

## BIO-DATA

1. Name : **Dr. Umesh Jagannathrao Kahalekar**
2. Date of Birth: 06<sup>th</sup> June, 1962
3. Designation : Professor in Civil Engineering
4. Degrees obtained;

University	Degree	Year	Field of Specialization	Institute
Marathwada University	B.E. Civil	1982	Civil Engineering	Govt. Engineering College, Aurangabad
Bombay University	M.E. Civil	1988	Environmental Engg.	V.J.T.I., Bombay
Dr.B.A.M.University	Ph.D.	1996	Environmental Sc.	Dr.B.A.M.University
Dr.B.A.M.University	LL.B.	2011		M.P.Law College, Aurangabad

5. Employment record (starting from present position)

University/College	Designation	Period
Govt. College of Engineering, Aurangabad	Professor in Civil Engineering	26-7-2005 to till date
Govt. College of Engg. Pune	Professor in Civil Engg	27.01.2004 to 25-7-2005
Govt. College of Engg. Aurangabad	Asst.Professor in Civil Engg	30-1-96 to 27.01.2004
Govt. College of Engg. Aurangabad	Lecturer in Civil Engg.	1-2-90 to 30-1-96

6. Other related experience-research, industrial etc.

Organisation / Employer	Designation	Period
Irrigation Deptt.	Assistant Engineer Grade-II	8-7-82 to 31-1-90

### 07. Membership of Scientific and Professional Societies.

Institute of Engineers LM-104342,  
ISTE LM14791,  
Indian Association For Environmental Management LM1323,  
Marathi Vidnyan Parishad

### 08. Honours and Awards

The Rekha Nandy and Bhupesh Nandy Award of Institution of Engineers (India) for paper entitled 'Applicable Loading Rates for Design of Upflow Anaerobic Sludge Blanket (UASB) Reactor' published in the Journal of The IEI (India), Vol 82, March 2002 page no.48-53.

### 09. R & D Projects and Patents

1. Worked as Co-Investigator for AICTE sponsored R & D project 'Development of Low Cost Treatment Method for Sewage'. The report was submitted in April 2002. Principal

Investigator was Dr.M.M.Ghangrekar. AICTE File No. 8017/RD II/DEG/(664/98/99, Rs. 6 lakhs), Duration June 1999-March 2002.

2. Worked as Research Committee member for UGC Major Research Project ‘Development of Knowledge Base for Design, Operation and Maintenance of Upflow Anaerobic Sludge Blanket (UASB) Reactor’. Principal Investigator was Dr. M.M.Ghangrekar. The report was submitted to UGC in April 2002. ” ( Ref.No. 14-10/98(SR-I) dated. 17.3.1999 Cost Rs.3.64 lakhs)
3. Filed following patents:
  - A) Vending Apparatus for Selective liquid Dispensing, File Number 1437/MUM/2012 Dt. 11.05.2012
  - A) Smart Flushing System, File Number 3115/MUM/2012 dt. 29-10-2012
  
  - B) Squat Toilet bowl flushing system, File Number 2300/MUM/2013 dt. 8-7-2013
  
  - D) Office of Controller General of Patents Designs and Trademarks has accepted the Design of Solar lamp Tower and published the same, Journal No. 51/2015 dt.18-12-2015.

**10. Important Responsibilities:**

- Working as Member of Finance Committee, Dean (HR), Member Secretary of Grievance Redressal Committee of the Institute
- Worked as Member of Board of Management of Govt. College of Engineering, Aurangabad from 2011 to 2016.
- Worked as Head of the Civil Engineering Department from 1-11-1996 to 26-1-2004 and 26-7-2005 to 31/7/2016 at Govt. Engineering College, Aurangabad
- Worked as Chancellor Nominee in ‘Building and Works Committee’ of Dr.B.A.Marathwada University, Aurangabad for the period of 2007 to 2012.
- Working as member of ‘Water Supply Expert Committee’ of Municipal Corporation, Aurangabad since 2011.
- Worked as member of Board of Management of Govt. College of Engineering, Aurangabad for the period of January 2012 to June 2016.
- Worked as Dean (Academics) in Govt. Engineering College, Aurangabad after receipt of autonomy to the institute in the 2006 to 2011.
- Working as Dean (HR) since November 2016
- Working as Member Secretary of Grievance Redressal Committee, of Govt. Engineering College, Aurangabad.
- Recognized Post Graduate Teacher and PhD guide of Dr.B.A.M.University, Aurangabad.
- Worked as Undergraduate and Postgraduate admission in-charge in the Institute for more than 15 years.
- Worked as District Liaison Officer for conducting the MH CET examination.
- Worked as Testing and Consultancy In charge for various civil engineering works of Municipal Corporation, CIDCO, MJP, MIDC etc.
- Arranged Nation Level Seminars, Short Term Training Programmes, Workshops, and Expert Lectures for students, faculty members and industrial personnel.

- Worked as expert on various committees formed by AICTE, Directorate of Technical Education, Joint Director of Technical education, UGC, Dr.B.A.M.University and Institute.
- Worked as EVC member appointed by AICTE. Also worked as AICTE observer for GPAT and CMAT examinations.
- Delivered expert lectures in various engineering colleges and at different organizations such as WALMI, MIDC, Water Resources Department etc.
- Published more than 15 papers in National, International Journals and conferences.
- Worked as Board of Studies Chairman for Civil Engineering Discipline of Govt. Engineering College, Aurangabad.
- Worked as paper Setter, Internal Examiner and External Examiner for UG and PG programmes.
- Published Proceedings of 3 National Seminars arranged at Govt. Engineering College, Aurangabad.
- On the basis of UG Project Report Govt. of Maharashtra has issued Resolution regarding Saving in Paper, Water and Energy on 24-11-2016. Similarly Dr.B.A.M.University has also issued the circular on 23-9-2016.

#### **List of Publications -**

1. Y.M.Ghugal, Dr U.J.Kahalekar: "Effects of Sulphur, Nitrogen and Carbon Compounds on Cement and concrete", arranged by Institution of Engineers, (India) Nagpur on 28-29 Feb. 1992.
2. U.J.Kahalekar, Prof I.K.Pateriya: "Solid Waste Recycle, Reuse and Disposal" arranged at M.I.T. Aurangabad on 19<sup>th</sup> Jan. 1997.
3. U.J.Kahalekar, B.N.Pandey: "Pollution Control: Role of anaerobic Process" arranged at D.S. university Ajmer on 24-26<sup>th</sup> Nov. 1997.
4. U.J.Kahalekar, K.A.Patil and Mohd.Sadeque: "Changes of properties of soil due to disposal of waste", in Indian Geotechnical Conference 1997 arranged at Indian Geotechnical society, Baroda Chapter.
5. U.J.Kahalekar: "Treatment of waste water Biological Approach", workshop on Effluent Irrigation on 23-24 May, 1998 arranged by Maharashtra Water and Irrigation commission at Pune.
6. U.J.Kahalekar: 'Waste water treatment and curriculum of undergraduate courses' National seminar arranged by S.B.E.S. College of Science, Aurangabad on 14-15 Nov. 1998.
7. M.M. Ghangrekar, U. J. Kahalekar, J. S. Sakle, 'Treatment of Sewage Using UASB Reactor and Granular Media Filtration', Proceeding of National Seminar on 'Recent Advances in Waste Management' jointly organized by IAEM & BHU-Varanasi, Feb.23-25, 2001. 323-328.
8. M.M. Ghangrekar, U. J. Kahalekar, J. S. Sakle, 'Applicable Loading Rates for Design of UASB Reactor'. Vol. 82, March-2002. Institution of Engineers (India) Environmental Engineering Division.

9. Ghangrekar M.M., Sakle J.J., and Kahalekar U.J. (2000). UASB process: Application for sewage treatment. Proceedings of International Conference on Innovative Technologies for Rural Water Supply & Environmental Sanitation, Roorkee, Oct. 12-13, 2000.
10. Ghangrekar M.M., Kahalekar U.J., Sakle J.J., S.V. Takalkar (2002), Pilot-scale performance and economics of UASB reactor for sewage treatment. Proceedings of IAEM National conference on Pollution Prevention and Control in India, VRCE, Nagpur, March 2,3 2002, pp 17-19.
11. Sadgir, P.A., Patil, G.K. and Kahalekar, U.J. (2005) "Sewage for irrigation" International Congress of Chemistry and Environment, Indore from 24<sup>th</sup> to 26<sup>th</sup> December, 2005
12. Sadgir, P.A., Patil, G.K. and Kahalekar, U.J. (2005) "Evaluation of impact of polluted water on ground water quality in Kham river basin" International Congress of Chemistry and Environment, Indore from 24<sup>th</sup> to 26<sup>th</sup> December, 2005.
13. Sadgir P.A., Dr. U. J Kahalekar, (2007) 'Dying Wisdom in Mediveal water Management of Aurangabad city' National Conference on Water and Culture at Humpi on 25<sup>th</sup> to 27<sup>th</sup> June 2007.
14. Dr. U. J. Kahalekar, Hastimal S Kumavat 'Evaporation Suppression From Water Surface Using Chemical Films', International Journal of Environmental Research and Development (IJERD), ISSN No 2249-3131 Volume 3, May-June 2013
15. Dr. U. J. Kahalekar, Vinayak N. Mangrulkar, 'Water Planning and Development Plan by Using Rs and GIS of Khultabad Taluka of Aurangabad District, International Journal of Information and Computation Technology. ISSN 0974-2239 Volume, November 10 (2013)
16. Dr.U. J. Kahalekar, Sajedkhan S. Pathan, 'Design of Optimal Water Supply Network and Its Water Quality Analysis By using Water GEMS' International Journal of Science and research (IJSR) ISSN (online) 2319-7064, 2013
17. Dr. U.J. Kahalekar, Sarang Bhalachandra Deshmukh, 'Ground Water Quality Survey, Case Study Beed District', International Conference on Science and Technology (ICST-2K14),
18. Dr. U. J. Kahalekar, Sajedkhan S.Pathan, 'Optimal Design of Water Distribution By Using Water gems' International Journal of Science & Research (IJSR) 4th April 2015
19. Dr. U. J. Kahalekar, Ankita G. Prayag, 'Study and Assessment of Village Level Water Balance Calculation in Jal Yukta Shivar Program' 3<sup>rd</sup> National Conference on "Sustainable Water Resources Development and Management" SWARDAM 2016 – During 4-5 July 2016
20. Dr. U. J. Kahalekar, Rushabh Thole, 'Saving Water and Energy Through Optimum Utilization on Journal Paper', 3<sup>rd</sup> International Conference on Multidisciplinary Research & Practice held on 24<sup>th</sup> Dec 2016 at Ahemadabad