

**Dr. Sharad B. Dugad**  
**Ph. D. (Civil-Water Resources Engg.) IIT Bombay, MBA (HR)**

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## Summary of Qualifications

- **Thirty Three** years of combined **Teaching, Research, Administrative and Industry experience** in civil/construction management and water resources engineering.
- **Fourteen** years of teaching experience at **Under Graduate** and **Post Graduate** levels.
- **Thirteen** years of experience in **Construction** and **Micro-irrigation industry**.
- **Set up the Training Institute at Jain Irrigation** & Trained many engineers, farmers and customers on the Micro-irrigation systems, Landscape irrigation, Lift irrigation schemes and watershed management.
- Interviewed and hired several engineers for Jain Irrigation Systems Ltd.
- **One Year Administrative experience** as **Principal/Director** of an **Engineering College/institution** having 1,200 students and total staff of 125 persons.

## Professional Experience

2018- 2021    **Ethiopian Technical University (ETU), (Previously- FTVETI), Addis Ababa, Ethiopia**

**Associate Professor, PG course, Construction Technology & Management Department**

- Taught Construction Law, Project Formulation & Appraisal, Construction Eco. & Finance
- **Guided 12 Post Graduate projects** in Construction Technology & Management

2015-2018    **Caledonian College of Engineering, Muscat, Oman**

**Sr. Lecturer, Built & Natural Environment (Civil Engg.) Department**

- Taught Fluid mechanics, Soil Mechanics, Advanced Construction Technology
- Guided Under Graduate projects in civil and water resources engineering

2005-2015    **Jain Irrigation Systems Ltd. ([www.jains.com](http://www.jains.com)), Jalgaon (India)**

**Chief Trainer [Technical], Senior Manager**

- Hired and trained managers and engineers on Micro-irrigation (Drip/Sprinkler) systems, Landscape irrigation, Lift irrigation schemes and watershed management.
- **Trained over 4300 Agri. engineers** for the company, other organizations in India as well as from countries like **Sri Lanka, Ethiopia, Afghanistan, Sudan, Bhutan, Nigeria**, etc.
- Trained and provided **Technical support to Dealers/Farmers/Corporate Customers** on the Drip/sprinkler and landscape irrigation systems.
- Verified designs of large Micro-irrigation and Lift irrigation projects.
- Worked for **promotion and extension of Micro-irrigation systems** through National / International conferences, seminars, exhibitions and farmers' fairs by demonstrating company products and presenting papers.

2004-2005 **R. S. College of Engineering**, Chiplun, (India)

**Principal/Director**

- Managed and supervised engineering college professors, lecturers and staff.
- Managed the administration of engineering college having 1,200 students.
- Worked for upgradation of the institute by enhancing infrastructural facilities like laboratories, workshop, library and faculty appraisal and development.

1999-2004 **Indian Institute of Technology, Mumbai** ([www.iitb.ac.in](http://www.iitb.ac.in)), (India)

**Research Scholar**

- Research for Doctoral Thesis “Effect of upward seepage on scour caused by jets”
- Published research papers in conferences and journals.
- Worked for consultancy projects in hydraulic engineering.

1990-1999 **JTM College of Engineering, Faizpur** ([www.jtmcoef.ac.in](http://www.jtmcoef.ac.in)), (India)

**Lecturer (Assistant Professor)**

- Taught Fluid mechanics, Engineering Mechanics, Dams and Hydraulic Structures, Hydraulic Machinery, and Irrigation Engineering.
- Headed various extra-curricular and cultural committees
- Organized and conducted various seminars and students activities in college
- Worked as Examiner of ‘University Panel of Examiners’ for setting theory papers and conducting practical and oral examinations for inter university colleges.

1989-1990 **Jain Irrigation Systems Ltd.** ([www.jains.com](http://www.jains.com)), **Jalgaon** (India)

**Project Engineer**

- Designed and implemented Drip/Sprinkler Irrigation Systems.
- Managed Engineering Projects.

1988-1989 **Gujarat Pressure Concrete Services**, Baroda, Gujarat (India)

**Project Engineer**

- Supervised repairs and rehabilitation of concrete structures.
- Managed Engineering Projects.

1988-1988 **Associated Consulting Services**, Bombay

**Design Engineer**

- Design of prestressed concrete bridge structures.

## Education

#	Degree/Diploma	University /Board	Year Graduated	Grade
1.	<b>M. B. A.</b> (Human Resources)	Y.C. Maharashtra Open University, Nasik (India)	<b>2014</b>	<b>First Class</b>
2.	<b>Ph. D.</b> (Civil- Water Resources Engg.)	Indian Institute of Technology, Bombay Mumbai (India)	<b>2005</b>	<b>CPI- 9.18/10</b>
3.	<b>M. E.</b> (Civil- Water Resources Engg.)	Walchand College of Engg., Sangli (Kolhapur University)	<b>1997</b>	<b>First Class with Distinction</b>
4.	<b>B. E.</b> (Civil Engg.)	V.J.T.I. Bombay (Mumbai University)	<b>1987</b>	<b>First Class with Honors</b>

## Awards and Scholarships

- 1982 National Merit Scholar.
- 1981 Gold Medalist in the high school.
- 1979 Best Student Award in the high school.

## Professional Affiliation

- Life Member, *Indian Society of Technical Education* (ISTE), New Delhi, India.

## Academic Achievements

- Qualified national level examination G.A.T.E. (1994) for admission to Post-Graduate programs in India.
- Designed and commissioned Fluid Mechanics and Hydraulic Machinery Laboratory at CoE Faizpur.

## Computer Skills

- Software Packages - Fluent CFD, Origin, COPAM, MS Office.

## Subjects Taught

Fluid mechanics, Engineering Mechanics, Dams and Hydraulic Structures, Hydraulic Machinery, Irrigation Engineering (All at under-graduate level)  
**Construction Law, Project Formulation & Appraisal, Construction Economics & Finance (At Post-graduate level)**

**M. Tech. Thesis Guided: 22 No.s**

**M. Tech. Thesis Evaluated: 4 No.s**

**Countries Worked: Oman, Ethiopia**

**Countries Visited: Singapore, Hong Kong, Israel**

## Publications

- Habtam Yimer, Dugad S. B., Prashant Gangwar, Abebe Halefom. (2021). "Comparative Study of Operational Performance between Roundabout and Signalized Intersection Using Sidra Software: A Case Study of Addis Ababa City" IJRASET Vol. 9 Issue XI November 2021, PP-1593-1602.
- Gadafa C., Gangwar P.K., Rawat V.S., Dugad S. B. (2020). "Multi Criteria Decision-Making Model and Approach for the Selection of Contractor in Construction Projects" Solid State Technology, Volume 63, Issue 6, pp.10571-10585
- Rawat V. S., and Dugad S. B. (2019). "Changes in properties of cement using partial use of Silica fume and Metakaolin" International Conference on Recent Innovations in Science, Engg. & Management (RISEM-2019) Bengaluru, India, 10-11th May 2019.
- Rawat V. S., Divahar R. and Dugad S. B. (2019). "Characteristic of Structural Glass Façade for futuristic Construction Technology" International Conference on Recent Innovations in Science, Engg. & Management (RISEM-2019) Bengaluru, India, 10-11th May 2019.
- Malunekar V. S., Balakrishnan P., Deshmukh S. K., Dugad S. B. (2015). "Energy Efficiency of Banana (*Musa sp.*) Crop under Different Irrigation Methods" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-4 Issue-10, March 2015. pp. 43-47.

- Rahul R. Rajput, Sanjay N. Patil, S T Ingle, Abhijit B. Joshi, Sharad Dugad (2014). "Reuse and impact of Jain fruit industry wastewater on agricultural environment in Jalgaon area" International Journal of Recent Trends in Science and Technology, ISSN 2277-2812 E-ISSN 2249-8109, Volume 11, Issue 2, pp. 222-225.
- Sahu Dezy Y., Rank H. D., Dugad, S. B., Patel R. J. (2009). "Performance Evaluation of Sand Filter for Cleaning Water for Drip Irrigation" Proc. National Seminar on "Cleaner Production Technologies" National Institute for Technical Teachers Training (NITTTR), Chandigarh, India, 17-18 Nov.2009.
- Dugad, S. B. (2009). "Frontier Technology on Micro-Irrigation for North-East Region" Proc. National Horticulture Expo 2009, Guwahati, Assam (India), 11-14 February 2009.
- Dugad, S. B., and Jadhav S. P. (2007). "Integration of drip irrigation systems with minor irrigation projects" Proc. 8<sup>th</sup> Maharashtra Sinchan Parishad, Wardha, 21-22 Feb. 2007.
- Dugad, S. B. (2007). "Evergreen Revolution with Drip Irrigation" Reference book on "Second Green Revolution" published by Magnum Foundation, Nagpur.
- Dugad, S. B. (2007). "Integration of drip irrigation systems with irrigation projects for increased crop production" Proc. 41<sup>st</sup> Annual Convention & Symposium of ISAE, Jan. 29-31, 2007, CAET, Junagadh Agricultural University, Junagadh (Gujarat).
- Dugad, S. B., and Sudhakar, M. S. (2006). "Reorientation of agricultural Education" Proc. National Seminar on "Quality of Agricultural Education in India" held on 17-18 March 2006 at UAS Dharwad.
- Dugad, S. B., and Sudhakar, M. S. (2006). "Applications of Information Technology in Irrigated Agriculture" Proc. 19<sup>th</sup> National Convention of Agricultural Engineers and National Seminar on Hi-Tech Agriculture and Horticulture, The Institution of Engineers (India), Bangalore, 27-28 Jan. 2006, pp. 144-153.
- Dugad, S. B. (2006). "Modern Irrigation Methods" Proc. 7<sup>th</sup> Maharashtra Sinchan Parishad Nashik, 21-22 January 2006.
- Pani, B. S. and Dugad, S. B. (2005). "Effect of seepage on scour caused by circular plunging jets" Proc. of the 17<sup>th</sup> Hydro technical Conference and Symposium, Edmonton, Alberta Canada, pp. 655-663.
- Dugad, S. B., and Pani, B. S. (2004). "Effect of seepage on scour caused by circular wall jets" Proc. of the 14<sup>th</sup> IAHR-APD Congress and ISEH Symposium, Hong Kong, Vol.2, pp. 1835-1841.
- Dugad, S. B., and Pani, B. S. (2003). "Scour caused by jets: Application of FLUENT software" Fluent CFD Conference 2003 for India and South East Asia, Pune, India.
- Dugad, S. B., and Pani, B. S. (2002). "Effect of seepage on scour caused by impinging circular jets", Proc. of the 13<sup>th</sup> IAHR-APD Congress, Singapore, Vol.1, pp. 276-279.
- Pani, B. S. and Dugad, S. B. (2002). "Turbulent jets: application of point source concept." Research perspectives in hydraulics and water resources engg., Ed. Rama Prasad and Vedula S., World Scientific Pub. Co. Singapore, pp. 1-37.
- Dugad, S. B., and Pani, B. S. (2001). "Effect of upward seepage on scour caused by horizontal circular jet" J. Water and Energy International, CBIP, India, Vol. 58, No. 2, pp. 43-51.

## International Conferences

1. The 12<sup>th</sup> World Water Congress on “**Water for Sustainable Development towards Innovative Solutions**” and Water'2005 Exposition from 22-25 Nov. 2005 at New Delhi.
2. International Conference on “**Plasticulture and Precision Farming 2005**” organized by NCPAH, 17-21 Nov. 2005) New Delhi.
3. The 14<sup>th</sup> IAHR-APD Congress and ISEH Symposium, held at **Hong Kong**, 14-20 Dec. 2004, presented paper titled “*Effect of seepage on scour caused by circular wall jets*”.
4. **Fluent CFD Conference 2003 for India and South East Asia**, held at **Pune, India**, during Nov. 19-21, 2003 and presented research paper titled “*Scour caused by jets: Application of FLUENT software*”.
5. The 13<sup>th</sup> IAHR-APD Congress (Asia Pacific Division of the International Association for Hydraulic Research) held at **Singapore** during 6-8 Aug. 2002 and presented my research paper titled “*Effect of seepage on scour caused by impinging circular jets*”.

## National Conferences / Seminars

1. National Seminar on “**Quality of Agricultural Education in India**” 17-18<sup>th</sup> March, 2006, U.A.S. Dharwad and presented paper “**Reorientation of agricultural Education**”.
2. “**Towards Sustainable Watershed Management Strategies in M. P.**” organized by MP WALMI, RRL, DFID, Bhopal during 6-7<sup>th</sup> Feb. 2006.
3. 19<sup>th</sup> National Convention of Agricultural Engineers on “**Hi-Tech Agriculture and Horticulture**”, Institution of Engineers, Bangalore, 27-28 Jan. 2006 and presented paper titled “**Applications of Information Technology in Irrigated Agriculture**”.
4. 7th Maharashtra Sinchan Parishad on “**Modern Irrigation Methods**” held at Nashik during 21st -22<sup>nd</sup> January 2006.
5. “**Traditional Wisdom in Water Management**” arranged by Indian Council for Water and Culture, Aurangabad and MERI, Nashik held at Nashik, on 15-16<sup>th</sup> October 2005.
6. **Hydro-2002**, National Conference on “**Hydraulics, Water Resources and Ocean Engineering**”, held at I.I.T. Bombay, Mumbai (India) during Dec. 16-17, 2002.

## Workshops / Courses

1. “**Advanced Technologies in Water Resources and Environmental Management**”- Short Term Course, I.I.T. Bombay in May 2002 (One Week)
2. “**Induction Training Programme for Technical Teachers**” - Aligarh Muslim University, May 1998 (Three weeks).
3. “**Stochastic Hydrological Modelling**”- Summer School at S. G. S. Institute of Technology and Science, Indore in Dec. 1997 (Two weeks).
4. “**Recent Trends in Design, Operation and Maintenance of Canal Structures**”- Summer School at M. S. University, Baroda in June 1997 (One week).
5. “**Eco-management of Coastal Areas**”- Winter School at Govt. Engg. College Goa in Feb. 1996 (Two weeks).

The information given above is true to the best of my knowledge and belief.