

Curriculum Vitae: Dr. Sanjaykumar M. Yadav

Professor

Department of Civil Engineering

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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% (1st Class)
- Sept 1983–June 1987 : SPU, Surat, Gujarat. (INDIA)
B.E. in Civil Engineering
Percentage of Marks: 64% (1st Class)

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 |
| SVNIT, Surat | Professor | Academic | Aug.`89 | Till Date | 30 Years |

Courses taught

- Hydraulic Engineering
- Fluid Mechanics
- Water Resources System
- Free Surface Flow
- 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 |

Teaching experience

Ph.D. Guidance (Completed including thesis submitted)

| Sl. No. | Title of the Thesis | Name of Candidate | Total No. of super visors | Date of award/Subm ission/ Viva voce |
|---------|---|--------------------------|---------------------------|--------------------------------------|
| 1 | Performance Evaluation and Ranking of Municipal Solid Waste Management System | Devanshu.K.Pandit | 3 | 12/03/2016 |
| 2 | Evolution of an Index to Measure the Project Development Efficiency | Harshul.K.Parekh | 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 |

PG Dissertation Guided

| 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 |

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| 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 | Raingauge 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 |

UG Projects guided(Selected)

| Sl. No. | Title of the Project | Name of supervisors | Year of Submission |
|---------|--|---------------------|--------------------|
| 1 | Evaluation of construction projects using analytical hierarchy process (AHP) | Dr. S M Yadav | 2013 |
| 2 | Assessment of water mains condition using AHP | Dr. S M Yadav | 2014 |
| 3 | Hydrodynamic modelling of a dredged channel in the Ghaghara river basin | Dr. S M Yadav | 2020 |

Articles in International Journal

- [IJ.1] Vijendra kumar¹ and S. M. Yadav² "Self-Adaptive Multi-Population based Jaya algorithm for the Optimization of Cropping Pattern under Constraint Environment" **Journal of Hydro-Informatics** **accepted**.
- [IJ.2] 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.3] 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.4] 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.5] 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.6] 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.
- [IJ.7] 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.8] 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.9] 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.10] YC Jabbar and **SM Yadav** "Development of a Relationship Between Hydrometer and Hydrographic Observations to Predict Reservoir Capacity Loss." *Acta Geophysica* (2019):1-19.
- [IJ.11] **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.12] 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.13] 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.14] 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.15] 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.16] 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.17] 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.18] 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
- [IJ.19] 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.20] 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.21] 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.
- [IJ.22] 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.23] **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.24] 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.25] **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.26] **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.27] **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.
- [IJ.28] 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.29] **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.
- [IJ.30] **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.
- [IJ.31] **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.
- [IJ.32] **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.
- [IJ.33] **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.
- [IJ.34] **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.
- [IJ.35] **S. M. Yadav** and B. K. Samtani, High Bed Load Transport in Tapi River, *Global Journal of Environmental Research*, 1(3), 2007.
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Articles in National Journal

- [NJ.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.
- [NJ.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.
- [NJ.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.
- [NJ.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.
- [NJ.5] **S. M. Yadav**, Co-efficient Discharge for Double & Triple Cycle Labyrinth Weir, *Journal of Soil & Water Sciences*, 15(2), pp. 07-15, 2010.
- [NJ.6] Prof. D.K Pandit and **S.M Yadav**, Efficient Bid Process Management for Project Success, *NICMAR-Journal of Construction Management*, June 2013.
- [NJ.7] Prof. D.K Pandit and **S.M Yadav**, Need for Better Consultant Selection Procedures, *Civil Engineering & Construction Review*, March 2013.
- [NJ.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.
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Articles in International Conference Proceedings

- [IC.1] Utkarsh Nigam and **S. M. Yadav** "Development of Computational Assessment Model of Fuzzy Rule Based Evaluation of Groundwater Quality Index: Comparison and Analysis with Conventional Index", International Conference on Sustainable Computing in Science, Technology & Management-2019.
- [IC.2] K.B. Patel and **S. M. Yadav** "One Dimensional Unsteady Flow Analysis using HEC-RAS Modelling Approach for Flood in Navsari City" International Conference on "Recent Advances in Interdisciplinary Trends in Engineering & Applications", IPS Academy, Institute of Engineering & Science, Indore, India 14-15 February, 2019.
- [IC.3] **Sanjay M. Yadav** and Nikunj K. Mangukhiya "Semi-arid River Basin Flood: Causes, Damages and Measures", Proceedings of 5th International Conference in Ocean Engineering (ICOE 2019), Mauritius.
- [IC.4] Vijendra kumar¹, and **S. M. Yadav**² "Optimization of Water Releases from Ukai Reservoir using Jaya Algorithm" *International Conference On Advanced Engineering Optimization Through Intelligent Techniques* 03- 05 August 2018.
- [IC.5] Vijendra kumar¹, and **S. M. Yadav**² "Optimization of Water Allocation from Ukai Reservoir using Elitist TLBO" *23rd International Conference on Hydraulics, Water Resources and River Engineering*, NIT Patna, India 19-21 December, 2018.
- [IC.6] K.B. Patel and **S.M. Yadav** "Development of 1D Hydraulic Model to assess urban flood: A case study of Purna River" *23rd International Conference on Hydraulics, Water Resources and River Engineering*, NIT Patna, India 19-21 December, 2018.
- [IC.7] Darshan Mehta and **Sanjaykumar Yadav** "Analysis of long term rainfall trends in Rajasthan, India" *23rd International Conference on Hydraulics, Water Resources and River Engineering*, NIT Patna, India 19-21 December, 2018.
- [IC.8] Madhura Aher and **Sanjay Yadav** "Trend Analysis of Water discharge and sediment discharge of Lower Godavari basin, India" *23rd International Conference on Hydraulics, Water Resources and River Engineering*, NIT Patna, India 19-21 December, 2018.
- [IC.9] Yazad Jabbar and **Sanjay Yadav** "Prediction of reservoir submerged sediment density" *23rd International Conference on Hydraulics, Water Resources and River Engineering*, NIT Patna, India 19-21 December, 2018.
- [IC.10] Preeti Ramkar and Dr. S.M.Yadav "Rainfall Trend Analysis using Non-Parametric Test: a Case Study of Malegoan City" in International Conference on Emerging Trends in Water Resources and

- Environmetal Engineering, MVGR College of Engineering, Vizianagaram, India 30th March to 1st April 2017.
- [IC.11] 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.
- [IC.12] Baria P. M. and Yadav S. M. “Evolution of Enso Related Rainfall Anomalies for Lower Tapi River, India”, ICRISSET, BVM, V.V. Nagar, India, 17-19 February, 2017,
- [IC.13] Darshan Mehta, **S. M. Yadav**, Sahita Waikhom. “HEC-RAS flow analysis in the river Tapi.” *37th IAHR World Congress*, Kuala Lumpur, Malaysia, August 2017.
- [IC.14] P. Ramkar and **S.M.Yadav** “Assessment of Land Use Land Cover Changes on Part of Middle Tapi Basin” *22nd International Conference on Hydraulics, Water Resources and Coastal Engineering*, Ahmedabad, India, December 21-23, 2017.
- [IC.15] Y.C. Jabbar, **S.M. Yadav**, “Cumulative monthly averaged data based development of SRC”, *22nd International Conference on Hydraulics, Water Resources and Coastal Engineering*, L.D. College of Engineering Ahmedabad, India, December 21-23, 2017.
- [IC.16] B. Joshi, **S.M. Yadav**, B K Samtani “Estimation of runoff of Manot sub basin of upper Narmada River using geospatial techniques”, *22nd International Conference on Hydraulics, Water Resources and Coastal Engineering*, L.D. College of Engineering Ahmedabad, India, December 21-23, 2017.
- [IC.17] Baria P. M. and **Yadav S. M.** “Investigation of Extreme Rainfall for Middle Tapi Basin, India”. *22nd International Conference on Hydraulics, Water Resources and Coastal Engineering*, L.D. College of Engineering Ahmedabad, India, December 21-23, 2017.
- [IC.18] Waikhom S, **Yadav S M.** “Comparative analysis of the applicability of Ackers and White Total sediment transport function for River and Flume data”, *20th Congress of IAHR Asia Pacific Division*, Colombo, 29-31 August 2016.
- [IC.19] 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, pp. 458. CRC Press, 19-22 September, 2016.
- [IC.20] 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, pp. 458. CRC Press, 19-22 September, 2016.
- [IC.21] K.B. Patel, **S.M. Yadav**, Flood Risk Assessment of Navsari City, South Gujarat, India, *21st International Conference on Hydraulics, Water Resources and River Engineering*, CWPRS, Pune, India 08-10 December, 2016.
- [IC.22] Darshan Mehta, **S. M. Yadav**, Sahita Waikhom, Keyur Prajapati. “Stable Channel Design of Tapi River using HEC-RAS for Surat Region.” *21st International Conference on Hydraulics, Water Resources and River Engineering*, CWPRS, Pune, India 08-10 December, 2016.
- [IC.23] V.G Yadav, Mrs. S. I. Waikhom,, Dr. S. M. Yadav. “Total sedimenet 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.
- [IC.24] 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' 2015.
- [IC.25] 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 2015.
- [IC.26] 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 2015
- [IC.27] 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” *20th International Conference on Hydraulics, Water Resources and River Engineering*, IIT Roorkee, India 17-19 December, 2015.

- [IC.28] Mrs. S. I. Waikhom, Mr. Hilay Prajapati, Dr. **S. M. Yadav**. "Evaluation of unit stream power approach for predicting total load transport rate", *20th International Conference on Hydraulics, Water Resources and River Engineering*, IIT Roorkee, India 17-19 December, 2015.
- [IC.29] Mrs. S. I. Waikhom, Manali S Shah, Dr. **S. M. Yadav**. "Analysis of Microscopic Approaches of Total Sediment Load Transport", *20th International Conference on Hydraulics, Water Resources and River Engineering*, IIT Roorkee, India 17-19 December, 2015.
- [IC.30] V.G Yadav, Dr. **S. M. Yadav**. "Total Sediment Transport Model Based on Dimensionless Parameters", *20th International Conference on Hydraulics, Water Resources and River Engineering*, IIT Roorkee, India 17-19 December, 2015.
- [IC.31] 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.
- [IC.32] 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, Chamba Climate Meet, Himachal Pradesh, India 3-5 October, 2014*.
- [IC.33] Vijendra Kumar, S.M.Yadav, Priyanka Zore and T.Venkateswarlu, , "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) 2014*.
- [IC.34] Vijendra Kumar, B K Samtani, **S.M.Yadav** and K. Naresh, "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) 2014*.
- [IC.35] **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, Chamba Climate Meet, Himachal Pradesh, India 3-5 October, 2014*.
- [IC.36] Baria P. M. and **Yadav S. M.** "Impact of climate change: A case study of lower Tapi basin". *International Conference on Development, Biodiversity and Climate Change: Issues and Challenges, Chamba Climate Meet, Himachal Pradesh, India 3-5 October, 2014*.
- [IC.37] 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" *19th International Conference on Hydraulics, Water Resources & Environmental Engineering* MANIT, Bhopal, 18-20 December 2014.
- [IC.38] Darshan Mehta, **S. M. Yadav**, S. I. Waikhom. "Assessing carrying capacity of river reach using HEC-RAS." *HYDRO 2014, 19th International Conference on Hydraulics, Water Resources & Environmental Engineering* MANIT, Bhopal, 18-20 December 2014.
- [IC.39] Baria P. M. and **Yadav S. M.** "Analysis of Extreme Precipitation Events in Climate Change Perception". *19th International Conference on Hydraulics, Water Resources & Environmental Engineering* MANIT, Bhopal, 18-20 December 2014.
- [IC.40] 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.
- [IC.41] 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.
- [IC.42] **S. M. Yadav**, S. I. Waikhom, Darshan Mehta. "Analysis of flood using HEC-RAS: A Case Study of Surat City." *HYDRO 2013, 18th International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), 549-555.

- [IC.43] Mrs. S. I. Waikhom, Dr. **S. M. Yadav**, Ms. J. H. Talreja. "Analysis of Sediment transport capacity of river using HEC-RAS", Hydro 2013, *18th International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), pg. 681-689.
- [IC.44] 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", *18th International Conference on Hydraulics, Water Resources & Environmental Engineering* (IIT Madras, Chennai, 4-6 December 2013), pg. 1081-1089.
- [IC.45] **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.
- [IC.45] S. M. Yadav, Study of Particle Reynolds number and Ripple factor for Tapi River, India, *International Conference on Rivers 2011, Penang, Malasiya*, December 09-11, 2011.
- [IC.46] **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.
- [IC.47] 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.
- [IC.48] 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.
- [IC.49] **S. M. Yadav**, Mathematical Relationship between Particle Reynolds Number & Ripple Factor, *3rd International Multi Confrence on Engineering and Technoligical Innovations*, Orlando, Florida,USA, July 29-30, 2010.
- [IC.50] **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.
- [IC.51] **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.
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- [IC.54] **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.
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- [IC.58] **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

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- [IC.59] **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.
- [IC.60] **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
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Articles in National Conference Proceedings

- [NC.1] **Vijendra kumar¹** and **S. M. Yadav²** (2019) “Optimizing Reservoir Capacity, water allocation & crop yield using Teaching Learning Based Optimization (TLBO) technique”, *1st National Conference on Emerging Research and Innovations in Civil Engineering*, 15th-16th February, 2019.
- [NC.2] **K.B. Patel** and **S. M. Yadav** “Development of 2D Unsteady Hydraulic Model of Purna river basin for flood inundation mapping” 1st National Conference on “Emerging Research and Innovations in Civil Engineering”, GEC, Surat, Gujarat 15-16 February, 2019.
- [NC.3] **Zalak Lukhi**, **Darshan Mehta**, and **S M Yadav**. “Dam Break Analysis: A Case Study of Ukai Dam.”. Proceedings in 2nd National Conference on Recent Research and Development in Core Disciplines of Engineering, VIER, Vadodara 2nd April, 2019.
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- [NC.6] **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*, SVNIT, Surat, March 2016.
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- [NC.9] **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*, SVNIT, Surat, March 2016.
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- [NC.13] **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.
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- [NC.15] **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.

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- [NC.16] 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.
- [NC.17] 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.
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- [NC.22] 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*.
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- [NC.25] 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.26] 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.27] 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.28] 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.29] 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.30] **S. M. Yadav**, Solid Waste Management System: A Case Study of Navsari Town, Gujarat, India, *National Conference on New Horizons for Suistanable Tommorrow*, SCET,Surat (Gujarat),India, February 18-19, 2011.
- [NC.31] 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
- [NC.32] **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.

Articles in National Conference Proceedings

- [NC.33] **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.34] **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.35] **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.36] **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.37] **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.
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- [NC.40] **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.
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- [NC.43] **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.44] **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.45] **S. M. Yadav** and B.K.Samtani, Modifying Bagnolds Equation and determining Ripple Factor For Monsoon Season, Savkheda Gauging Station of Tapi River, *2nd National Conference on Focusing on Advances in Civil Engineering*, Thangal Kunju Musaliar College of Engineering,Kollam,Kerala, February 21-23, 2008.
- [NC.46] **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.
- [NC.47] **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.48] **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.49] **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*

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- Management and Sustainable Water Pricing*, Rajasthan Technical University, Kota, February 08-09, 2008.
- [NC.50] **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.*
- [NC.51] 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, SVNIT, Surat, December 21-22, 2007.*
- [NC.52] 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, SVNIT, Surat, December 21-22, 2007.*
- [NC.53] 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, SVNIT, Surat, December 21-22, 2007.*
- [NC.54] 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.
- [NC.55] 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.
- [NC.56] **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.
- [NC.57] **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.
- [NC.58] 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.
- [NC.59] **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*, Guru Nanakdev Engineering College, Ludhiana, Punjab, November 24-25, 2006.

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 |

Workshops

- 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' 12th to 16th March 2018, under TEQIP-III, CED, SVNIT, Surat.
- Organized **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' 4th to 8th June 2018, CED, SVNIT, Surat.
- Organized **Two days' workshop** on "Flooding in cities Warning & Dissemination" 20th to 21st Aug 2018, in collaboration with DHI India and CED, SVNIT, Surat.
- Organized **One week STTP** on "Recent Advances in Flood Modelling' 3rd to 7th Dec 2018, CED, SVNIT, Surat.

Expertlectures 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 Resources 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. |

| Sr. No. | Title of Lecture | Place and Venue |
|--------------------|--|---|
| 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. | Contract Management. | STTP on Civil Project: Development & management organized by CED, SVNIT, Surat during July 20-24, 2009. |
| 9. | 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 |
| 10. | 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. |
| 11. | Hydraulic failure of Bridges. | Civil engineering Dept., SCET, Surat. |
| 12. | 1-D Modelling of River reach using HEC RAS to access carrying capacity. | STTP organized by CED, Marvari Engineering college Rajkot 18/11/2016. |
| 13. | Modelling scour and flow around parallel Bridges”. | River Flood Analysis and Modelling, STTP, CED SVNIT, Surat during 19 to 21 Dec, 2016 |
| 14. | Basics of Flood Analysis-I. | River Flood Analysis and Modelling, STTP, CED SVNIT, Surat during 19 to 21 Dec, 2016 |
| 15. | Tutorial on HEC RAS Software. | River Flood Analysis and Modelling, STTP, CED SVNIT, Surat during 19 to 21 Dec, 2016 |
| 16. | Basic of Flood Analysis II, One dimensional modelling of a River Reach. | River Flood Analysis and Modelling, STTP, CED SVNIT, Surat during 19 to 21 Dec, 2016 |
| 17. | Application on MIKE 11 for predicting Runoff- A case study of Nira Deoghar basin. | River Flood Analysis and Modelling, STTP, CED SVNIT, Surat during 19 to 21 Dec, 2016 |
| 18. | Flood forecasting for Banas basin. | Expert Lecture at R K University, Rajkot, 19 th January 2018 |
| 19. | Selection of water main using AHP. | STTP organized by BVM Engineering college, VallabhVidhyanagar. 10 th March 2018. |
| 20. | Flood Modelling. | One day training programme during Technical festival 2018, GEC Valsad, 3 rd March, 2018 |
| 21. | Flood modelling and simulation. | Expert Lecture at Asian Institute of Technology, Bangkok, Thailand, March 2018 |
| 22. | 1-D modelling of River reach using HEC-RAS to assist the carrying capacity | Expert Lecture at Asian Institute of Technology, Bangkok, Thailand, March 2018 |
| 23. | 2-D flood modelling of semi-arid River basin using HEC-RAS. | Expert Lecture at Asian Institute of Technology, Bangkok, Thailand, March 2018 |
| 24. | Plan your carrier. | North Gujarat Prajapati Samaj Educational Seminar, April 2018. |
| 25. | A study of recent flood in the Banas River Basin, North Gujarat, India. | Workshop organised on Flooding Cities, Warning and Dissemination by DHI India at National Institute of Ocean Technology, Chennai, 30 th May 2018 |
| 26. | Integration of hydrologic and hydraulic modelling for the simulation of recent flood of semi-arid river basin. | National Seminar on Climate Change Impact on Water Resources System, CED, Parul University, Vadodara, June 2018 |

| Sr. No. | Title of Lecture | Place and Venue |
|------------|--|--|
| 27. | Integration of hydrologic and hydraulic modelling for the simulation of recent flood of semi-arid river basin. | STTP on Application of Modelling Tools and Techniques in Civil Engineering- AMTCE 2018 at Civil Engineering Department, GEC Surat, 17th July 2018 |
| 28. | To evolve an index to measure project development efficiency. | STTP on Application of Modelling Tools and Techniques in Civil Engineering- AMTCE 2018 at Civil Engineering Department, GEC Surat, 18th July 2018 |
| 29. | Evaluation of metal stamping layouts using an analytic hierarchy process method. | STTP on Application of Modelling Tools and Techniques in Civil Engineering- AMTCE 2018 at Civil Engineering Department, GEC Surat, 18th July 2018 |
| 30. | Integration of Hydrologic & Hydraulic Modelling for simulation of recent flood of semi-arid region. | Bhagwan mahavir Engineering College- 28 th Sept 2018 |
| 31. | Expert lecture and Hand on Exercise HEC-RAS software. | Two-day National workshop on River Hydraulics & Water Resources Management at Shree Swami Aatamanand Sarasvati Institute of Technology. 19 th Oct 2018. |
| 32. | Hydrodynamic Modelling of the Dredged Channel of Ghaghara River Reach. | Two-day National workshop on River Hydraulics & Water Resources Management at Shree Swami Aatamanand Sarasvati Institute of Technology. 20 th Oct 2018. |
| 33. | 2-D Unsteady Flow Modelling. | Expert lecture series at CED, SVNIT- 27 th Oct 2018 |
| 34. | 1-D Modelling of River Reach using HEC-RAS to Access Carrying Capacity. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 35. | Hand on Practices 1D Steady Flow using HEC-RAS. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 36. | Hand on Practices Watershed and Stream Network Delineation using ARC-GIS and 1D Unsteady Flow. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 37. | Integration of Hydrologic and Hydraulic Modelling for the simulation of Semi-Arid River Basin. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 38. | Hand on Practices 2D Flood Modelling using RAS-Mapper. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 39. | Hand on Practices Flood Hazard Assessment using AHP. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 40. | Hydrodynamic Modelling of the Dredged Channel in the Ghaghara River Basin. | One week STTP on “Recent Advances in Flood Modelling’ CED, SVNIT, Surat, 3 rd to 7 th Dec 2018. |
| 41. | Flash Flood Forecasting. | National Conference on Emerging Research and Innovations in Civil Engineering at S S & Gandhi GEC Surat 15th Feb 2019 |
| 42. | Flood Modelling | Two days national workshop on “Flood modelling” organised by Jodhpur Institute of Engineering and Technology Jodhpur, 15th-16th March 2019 |
| 43. | Design of water supply systems | Expert lecture and hand on practice session at one week FDP by CED, NIT Warangal. 22 nd May 2019 |
| 44. | Advances in Civil Engineering for global sustainability. | Expert lecture at Civil Engineering, S S & Gandhi GEC Surat 10 th June 2019 |
| 45. | Flood Modelling | Expert Lecture to train and aware to deal with flood disaster, NIT Raipur. 24 th June 2019. |

**Conducted Workshops/FDP/Short term courses of 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 |

Counsultancy

MAJOR DESIGN WORKS(SELECTED)

| Sr. No | Name of Work | Faculty | Year |
|--------|--|--|-----------|
| 1. | 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 |
| 2. | Hydrodynamic modeling of channelization of various river reaches of Uttarpradesh. | Dr. S.M.Yadav | 2019 |
| 3. | Consultancy Services for the detailed design and study of damaged platforms and Roads of KRIL PFT Hazira. | Dr. S.M.Yadav | 2019 |
| 4. | 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 |
| 5. | 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 |
| 6. | Hydrodynamic modelling of channelization of Elgin-Charsadi dam on Ghaghra river of Janpad Gonda. | Dr. S.M.Yadav | 2018 |
| 7. | Design and Proof Check of the drawings of RCC weir across River Damanganga at Silvassa. | Dr. S.M.Yadav Dr. R. Kumar | 2018 |
| 8. | 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 |
| 9. | 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 |
| 10. | Design of partial opening of Mota Varachha R.C.C. Intake Well | Dr. S.M.Yadav | 2018 |

| Sr. No | Name of Work | Faculty | Year |
|--------|--|----------------|------|
| | | Dr. A. K.Desai | |
| 11. | 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 |
| 12. | Survey and design for development of natural kotar from Samarvarni area up to Silvassa Municipal border, Samarvarni | Dr S.M.Yadav | 2017 |
| 13. | Design of water supply network , Ichhapore-Bhatpore, GIDC, Surat | Dr S.M.Yadav | 2016 |
| 14. | Design of check dam , Silvassa. | Dr S.M.Yadav | 2016 |
| 15. | Design of canal water supply based water supply scheme for filling ponds, Hazira | Dr S.M.Yadav | 2016 |
| 16. | Vetting of hydraulic design and drawings for Storm Water Drain at Silvassa | Dr S.M.Yadav | 2016 |
| 17. | 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 | 2016 |
| 18. | Design and Proof checking of long distance water supply pipe line | Dr. S.M.Yadav | 2015 |
| 19. | Storm Water Drainage Network Planning and Design for all residential colonies (Existing) along the road leading to Balaji Temple within Silvassa Municipal Council area | Dr. S.M.Yadav | 2012 |
| 20. | Design and re-sectioning of Bill Khadi-Vapi | Dr. S.M.Yadav | 2010 |
| 21. | Contour Mapping and plain table survey and Recommendation for Drainage system and Specification of items for SRU of Hazira Plant of ONGC , Surat | Dr.S.M.Yadav | 2006 |
| 22. | Design of storm water drainage system for M/s Batliboi Plant Complex at Udhna, Surat | Dr.S.M.Yadav | 2005 |
| 23. | Design of two layer chain link fencing around Hazira Plant of ONGC, Surat. | Dr.S.M.Yadav | 2006 |
| 24. | Design construction/strengthening of damaged boundary wall of ONGC plant, Hazira, Surat | Dr.S.M.Yadav | 2006 |
| 25. | Design of septic tank and seepage pit system for M/s Batliboi Plant Complex at Udhna, Surat | Dr.S.M.Yadav | 2006 |
| 26. | 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 |
| 27. | Preparing estimates for seasoning shed ,furniture shed for Vanil Udyog,Vansada | Dr.S.M.Yadav | 2002 |

Project Management Counsalty (Selected)

| Sr. No | Name of Work | Faculty | Year |
|--------|--|---------|-----------|
| 1. | 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-2016 for total 416 Du's and 06 Shops (PHC) and Construction of 486 Units (AHC). | Co-PI | 2018-19 |
| 2. | 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 |
| 3. | 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 |

| Sr. No | Name of Work | Faculty | Year |
|--------|--|-----------------------------------|-----------|
| 4. | 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 |
| 5. | 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 |
| 6. | 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 |
| 7. | 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 |
| 8. | 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 |
| 9. | 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 |
| 10. | 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 |
| 11. | 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 |
| 12. | 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 |
| 13. | 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 |
| 14. | 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 |
| 15. | 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 |
| 16. | 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 |
| 17. | TPI for Providing erecting commissioning of flood control gates for Outlet-2, at Motavarachha in East Zone. | Dr.S.M.Yadav | 2015 |
| 18. | 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 |
| 19. | 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 |
| 20. | Proof Checking of Hydraulics for “MNBs & MJB” | Dr. S.M.Yadav | 2015 |

| Sr. No | Name of Work | Faculty | Year |
|--------|---|---|-----------|
| 21. | 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 |
| 22. | Construction of Retaining wall (Wing Wall) for existing R.C.C. Culvert 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 |
| 23. | 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 |
| 24. | 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 |
| 25. | Providing Third Party Inspection (TPI) for the work of 'Government Boys Dry Hostel, Surat Building Works' | Dr.S.M.Yadav | 2015 |
| 26. | Providing TPI for laying of 600mm dia pipeline to fill Dindoli pond in South East Zone (Limbayat) Draft T.P. Scheme no.69 (Goddara-Dindoli). | Dr.V.L.Manekar Dr.S.M.Yadav | 2014 |
| 27. | 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 |
| 28. | 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 via Gopinath Society on T.P. road at N.Z. (Katargam). | Dr.V.L.Manekar Dr.S.M.Yadav | 2014 |
| 29. | 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 |
| 30. | 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-Dindoli) in S.E.Z. (Limbayat). | Dr.S.M.Yadav Dr.V.L.Manekar Dr.P.G.Agnihotri | 2014 |
| 31. | 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 |
| 32. | Proof Checking of Hydraulics for "Rural Water Networks Components" | Dr. S.M.Yadav | 2014 |
| 33. | 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 |
| 34. | 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 |
| 35. | 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 |

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.

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 16th 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” *23rd 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”, *1st National Conference on Emerging Research and Innovations in Civil Engineering*, 15th-16th February, 2019.

Reviewer – Journal

- 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: 02nd February 2021

(Dr. SANJAYKUMAR M. YADAV)