

# Curriculum Vitae: Dr. Sanjaykumar M. Yadav

Professor, Independent Director( TRDCL)

Water Resources Engineering

Department of Civil Engineering

SV National Institute of Technology

Surat 395007, Gujarat, INDIA

Tel: +091-0261-2201855 (O)

Mob: +091-09426152906


Gmail: shivnam27@gmail.com

[smy@ced.svnit.ac.in](mailto:smy@ced.svnit.ac.in)

LinkedIn:  Dr S M Yadav, Professor, DoCE, SVNIT, Surat

Instagram:  [profsmyadav](https://www.instagram.com/profsmyadav)

Facebook :  Sanjay Yadav

Youtube :  @DrSMYadav-gk3pl



## 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
- Sept 1983–June 1987 : SPU, Surat, Gujarat. (INDIA)  
**B.E.** in Civil Engineering

## Professional positions held

Name of Employer & place	Designation or 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

Name of Employer & place	Designation or post held	Nature of work	Period		Years and Months
			From	To	
SVNIT, Surat	Professor	Academic	Aug.`89	Till Date	36 Years

## Research Areas

- Numerical Weather Prediction(NWP) and Predictive Modelling
- Ensemble Forecasting and Early Warning Systems
- Hydro climatology and Climate Change Impact Assessment
- Hydrology and Hydraulic Modelling
- Water Resources Management : Water Conservation, Ground Water Recharge
- Hydro informatics
- Fluvial hydraulics
- Urban Infrastructure Planning

## Courses taught

- Hydraulic Engineering
- Fluid Mechanics
- Water Resources System
- Free Surface Flow/Channel Hydraulics
- Hydropower Engineering
- Advanced Hydrology
- Professional Practice
- Estimation Specifications and Valuation

## Research Projects

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	Flood modelling in semi-arid regions, <i>TEQIP</i>	2 years

## Teaching experience

**Ph.D. Guidance (Completed including thesis submitted)**

<b>Sl. No.</b>	<b>Title of the Thesis</b>	<b>Name of Candidate</b>	<b>Total No. of super visors</b>	<b>Date of award/Subm ission/ Viva voce</b>
1	Performance Evaluation and Ranking of Municipal Solid Waste Management System	Harshul. K. Parekh	2	12/03/2016
2	Evolution of an Index to Measure the Project Development Efficiency	Devanshu. K. Pandit	1	24/11/2015
3	Assessment and Development of Total Sediment Transport Function for Indian Rivers	Mrs. Sahita Waikhom	1	16/09/2019
4	Development of integrated approach for mapping of flood and drought in semi-arid ungauged river basin	Mrs. Preeti Ramkar	1	04/10/2019
5	Single and multi-objective optimization of reservoir operation models using TLBO and Jaya algorithms	Vijendra Kumar	1	11/09/2020
6	Trend analysis and rainfall variability for Tapi basin	Ms. Pareshakumari M Baria	1	19/11/2020
7	Modelling reservoir sedimentation from hydrographic observations using hydrometric data	Yazad C. Jabbar	1	15/01/2021
8.	Simulation of Sediment yield in the Upper Narmada River Basin under changing Land Use and Land Cover	Bankim Joshi	1	12/09/2022
9.	Optimisation of cropping patterns in the command area of single and multiple reservoir system of Semi-Arid river basin	Bhavana Ajudiya	2	27/06/2022
10.	Bed Load measurement and analysis in ephemeral rivers	Vipin Kumar Yadav	1	07/07/2023
11.	Modelling multiple leakages of urban water distribution networks	Nidhi Pandya	2	17/08/2023
12.	Spatial variation of extreme flood in data scare semi-arid region	Shaikh Mohamed Maroof Peermohamed	2	27/09/2023
13.	Spatio-Temporal analysis of precipitation for the semi-arid region of South West part of Rajasthan, India	Mehta Darshan	1	18/10/2023
14.	Spatio-temporal trend analysis of streamflow and suspended sediment discharge for Godavari River Basin India	Madhura Aher	1	26/12/2023
15.	Reservoir Inflow Forecasting Model for Semi-Arid River Basin Using Ensemble Approach	Annant Patel	1	25/03/2025
16.	Integrated Hydrologic Ensemble Prediction System for Flood Forecasting ,Inundation Mapping and Hazard Assessment	Rashmi Yadav	1	Thesis Submitted

17.	An Integrated Framework for Ensemble-based Inflow and Reservoir Release Forecasting combining Rain Gauge Analysis and Hydrological Modelling in the Indian River Basin.	Ayushi Panchal	1	Synopsis Submitted
18	Hydrosedimentological Analysis of Western and Northern Indian River Basins: LULC Impacts and Regional Variability (Tentative)	Malani Urvashi	1	Pre Synopsis Approved

**PG Dissertation Guided (2010 onwards)**

Sl. No.	Title of the Project	Name of supervisor(s)	Academic session
1	Optimization of Karjan Command Area By Using Linear Programming	Dr. B K Samtani, Dr S M Yadav	2011-12
2	A Case Study on Village Sokhada “Water Distribution Network Design and Analysis”	Dr. B H Pandit, Dr. S M Yadav	2011-12
3	Ground Water Analysis: A Case Study of Valsad and Navsari District	Prof. S I Waikhom, Dr. P. R. Mehta, Dr S M Yadav	2012-13
4	Geomorphic Channel Design and Analysis Using HEC-RAS Hydraulic Design Functions	Prof. S I Waikhom, Dr. S M Yadav	2012-13
5	Assessing Predictive Capability of Selected Bed Load Equations Using Experimental and Flume Data	Dr S M Yadav, Dr. B K Samtani	2012-13
6	Study of Sukhi Reservoir Storage Using MLR and ANN Techniques	Prof. B M Vadher, Dr. S M Yadav	2012-13
7	Analysis of Sediment Trapped By Check Dam of Uchhchhal and Nizar Region	Dr. S M Yadav	2012-13
8	Analysis of Sediment Trapped Behind Slit and Beam Type Check Dams: A Case Study of Vansda Taluka	Dr. S M Yadav	2012-13
9	One Dimensional Numerical Modelling of Unsteady Flow and Reservoir Sedimentation: A Case Study of Lower Siang Project	Dr S M Yadav, Dr. P D Porey	2013-14
10	Sea Water Intrusion in the Coastal area of Navsari District and its Control by Surface Spreading Methods.	Dr. B K Samtani, Dr. S M Yadav	2013-14
11	One Dimensional Numerical Modelling for Flood Events Using HEC-RAS	Dr. R B Khasiya, Dr. S M Yadav	2013-14
12	Optimal Crop Panning Using a CCLP Model	Dr. B M Vadher, Dr. S. M. Yadav	2013-14
13	Analysis of Dimensionless Flow Parameters Influencing Sediment Transport Rate	Dr. S M Yadav	2014-15
14	Testing of Stream Power Equations for the Computation and Prediction of Total Sediment Concentration	Dr. S M Yadav	2014-15

15	Simulation and Scenario analysis to Assess future water demands in the South Gujarat region using Wrap model	Dr. S M Yadav	2015-16
16	Determination of Roughness Coefficient for Narmada Stream in Gujarat	Prof. B M Vadher, Dr. S M Yadav	2015-16
17	Experimental Investigation of the effect of horizontal plates on the reduction of local Scour Around a Single Bridge Pier	Dr. S M Yadav	2015-16
18	Study of Computed Bed Load to Suspended Load ration for Narmada River	Dr. B K Samtani, Dr. S M Yadav	2016-17
19	Analysis of Bed Load Equations using Measured Bed load and Bed-Material load of Mountainous Stream	Dr. S M Yadav	2016-17
20	Measurement of Longitudinal Distribution of Suspended Sediments in Irrigation Canal	Prof. S I Waikhom, Dr. S M Yadav	2016-17
21	1D and 2D hydrodynamic modelling of Banas River from downstream of Dantiwada and Sipu dam to Kamalpur using HEC RAS	Dr. S M Yadav	2017-18
22	Study of computed Bed load to Suspended load ratio for Narmada River	Dr. B K Samtani, Dr. S M Yadav	2017-18
23	Measurement of longitudinal distribution of suspended sediments in irrigation canals	Prof. S I Waikhom, Dr S M Yadav	2017-18
24	Hydrodynamic modelling for Ambika River basin using HEC RAS	Prof. D J Mehta, Dr S M Yadav	2018-19
25	Assessing role of contour canal in flood inundation extent of semi-arid river basin	Dr. S M Yadav	2018-19
26	Temporal analysis of rainfall and temperature over a semi-arid state (Gujarat) of India	Prof. V G Yadav, Dr. S M Yadav	2018-19
27	Hydraulic and hydrologic modelling of semi-arid river basin	Prof. D J Mehta, Dr. S M Yadav	2019-20
28	Dam break analysis: a case study of Ukai dam	Prof. D J Mehta, Dr. S M Yadav	2019-20
29	Hydrodynamic modelling of Sukhbhadar River reach	Dr. S M Yadav	2020-21
30	Non-uniform bedload transport using flume and field data	Dr S M Yadav	2020-21
31	Rain gauge network analysis for flood forecasting	Prof. D J Mehta, Dr. S M Yadav	2020-21
32	Evaluation of spatial and temporal variation in bed load transport in mountain river through field measurement	Prof. V G Yadav, Dr. S M Yadav	2020-21
33	Modelling non-stationarity in intensity, duration and frequency of extreme rainfall over Ambica Basin	Dr. S M Yadav	2020-21
34	Hydrodynamic modelling of Lilka River Basin	Dr. S M Yadav	2020-21
35	Application of ensemble technique for streamflow forecasting	Dr. S M Yadav	2020-21
36	Design of cutoff channel and analysis of flow and sediment process in Rapti River reach, India	Dr. S M Yadav	2021-22

37	Hydrodynamic and sediment transport investigation for Ghaghara River Uttar Pradesh, India	Dr. S M Yadav	2021-22
38	Development of Two dimensional hydrodynamic using Doppler Weather radar precipitation data	Dr. S M Yadav	2021-22
39	Assessment of changes in extreme rainfall characteristics over Purna river basin, Gujarat	Prof.D J Mehta, Dr S M Yadav	2022-23
40	Development of optimization model for the allocation of Karjan Reservoir	Dr Sahita Waikhom,Dr S M Yadav	2022-23
41	Identification of key rain gauges in humid climatic region of part of lower Narmada Basin	Dr Sahita Waikhom,Dr S M Yadav	2022-23
42	Development of Groundwater model to study the effect of pumping and recharge on groundwater level	Dr S M Yadav	2022-23
43	Design of sewerage network for newly added town planning scheme: Innovating with a neighborhood-focused strategy	Dr S M Yadav	2023-24
44	1D hydrodynamic Modelling of stream flow and stability analysis for diversion channel(Ongoing)	Dr S M Yadav	2025-26

## **Publications (Google Scholar Citation: 1974, h-index 25, i10-index 55)**

<https://scholar.google.co.in/citations?user=TJw0NJIAAAAJ&hl=en>

### **Articles in International Journal**

- [IJ.1] Panchal, A., Yadav, S.M. Analysis of ensemble and control forecasts from GEFS and NEPS for reservoir inflow prediction. *Stoch Environ Res Risk Assess* 40, 80 (2026). <https://doi.org/10.1007/s00477-026-03200-7>
- [IJ.2] Yadav, R., Yadav, S.M. Calibration of TIGGE ensemble precipitation forecasts using Bayesian model averaging for a semi-arid river basin. *Acta Geophys.* 74, 114 (2026). <https://doi.org/10.1007/s11600-026-01851-2>
- [IJ.3] Jabbar, Y., Yadav, S. Analysing Mega Flood Event in the Tapi Basin: A Framework for Sustainable Reservoir Sediment Management. *J Indian Soc Remote Sens* 54, 519–535 (2026). <https://doi.org/10.1007/s12524-025-02309-6>
- [IJ.4] Jabbar, Y., & Yadav, S. (2025). Reservoir capacity estimation from Landsat 7 imagery using spatially parameterized bias correction model. *Hydrological Sciences Journal*, 70(12), 2181–2196. <https://doi.org/10.1080/02626667.2025.2531995>
- [IJ.5] Teegavarapu, R. S., Pathak, C. S., Curtis, D., Yadav, S. M., Patel, A., & Panchal, A. (2025). Use of Ensemble-Based Forecasting Methods in Reservoir Operation: Issues and Implementation Challenges. *Journal of Hydrologic Engineering*, 30(4), 03125001.
- [IJ.6] Yadav, R., & Yadav, S. M. (2024). BHARAT: a MADM approach to prioritizing the best performing EPS in a semi-arid river basin. *Natural Hazards*, 1-21.
- [IJ.7] Kumar, V., Sharma, K. V., Pham, Q. B., Srivastava, A. K., Bogireddy, C., & Yadav, S. M. (2024). Advancements in drought using remote sensing: assessing progress, overcoming challenges, and exploring future opportunities. *Theoretical and Applied Climatology*, 1-38.

- [IJ.8] Patel, A., & **Yadav, S. M.** (2024). Performance evaluation and verification of post-processing methods for TIGGE ensemble data using machine learning approaches. *Journal of Water and Climate Change*, 15(4), 1729-1749.
- [IJ.9] Malani, U., & **Yadav, S. M.** (2024). Spatiotemporal assessment of rainfall variability and its characteristics over Rapti River Basin, India. *Water Practice & Technology*, wpt2024046.
- [IJ.10] Mehta, D., Dhabuwala, J., **Yadav, S. M.**, Kumar, V., & Azamathulla, H. M. (2023). Improving flood forecasting in Narmada river basin using hierarchical clustering and hydrological modelling. *Results in Engineering*, 20, 101571.
- [IJ.11] Mehta, D., **Yadav, S. M.**, Ladavia, C., & Caloiero, T. (2023). Drought projection using GCM & statistical downscaling technique: A case study of Sirohi District. *Results in Engineering*, 20, 101605.
- [IJ.12] Mehta, D. J., & **Yadav, S. M.** (2023). Meteorological drought analysis in Pali District of Rajasthan State using standard precipitation index. *International Journal of Hydrology Science and Technology*, 15(1), 1-10.
- [IJ.13] Patel, A., & **Yadav, S. M.** (2023). Development of flood forecasting and warning system using hybrid approach of ensemble and hydrological model for Dharoi Dam. *Water Practice & Technology*, 18(11), 2862-2883.
- [IJ.14] Patel, A., & **Yadav, S. M.** (2023). Improving the reservoir inflow prediction using TIGGE ensemble data and hydrological model for Dharoi Dam, India. *Water Supply*, 23(11), 4489-4509.
- [IJ.15] Yadav, R., & **Yadav, S. M.** (2023). Evaluation of parametric postprocessing of ensemble precipitation forecasts of the NCMRWF for the Vishwamitri River Basin. *Journal of Hydroinformatics*, 25(2), 349-368.
- [IJ.16] Mehta, D. J., & **Yadav, S. M.** (2023). Meteorological drought analysis in Pali District of Rajasthan State using standard precipitation index. *International Journal of Hydrology Science and Technology*, 15(1), 1-10.
- [IJ.17] Patel, A., & **Yadav, S. M.** (2022). Stream flow prediction using TIGGE ensemble precipitation forecast data for Sabarmati River basin. *Water Supply*, 22(11), 8317-8336.
- [IJ.18] Malani, U., & **Yadav, S. M.** (2022). Impact of historical and future land use land cover on spatial-temporal variation of discharge and sediment load of Upper Tapi Basin, India. *Water Supply*, 22(11), 8266-8286
- [IJ.19] Patel, Z. B., & Yadav, S. M. (2022). Analysis of changes in extreme rainfall characteristics over Ambica river basin, India. *ISH Journal of Hydraulic Engineering*, 1-11.
- [IJ.20] Shaikh, M., **Yadav, S. M.**, & Manekar, V. (2022). Application of the Compound Factor for Runoff Potential in Sub-watersheds Prioritisation Based on Quantitative Morphometric Analysis. *Journal of the Geological Society of India*, 98(5), 687-695.
- [IJ.21] Kumar, V., & **Yadav, S. M.** (2022). A state-of-the-Art review of heuristic and metaheuristic optimization techniques for the management of water resources. *Water Supply*, 22(4), 3702-3728.
- [IJ.22] Kumar, V., & **Yadav, S. M.** (2022). Multi-objective reservoir operation of the Ukai reservoir system using an improved Jaya algorithm. *Water Supply*, 22(2), 2287-2310.
- [IJ.23] Anant Patel, **SM Yadav** (2021) "Street Level Flood Monitoring and Warning System a Conceptual Model Using IoT: A Case of Surat City" *Disaster Advances*, ISSN-2278-4543. Accepted on 30<sup>th</sup> Sept 2021.
- [IJ.24] Shaikh, M. P., **Yadav, S. M.**, Manekar, V. L., & Samtani, B. K. (2022). Flood modelling for a data-scarce semi-arid region by using a synthetic unit hydrograph and 1D or 2D hydrodynamic model. *International Journal of Hydrology Science and Technology*, 13(4), 373-402.

- [IJ.25] Shaikh, M. P., **Yadav, S. M.**, & Manekar, V. L. (2022). Assessment of the empirical methods for the development of the synthetic unit hydrograph: a case study of a semi-arid river basin. *Water Practice & Technology*, 17(1), 139-156.
- [IJ.26] Mehta, D. J., & **Yadav, S. M.** (2022). Long-term trend analysis of climate variables for arid and semi-arid regions of an Indian State Rajasthan. *International Journal of Hydrology Science and Technology*, 13(2), 191-214.
- [IJ.27] Shaikh, **M.**, **Yadav, S.**, & Manekar, V. (2021). Accuracy assessment of different open-source digital elevation model through morphometric analysis for a semi-arid river basin in the western part of India. *Journal of Geovisualization and Spatial Analysis*, 5(2), 1-21.
- [IJ.28] Mehta, D., & **Yadav, S. M.** (2022). Temporal analysis of rainfall and drought characteristics over Jalore District of SW Rajasthan. *Water Practice & Technology*, 17(1), 254-267.
- [IJ.29] Ajudiya, B., Yadav, S. M., & Majumdar, P. K. (2022). Optimization of cropping patterns in the command area of multiple reservoir system using TLBO algorithm. *ISH Journal of Hydraulic Engineering*, 28(3), 271-280.
- [IJ.30] Ramkar, P., & **Yadav, S. M.** (2021). Flood risk index in data-scarce river basins using the AHP and GIS approach. *Natural Hazards*, 109(1), 1119-1140.
- [IJ.31] **Sanjay Kumar M Yadav**, Shivani Bhagat and VG Yadav "Temporal analysis of precipitation in Saurashtra, Kutch, and Diu sub-division of Western Indian region" *Theoretical and Applied Climatology*, Springer 2021
- [IJ.32] BR Joshi and **S.M. Yadav** "Effect on sediment delivery ratio by changes in land use land cover and construction of hydraulic structures at sub-basin scale" *Journal of Applied Water Engineering and Research* 2021
- [IJ.33] D Mehta and **S.M. Yadav** "An analysis on rainfall variability and drought over Barmer District of Rajasthan: Northwest India" *Water Supply IWA Publications* 2021
- [IJ.34] DJ Mehta and **S.M. Yadav** Analysis of scour depth in the case of parallel bridges using HEC-RAS **Water Supply Water Science and Technology IWA Publications 2021**
- [IJ.35] Kumar, V., & **Yadav, S. M.** (2020). Self-adaptive multi-population-based Jaya algorithm to optimize the cropping pattern under a constraint environment. *Journal of Hydroinformatics*, 22(2), 368-384.
- [IJ.36] Yazad Jabbar & **Yadav, S. M.** (2020). Spatial Interpolation of Sediment yield estimated from reservoir siltation data of India. *Iranian Journal of Science and Technology*, 2020.
- [IJ.37] Mehta, Darshan Jayeshbhai, and **Sanjay Madhusudan Yadav**. "Hydrodynamic Simulation of River Ambica for Riverbed Assessment: A Case Study of Navsari Region." *Advances in Water Resources Engineering and Management*. Springer, Singapore, 2020. 127-140.
- [IJ.38] Mehta, D., **Yadav, S. M.**, Waikhom, S., & Prajapati, K. (2020). Stable Channel Design of Tapi River Using HEC-RAS for Surat Region. In *Environmental Processes and Management* (pp. 25-36). Springer, Cham.
- [IJ.39] Kumar, Vijendra, and **S. M. Yadav**. "Optimization of Water Releases from Ukai Reservoir Using Jaya Algorithm." *Advanced Engineering Optimization Through Intelligent Techniques*. Springer, Singapore, 2020. 323-336.
- [IJ.40] Pavan N. Ghumare, K.A. Chauhan, **S. M. Yadav** "Housing attributes affecting buyers in India" *International Journal of Housing Markets and Analysis*. 2019. DOI: 10.1108/IJHMA-08-2009-0081
- [IJ.41] Pavan N. Ghumare, K.A. Chauhan, **S. M. Yadav** "Affordable Housing Policies in India: Challenges and Reform" *International Journal of Recent Technology and Engineering (IJRTE)*, 8(4), 2706-2706, 2019.

## Articles in International Journal

- [IJ.42] Madhura Aher, **S.M. Yadav** "Spatio Temporal variation in streamflow and sediment discharge in Middle Godavari basin during 1969-2016" *International Journal of Recent Technology and Engineering (IJRTE)*, 8(4), 2019.
- [IJ.43] Jabbar, Yazad C., and **Sanjay M. Yadav**. "Development of reservoir capacity loss model using bootstrapping of sediment rating curves." *ISH Journal of Hydraulic Engineering* (2019): 1-13.
- [IJ.44] Ramkar P., **Yadav S.M.** (2019) Rainfall Trend Analysis Using Nonparametric Test: A Case Study of Malegaon City. In: Rathinasamy M., Chandramouli S., Phanindra K., Mahesh U. (eds) *Water Resources and Environmental Engineering II*. Springer, Singapore
- [IJ.45] Jabbar, Y.C., and **S.M. Yadav** "Development of a Relationship Between Hydrometer and Hydrographic Observations to Predict Reservoir Capacity Loss." *Acta Geophysica* (2019):1-19.
- [IJ.46] **Yadav, Sanjaykumar Madhusudan**, Vipin Kumar Yadav, and Anurag Gilitwala. "Evaluation of bed load equations using field measured bed load and bed material load." *ISH Journal of Hydraulic Engineering* (2019): 1-11.
- [IJ.47] Baria, Paresha M., and **S. M. Yadav**. "Investigating extreme rainfall non-stationarity of upper Tapi river basin, India." *ISH Journal of Hydraulic Engineering* (2019): 1-9.
- [IJ.48] Kumar, V., and **Yadav, S. M.**, Optimization of Cropping Patterns Using Elitist-Jaya and Elitist-TLBO Algorithms. *Water Resources Management* (2019). <https://doi.org/10.1007/s11269-019-02204-z>
- [IJ.49] Ramkar P. and **Yadav S.M.**, Identification of critical watershed using hydrological model and drought indices: a case study of upper Girna, Maharashtra, India, *ISH Journal of Hydraulic Engineering*, (2019). <https://doi.org/10.1080/09715010.2019.1594416>
- [IJ.50] Ramkar, P., and **Yadav, S. M.** Spatiotemporal drought assessment of a semi-arid part of middle Tapi River Basin, India. *International Journal of Disaster Risk Reduction*, 28 (2018), 414-426. <https://doi.org/10.1016/j.ijdrr.2018.03.025>
- [IJ.51] Kumar, V. and **Yadav, S.M.**, Optimization of Reservoir Operation with a New Approach in Evolutionary Computation Using TLBO Algorithm and Jaya Algorithm. *Water Resources Management*, 32(13), pp.4375-4391 (2018). <https://doi.org/10.1007/s11269-018-2067-5>.
- [IJ.52] Maroof P. Shaikh, Vipinkumar G. Yadav, **Sanjay M. Yadav** "Simulation of Rainfall-Runoff Event Using HEC-HMS Model for Rel Sub-Basin, Gujarat, India". *Journal of Emerging Technologies and Innovative Research*, 5(4), 402-407 (2018).
- [IJ.53] Ramkar P. and **Yadav S.M.**, Rainfall Trend Analysis Using Nonparametric Test: A Case Study of Malegaon City. In: Rathinasamy M., Chandramouli S., Phanindra K., Mahesh U. (eds) *Water Resources and Environmental Engineering II*. Springer, Singapore 2018. [https://doi.org/10.1007/978-981-13-2038-5\\_3](https://doi.org/10.1007/978-981-13-2038-5_3)
- [IJ.54] 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.
- [IJ.55] 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.
- [IJ.56] Waikhom, S. I., and **Yadav, S. M.** Prediction of total load transport of an Indian alluvial river to estimate unmeasured bed load through an alternative approach. *Current Science* (00113891), 113(6), 2017.

### Articles in International Journal

- [IJ.57] Parekh, H., Yadav, K., **Yadav, S.**, & Shah, N. Identification and assigning a weight of indicator influencing performance of municipal solid waste management using AHP. *KSCE Journal of Civil Engineering*, 19(1) (2015), 36-45.
- [IJ.58] Utkarsh Nigam, Kaoustubh Tiwari, **S. M. Yadav**, Darshan Mehta "Water Distribution Network Re-Design for SVNIT Surat Campus." *International Journal of Advance Research in Engineering Science and Technology (IJAREST)*, May 2015.
- [IJ.59] **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.
- [IJ.60] 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.
- [IJ.61] **S. M. Yadav**, Jayshree Talreja and Sahita Waikhom, Estimating the Sediment Transport Capacity Using HEC-RAS, *Global Research Analysis*, pp.9-14, April-2013.
- [IJ.62] **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.
- [IJ.63] **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.81-8-5, April-2013.
- [IJ.64] 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.
- [IJ.65] **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.
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- [NC.14] 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.
- [NC.15] K.B. Patel, **S.M. Yadav**, Hydraulic Modelling of Purna River Reach using HEC-RAS, Proceedings of National Conference on Water Resources & Flood Management with Special reference to Flood Modelling 2016.
- [NC.16] Yazad Jabbar, S. I. Waikhom, **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.
- [NC.17] Hilay Prajapati, Mrs. S. I. Waikhom, **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.

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**Articles in National Conference Proceedings (2007 onwards)**

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- [NC.18] Manali S Shah, Mrs. S. I. Waikhom, **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.
- [NC.19] 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.
- [NC.20] **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.
- [NC.21] Darshan Mehta, **S. M. Yadav**, Sahita I. Waikhom. “Computation of hydraulic Parameters 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
- [NC.22] 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*
- [NC.23] 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*.
- [NC.24] P.R.Khokhar, **S. M. Yadav**, 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.
- [NC.25] A.R Patel, **S. M. Yadav**, R.B.Khasiya, 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.
- [NC.26] 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.
- [NC.27] Payal, S I Waikhom, **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.
- [NC.28] 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.
- [NC.29] H.J.Parekh, K.D.Yadav, **S.M.Yadav**, 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.
- [NC.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.
- [NC.31] **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.
- [NC.32] H.J.Parekh, K.D.Yadav, **S.M.Yadav**, N.C.Shah, Solid Waste Management System: Case study of Navasari town, *National Conference on 'Sustainable Tomorrow'*, SCET , Surat, 19th Feb. 2011

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- [NC.33] **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.
- [NC.34] **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.
- [NC.35] **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
- [NC.36] **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.
- [NC.37] **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.
- [NC.38] **S. M. Yadav**, Estimation of Bed Load by Kalinske’s equation using Tapi river data, *Innovation without limits*, Civil engineering Department, Hamirpur, September 18-19, 2009.
- [NC.39] **S. M. Yadav**, Mathematical relationship between ripple factor and boundary Reynolds number for Tapi river, India, *Innovation without limits*, CED, Hamirpur, 18-19, 2009.
- [NC.40] **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.
- [NC.41] **S. M. Yadav**, Study of Shields Entrainment Function (Monsoon) for river Ambika of South Gujarat, *National Conference on Hydraulics, Water Resources and Environment*, CWPRS, Pune, December 15-16, 2009.
- [NC.42] **S. M. Yadav**, Estimation of Bed Load by Kalinske’s equation using Tapi river data, *Innovation without limits*, Civil engineering Department, Hamirpur, September 18-19, 2009.
- [NC.43] **S. M. Yadav**, Modifying E.Brown’s equation and determining Ripple Factor for Pre Monsoon Season, Sarangkhedga 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*.
- [NC.44] **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.
- [NC.45] **S. M. Yadav**, Evaluation of Kalinske’s Bedload Equation *National Conference on Integrated Water and Wastewater Management* Jadavpur University, Kolkata, November 20-22, 2008.
- [NC.46] **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.
- [NC.47] **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.

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- [NC.48] **S. M. Yadav**, Mathematical model for Labyrinth single cycle Trapezoidal weir, *National Conference on Hydraulics, Water Resources and Environment*, MNIT, Jaipur, December 15-16, 2008.
- [NC.49] **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.
- [NC.50] **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*, Rajasthan Technical University, Kota, February 08-09, 2008.
- [NC.51] **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, SVNIT, Surat, December 21-22, 2007.*

### Text or Reference book published on relevant subjects from reputed international publishers:

Sl. No.	Title of the Text/Reference book	Publishers	Year of publication
1	Application of soft computing techniques in civil engineering	Vivo	2018
2	Assessing predictive capability of suspended load formulae	LAMBERT	2018
3	1-D Hydrodynamic Flood Modelling to identify Flood prone areas	LAMBERT	2018

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## Workshops

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- 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
- 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 Modelling organized by CED, SVNIT and Sponsored by BVM, VV Nagar during 7-9 January 2011.
- Coordinator for Workshop on River Hydraulic and management of Indian Rivers by CED, SVNIT, Surat on 2 March 2014.
- Improving Employee Accountability for Achieving Goals in Organization, (23rd January, 2016) Sponsored by TEQIP, Phase II on Saturday 23rd January 2016
- Organized **One-week 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.
- Organized **One-week STTP** on “Application of Soft Computing Techniques in Civil Engineering 12<sup>th</sup> to 16<sup>th</sup> March 2018, under TEQIP-III, CED, SVNIT, Surat.
- Organized a **Two-day workshop** on “River Basin Planning and Management” 12 and 13 April 2018, SVNIT, Surat.
- Organized **One-week STTP** on “Flood Modelling and Analysis’ 4<sup>th</sup> to 8<sup>th</sup> June 2018, CED, SVNIT, Surat.
- Organized **Two days’ workshop** on “Flooding in Cities Warning & Dissemination” from 20<sup>th</sup> to 21<sup>st</sup> Aug 2018, in collaboration with DHI India and CED, SVNIT, Surat.
- Organized **One-week STTP** on “Recent Advances in Flood Modelling’ from 3<sup>rd</sup> to 7<sup>th</sup> Dec 2018, CED, SVNIT, Surat.
- **Conducted Workshops/FDP/Short term courses of a minimum 05 working days duration offered as coordinator or convener**

Sl. No	Title of the Course	Duration		Co-ordinator (s)/Convener
		Starting Date	Ending date	
1	River Flood Analysis and Modelling	19/12/2016	23/12/2016	Co-ordinator
2	Application of Soft Computing Techniques in Civil Engineering	12/03/2018	16/03/2018	Co-ordinator
3	Flood Analysis and Modelling	04/06/2018	08/06/2018	Co-ordinator
4	Recent Advances in Flood Modelling	03/12/2018	07/12/2018	Co-ordinator
5	Advances in flood modelling	09/12/2019	13/12/2019	Co-ordinator
6	Flood Risk Management	01/03/2021	05/03/2021	Co-ordinator
7	Spatial Analysis for Water Resources Modelling and Management (GIAN)	13/06/2022	17/06/2022	Co-ordinator
8	Rainwater Harvesting for Sustainable Development of Groundwater (ATAL FDP)	05/12/2022	16/12/2022	Co-ordinator
7	Recent Advances in Civil Engineering (RACE- 2023)	03/07/2023	14/07/2023	Co-ordinator

- Convener of the session on “Emerging approaches: Hydrologic-hydraulic modelling for urban floods and Thresholds in hydrology” at **European Geosciences Union**, vEGU,28<sup>th</sup> April 2021, Vienna, Austria.
- Convener of the session on HS4.7 – “Advances in the hydrologic and hydraulic modelling and design for extreme floods” at **European Geosciences Union**, EGU,28<sup>th</sup> April 2022, Vienna, Austria.
- Convener of the session on HS4.7 – “Recent advances in the hydrologic and hydraulic modelling of extreme flood events” at **European Geosciences Union**, EGU, 25<sup>th</sup> April 2023, Vienna, Austria.

## Expert lectures Delivered

- Delivered more than **150** expert lectures at workshops, training programmes,webinars etc. at national and international level conferences/training program/institutes/colleges.

## Counsultancy

### MAJOR DESIGN WORKS

Sr. No	Name of Work	Faculty	Year
1.	Impact study of Ground Water Recharge Borewell System.	Dr S M Yadav	2025
2.	Detailed Design and Engineering Consultancy Services for Protection work of Nallah Embankment near 75MW Solar Power Plant.	Dr S M Yadav	2025
3.	Consultancy services for Evaluation and Design of Flood Mitigation Measures for Shetrunji River Reach at Village Junasavar, Ta. Savarkundla, Dist. Amreli.	Dr S M Yadav	2025
4.	Proof Checking of the hydraulics of existing water distribution network components and proposed SCADA System at Silvassa Water Treatment Plant (11 MLD & 15 MLD).	Dr. S. M. Yadav Dr. Hiren G. Patel, DoEE	2025
5.	Proof Checking of hydraulics for water distribution network components and proposed SCADA System at Silvassa Water Treatment Plant.	Dr. S. M. Yadav Dr. Hiren G. Patel, DoEE	2025
6.	Detailed Stability Check of Chiku Aqueducts of Surat Canal Sub Division No.-3, Mahuva.	Dr. S. M. Yadav Dr. Hiren G. Patel, DoEE	2025
7.	Detailed Stability Check of Purna Aqueducts of Surat Canal Sub Division No.-3, Mahuva.	Dr. S. M. Yadav Dr. A. K. Desai	2025
8.	Detailed Stability Check of Mindhola Aqueducts of Surat Canal Sub Division No.-3, Mahuva.	Dr. S. M. Yadav Dr. A. K. Desai	2025
9.	Proof checking for the work of Construction of Escape for existing main pipe canal of Machhu-III irrigation scheme at Village Juna Sadulka, Taluka & District Morbi.	Dr. S. M. Yadav Dr. A. K. Desai	2025
10	Regarding Investigation and suggestion of remedial measures for silt in the pumped underground water at Pandit Dindayal Nagar, Phase – 5, Jahangirabad.	Dr. S. M. Yadav	2024
11	Design of Irrigation canal Lining for Improvement of existing infrastructure works on Sayan Distributary Ex. Kim Branch.	Dr. S. M. Yadav & Dr. A. K. Desai	2024

Sr. No	Name of Work	Faculty	Year
12	Proposal for Transport Nagar at Bhimpore, Nani Daman (RFP is required for operation and maintenance for parking lot, commercial shops and other permissible activities.)	Dr. S. M. Yadav	2024
13	Regarding the designing and vetting of the C.R. Gate at off take point for 20 x 7 water supply from canal at Madhuban Dam.	Dr. S. M. Yadav & Dr. A. K. Desai	2024
14	Review /Vetting of Design : Protection wall against sea erosion at Village Nanidanti Motidanti, Ta & Dist- Valsad	Dr. S. M. Yadav	2023
15	Providing Third Party Inspection (TPI) for Providing, Supplying & Laying of 711 mm dia. MS Feeder line for Garden Mill ESR from Lal darwaja WDS in Central Zone Area, Surat.	Dr. S. M. Yadav & Dr. P. G. Agnihotri	2023
16	Third Party Inspection (TPI) for providing, supplying & laying of 813 mm dia. MS Rising main line for Sangrampura Vahan Depot ESR from Navsari Bazar Rajeshree WDS in Central Zone Area, Surat	Dr. S. M. Yadav & Dr. P. G. Agnihotri	2023
17	Proof checking consultancy services of Embankment related work near the coastal area for the construction of Recreational and Eco-tourism Components at Sea face area- Dumas.	Dr. S. M. Yadav	2023
18	Proof checking of design of water supply and plumbing, electrical load calculation, lighting protection, electrical panel SLDs and earthing layout for the ware house complex utilities.	Dr. S. M. Yadav & Dr. H. R. Jariwala	2023
19	Proof checking of design and drawing of ware house, paver road and drainage arrangement & compound wall works for DP World Project, Hazira, Gujarat	Dr. S. M. Yadav & Dr. A. K. Desai	2023
20	Proof checking of Hydraulics for Water Distribution Network Work for Diversion of GIDC Sachin 900 mm Dia water Pipe line at 257 (P19)	Dr. S. M. Yadav	2022
21	Study and evaluation of water losses from existing pond at Notified area, G.I.D.C. Sachin	Dr. S. M. Yadav	2022
22	Proof checking of design and planning of underground sewerage system with STP In Urban and Rural Area of Daman District	Dr. S. M. Yadav & Dr. N. D. Jariwala	2022
23	Regarding expert opinion about design section of Ayad River, Udaipur, Rajasthan.	Dr. S. M. Yadav	2021
24	Carrying out 2-D Hydraulic Modeling and impact study of Dredged Channels.	Dr. S. M. Yadav	2021
25	Design Review and Consultation of Rain Water Disposal System for “Veer Savarkar Heights” Jahangirabad, Surat.	Dr. S. M. Yadav	2021
26	Impact study of dredged channel and channelization work done at various district of Uttar Pradesh for flood mitigation purpose.	Dr. S. M. Yadav	
27	Hydrodynamic modeling of dredging and channelization works for protection from the erosion in Dubey Chapra village of Dubey Chhapra Dam built on the left bank of river Ganga in district Ballia	Dr. S. M. Yadav	2020
28	Providing Third Party Inspection (TPI) services for construction of Library building at TPS No.40(Limbayat-Dindoli), F.P. No.88, R-28 in South East Zone (Limbayat), Surat	Dr. S. M. Yadav & Dr. K. A.	2020

Sr. No	Name of Work	Faculty	Year
		Chauhan Dr. R. M. Tailor	
29	Third Party Inspection (TPI) for the work of Construction of Shahid Smarak/Shaurya Smarak and Peace Center at Draft T.P.S No.29 (Vesu-Rundh-Magdalla), F.P. No. 70, 113 ,118 ,126 ,136, 139 and 143 in Surat Municipal Corporation, Surat (Phase-I)	Dr. R. M. Tailor Dr. S. M. Yadav Dr. K. A. Chauhan Dr. H. R. Jariwala	2019
30	Third Party Inspection (TPI) for Construction of EWS-II residential flats & Shops including all internal infrastructure service & Area development work at T.P. Scheme No.19 (Parvat-Magob), F.P. No. 110/3 under "Pradhan Mantri Awas Yojana" on Engineering-Designing, Procurement and Construction Basis (EPC Mode)	Dr. R. M. Tailor Dr. S. M. Yadav	2019
31	Remedial measures and estimate for crack repairing for the work of Four laning of Talaja-Mahuva section of NH-8E from Km.53.585 to Km.100.100 (Design chainage from Km.54.990 to Km.100.450) (Package-II) in the State of Gujarat on Hybrid Annuity Mode.	Dr. S. M. Yadav	2019
32	Hydrodynamic modeling of channelization of various river reaches of Uttar Pradesh.	Dr. S. M. Yadav	2019
33	Consultancy Services for the detailed design and study of damaged platforms and Roads of KRIL PFT Hazira.	Dr. S. M. Yadav	2019
34	Regarding Proof Checking of design and drawing of Nursing College and Hostel Building. (Construction of Nursing College and Hostel Building at Govt. Hospital, Nani Daman)	Co-PI	2018-2019
35	Proof Checking of Design and Drawings of Minor Bridge at CH:37+130 for the work of 4-Lane with paved shoulder configuration of Bilaspur-Pathrapali (Km.0+000 to Km.53+300) section of NH-111 (New NH-130) in the State of Chhattisgarh under Bharatmala on Hybrid Annuity basis.	Co-PI	2018-2019
36	Hydrodynamic modelling of channelization of Elgin-Charsadi dam on Ghaghara river of Janpad Gonda.	Dr. S. M. Yadav	2018
37	Design and Proof Check of the drawings of RCC weir across River Damanganga at Silvassa.	Dr. S.M.Yadav Dr. R. Kumar	2018
38	Vetting of Structural design and drawings prepared by our consultant for check dam at various places in U.T. of D&NH, Silvassa.	Dr. R. Kumar Dr. A. K. Desai Dr. S. M. Yadav	2018
39	Regarding proof checking of design and drawing of construction of Flexible pavement along the canal, Ratanpur, Panchmahal, Godhra.	Dr. R. Kumar Dr. S.M.Yadav	2018
40.	Design of partial opening of Mota Varachha R.C.C. Intake Well	Dr. S.M.Yadav Dr. A. K.Desai	2018
41.	Vetting of Weir/check dam design and drawings for the work of Construction of weir/check dam on Kalai River, Bamanpuja Moti Daman.	Dr. S. M. Yadav	2017
42.	Survey and design for <b>development of natural kotar</b> from Samarvarni area up to Silvassa Municipal border, Samarvarni	Dr. S. M. Yadav	2017
43.	Design of <b>water supply network</b> , Ichhapore-Bhatpore, GIDC, Surat	Dr. S. M. Yadav	2016

Sr. No	Name of Work	Faculty	Year
44.	<b>Design of check dam</b> , Silvassa.	Dr. S. M. Yadav	2016
45.	Design of <b>canal water supply based water supply scheme</b> for filling ponds, Hazira	Dr. S. M. Yadav	2016
46.	Vetting of hydraulic design and drawings for <b>Storm Water Drain</b> at Silvassa	Dr. S. M. Yadav	2016
47.	Vetting/Proof Checked the designing for ‘ <b>Augmentation Water Supply Scheme</b> of Moti Daman Based on Bhamti Branch Canal of Madhuban Dam.’	Dr. S. M. Yadav	2016
48.	Design and Proof checking of <b>long-distance water supply pipe line</b>	Dr. S. M. Yadav	2015
49.	<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
50.	Design and re-sectioning of Bill Khadi-Vapi	Dr. S. M. Yadav	2010
51.	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
52.	Design of <b>storm water drainage</b> system for M/s Batliboi Plant Complex at Udhna, Surat	Dr. S. M. Yadav	2005
53.	Design of two layer chain link fencing around Hazira Plant of ONGC, Surat.	Dr. S. M. Yadav	2006
54.	<b>Design construction/strengthening of damaged boundary wall</b> of ONGC plant, Hazira, Surat	Dr. S. M. Yadav	2006
55.	<b>Design of septic tank and seepage pit system</b> for M/s Batliboi Plant Complex at Udhna, Surat	Dr. S. M. Yadav	2006
56.	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
57.	Preparing estimates for seasoning shed , furniture shed for Vanil Udyog, Vansada	Dr. S. M. Yadav	2002

### Project Management Counsaltancy

Sr. No	Name of Work	Faculty	Year
1.	Providing Third Party Inspection Service for Providing & Laying R.C.C. Storm Drainage Line on T.P. Road of Various area in PTPS No.41 (Navagam-Dindoli), DTPS No.62 (Dindoli-Bhedwad-Bhestan) and DTPS No.69 (Godadra-Dindoli) (South Part) in South East Zone (Limbayat), Surat Municipal Corporation.	PI	2025
2.	Providing Third Party Inspection (TPI) for the work of Providing and Laying RCC NP3/NP4 class pipes with spigot socket/flush type rubber ring joint for sewerage network in newly added Kumbhariya area of south east drainage zone area of SMC (Part-B).	PI	2024
3.	Appointment as T.P.I. Agency for the work of Development of Integrated Group Housing facilities at Anjana Tenements on F.P. No.98, T.P. Scheme No.7 (Anjana) on PPP basis under Redevelopment of Public Housing Scheme-	Co-PI	2018-19

Sr. No	Name of Work	Faculty	Year
	2016 for total 416 Du's and 06 Shops (PHC) and Construction of 486 Units (AHC).		
4.	Consultancy service for suggesting soil treatment for water retention, side protection including its design, estimation and supervision for Pal lake at F.P. No.43, T.P. Scheme No.15 (Pal) and Khatodara lake at F. P. No.161, T.P. Scheme No.06 (Majura-Khatodara) within S.M.C. Limit.	Co-PI	2018-2019
5.	Appointment of TPQA agency for Affordable Housing in Partnership (AHP) Component of PMAY (U) for Baldevi site-I and Ambedkar Nagar for Silvassa Municipal Council.	Co-PI	2018-2019
6.	Third Party Inspection (TPI) for the work of Providing and Laying 400mm dia. DI Rising main line from Proposed Magob Sewage Pumping Station to Puna Sewage Pumping Station in South East Zone (Limbayat).	Dr. S. M. Yadav	2018-2019
7.	Third Party Inspection (TPI) for the work of Construction of Elevated Service Reservoir (ESR) and Under Ground Service Reservoir (UGSR) in Central Zone area, under AMRUT & SJMMSVY.	Dr. C. R. Patel Dr. S. M. Yadav	2018
8.	Third Party Inspection (TPI) for the work of Construction of 99 lacs litres capacity New R.C.C. UGSR-4 with Booster House and New Water Testing Laboratory at Khatodara WDS of T. P. Scheme No.06 (Majura-Khatodara), F.P.-146, 147 in Surat.	Dr. C. R. Patel Dr. S. M. Yadav	2017
9.	TPI for the work of Providing, Manufacturing and Supplying of 1118 MM OD 10 MM thick & 1422 MM OD 12.5 MM thick M.S. of Spirally Submerged Arc Wlded M.S. Pipe Conforming to IS:3589:2001 for various rising main Pipeline works under drainage department of SMC	Dr. S. M. Yadav Dr. V.L. Manekar	2017
10.	Third Party Inspection (TPI) for the work of Augmentation of existing Sewerage network by providing and laying drainage line of I.S.I. make R.C.C. Np3/Np4 pipe having spigot and socket rubber ring joint including repairing of existing drainage manhole and/or removing of existing drainage line transferring of existing drainage connection in Old UMARA NORTH SPS area, Surat.	Dr. K. D. Yadav Dr. S. M. Yadav	2017
11.	Providing Third Party Inspection (TPI) for the work of Construction of 25 x 25 mt. size Swimming Pool at T. P. Scheme No.24(Motavarachha-Utran), F. P. No.178 (R-27) in Varachha Zone area, Surat Municipal Corporation, Surat.	Dr. B.N.Tandel Dr. S. M. Yadav	2017
12.	Third Party Inspection (TPI) for the work of construction of Fire Station Building and Staff Quarters at T.P. Scheme No.02 (Vesu-Bharthana-Vesu), F. P. No.219 in South West (Athwa) Zone.	Dr. D.A. Patel Dr. S.M. Yadav	2017
13.	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
14.	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
15.	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

Sr. No	Name of Work	Faculty	Year
16.	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
17.	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
18.	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
19.	TPI for Providing erecting commissioning of flood control gates for Outlet-2, at Motavarachha in East Zone.	Dr.S.M. Yadav	2015
20.	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
21.	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
22.	Proof Checking of Hydraulics for “MNBs & MJB”	Dr. S.M. Yadav	2015
23.	Providing and laying drainage line of R.C.C.Np3/NP4 classs 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
24.	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
25.	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
26.	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
27.	Providing Third Party Inspection (TPI) for the work of ‘Government Boys Dry Hostel, Surat Building Works’	Dr. S.M. Yadav	2015
28.	Providing TPI for laying of 600mm dia pipeline to fill Dindoli pond in South East Zone (Limbayat) Draf T.P. Scheme no.69 (Goddara-Dindoli).	Dr.V.L.Manekar Dr. S.M. Yadav	2014
29.	Providing TPI Service for the work of providing and Constructing R.C.C. Storm Water Line for the 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
30.	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

Sr. No	Name of Work	Faculty	Year
31.	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
32.	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 DTPS. No. 69 (Godadara-Dindloi) in S.E.Z. (Limbayat).	Dr. S.M. Yadav Dr. V.L. Manekar Dr. P.G. Agnihotri	2014
33.	TPI for laying of 600mm dia pipeline on various roads for outlet no. 13 and 14 (omnagar to Ambica park and Umiyanagar) in S.E.Z.(Limbayat) Draft T.P. scheme no.69 (Godadara-Dindoli).	Dr. S.M. Yadav Dr. V.L. Manekar	2014
34.	Proof Checking of Hydraulics for “Rural Water Networks Components”	Dr. S.M. Yadav	2014
35.	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
36.	Providing and Laying RCC NP3 class pipes with Spigot socket/rubber ring joint for Sewage Network for the remaining area of GODADARA station including Gamtal in S.E.Z	Dr. S.M. Yadav	2013
37.	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. Chauhan	June 2007

### Research & Development Projects

Sl. No.	Name of the project along with the name(s) of all the investigators/Patent granted with name of inventor(s)	Duration	
		Starting Month & Year	Ending Month & Year
1	Erosion of Non Uniform Unimodal and Bimodal Sediments	2009	2013
2	DST-NIMAT Project 2016-17: Conducting EAC, EDP, TEDP and FDP	May 2016	May 2017
3	Flood modelling of semi-arid region (Dr S M Yadav (PI), Dr Sri Ram Chaurasia, Dr N D Jariwala, Dr Pradeep Muley)	June 2019	July 2020
4	PATENT: Copy Right IPR granted for “Analysis of sediment trapped by silt and beam type check dams: A case study of Saurashtra and South Gujrat region “	09/09/2013	-
5	Analysis of extreme Rainfall and Flood Modelling of Purna River Basin, South Gujarat	10/12/2021	Ongoing

### Professional Affiliations

- Charter Engineer, Institute of Engineers, Calcutta, India.
- Fellow Member, Institute of Engineers, Calcutta, India.
- Fellow Member, Indian Society for Technical Education, New Delhi, India

- 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.
- Life Member, Affiliate member of the American Society of Civil Engineers (ASCE)

## Awards/Honors & Scholarships

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- 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.
- Worked 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.
- Best paper award for Water Resources Engineering Session for the paper entitled “Prediction of reservoir submerged sediment density” *23<sup>rd</sup> International Conference on Hydraulics, Water Resources and River Engineering*, NIT Patna, India 19-21 December, 2018.

- Best paper award for Water Resources Engineering Session for the paper entitled “Optimizing Reservoir Capacity, water allocation & crop yield using Teaching Learning Based Optimization (TLBO) technique”, *1<sup>st</sup> National Conference on Emerging Research and Innovations in Civil Engineering*, 15<sup>th</sup>-16<sup>th</sup> February, 2019.
- Best paper award received for the paper, “Assessment of 1D/2D coupled model for prediction of flood inundation” authored by Rashmi Yadav and S M Yadav in the *International Conference on Recent Advances in Civil Engineering for Sustainable Development* held in online mode at MANIT Bhopal during Feb 13-14, 2021.
- Best paper award received for the “Application of rule based fuzzy logic for rainfall runoff modelling” authored by Ayushi Panchal and Dr. S. M. Yadav, *International conference Recent Advances in Civil Engineering and Sustainable Development (RACESD 2021)*, MANIT-BHOPAL during February 13-14, 2021.
- Best paper award received for the paper “Application of ArcGIS in Flood Modelling” authored by Rashmi Yadav and S. M. Yadav in the *International Conference on Water and Environment on the occasion of World Water Day*, held in MANIT Bhopal during March 22-23, 2021.
- Best paper award for the paper presented on "Streamflow and Sediment Load Variation in Middle Tapi Basin" Innovation in Smart and Sustainable Infrastructure (ISSI), PDEU Gandhinagar, 23-25 August 2022.
- Best paper award received by Ayushi Panchal, and **S M Yadav** for “Application of ANN for rainfall runoff modelling” at HYDRO-International held at NIT Warangal during 21<sup>st</sup> Dec to 23<sup>rd</sup> Dec 2023.

## Administrative Duties/Responsibilities Held

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- Senate member
- Dean (AI & RG)
- Head of the Department (HoD)
- Chairman DAAC
- Sectional Head
- PG Incharge
- Lab Incharge
- Chairman- National Board of Accreditation Committee for UG and PG Programme.
- Chairman- Magazine committee
- Chairman-Canteen committee
- Chairman-Water supply committee
- Chairman-Drainage committee
- Security Incharge
- Warden
- Expert member for Climate Resilient Coastal protection and management project (CRCPMP), funded by Asian development Bank.
- Examiner – M.Tech. Dissertation, Ph D Thesis, Professional Bodies

## Reviewer – Journal

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- Acta Geophysica - Springer
- Journal of Hydraulic Engineering, ASCE
- Journal of Applied Fluid Mechanics
- Indian Society of Hydraulics- Journal of Hydraulic Engineering, Taylor & Francis
- Indian Journal of Water and Waste Water Association
- International Journal of Sediment Research, China
- Journal of Civil Engineering, ICE, Thomas Telford, London
- KSCE Journal of Civil Engineering – Springer

*Place: SVNIT, Surat*

*Date: 7<sup>th</sup> April 2026*

**(Dr. SANJAYKUMAR M. YADAV)**