Materials"	Short Term Training Program (STTP) at Department of Applied Mechanics,, S.V.N.I.T., Surat on 24 June 2016.
12	"Hydraulic Failure of Bridges"	Civil engineering Dept., SCET Surat.
13	"1-D Modeling Of River Reach Using HEC RAS to Assess Carrying Capacity"	STTP organized by CED, Marvari Engineering college Rajkot 18/11/2016.
14	"Modeling Scour and Flow Around Parallel Bridges".	River Flood Analysis and Modeling CED SVNIT 19 to 21 Dec 2016
15	"Basics of Flood Analysis-I"	River Flood Analysis and Modeling CED SVNIT 19 to 21 Dec 2016
16	"Tutorial on HEC RAS Software"	River Flood Analysis and Modeling CED SVNIT 19 to 21 Dec 2016
17	"Basic of Flood Analysis II, One Dimensional modeling of a River Reach"	River Flood Analysis and Modeling CED SVNIT 19 to 21 Dec 2016
18	"Application on MIKE 11 for Predicting Runoff- A Case study of Nira Deoghar Basin"	River Flood Analysis and Modeling CED SVNIT 19 to 21 Dec 2016
19	"UNDP Sustainable Development Goals"	Expert Lecture at SCET 7/2/17.
20	"Selection of Water Main Using AHP"	STTP organized by BVM Engineering college VallabhVidhyanagar 10/3/2017.



## Awards/Honors & Scholarships

---

- Best paper award for the paper entitled “Evaluation of DuBoy’s Bed Load Equation using Tapi River Data” presented at National Conference on “Innovations and Applications of Mathematical Modelling Techniques in Engineering System”, ADIT, Vallabh Vidya Nagar held on 10th Dec. 2008.
- Best paper award for the paper entitled “Bed load Equation based on Alluvial River Data, India” by “Hari Ohm Ashram Prezit Shri Bhaikaka Inter University Smarak Trust” for the year 2008-2009 in Civil Engineering by Sardar Patel University, Vallabh Vidya Nagar, Gujarat, India.
- Session’s best paper award for the paper entitled “Mathematical Relationship between Particle Reynolds Number and Ripple Factor” using Tapi River Data” , India at 3rd International Multi Conference on Engineering and Technological Innovations held at Orlando, USA during 29-2 July 2010.
- Working as an Expert appointed by Central Water Commission for Climate Resilient Coastal protection and management project (CRCPMP), funded by Asian development Bank.
- Received fellowship from Aus Aid, Government of Australia to present paper entitled “Performance evaluation of water supply services in developing country ”, Rivers in a rapidly urbanizing world at 15th International River Symposium, Melbourne, Australia, 9-11 October 2012.
- Received fellowship from Aus Aid, Government of Australia to present paper entitled “Managing Water through Public Private Partnership”, Rivers: Water-Energy-Food at 16<sup>th</sup> International River Symposium, Brisbane, Australia, 11-14 October 2013.
- Best paper award for the paper entitled “Fuzzy Logic based Operation of Gated Spillway” presented in National conference on "Trends & Challenges of Civil Engineering in Today’s Transforming World”, at SNPIT & RC, Umrakh, Bardoli, 29th March 2014.
- Appointed as Expert member by central water commission as a panel of member for the ADB project “Climate change adaption guidelines for coastal protection & Management in India” 2016.

## Publications

---

### Articles in International Journal

---

- [J.1] **S. M. Yadav** and B. K. Samtani, High Bed Load Transport in Tapi River, *Global Journal of Environmental Research*, 1(3), 2007.
- [J.2] **S. M. Yadav** and B. K. Samtani, A Case Study of Ripple Factor with Special Reference to Boundary Reynolds number for Tapi River, *World Applied Sciences Journal*, 3(2), , 2008.
- [J.3] **S. M. Yadav** and B. K. Samtani, Bed load equation evaluation based on alluvial river data, India, *KSCE Journal of Civil Engineering*, 12(6), 2008.
- [J.4] **S. M. Yadav** and B. K. Samtani, An exponential equation for predicting bed load transport rate in Tapi River India, *Ultra Scientist of Physical Sciences – International Journal of Physical Sciences*, 20(3), 2009.
- [J.5] **S. M. Yadav** and B. K. Samtani, Evaluation and Improvement of Bed Load Formula Using Tapi River Data, India, *Journal of Water Resource and Protection*, 2(3), pp. 245-250, 2010.
- [J.6] **S. M. Yadav** and R. Mishra, Rehabilitation of earthquake affected Chang earthen dam, *International Journal of Research and Reviews in Applied Sciences*, 2(1), pp. 41-46, 2010.
- [J.7] **S. M. Yadav**, Jayshree Talreja and Sahita Waikhom, Estimating the Sediment Transport Capacity Using HEC-RAS, *Global Research Analysis*, pp.9-14, April-2013.
- [J.8] **S. M. Yadav** and Daivakshi Shastri, B.M Vadher, Estimation of Storage of Sukhi Reservoir Using ANN Techniques, *Global Research Analysis*, pp.1-4, April-2013.

- 
- [J.9] **S. M. Yadav** and Aarti Avalkar, Sahita Waikhom, Dr. P. R Mehta, A Study of Ground Water Fluctuation in Coastal Region, Valsad and Navsari District, *Global Research Analysis*, pp.81-85, April-2013.
- [J.10] H.J.Parekh, K.D.Yadav, **S.M.Yadav**, N.C.Shah, Evaluation of collection and transportation of Municipal Solid Waste Management System in JnNURM cities in Gujarat, India: A Case Study of Ahmedabad, Surat, Vadodara and Rajkot, *International Journal of Scientific Research*, 23/06/2013.
- [J.11] **S. M. Yadav**, Darshan Mehta, Sahita Waikhom, Geomorphic Channel Design and Analysis Using HEC-RAS Hydraulic Design Functions, *Global Research Analysis*, pp.5-8, April-2013.
- [J.12] D.K Pandit and **S. M. Yadav**, Effective Project Controls at Project Development Stage, *International Journal of Scientific Research*, July 2013.
- [J.13] **Yadav, S. M.**, N. P. Singh, Kalpana A. Shah, and Jigar H. Gamit. "Performance evaluation of water supply services in developing country: A case study of Ahmedabad city." *KSCE Journal of Civil Engineering* 18, no. 7 (2014): 1984-1990.
- [J.14] Pandit, Devanshu, and **S. M. Yadav**. "Project control factors at front end: Indian perspective." *American Journal of Civil Engineering and Architecture* 2, no. 2 (2014): 77-82.
- [J.15] **S. M. Yadav**, Study of Rainfall pattern for Surat, India, *International conference on Sustainable Water Resources Management and Climate Change adaptation (SWRMCCA)*, National Institute of Technology, Durgapur, West Bengal, India, February 17-19, 2011.
- [J.16] Prof. D.K Pandit and **S. M. Yadav**, Identification of Project Development Factors using Factor Analysis (Poster presentation), *International Conference on Applied Mathematics and Statistics, Gujarat University, Ahmedabad*, 17-18 December 2011.
- [J.17] Mr.H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, "Comparison of municipal solid waste management system in world's two fastest growing cities for better tomorrow: A Case Study of Surat and Kabul", *4th International congress of Environmental Research*, SVNIT, Surat, 17-12-2011.
- [J.18] H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, "Comparison of Municipal Solid Waste Management System in Developing Countries: A Case study of Ahmedabad, Surat and Kabul", *International Conference on Civil Engineering and Infrastructural Issues in Emerging Economies*, Sastra University, Thanjavur, Tamil nadu, India Deakin University, Australia, 27 – 28 February 2013.
- [J.19] H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, "Modernization of municipal solid waste transportation system : A case study of Pune", *International conference on waste, wealth and health*, International Institute of waste management, Bhopal, India, 15-17/ February. 2013.
- [J.20] **S. M. Yadav**, S. I. Waikhom, Darshan Mehta. "Analysis of flood using HEC-RAS: A Case Study of Surat City." HYDRO 2013, *18<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), 549-555.
- [J.21] Mrs. S. I. Waikhom, Dr. **S. M. Yadav**, Ms. J. H. Talreja. "Analysis of Sediment transport capacity of river using HEC-RAS", Hydro 2013, *18<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), pg. 681-689.
- [J.22] A.P.Avalkar, Dr. **S. M. Yadav**, Prof. S. I. Waikhom, Dr. P. R. Mehta. "Study of saltwater intrusion in to coastal aquifer of South Gujarat, India", *18<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), pg. 1081-1089.
- [J.23] Mrs. S. I. Waikhom, Dr. S. M. Yadav. "Approaches of Total Sediment Transport of Alluvial River: The State of the Art", HYDRO 2014, *19th International Conference on Hydraulics, Water resources & Environmental Engineering Dec. 18-20th*, NIT Bhopal India.
- [J.24] Priyanka Zore, Vijendra Kumar, **S.M.Yadav** and T.Venkateswarlu "Stage-Discharge Models Based On ANN for Dehli Gauging Station of Kim River" *International Conference on Development, Biodiversity and Climate Change: Issues and Challenges 3-5 October, 2014, Chamba Climate Meet, Himachal Pradesh, India.*
-

- 
- [J.25] Vijendra Kumar, S.M.Yadav, Priyanka Zore and T.Venkateswarlu, 2014, “ANN and MLR Based Stage-Discharge Models for Dehli Gauging Station of Kim River, Gujarat”, *3rd International Conference On “Sustainable Innovative Techniques In Architecture, Civil and Environmental Engineering”* ISBN: 978-93-83083-77-0 page no (246-253).
- [J.26] Vijendra Kumar, B K Samtani, **S.M.Yadav** and K. Naresh, 2014, “Decadal comparison of rainfall seasonality index in Gujarat”, *3rd International Conference On “Sustainable Innovative Techniques in Architecture, Civil and Environmental Engineering”* ISBN: 978-93-83083-77-0 pages no (238-245).
- [J.27] **S. M. Yadav**, Vijendra Kumar, B. K. Samtani and Priyanka Zore “Comparison of Rainfall Wetness in Gujarat based on Seasonality Index of different time period” *International Conference on Development, Biodiversity and Climate Change: Issues and Challenges 3-5 October, 2014, Chamba Climate Meet, Himachal Pradesh, India.*
- [J.28] Vijendra kumar, Dr. B. K. Samtani and Dr. **S. M. Yadav** “Sea water intrusion in the coastal area of Navsari District and its control by direct surface method” *HYDRO 2014, 19th International Conference on Hydraulics, Water resources & Environmental Engineering Dec. 18-20th , NIT Bhopal India.*
- [J.29] Darshan Mehta, **S. M. Yadav**, S. I. Waikhom. “Assessing carrying capacity of river reach using HEC-RAS.” *HYDRO 2014, 19<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (MANIT, Bhopal, 18-20 December 2014).
- [J.30] V.G Yadav, Mrs. S. I. Waikhom,, Dr. S. M. Yadav. “Total sediment Transport rate of Alluvial rivers for Non-uniform sediments: The state of Art”, *International Conference on Advances in Engineering*, Saffrony Institute of Technology, Mehsana, Jan 2015.
- [J.31] V G Yadav, Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Evaluation of correlation of dimensionless sediment transport parameters with sediment transport rate”, *36th IAHR World Congress*, The Hague, The Netherlands, 28 June-3 July'15.
- [J.32] Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Comparative study of original Ackers & White relation along with modified coefficient for total sediment load prediction”, *36th IAHR World Congress*, The Hague, The Netherlands, 28 June-3 July'15.
- [J.33] Waikhom, Sahita Ibopishak, and **Sanjaykumar Madhusudan Yadav**. "A total load approach to predict bed load transport of Indian alluvial river." *ISH Journal of Hydraulic Engineering* (2017): 1-8.
- [J.34] Saxena, Surabhi, and **S. M. Yadav**. "Neuro Fuzzy Application in Capacity Prediction and Forecasting Model for Ukai Reservoir." *In Development of Water Resources in India*, Springer, pp. 103-111. Cham, 2017.
- 

### Articles in National Journal

---

- [J.1] **S. M. Yadav** and B. K. Samtani, An exponential equation for predicting bed load transport rate in sand bed river, *ADIT Journal of Engineering*, 5(1), 2008.
- [J.2] **S. M. Yadav** and B. K. Samtani, Evaluation of Meyer Peters Bed-Load Equation Using Tapi River Data, *Journal of Soil and Water Sciences*, 1(2), 2008.
- [J.3] **S. M. Yadav** and B. K. Samtani, Evaluation of bed load equation using Tapi River data, India, *ISH Journal of Hydraulic Engineering*, 15(1), pp. 1-13, 2009.
- [J.4] **S. M. Yadav**, Estimation of Bed Load by Kalinske’s Equation using Tapi River Data, *ISH Journal of Hydraulic Engineering*, 15(3), pp.97-104, 2009.
- [J.5] **S. M. Yadav**, Co-efficient Discharge for Double & Triple Cycle Labyrinth Weir, *Journal of Soil & Water Sciences*, 15(2), pp. 07-15, 2010.
- [J.6] Prof. D.K Pandit and **S.M Yadav**, Efficient Bid Process Management for Project Success, *NICMAR-Journal of Construction Management*, June 2013.
- [J.7] Prof. D.K Pandit and **S.M Yadav**, Need for Better Consultant Selection Procedures, *Civil Engineering & Construction Review*, March 2013.
-

- 
- [J.8] V.G Yadav, Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Total sediment Transport rate of Alluvial rivers for Non-uniform sediments: The state of Art”, *Indian journal of Applied Research*, Special Issue Jan-2015, pg 78-80.
- 

### Articles in International Conference Proceedings

---

- [C.1] **S. M. Yadav**, Variation effect of Reynolds no. on Ripple factor for Tapi river, *International conference on Hydrology and Watershed Management*, JNTU Hyderabad, December 05-08, 2006.
- [C.2] **S. M. Yadav**, Construction of hundreds of check dams – a joint effort to solve water scarcity problems of Saurashtra and Kachchh region by public participation, *International conference on Public Private Partnership in Water Sector*, Nagpur, November 10-11, 2006
- [C.3] **S. M. Yadav**, Variation Effect of Particle Reynold’s number on Ripple factor for Tapi river, *Third International Groundwater Conference (IGC-2007) on Water, Environment and Agriculture- Present problems and Future Challenges*, TNAU, Coimbatore, February 07-10, 2007.
- [C.4] **S. M. Yadav** Rehabilitation of earthquake affected Kaswati Dam, Gujarat, India, *11 th International Conference on Inspection, Appraisal, Repair and Maintenance of Structures (RB07)*, CI-premier ltd, North Cyprus, November 14-17, 2007
- [C.5] **S. M. Yadav**, Bed load transport rate correction for Tapi river., *International Workshop on Complex Systems in Fluid Flows and sedimentation processes*, Indian Statistical Institute-Kolkata, August 27-31, 2007
- [C.6] **S. M. Yadav**, Modifying Bagnold’s equation and determining ripple factor for monsoon season, Savkheda Gauging station of Tapi river., *Modifying Bagnold’s equation and determining ripple factor for monsoon season, Savkheda Gauging station of Tapi river*, IWTC-2008, Alexandria-Egypt, March 27-30, 2008.
- [C.7] **S. M. Yadav**, Rehabilitation of earthquake affected Tapar dam, Gujarat, India, *12th International Conference of International Association for Computer Methods and Advances in Geomechanics*, Goa organized by IITB, Mumbai, October 01-06, 2008.
- [C.8] **S. M. Yadav**, Mathematical Relationship between Particle Reynolds Number & Ripple Factor, *3rd International Multi Conference on Engineering and Technological Innovations*, Orlando, Florida, USA, July 29-30, 2010.
- [C.9] **S. M. Yadav**, Sea Computation of ripple factor and particle Reynolds number using Tapi river data, India, *Ninth International Conference on Hydro-Science And Engineering*, CED, IIT Madras, Chennai, India, August 02-05, 2010.
- [C.10] **S. M. Yadav**, Mathematical relationship between Ripple factor and shear velocity Reynolds number for Tapi India, *11th International Symposium on River Sedimentation (ISRS)*, Stellenbosch, South Africa, September 06-09, 2010.
- [C.11] **S. M. Yadav**, Mapping Salinity Ingress Using GALDIT Model, *13th International River Symposium*, Perth, Australia, October 11-14, 2010.
- [C.12] **S. M. Yadav**, Sea water Intrusion Mapping using GALDIT Model, *Second International Conference on Coastal Zone Engineering and Management (Arabian Coast 2010)*, Sultan Qaboos University, Sultanate of Oman, Muscat, Oman, November 1-3, 2010
- [C.13] **S. M. Yadav**, Case study of Narmada main canal based drinking water supply project: Issues and challenges, *5th International Conference on Sustainable Development and Planning*, NEW FOREST, UK, July 12-14, 2011.
- [C.14] **S. M. Yadav**, Study of Particle Reynolds number and Ripple factor for Tapi River, India, *International Conference on Rivers 2011*, Penang, Malaysia, December 09-11, 2011.
- [C.15] **S. M. Yadav**, Study of Rainfall pattern for Surat, India, *International conference on Sustainable Water Resources Management and Climate Change adaptation (SWRMCCA)*, National Institute of Technology, Durgapur, West Bengal, India, February 17-19, 2011.
-

- 
- [C.16] Prof. D.K Pandit and **S. M. Yadav**, Identification of Project Development Factors using Factor Analysis (Poster presentation), *International Conference on Applied Mathematics and Statistics, Gujarat University, Ahmedabad*, 17-18 December 2011.
- [C.17] Mr.H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, “Comparison of municipal solid waste management system in world’s two fastest growing cities for better tomorrow: A Case Study of Surat and Kabul”, *4th International congress of Environmental Research*, SVNIT, Surat, 17-12-2011.
- [C.18] H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, “Comparison of Municipal Solid Waste Management System in Developing Countries: A Case study of Ahmedabad, Surat and Kabul”, *International Conference on Civil Engineering and Infrastructural Issues in Emerging Economies*, Sastra University, Thanjavur, Tamil nadu, India Deakin University, Australia, 27 – 28 February 2013.
- [C.19] H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, “Modernization of municipal solid waste transportation system : A case study of Pune”, *International conference on waste, wealth and health*, International Institute of waste management, Bhopal, India, 15-17/ February. 2013.
- [C.20] **S. M. Yadav**, S. I. Waikhom, Darshan Mehta. “Analysis of flood using HEC-RAS: A Case Study of Surat City.” *HYDRO 2013, 18<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), 549-555.
- [C.21] Mrs. S. I. Waikhom, Dr. **S. M. Yadav**, Ms. J. H. Talreja. “Analysis of Sediment transport capacity of river using HEC-RAS”, *Hydro 2013, 18<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), pg. 681-689.
- [C.22] A.P.Avalkar, Dr. **S. M. Yadav**, Prof. S. I. Waikhom, Dr. P. R. Mehta. “Study of saltwater intrusion in to coastal aquifer of South Gujarat, India”, *18<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), pg. 1081-1089.
- [C.23] Mrs. S. I. Waikhom, Dr. S. M. Yadav. “Approaches of Total Sediment Transport of Alluvial River: The State of the Art”, *HYDRO 2014, 19th International Conference on Hydraulics, Water resources & Environmental Engineering Dec. 18-20th , NIT Bhopal India*.
- [C.24] Priyanka Zore, Vijendra Kumar, **S.M.Yadav** and T.Venkateswarlu “Stage-Discharge Models Based On ANN for Dehli Gauging Station of Kim River” *International Conference on Development, Biodiversity and Climate Change: Issues and Challenges 3-5 October, 2014, Chamba Climate Meet, Himachal Pradesh, India*.
- [C.25] Vijendra Kumar, S.M.Yadav, Priyanka Zore and T.Venkateswarlu, 2014, “ANN and MLR Based Stage-Discharge Models for Dehli Gauging Station of Kim River, Gujarat”, *3rd International Conference On “Sustainable Innovative Techniques In Architecture, Civil and Environmental Engineering” ISBN: 978-93-83083-77-0 page no (246-253)*.
- [C.26] Vijendra Kumar, B K Samtani, **S.M.Yadav** and K. Naresh, 2014, “Decadal comparison of rainfall seasonality index in Gujarat”, *3rd International Conference On “Sustainable Innovative Techniques in Architecture, Civil and Environmental Engineering” ISBN: 978-93-83083-77-0 pages no (238-245)*.
- [C.27] **S. M. Yadav**, Vijendra Kumar, B. K. Samtani and Priyanka Zore “Comparison of Rainfall Wetness in Gujarat based on Seasonality Index of different time period” *International Conference on Development, Biodiversity and Climate Change: Issues and Challenges 3-5 October, 2014, Chamba Climate Meet, Himachal Pradesh, India*.
- [C.28] Vijendra kumar, Dr. B. K. Samtani and Dr. **S. M. Yadav** “Sea water intrusion in the coastal area of Navsari District and its control by direct surface method” *HYDRO 2014, 19th International Conference on Hydraulics, Water resources & Environmental Engineering Dec. 18-20th , NIT Bhopal India*.
- [C.29] Darshan Mehta, **S. M. Yadav**, S. I. Waikhom. “Assessing carrying capacity of river reach using HEC-RAS.” *HYDRO 2014, 19<sup>th</sup> International Conference on Hydraulics, Water Resources & Environmental Engineering* (MANIT, Bhopal, 18-20 December 2014).
-

- 
- [C.30] V.G Yadav, Mrs. S. I. Waikhom,, Dr. S. M. Yadav. “Total sediment Transport rate of Alluvial rivers for Non-uniform sediments: The state of Art”, *International Conference on Advances in Engineering*, Saffrony Institute of Technology, Mehsana, Jan 2015.
- [C.31] V G Yadav, Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Evaluation of correlation of dimensionless sediment transport parameters with sediment transport rate”, *36th IAHR World Congress*, The Hague, The Netherlands, 28 June-3 July'15.
- [C.32] Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Comparative study of original Ackers & White relation along with modified coefficient for total sediment load prediction”, *36th IAHR World Congress*, The Hague, The Netherlands, 28 June-3 July'15.
- [C.33] Mrs. S. I. Waikhom, Manali S Shah, Dr. **S. M. Yadav**. “Analysis of selected microscopic approaches of sediment load transport”, *36th IAHR World Congress*, The Hague, The Netherlands, 28 June-3 July'15
- [C.34] Vijendra kumar, **S. M. Yadav** , B. K. Samtani and and Priyanka Zore “Study of Prevention and Control of Seawater Intrusion in the Coastal Areas of Navsari District, Gujarat by Direct Surface Method” *HYDRO 2015 INTERNATIONAL, 20th International Conference on Hydraulics, Water Resources and River Engineering*, 17-19 December, 2015 IIT Roorkee, India.
- [C.35] Mrs. S. I. Waikhom, Mr. Hilay Prajapati, Dr. **S. M. Yadav**. “Evaluation of unit stream power approach for predicting total load transport rate”, *HYDRO 2015 INTERNATIONAL, 20th International Conference on Hydraulics, Water Resources and River Engineering*, 17-19 December, 2015 IIT Roorkee, India.
- [C.36] Mrs. S. I. Waikhom, Manali S Shah, Dr. **S. M. Yadav**. “Analysis of Microscopic Approaches of Total Sediment Load Transport”, *HYDRO 2015 INTERNATIONAL, 20th International Conference on Hydraulics, Water Resources and River Engineering*, 17-19 December, 2015 IIT Roorkee, India.
- [C.37] V.G Yadav, Dr. **S. M. Yadav**. “Total Sediment Transport Model Based on Dimensionless Parameters”, *HYDRO 2015 INTERNATIONAL, 20th International Conference on Hydraulics, Water Resources and River Engineering*, 17-19 December, 2015 IIT Roorkee, India.
- [C.38] Waikhom S, **Yadav S M**. “Comparative analysis of the applicability of Ackers and White Total sediment transport function for River and Flume data”, *20<sup>th</sup> Congress of IAHR Asia Pacific Division*, Colombo, 29-31 August 2016.
- [C.39] Waikhom, S. I., and **S. M. Yadav**. "Variation in total sediment rate prediction using different fall velocity methods." *In River Sedimentation: Proceedings of the 13th International Symposium on River Sedimentation* (Stuttgart, Germany, 19-22 September, 2016), p. 458. CRC Press, 2016.
- [C.40] V. G. Yadav, **S. M. Yadav**, S. I. Waikhom. “A comparison of two total sediment transport models for rivers”, *In River Sedimentation: Proceedings of the 13th International Symposium on River Sedimentation* (Stuttgart, Germany, 19-22 September, 2016), CRC Press, 2016.
- [C.41] Darshan Mehta, **S. M. Yadav**, Sahita Waikhom, Keyur Prajapati. “Stable Channel Design of Tapi River using HEC-RAS for Surat Region.” *HYDRO 2016, 21<sup>st</sup> International Conference on Hydraulics, Water Resources and River Engineering*, 08-10 December, 2016, CWPRS, Pune, India
- [C.42] Rahul Patel, S I Waikhom, **S M Yadav**. “Estimation of suspended sediment concentration in lined canal”, *International Conference on Research and Innovations in Science, Engineering & Technology (ICRISET)*, 2017.
- [C.43] Darshan Mehta, **S. M. Yadav**, Sahita Waikhom. “HEC-RAS flow analysis in the river Tapi.” *37<sup>th</sup> IAHR World Congress* (Kuala Lumpur, Malaysia) August 2017
-

## Articles in National Conference Proceedings

---

- [C.1] **S. M. Yadav**, H. G. Bavishiya and B. K. Samtani, Sea Water Intrusion and Its Control By Surface Spreading Method for Kodinar Taluka of Saurashtra Region, *National Conference & Exhibition on Civil Engineering: Meeting the Challenges of Tomorrow (CEMET:2006)*, Guru Nanakdev Engineering College, Ludhiana, Punjab, November 24-25, 2006.
- [C.2] **S. M. Yadav** and B.K.Samtani, Modifying E. Browns Equation and Determining Ripple Factor for Monsoon Season, Savkheda Gauging Station of Tapi River, *Hydraulics and Water Resources, National Conference on Hydraulics & Water Resources HYDRO–2007, SVNIT, Surat, December 21-22, 2007.*
- [C.3] H. G. Bavishiya, **S. M. Yadav** and B. K. Samtani, Effects of Sea Water Intrusion and its Control by various Surface spreading Method for a Coastal Area of Saurashtra Region, *Hydraulics and Water Resources, National Conference on Hydraulics & Water Resources HYDRO–2007, SVNIT, Surat, December 21-22, 2007.*
- [C.4] H. G. Bavishiya, **S. M. Yadav** and B. K. Samtani, Effect of Multiple Well Recharging on Sea Water Intrusion, *Hydraulics and Water Resources, National Conference on Hydraulics & Water Resources HYDRO–2007, SVNIT, Surat, December 21-22, 2007.*
- [C.5] B.J. Mahida and **S. M. Yadav**, Effect of Impervious Barrier on Salt Water Intrusion, *Hydraulics and Water Resources, National Conference on Hydraulics & Water Resources HYDRO–2007, SVNIT, Surat, December 21-22, 2007.*
- [C.6] H. D. Dadhania, **S. M. Yadav**, B. K. Samtani and G. D. Kale, Experimental study of effect of increase of recharge on sea water intrusion, *National Conference on Emerging Trends In Civil Engineering*, Engineering College, Tumkur, May 22-23, 2007.
- [C.7] K. A. Chauhan, N. C. Shah and **S. M. Yadav**, A Case Study on Housing affordability Based on Area Vs Income for Three Nodes of Surat Urban Area, *National Conference on Soft computing Techniques*, Govt. College of Engineering, Ujjain, March 20-21, 2007.
- [C.8] **S. M. Yadav** and B. K. Samtani, Variation Effect of Shear Velocity Number on Ripple Factor for Tapi River, *National Conference on Soft computing Techniques*, Govt. College of Engineering, Ujjain, March 20-21, 2007.
- [C.9] **S. M. Yadav** and B. K. Samtani, Case study of Hydraulic Geometry of Sarangkhedha Station of Tapti River, *National Conference on Emerging Technology and Developments*, Govt. College of Engineering, Amaravati, March 22-23, 2007.
- [C.10] H. D. Dadhania, **S. M. Yadav** and B. K. Samtani, Experimental study of effect of increase of recharge on sea water intrusion, *National conference on Civil Engineering: Advancement and Challenges*, Mullana M. Engineering college, Ambala, Hariyana, March 07-08, 2007.
- [C.11] **S. M. Yadav**, Modifying E.Brown's equation and determining Ripple Factor for Pre Monsoon Season, Sarangkhedha Gauging Station of Tapi River, *National Conference on Advances in Civil Engineering organized, Maharashtra Academy of Engineering Education and Research's Institute of Technology, Pune, 2008.*
- [C.12] **S. M. Yadav**, Evaluation of Kalinske's equation using Tapi river data, *Indian National Conference on Advances in Hydraulic Engineering with specific emphasis on Model-Prototype conformity*, CWPRS, Pune, November 6-7, 2008.
- [C.13] **S. M. Yadav**, Evaluation of Kalinske's Bedload Equation *National Conference on Integrated Water and Wastewater Management* Jadavpur University, Kolkata, November 20-22, 2008.
- [C.14] **S. M. Yadav** and B.K.Samtani, Modifying Bagnolds Equation and determining Ripple Factor For Monsoon Season, Savkheda Gauging Station of Tapi River, *2<sup>nd</sup> National Conference on Focusing on Advances in Civil Engineering*, Thangal Kunju Musaliar College of Engineering, Kollam, Kerala, February 21-23, 2008.
- [C.15] **S. M. Yadav**, Evaluation of Duboy's Bed load equation using Tapi river data, *National Conference on Innovations and Applications of Mathematical Modeling Techniques in Engineering Systems*, ADIT, V V Nagar, December 10, 2008.
-

- 
- [C.16] **S. M. Yadav**, Mathematical model for Labyrinth single cycle Trapezoidal weir, *National Conference on Hydraulics, Water Resources and Environment, HYDRO 2008*, MNIT, Jaipur, December 15-16, 2008.
- [C.17] **S. M. Yadav** and B.K.Samtani, Modifying Bagnolds Equation and determining Ripple Factor for Pre Monsoon Season, Savkheda Gauging Station of Tapi River, *National Seminar on Application of GIS in Civil Engineering*, Karunya University, Coimbaore, TamilNadu, India, February 16, 2008.
- [C.18] **S. M. Yadav** and B.K.Samtani, Modifying Shields Equation and determining Ripple Factor for Monsoon Season, Savkheda gauging Station of Tapi River, *National Seminar on Integrated Water Management and Sustainable Water Pricing (IWMSWP-200)*, Rajasthan Technical University, Kota, February 08-09, 2008.
- [C.19] **S. M. Yadav**, Estimation of Bed Load by Kalinske's equation using Tapi river data, *Innovation without limits (CEC-09)*, Civil engineering Department, Hamirpur, September 18-19, 2009.
- [C.20] **S. M. Yadav**, Mathematical relationship between ripple factor and boundary Reynolds number for Tapi river, India, *Innovation without limits*, CED, Hamirpur, 18-19, 2009.
- [C.21] **S. M. Yadav**, Study of Ripple factor and Boundary Reynolds number for Post monsoon, Tapi river, India, *The National Specialty Conference on River Hydraulics*, Mullana and Indian Society for Hydraulics at Maullana, October 29-30, 2009.
- [C.22] **S. M. Yadav**, Study of Shields Entrainment Function (Monsoon) for river Ambika of South Gujarat, *National Conference on Hydraulics, Water Resources and Environment, HYDRO 2009*, CWPRS, Pune, December 15-16, 2009.
- [C.23] **S. M. Yadav**, Conservation of fresh water through mixed usage of saline and fresh water –A case study of SVNIT Campus, *National seminar on Water and Sanitation for all, 42nd Annual Convention of IWWA*, Jodhpur, January 29-31, 2010.
- [C.24] **S. M. Yadav**, Water supply Management in SVNIT campus through mixed usage of fresh and saline water, *National Seminar on Conservation of Lakes and Water Resources: Management Strategies*, Maharana Pratap University of Agriculture and Technology, Udaipur, February 19-20, 2010.
- [C.25] **S. M. Yadav**, Sea Computation of ripple factor and particle Reynolds number using Tapi river data, India, *Ninth International Conference on Hydro-Science And Engineering*, CED,IIT Madras, Chennai, India, August 02-05, 2010
- [C.26] **S. M. Yadav**, Case Study: Estimation of probable maximum precipitation for Surat, *National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering*, M.M.University,Mullana, Ambala, December 16-18, 2010.
- [C.27] **S. M. Yadav**, Rehabilitation of Butta Dam – A case study, *National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering*, M.M.University, Mullana, Ambala, December 16-18, 2010.
- [C.28] **S. M. Yadav**, Solid Waste Management System: A Case Study of Navsari Town, Gujarat, India, *National Conference on New Horizons for Sustainable Tomorrow*, SCET,Surat (Gujarat),India, February 18-19, 2011.
- [C.29] Mr.H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, Solid Waste Management System: Case study of Navasari town, *National Conference on 'Sustainable Tomorrow'*, SCET , Surat, 19th Feb. 2011
- [C.30] D.K Pandit and **S. M. Yadav**, Consultant Selection in India : Far from Ideal, *Emerging Trends in Contracts and Dispute Resolution*, Indian Institute of Technical Arbitrators, Chennai, 2-3 March 2012.
- [C.31] D.K Pandit and S. M. Yadav, Performance Indicators for Measuring Performance of Construction Projects, *Symposium on Sustainable Infrastructure Development*, IIT Bhubneswar, Orissa, 8-9 February 2013.
- [C.32] H.J.Parekh, Dr.K.D.Yadav, **S.M.Yadav**, Dr.N.C.Shah, "Role of Refuse Transfer Station in Modern Solid Waste Transportation Systems", *Workshop and Symposium on sustainable Infrastructure Development (SID)*, IIT Bhubaneswar, Odisha, India, 8-9 February 2013.
-



- 
- [C.33] T.Venkateswarlu, **S.M.Yadav**, Vijendra Kumar, Priyanka Zore, P.G.Agnihotri and V.L.Mankar,, “Development Of Stage-Discharge Models For Dehli Gauging Station Of Kim River Using Ann And Mlr Technique”, *Trends and Challenges of Civil Engineering in Today's Transforming World.2014*
- [C.34] Vijendra Kumar, Utkarsh Nigam, **S. M. Yadav**, B. K. Samtani , “Hydel Energy Potential in India and Introduction to Power Generation using Small Hydel Power Plant” *National conference: recent advances in civil & structural engineering page no(285-290) 2014.*
- [C.35] Ms. P.R.Khokhar, Dr. **S. M. Yadav**, Mrs. S. I. Waikhom. “Analysis of Bed load for steep slope channel”, *National Conference on Trends and challenges of Civil Engineering in Today's Transforming World*, SNPIT,Umrakh, March, 2014.
- [C.36] A.R Patel, Dr. **S. M. Yadav**, Mr. R.B.Khasiya, Mrs S.I.Waikhom. “Analysis of flood using HEC-RAS”, *National Conference on Trends and challenges of Civil Engineering in Today's Transforming World*, SNPIT,Umrakh, March, 2014.
- [C.37] Darshan Mehta, **S. M. Yadav**, Sahita I. Waikhom. “1-D hydrodynamic modeling of flooding in the lower Tapi river basin in Surat, Gujarat.” *National Conference on Recent Advances in Civil and Structural Engineering.* (A.D.I.T, Vallabh Vidhyanagar, 25-26 April 2014).
- [C.38] Payal, S I Waikhom, Dr. **S. M. Yadav**. “Assessing Bed load formula for Steep Slope channel using Flume Data”, *National Conference on Recent Advances in Civil and Structural Engineering.* (A.D.I.T, Vallabh Vidhyanagar, 25-26 April 2014).
- [C.39] Mr. Yazad Jabbar, Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Use of Dimensional Analysis to assess parameters correlated to Total Sediment Transport Rate”, National Conference on Recent Research in Engineering and Technology, Anand, 26-27 Feb 2015.
- [C.40] Mr. Hilay Prajapati, Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Assessing the predictability of Total sediment Transport rate for Unit Stream Power Approach”, National Conference on Recent Research in Engineering and Technology, Anand, 26-27 Feb 2015.
- [C.41] Ms Manali S Shah, Mrs. S. I. Waikhom, Dr. **S. M. Yadav**. “Predictability of Sediment transport using selected transport formula”, National Conference on Recent Research in Engineering and Technology, Anand, 26-27 Feb 2015.
- [C.42] Darshan Mehta, **S. M. Yadav**, Sahita I. Waikhom. “Prediction of Flood for Lower Tapi river using HEC-RAS.” *3<sup>rd</sup> National Conference on Innovative & Emerging Technologies.* (S. R. Patel College of Engineering, Dabhi Unjha, 17-18 April 2015).
- [C.43] Dr. S. M. Yadav, S.I. Waikhom, Aarti Avalkar, Dr. P. R. Mehta, Vipin Kumar Yadav. “Groundwater quality assessment using Water Quality Index (WQI) approach – Case study in a coastal region of South Gujarat, India”, India Water Week, New Delhi, 13-17 January 2015.
- [C.44] Darshan Mehta, **S. M. Yadav**, Sahita I. Waikhom. “Computation of hydraulic Paramters of the Lower Tapi River using 1-D Hydrodynamic Model HEC-RAS”. *National Conference on Transportation and Water Resource Engineering.* L. D. College, Ahmedabad, 25-26 April 2015
- [C.45] Bhagia S, Waikhom S, Yadav S M. “Simulation of rainfall runoff modelling using HEC-HMS for Purna subbasin”, *National Conference on Recent Advances in Civil Engineering (RACE' 16)*, SVNIT, Surat, March 2016.
- [C.46] Prajapati K, Waikhom S, Yadav S M. “Analysis of models among meander features for Tapi river data”, *National Conference on Recent Advances in Civil Engineering (RACE' 16)*, SVNIT, Surat, March 2016.
- [C.47] Saha R, Waikhom S, Yadav S M. “Evaluation of sediment transport equations for Irrigation canal”, *National Conference on Recent Advances in Civil Engineering (RACE' 16)*, SVNIT, Surat, March 2016.
- [C.48] Waikhom S, Yadav S M. “Applicability of unit stream power approach for predicting total load transport rate”, *National Conference on Recent Advances in Civil Engineering (RACE' 16)*, SVNIT, Surat, March 2016.
- [C.49] Upadhyay A, Waikhom S, Yadav S M. “Evaluation of suspended sediment transport functions using flume and river data”, *National Conference on Recent Advances in Civil Engineering (RACE' 16)*, SVNIT, Surat, March 2016.
-

- 
- [C.50] Upadhyay A, Waikhom S, Yadav S M. “Analysis of stream power approach for predicting suspended load transport rate”, *National Conference on RACEGS-2016*, SSASIT, Surat, March 2016.
- [C.51] H N Prajapati, Manali S Shah, S. I. Waikhom, Dr. S. M. Yadav. “Evaluation of sediment transport function using different fall velocity equations”, *National Conference on RACEGS-2016*, SSASIT, Surat, March 2016.
- [C.52] Waikhom S, Yadav S M. “Testing of Maddock's approximate estimation of Bed load for rivers”, *National Conference on Water Resources & Flood Management*, SVNIT, Surat, October, 2016.
- 

## Reviewer – Journal

---

- Indian Society of Hydraulics- Journal of Hydraulic Engineering
- International Association for Computer Methods and Advances in Geo-mechanics Conference, Goa
- Indian Journal of Water and Waste Water Association
- Global Journal of Environmental Research (Chief Associative Editor)
- International Journal of Sediment Research, China
- Journal of Soil and Water Sciences, ICFAI University Press, Hyderabad
- Journal of Civil Engineering, ICE, Thomas Telford, London (Panel member)

## Professional Affiliations

---

- Life Member, Indian Society for Technical Education ,New Delhi, India
- Life Member, Institute of Engineers, Calcutta, India
- Life Member , Indian Water Works Association , Bombay, India
- Life member, ISH, Pune, India
- Life member, IASWC, Dehradun, India
- Life member, IVS, Delhi, India
- Life member, IUTP, Delhi, India
- Member, World Association of Sedimentation and Erosion Research, Beijing, China.
- Life member, Association of Hydrologists of India, Hyderabad.
- Member, International Association of Hydraulic Engineering and Research (IAHR), Madrid, Spain.
- Life member, Association of Wind Engineering, Roorkee.

## Research Project

---

Sr. No.	Details	Duration
1.	Need for development of water resources and flood management centre, <i>National Co-ordinate project(NCP)</i>	3 years
2	Erosion of non uniform unimodal and bimodal sediments, <i>Department of science and technology(DST)</i>	3 years
3	Mapping and monitoring of water resources data and modeling water system in selected watershed, <i>NRDS</i>	3 years

---

## Supplementary information

### Winter Summer School/Training

Sr. No.	Details	Duration
1.	Application orientation in Engineering Mathematics and Mathematical Modeling, organized by ASHD, SVNIT, Surat	December 26-30, 2006
2	Fuzzy set theory & its Application in Civil and Environmental Engineering, organized by CED, SVNIT, Surat	January 08-13, 2007
3	Management capacity development program For Future Managers, EQUATE SVNIT, Surat	February 04-08, 2008
4	MIKE 11 Training course, SVNIT, Surat	May 05-09, 2008
5	Applications of mathematical sciences and soft computing	December 08-12, 2008
6	Urban infrastructure and services: Planning and implementation, SVNIT	January 05-09, 2009
7	Pavement design and management system SVNIT, Surat,	January 2009
8	Advances in water resources engineering, SVNIT, Surat	December 22-26, 2008
9	Treatment and disposal of Waste waters, SVNIT, Surat	October 05-09, 2009
10	Engineering Drawing Using CAD, SVNIT, Surat	November 23-27, 2009
11	Urban Infrastructure Development and Finance Management, SVNIT, Surat	February 15-19, 2010
12	Improving Employee Accountability For Achieving Goals In Organization, Sponsored By TEQIP	January 23 2016
13	1st National Conference on “RECENT ADVANCES IN CIVIL ENGINEERING” , TEQIP II, CED, SVNIT, Surat	March 5-6 2016
14	Thermal Fluid – Science And Tribo Applications (TFSTA-2016)	27-28 may 2016
15	Arrange expert lecture on ‘Key to Success’ by Anand Nidu, regional LN international south Gujarat Surat	September 6, 2016
16	Arrange expert lecture on ‘Carrier Counseling’ by Bomika In association with SVNIT AA	September 6, 2016
17	Arrange expert lecture on ‘Role of Alumina in the development of Institute’ SVNIT	November 18, 2016
18	Organized STTP on ‘River Flood Analysis and Modelling’ SVNIT	Dec 19 to 21 2016

### Organization skills

- Organized STTP on ‘River Flood Analysis and Modelling’ CED SVNIT 19 to 21 Dec 2016.
- 1st National Conference on “RECENT ADVANCES IN CIVIL ENGINEERING” ,(RACE-2016),5-6 March 2016,Under TEQIP II,CED, SVNIT, Surat.
- Improving Employee Accountability For Achieving Goals In Organization, (23rd January, 2016)Sponsored by TEQIP, Phase II on Saturday 23rd January 2016, (9:00 am to 1:00 pm)at Production Seminar Hall.
- Coordinator for Workshop on River Hydraulic and management of Indian Rivers by CED, SVNIT, Surat on 2 March 2014.

- Coordinator for Workshop on Watershed Management organized by CED, SVNIT, Surat on 23 May 2011.
- Coordinator for Seminar on Water Resources Development and Management on the occasion of World Water Day 2011 organized by CED, SVNIT, on 28 March 2011.
- Coordinator for Three day workshop on Urban Storm Drainage Designing and Modeling organized by CED, SVNIT and Sponsored by BVM, VV Nagar during 7-9 January 2011.
- Coordinator for AICTE Sponsored Staff Development programme on Civil Project: Development and Management during 20-24 July 2009.
- Coordinator for Seminar on Water Resources: Issues and Challenges organized by Institute of Engineers(I), Surat on 30 March 2009
- Coordinator for Seminar on Water Resources Management organized jointly by CWC and CED, SVNIT, Surat on 27 March 2009.
- Coordinator for AICTE Sponsored Staff Development programme on Wind Energy during 19-23 January 2009

*Place:* SVNIT, Surat

*Date:* **22 Aug 2017**

(Dr. SANJAYKUMAR M. YADAV)