

## CURRICULUM-VITAE

Full name: DR. N. SURESH KUMAR.

Father's name: Sri. N. RAMULU

Address for correspondence: DR. N. SURESH KUMAR,  
Professor, Dept of Civil Engg.,  
College of Engg (A), Osmania University,  
HYDERABAD – 500 007 ( A. P.)  
Tel : 040 -27097125, ext : 219  
Fax : 040 - 27090317  
Email : [nskdr@yahoo.co.in](mailto:nskdr@yahoo.co.in)  
Mobile : 9441603791

Residential Address: DR. N. SURESH KUMAR,  
H.NO. 8-20, Anjanadri Nagar,  
HATHIGUDA (V), HAYAT NAGAR (M),  
R.R. Dist. PIN: 501 505

### DETAILS OF EDUCATIONAL QUALIFICATIONS :

Name of the examination	Name of the Univ.	Year of passing	% of marks	Subjects taken
B. Tech.	Kakatiya Univ., WARANGAL	1985	70.9	Civil Engg
M. E.	Anna Univ., MADRAS	1988	84.56	Irrigation Water Mgt.
Ph. D.	IIT., BOMBAY	1998	-	Jet Mixing in Flocculators

### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

Life member of Indian Society for Technical Education (LM4310)  
Life member of Indian Society for Hydraulics (LM447)

### TEACHING AND RESEARCH EXPERIENCE:

Teaching Experience : 23.0 Years  
Research Experience : 22 .0 Years  
Total teaching and research experience : 27.0 years

### RESEARCH PAPERS PUBLISHED IN JOURNALS :

Suresh Kumar, N. and Pani, B.S. (2002), ' <i>Rapid Mixing with free jets</i> ', Journal of Indian Water Works Association, Bombay, 34(3) : 191 to 195
Suresh Kumar, N. and Pani, B.S. (2003), ' <i>Tapered flocculation with hydraulic jets</i> ', Journal of Indian Water Works Association, Bombay, 35(3) : 167 to 172
B.S. Pani, S. G. Joshi, and Suresh Kumar, N. (2008), ' <i>Retention time distribution in flocculation chambers</i> ', Journal of Indian Water Works Association, Bombay, 40(1) : 63 to 72
Suresh Kumar, N. , Pani, B.S. and Joshi, S. G. (2009), ' <i>Residual turbidity in hydraulic jet flocculators</i> ', Journal of Indian Society for Hydraulics, Pune, 15(2) : 108 to 117 and 16(1) : 151 (errata)
Suresh Kumar, N. , Pani, B.S. and Joshi, S. G. (2014), ' <i>Effect of plan geometry on flocculation</i> ', Journal of Indian Water Works Association, Bombay, 45(4) : 285 to 291

#### **RESEARCH PAPERS PUBLISHED IN CONFERENCES :**

Suresh Kumar, N., Joshi, S.G., and Pani, B.S. (Feb, 1997), ' <i>Jet Flocculators</i> ', National Conference on Environmental Hydraulics and Free Surface Flows, Visakhapatnam (A.P.), India: III-1 to III-6
Suresh Kumar, N., Joshi, S.G., and Pani, B.S. (Dec, 1998), ' <i>Flocculation with the aid of Hydraulic Jets</i> ', Second International Symposium on Environmental Hydraulics, Hong Kong :771 to 776.
Suresh Kumar, N., Pani, B.S., and Joshi, S.G. (Oct, 2000), ' <i>Correlation between degree of Mixing in Hydraulic Jet Flocculators and Settling Efficiency</i> ', International Conference on Innovative Technologies for Rural Water Supply and Environmental Sanitation, Roorkee, India : 268 to 275
Suresh Kumar, N., and Gopala Krishna Rao, B. (Dec, 2001), ' <i>Catchment area treatment plans</i> ', National Conference on Hydraulics & Water Resources, Pune : 16 to 22
Sunitha, S and Suresh Kumar, N. (Feb, 2002), ' <i>Analysis of a watershed using GIS/ARC INFO</i> ' National Conference on Geographic Information Systems and their applications in Civil Engg, Hyderabad : 128 to 132
Raju, P.V. , Suresh Kumar, N. and Chandrashekar, G. (Dec, 2002), ' <i>Real time adoptive irrigation water distribution plan using satellite data</i> ', ISPRS Commission VII Symposium on Resource and Environment Monitoring, Hyderabad : 104 to 109
Rampradeep, A and Suresh Kumar, N. (Feb, 2004), ' <i>Lagrange's Method of Undetermined Multipliers for deriving Hydraulically efficient channel section</i> ', Conference on Water Resources Development and Management Practices, Hyderabad :

136 to 142
Suresh Kumar, N. and Hima Bindu, Y. (June, 2006), ' <i>Chemical Oxygen Demand reduction from sewage using Fly-ash</i> ', National Conference on Civil Engg Systems, Hyderabad : 649 to 655
Suresh Kumar, N., Pani, B.S., and Joshi, S.G. (Dec, 2007), ' <i>Estimation of energy loss in jet Flocculators</i> ', National Conference on Hydraulics & Water Resources, Surat : 279 to 286
Suresh Kumar, N. and Ellam Raj, Y. (Mar, 2010), ' <i>Low-Cost Jet Clariflocculators</i> ', National Conference on Sustainable Water Resources Management and Impact of Climate Change, Hyderabad : 446 to 451
Suresh Kumar, N. and Prasada Rao, (Feb, 2011), ' <i>Hydraulic Behaviour of Jet Clariflocculators</i> ', National Conference on Water for Future, Nanded : 42 to 48
Suresh Kumar, N. and Ravi Kumar, S. (Feb, 2011), ' <i>Removal of Fluoride in Public Water Supply Systems with Free Jets</i> ', National Conference on Sustainable Development of Water Resources and Environmental Management, Jaipur : 335 to 340
Suresh Kumar, N. and Ravi Kumar, S. (Oct, 2011), ' <i>Reduction of Fluoride with Free Jets for Industrial Applications</i> ', National Conference on Recent Advances in Civil Engineering, Varanasi : 598 to 601
Suresh Kumar, N., Pani, B.S., and Joshi, S.G. (Dec, 2011), ' <i>Jet Flocculators for Turbid Waters</i> ', National Conference on Hydraulics & Water Resources, Surat : 472 to 476
Prasanna, S.V.S.N.D.L. and Suresh Kumar, N. (Jan, 2014), ' <i>Review on Oil-Water Separators</i> ', International Conference on Emerging Trends in Civil Engineering, Hyderabad : 708 to 713
Suresh Kumar, N. and Sri Ramya, N (Jan, 2015), ' <i>Restoration Measures for a Large Irrigation Tank</i> ', National Conference on Role of Engineers in the Development of New State of Telangana, Hyderabad : 82 to 89
Shyamsunder, B and Suresh Kumar, N. (Jan, 2015), ' <i>Simulation of Groundwater Flow of a Micro Watershed,NGRI Campus</i> ', National Conference on Role of Engineers in the Development of New State of Telangana, Hyderabad : 114 to 121
Muralidhar, P, Suresh Kumar, N., and Mondal, N.C. (July, 2015), ' <i>Regional Groundwater Flow Modeling of a Watershed in Choutuppal</i> ', National Conference on Water, Environment, and Society, Hyderabad : 351 to 352
Suresh Kumar, N and Ravi Kumar, S. (Sep, 2015), ' <i>Hydraulic behaviour of free jets for Fluoride reduction by Nalgonda Process</i> ', National Conference on Climate change and Sustainable Water Resources Management, Warangal : 195 to 201
Suresh Kumar, N. and Subodh, G (Dec, 2015), ' <i>Hydraulic Design and Risk Analysis of</i>

*Stormwater Drainage System*', International Conference on Recent Innovations in Structural Engineering, Hyderabad : 1811 to 1821

Suresh Kumar, N., Pani, B.S., and Joshi, S.G. (Dec, 2015), 'Hydraulic Behaviour of Auxiliary Devices for Rapid Mixing', International Conference on Hydraulics, Water Resources and River Engineering, Roorkee : HYD-396

**SPONSORED PROJECTS HANDLED :**

Principal Investigator for '*Low-cost jet clariflocculators*', R & D Project funded by AICTE for 6.0 lakhs during 2002-2005 (**Completed**)

MODROBS Project in Water Resources Engg Laboratory, funded by AICTE for 15.0 lakhs during 2004-2007 (**Completed**)

**RESEARCH GUIDANCE: (M.E. dissertations)**

S.No.	Year	Name of the student
1	1999	A. Sudhkar
2	1999	S. B. Sumedha
3	2000	P. Srinivas
4	2000	B. Gopala Krishna Rao
5	2000	E. Maheshwar Reddy
6	2001	N. Seshadri Sekhar
7	2001	S. Sunitha
8	2001	R. Sambasiva Rao
9	2002	A. Ram Pradeep
10	2002	P. Venkat Raju
11	2003	D. Lokya
12	2005	Y. Hima Bindu
13	2005	V. Sekhar Rao
14	2005	G. Sashidhar
15	2006	Mahaboob Subani Shaik
16	2010	S. Ravi Kumar
17	2012	G. Subodh
18	2014	N. Sri Ramya
19	2015	B. Shyamsunder*
20	2015	P. Muralidhar*

**TRAINING COURESES ATTENDED :**

Participated in a 23-day '*Orientation Course*' (3<sup>rd</sup> to 25<sup>th</sup> February, 2000) being organized by the Academic Staff College, Osmania University, Hyderabad.

Participated in a 5-day short-term course on '*Introduction to wind tunnel testing techniques*' (27<sup>th</sup> to 31<sup>st</sup> May, 2002) being organized by the Indian Institute of

Technology, Kanpur.
Participated in a 6-day short-term course on ' <i>Municipal Wastewater treatment</i> ' (28 <sup>th</sup> April to 3 <sup>rd</sup> May, 2003) being organized by the Indian Institute of Science, Bangalore.
Participated in a 7-day short-term course on ' <i>Soft Computing tools in Civil Engg</i> ' (10 <sup>th</sup> to 16 <sup>th</sup> November, 2003) being organized by the Indian Institute of Technology, Kharagpur.
Participated in a 5-day short-term course on ' <i>Soil and Water Pollution</i> ' (01 <sup>st</sup> to 05 <sup>th</sup> December, 2003) being organized by the Indian Institute of Science, Bangalore.
Participated in a 11-day short-term course on 'Applications of Remote Sensing & GIS in Water Resources Development and Management' (06 <sup>th</sup> to 16 <sup>th</sup> January, 2004) being organized by National Water Academy, Pune.
Participated in a 5-day short-term course on ' <i>Advances in Groundwater Research</i> ' (17 <sup>th</sup> to 21 <sup>st</sup> January, 2005) being organized by the Indian Institute of Technology, Delhi.
Participated in a 5-day short-term course on ' <i>Recent Trends in Dam Engg</i> ' (05 <sup>th</sup> to 09 <sup>th</sup> June, 2006) being organized by the Indian Institute of Technology, Guwahati.
Participated in a 2-day training course on ' <i>Plumbing and Sanitary Services in Buildings</i> ' (22 <sup>nd</sup> and 23 <sup>rd</sup> May, 2008) being organized by the National Council for Cement and Building Materials, Hyderabad.
Participated in a 21-day Refresher course on ' <i>Integrated Survey with DGPS and Total Station</i> ' (13 <sup>th</sup> Oct, 2008 to 04 <sup>th</sup> Nov, 2008) being organized by the Jawaharlal Nehru Technological University, Hyderabad.
Participated in a 5-day short-term course on ' <i>Earthquake analysis of dams</i> ' (17 <sup>th</sup> to 21 <sup>st</sup> August, 2009) being organized by the Indian Institute of Technology, Kharagpur.
Participated in a 5-day short-term course on ' <i>Hydraulics and the Environment</i> ' (1 <sup>st</sup> to 5 <sup>th</sup> August, 2011) being organized by the Indian Institute of Technology, Bombay.
Participated in a 5-day short-term course on ' <i>Hydraulic Structures</i> ' (12 <sup>th</sup> to 16 <sup>th</sup> March, 2012) being organized by the Indian Institute of Technology, Bombay.
Participated in a 5-day short-term course on ' <i>Turbulent Jets and Plumes : Theory and Application</i> ' (14 <sup>th</sup> to 18 <sup>th</sup> January, 2013) being organized by the Indian Institute of Technology, Bombay.
Participated in a 5-day short-term course on 'Sediment Transport and River Engineering' (9 <sup>th</sup> to 13 <sup>th</sup> December, 2013) being organized by the Indian Institute of Technology, Bombay.
Participated in a 5-day short-term course on 'The Musts of Fluid Mechanics' (26 <sup>th</sup> to 30 <sup>th</sup> May, 2014) being organized by the Indian Institute of Technology, Bombay.

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<b>NATIONAL AND INTERNATIONAL CONFERENCES ATTENDED :</b>
National Conference on Environmental Hydraulics and Free Surface Flows, Visakhapatnam, India, (21 <sup>st</sup> & 22 <sup>nd</sup> February, 1997), Suresh Kumar, N., Joshi, S.G., and Pani, B.S., ' <i>Jet Flocculators</i> ' : III-1 to III-6
International Conference on Innovative Technologies for Rural Water Supply and Environmental Sanitation, Roorkee, India, (12 <sup>th</sup> & 13 <sup>th</sup> October, 2000), Suresh Kumar, N., Pani, B.S., and Joshi, S.G. , ' <i>Correlation between degree of Mixing in Hydraulic Jet Flocculators and Settling Efficiency</i> ': 268 to 275
National Conference on Hydraulics & Water Resources, Pune, India, (06 <sup>th</sup> & 07 <sup>th</sup> December, 2001), Suresh Kumar, N., and Gopala Krishna Rao, B. , ' <i>Catchment area treatment plans</i> ,: 16 to22
National Conference on Geographic Information Systems and their applications in Civil Engg, Hyderabad, India, (14 <sup>th</sup> to 16 <sup>th</sup> February, 2002) Sunitha, S and Suresh Kumar, N. ' <i>Analysis of a watershed using GIS/ARC INFO</i> ' : 128 to 132
Conference on Water Resources Development and Management Practices, Hyderabad, India, (27 <sup>th</sup> February, 2004), Rampradeep, A and Suresh Kumar, N. , ' <i>Lagrange's Method of Undetermined Multipliers for deriving Hydraulically efficient channel section</i> ' : 136 to 142
National Conference on Sustainable Water Resources Management and Impact of Climate Change, Hyderabad (5 <sup>th</sup> & 6 <sup>th</sup> March, 2010), Suresh Kumar, N. and Ellam Raj, Y. ' <i>Low-Cost Jet Clariflocculators</i> ': 446 to 451
National Conference on Recent Advances in Civil Engineering, Varanasi (14 <sup>th</sup> to 16 <sup>th</sup> October, 2011), Suresh Kumar, N. and Ravi Kumar, S. ' <i>Reduction of Fluoride with Free Jets for Industrial Applications</i> ': 598 to 601
National Conference on Role of Engineers in the Development of New State of Telangana, Hyderabad (23 <sup>rd</sup> and 24 <sup>th</sup> January, 2015), Suresh Kumar, N. and Sri Ramya, N, ' <i>Restoration Measures for a Large Irrigation Tank</i> ': 82 to 89
International Conference on Hydraulics, Water Resources and River Engineering, Roorkee (17 <sup>th</sup> to 19 <sup>th</sup> December, 2015), Suresh Kumar, N., Pani, B.S., and Joshi, S.G. (Dec, 2015), ' <i>Hydraulic Behaviour of Auxiliary Devices for Rapid Mixing</i> ': HYD-396

<b>WORKSHOPS ATTENDED :</b>
Participated in a 3-day workshop on ' <i>Earth quake Disaster Mitigation</i> ' (18 <sup>th</sup> to 20 <sup>th</sup> August, 1999) being organized by the Indian Institute of Public Administration , New

Delhi.
Participated in a 1-day workshop on ' <i>Artificial Neural Networks in Hydraulics</i> ' (5 <sup>th</sup> July, 2003) being organized by the Indian Society for Hydraulics, Pune.
Participated in a 1-day workshop on ' <i>Environmental Pollution and Remedial Measures</i> ' (26 <sup>th</sup> June, 2004) being organized by Kakatiya Institute of Technology & Science, Warangal .
Participated in a 1-day workshop on ' <i>Advances in Computational Structural Mechanics and Fluid Flows</i> ' (5 <sup>th</sup> December, 2005) being organized by Osmania University College of Engg, Hyderabad.
Participated in a 3-day workshop on ' <i>Integrated Survey Using Total Station and GPS</i> ' (15 <sup>th</sup> to 17 <sup>th</sup> April, 2008) being organized by Jawaharlal Nehru Technological University, Hyderabad.
Organized a 2-day workshop on ' <i>Urban Stormwater Management-Issues and Challenges</i> ' (20 <sup>th</sup> and 21 <sup>st</sup> February, 2009) at Dept of Civil Engg, Osmania University College of Engg, Hyderabad.
Participated in a 3-day training program on Applied Groundwater Flow and Contaminant Transport Modelling' (27 <sup>th</sup> to 29 <sup>th</sup> January, 2014) being organized by Schlumberger water services, Hyderabad.

INVITED TALKS :
'Unit Processes in Water Treatment' at Hyderabad Metro Water Supply and Sewerage Board Training Programme for Managers funded by World Bank (February,1998).
'Hydrology' at one day orientation workshop on Issues in Water being organized by Godavari Vedika, Hyderabad (September,2003).
'Flood Management- Structural and Non-Structural measures' being organized by Engg Staff College of India, Hyderabad (September,2004).
'Design Criteria & Specifications of Sewerage Systems' being organized by Engg Staff College of India, Hyderabad (26, November, 2012).
'Design Equations of Sewerage Systems' being organized by Engg Staff College of India, Hyderabad (26, November, 2012).
'Application of Design Principles of Sewerage Systems' being organized by Engg Staff College of India, Hyderabad (27, November, 2012).
'Design of a pumping Station' being organized by Engg Staff College of India, Hyderabad (27, November, 2012).

‘Hydraulic Design and Risk Analysis of Stormwater Drainage Systems’ being organized by Engg Staff College of India, Hyderabad (30, November,2012).
‘Special treatments in wastewater recycling’ being organized by Engg Staff College of India, Hyderabad (07, December,2012).
‘Types of sewage treatment plants and stages of treatment’ being organized by Engg Staff College of India, Hyderabad (01, February, 2013).
‘Design of Water Supply Systems in High Rise Buildings’ being organized by Engg Staff College of India, Hyderabad (02, August , 2014).
‘Design of Plumbing Systems in High Rise Buildings’ being organized by Engg Staff College of India, Hyderabad (02, August , 2014).
‘Design of Sluices’ being organized by Engg Staff College of India, Hyderabad (06, October , 2015).
‘Energy Dissipation Arrangements’ being organized by Engg Staff College of India, Hyderabad (06, October , 2015).

#### **TECHNICAL NOTES PUBLISHED :**

Published an article on ' *Jet Flocculator for water treatment Plant*' in ‘The Hindu’ News Paper Science and Technology Supplement HOT LINE Column dated 29<sup>th</sup> October 1998.



TEACHING AND RESEARCH EXPERIENCE:

Name & Address of the firm	Post held	Duration	Pay scale	Basic pay & other allowances last drawn	Length of service
Kaavikulguru Instt of Tech & Sc., RAMTEK- 441 106 (M.S.)	Lecturer	10.06.1988 to 31.01.1990	700-40-1100-50- 1600	Rs 780/- & Rs 2870.90	Teaching experience of 1 year 8 months
Vasavi College of Engg., HYDERABAD - 500 031 (A.P.)	Lecturer	02.02.1990 to 23.07.1993	2200-75-2800- 100-4000	Rs 2575/- & Rs 5327/-	Teaching experience of 3 years 5 months
Indian Instt of Tech., BOMBAY 400 076 (M.S.)	Institute Research Scholar	26.07.1993 to 01.08.1997	Research Fellowship	Rs 3200/-	Research experience of 4 years
College of Engg., Osmania University HYDERABAD - 500 007	Lecturer	04.08.1997 to 03.08.2001	8000-275-13500	Rs 9100/- & Rs14436/-	Teaching & Research experience of 4 years
College of Engg., Osmania University HYDERABAD - 500 007	Assistant Professor (Senior Scale)	04.08.2001 to 03.08.2004	10000-325-15200	Rs 10975/- & Rs19336/-	Teaching & Research experience of 3 years
College of Engg., Osmania University HYDERABAD - 500 007	Assistant Professor (Selection Grade)	04.08.2004 to 03.08.2007	12000-420-18300	Rs 13260/- & Rs30076/-	Teaching & Research experience of 3 years
College of Engg., Osmania University HYDERABAD - 500 007	Associate Professor	04.08.2007 to 03.08.2010	37400-67000 +AGP 9000	Rs 43250/- & Rs94573/-	Teaching & Research experience of 3 years
College of Engg., Osmania University HYDERABAD - 500 007	Professor	04.08.2010 to till - date	37400-67000 +AGP 10000	Rs 51750/- & Rs148098/-	Teaching & Research experience