

Curriculum Vitae of Dr.N. DARGA KUMAR



- Name:** Dr. N. Darga Kumar
- Present Position:** Assistant Professor in Civil Engineering (Geotech Engg.)
- Present Employer:** J N T U College of Engineering Kakinada, A.P. State, India.
- Date of Birth:** 01-06-1973
- Address for Correspondence.**

N. Darga Kumar,
Assistant Professor
Department of Civil Engineering
J.N.T.U. College of Engineering
Kakinada-533 003, A.P., India.
E. Mail: ndargakumar@yahoo.com (or) ndargakumar@hotmail.com,
ndkjntu@gmail.com
Hand Phone: +91-9949331274

6. Educational Qualifications

B. Tech.	B. Tech in Civil Engineering, JNTU College of Engineering, Anantapur, A.P. India. (First Class) Passed in 1995 .
M. Tech.	M. Tech (Geotechnical Engineering) from Civil Engineering Department, SVU College of Engineering, Tirupati, A.P.India. (First Class) Passed in 1997 .
Ph.D.	Offshore Geotechnical Engineering, Indian Institute of Technology Madras , Chennai-600 036, India. July 2005 .

7. Work Experience (Pre Ph.D Experience 3 Years + Post Ph.D Experience 2.5 years)

7 (A). Teaching Experience : about 5.5 years

S.No.	Position Held	Name of University/Institution/Organisation	Period		Experience
			From	To	
1	Assistant Professor	J.N.T.U. College of Engineering, Kakinada, A.P.	Nov 2006	Till date	14 months
2	Associate Professor	GMR Institute of Technology, Rajam, Srikakulam, A.P.	Feb' 2006	Oct'2 006	07 months
3	Lecturer	Shanmuga College of Engineering, Thanjavur, T.N.	Sept' 2000	Dec'2 000	04 months
4	Teaching Assistant	S.V.University College of Engineering, Tirupati, A.P.	Aug' 1998	Aug' 2000	24 months
5	Academic Associate	J.N.T. University College of Engineering, Hyderabad, A.P.	Nov'1 997	July' 1998	09 months

7(B). Industrial Experience : 12 months = 1 year

S.No.	Position Held	Name of Institution/Organisation	Period		Experience
			From	To	
1.	Geotechnical Engineer	Keller Ground Engineering India Pvt. Ltd, Chennai. (Germany based MNC)	Aug' 2005	Jan' 2006	06 months
2.	Project Associate	Department of Ocean Engineering, Indian Institute of Technology Madras, Chennai.	Jan' 2005	July' 2005	07 months

7 (C). Ph.D Guidance: 3 (Pursuing)

8. Field of Specialisation Geotechnical Engineering

9. Research Interests Behaviour of Soils and Foundations under cyclic loading, Geoenvironmental Engineering and Soil Stabilisation Studies for Road Projects.

10. Paper Publications International Journals Published : 02
International Journals (Communicated) : 03
International Conferences Published : 10
National Conferences Published : 17
(Details of papers published are furnished)

11. Membership(s) Life Member of **Indian Geotechnical Society (IGS)**
Life Member of **Indian Society for Technical Education (MISTE)**
Life Member of **Institution of Engineers (MIE)**. India.

12. Abroad Visit(s) **Osaka (Japan)** - Paper presented in an International Symposium on Engineering practice and performance of soft deposits. Osaka, Japan. June 2-4, 2004. – Funded by Council of Scientific and Industrial Research (**CSIR**), India.

Singapore – Keller Ground Engineering Ind. Pvt. Ltd. – Company Assignment worked as a Geotechnical Engineer.

Kula Lumpur (Malaysia) - Keller Ground Engineering Ind. Pvt. Ltd. - Company Assignment worked as a Geotechnical Engineer.

13. Awards/Merit Scholarship **Vignana Parithosikam** for having stood one of the Toppers in XII Standard in the district level.

14. Responsibilities Holding

- CAD Lab in-charge in the Civil Engineering Department at JNTU Kakinada
- Officer in-charge of Academic Section (OAS) at JNTU Kakinada

15. Seminars/Workshops Organised

- Co-coordinator** for the One day Programme on “Principals meet and Workshop on Quality Assurance in Technical Education through ISO Certification”, 25th March'2008.

16. Short Term Course(S) Participated

1. Participated in the “**INDUCTION TRAINING TO YOUNG TEACHERS**” a **3-week** AICTE sponsored Staff Training Programme from 01-11-2000 to 17-11-2000 held at Shanmugha College of Engineering, Thanjavur, and Tamilnadu, India.
2. Participated a **1 week** Course on “**Engineering Seismology and Seismic Hazard Assessment**” organized by Department of Civil Engineering, IIT Madras, Chennai during 12th-16th Feb’2007.
3. Participated a **4 week** “**11th Orientation Course for College Teachers**” organized by UGC Academic Staff College, J.N.T.University, Hyderabad, during 5 – 31, May’ 2007.
4. Participated a **1 week** Course on “**Recent Advances in Flexible Pavement Engineering**” organized by Department of Civil Engineering during 16th-21st July’2007.
5. Participated a **2 week** “**Faculty Development Programme in Entrepreneurship**”, 14-24, March’2008, Organized by Centre for Entrepreneurship Development (CED) Hyderabad and National Science & Technology Entrepreneurship Development Board (NSTEDB) held at JNTU Kakinada.

17. (A) SUBJECTS TAUGHT:

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|--------------------------------------|--|
| (i). Geotechnical Engineering | (ii). Foundation Engineering |
| (iii). Ground Improvement Techniques | (iv). Soil Dynamics & Machine Foundations |
| (v). Geo-Environmental Engineering | (vi). Advanced Foundation Engineering |
| (vii). Mechanics of Solids | (viii). CAAD |
| (ix). Engineering Geology | (x). Fluid Mechanics |
| (xi). Applied Mechanics | (xii). Building Materials and Construction |

17. (B) SUBJECTS EXPOSED:

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|--------------------------------------|---------------------------|
| (i). Marine Geotechnical Engineering | (ii). Marine Foundations |
| (iii). Port and Harbour Structures | (iv). Coastal Engineering |
| (v). Wave Hydro-Dynamics | |

18. Papers Published/Press in National and International Conferences International Journals

Journals Published (International): 02

1. Darga Kumar, N., Narasimha Rao, S. and Sundar, V. (2007). Performance of caisson in soft clay under cyclic lateral loading. Geotechnical Engineering, South Asian Geotechnical Society, Thailand, Vol 38, Numb 1, pages 16-23.
2. Narasimha Rao, S. and Darga Kumar, N. (2007). Lateral Earth Pressures on Caissons in Marine Clay under Cyclic Loading, Journal of Marine Geosources and Marine Geotechnology, Volume 25, Issue 1 January 2007 , pages 15 – 35.

Journals Communicated (International): 03

1. Darga Kumar, N. and Narasimha Rao, S. A laboratory study on the lateral capacity of caissons in clay. Canadian Geotechnical Journal, Canada (Under Review).

2. Darga Kumar, N. and Narasimha Rao, S. Earth Pressures on Caissons in Marine Clay under Lateral Loads – A Laboratory Study. *Journal of Applied Ocean Research*, Elsevier Ltd. (Communicated).
3. Darga Kumar, N. and Narasimha Rao, S. Laboratory studies on load – deflection behaviour of caissons in clay under lateral loads. *Proceedings of ICE Journal Geotechnical Engineering*, UK. (Communicated).

National Conferences Published

1. **Darga Kumar, N.** (2007). Role of Geotechnical Testing in Dredging Projects. XX National Convention of Marine Engineers and National conference on Dredging and Integrated Development of Inland Waterways on 24/25 February, 2007, Institute of Engineers at Visakhapatnam.
2. **Darga Kumar, N.,** Narasimha Rao, S. (2006). Consolidation and Strengthening Methods of Weak Marine Soils. One-day National Workshop on “Improvement of Weak Soils”. 7th October, 2006. Dept. of Civil Engineering, Gayatri Vidya Parishad College of Engineering, Visakhapatnam, A.P., India.
3. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2006). Lateral Capacity of a Mono Pile in Soft Marine Clay. National Conference on Corrective Engineering Practices in Troublesome soils (CONCEPTS), held during 8-9 July’2006, Department of Civil Engineering, JNTU Kakinada.
4. Narasimha Rao, S., **Darga Kumar, N.,** Hema Latha, K. and Nagendra Kumar, B. (2005). Geotechnical Investigations of Tsunami Damaged Structures along the Indian Coast. National Conference on Case Studies in Geotechnical Engineering, Geopractice-2005, IISc, Bangalore, India. July 25-26, 2005.
5. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). Lateral resistance factors for caissons in marine clay. *IGC-2004*, NIT Warangal, 17-19 December 2004. Pp. 599-602.
6. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). Experimental p-y curves for caissons in marine clay. *Indian national conference on Harbour and Ocean Engineering*, 7- 9 Dec 2004, NIO, Goa; pp.231-239.
7. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). Lateral deflection of a caisson in marine clay. National Symposium on advances in Geotechnical engineering. IISc Bangalore, July 22-23, 2004. Pp. 179 -184.
8. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2003). Studies on earth pressures in model caisson embedded in marine clay. *Indian Geotechnical conference on Geotechnical engineering for infrastructural development*, IIT Roorkee, 18-20, Dec 2003. Pp.153-156.
9. Manohara Reddy, R., Prasad, K. N., Mallikarjuna Rao, K. and **Darga Kumar, N** (1999). Beneficial use of fly ash in sub-base course. *Proceedings of the National seminar on fly ash characterisation and its Geotechnical applications*. 30th August 1999, IISc Bangalore.
10. **Darga Kumar, N.** and Nagendra Prasad, K (1999). Solid Waste Management in Developing Countries. *Proceedings of All India conference on environmental pollution and strategies for control and abatement*. 16 -17 July 1999. Tirupati. pp: 39-40.

11. **Darga Kumar, N.** and Nagendra Prasad, K (1999). *Fly ash Disposal Techniques. Proceedings of All India conference on environmental pollution and strategies for control and abatement.* 16-17 July, 1999. Tirupati. Pp: 54-56.
12. **Darga Kumar, N.,** Nagendra Prasad, K. and Mallikarjuna Rao, K (1999). Water resources conservation - role of fly ash. *Proceedings of National seminar on water resources management for sustainable development.* March 12-13, Tirupati. pp. 139-142.
13. **Darga Kumar, N.** and Kotaiah, B. (1999). Clay minerals as liners for the storage of hazardous waste residues. *Abstracts of UGC National conference on chemistry, industry and environment.* Feb 25-27, 1999. Rajahmundry.
14. **Darga Kumar, N.** and Mallikarjuna Rao, K (1998). Non-Concrete foundations for rural buildings. *Abstracts of National seminar on better World environment through engineering, education and management.* 18-20 Nov., 1998. TTTI Chennai.
15. **Darga Kumar, N.,** Nagendra Prasad, K. and Mallikarjuna Rao, K (1997). Fly ash as a resource material for embankments towards effective irrigation management. *Abstracts of All India seminar on participatory management of irrigation schemes-A Janmabhoomi concept.* Aug 25-26, 1997. Tirupati.
16. Manohara Reddy, R., Prasad, K. N., Mallikarjuna Rao, K. and **Darga Kumar, N** (1997). Fly ash as a resource material for use in road construction. *Proceedings of the National conference on advances in materials of construction and construction methods.* 22-23 Aug, 1997. Tirupati. pp. 65-69.
17. Reddy, R. M., Nagendra Prasad, K., Mallikarjuna Rao, K. and **Darga Kumar, N** (1997). Use of fly ash in road construction for sustainable development. *Abstracts of the National seminar on social planning for sustainable development.* 25-27 March 1997. Tirupati.

International Conferences Published

1. **Darga Kumar, N.,** Narasimha Rao, S (2007). Experimental Studies on Model Caissons in Soft Clay under Lateral Cyclic Loading. 4th International Conference on **Earthquake Geotechnical Engineering.** Thessaloniki, Greece, June 25-28' 2007.
2. **Darga Kumar, N.,** Nagendra Prasad, K. and Mallikarjuna Rao, K. (2004). Strength and compressibility behaviour of expansive clay-fly ash mixtures. International conference on geosynthetics and geoenvironmental engineering. IIT Mumbai, Dec. 8-10, 2004. Pp.223- 228.
3. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). Lateral bearing capacity prediction of caisson type of seawall in difficult sub soil conditions. *15th South East Asian Geotechnical Conference on Development in Geotechnical engineering for practice.* Bangkok, Thailand, Nov. 22-26, 2004. Pp.259-264.
4. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V. (2004). Design Studies of Caissons for Coastline Protection using Model Testing. Abstracts of An International conference on *Eco-Engineering.* The use of vegetation to improve slope stability, Sept 13-17, 2004, Thessaloniki-Greece.
5. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). Studies on model caissons embedded in marine clay for coastal protection wall. *23rd International OMAE conference.* Vancouver, Canada. 20-25 June 2004. Paper No. OMAE2004-51396.

6. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). Performance of Caisson type of seawall embedded in soft clay. International Symposium on Engineering practice and performance of soft deposits. Osaka, Japan. June 2-4,2004. Pp. 525-530.
7. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V (2004). *Lateral capacity of caissons. International conference on Geotechnical Engineering. Beirut. May 19-22, 2004. Paper No.A147.*
8. Narasimha Rao, S., **Darga Kumar, N.,** Sundar, V (2004). *Influence of Cyclic load on model caisson seawalls embedded in marine clay. Cyclic behaviour of soils and liquefaction phenomena. Triantafyllidis(ed)© 2004 Taylor & Francis Group, London, ISBN 90 5809 620 3. Pp. 425-429.*
9. **Darga Kumar, N.,** Narasimha Rao, S., Sundar, V., Santhanam, M. (2004). *Design of pressure cell for measurement of lateral earth pressure. International e-Conference on Modern trends in foundation engineering and Geotechnical challenges and solutions. IIT Madras, Jan' 26-30, 2004. Published in CD-ROM (Displayed in Web URL: <http://www.ecfg.iitm.ac.in/> Theme: No 6 Experimental techniques S.No 6.4).*
10. **Darga Kumar, N.,** Nagendra Prasad, K. and Mallikarjuna Rao, K (1998). Mechanisms governing the behaviour of fly ash – black cotton soil mixtures. *Problematic soils,* Yanagisawa, Moroto & Mitachi (eds) © 1998 **Balkema, Rotterdam, ISBN 90 54109971.** pp. 271-274.

19. SEMINARS AND CONFERENCES PARTICIPATED

1. National symposium on recent advances in civil engineering, conducted by the Department of Civil engineering, S. V. U. College of Engineering, Tirupati, during Dec 21-23, 1996.
2. All India seminar on participatory management of Irrigation schemes-a Janmabhoomi concept, held on Aug 25-26, 1997 at S. V. U. Senate Hall, conducted by Institution of Engineers, Tirupati Local Center.
3. National Conference on advances in materials of construction and construction methods, held during Aug 22-23, 1997, conducted by Department of Civil Engineering, S. V. U. College of Engineering, Tirupati.
4. National Seminar on Better World environment through Engineering, Education and Management, held during 18-20 Nov, 1998, organized by Technical Teachers Training Institute, MHRD, Govt. of India, Chennai13.
5. National Conference on Chemistry, Industry and Environment (Sponsored by UGC, New Delhi), held on Feb 25-27, 1999, at P.G. Department of Chemistry Govt. College, Rajahmundry-533 105, Andhra Pradesh.
6. National Seminar on Water Resources Management for Sustainable Development, held during March 12-13, 1999, conducted by Water Technology Center, S. V. U. College of Engineering, Tirupati.
7. Indian Geotechnical Conference on Geotechnical engineering for Infrastructural Development, held during Dec 18-20, at I.I.T. Roorkee, Sponsored by Indian Geotechnical Society.
8. National Seminar on Energy and Environment for Sustainable Development, held during Feb 25-26, 2000, conducted by S.V.U. College of Engineering, Tirupati, Andhra Pradesh.
9. National Seminar on Fly ash characterization and its Geotechnical applications held during Aug 30th 1999 at Indian Institute of Science, Bangalore.

- 10.** Symposium on Foundation Engineering in Soft Marine Clays, held in the Department of Ocean Engineering, I.I.T. Madras to honor Prof. S. Narasimha Rao on 1st Dec 2003.
- 11.** International Symposium on Engineering Practice and Performance of Soft Deposits, held at Osaka, Japan during 2-4 June 2004.
- 12.** National Symposium on Advances in Geotechnical Engineering (NSAGE-2004) held at Indian Institute of Science, Bangalore during July 22-23, 2004.
- 13.** Indian Geotechnical Conference on Ground Engineering and Emerging Trends held at NIT Warangal during 17-18th Dec' 2004.
- 14.** Participated National Seminar on "Rehabilitation and Retrofitting of Civil Engineering Structures" held during 10-11 Aug'2006 at GMR Institute of Technology, Rajam, Srikakulam Dist.
- 15.** Participated in One-day National Workshop on "Improvement of Weak Soils". 7th October, 2006. Dept. of Civil Engineering, Gayatri Vidya Parishad College of Engineering, Visakhapatnam, A.P., India.
- 16.** Participated a 1 day workshop on "Advanced Geotechnical Testing Methods", Oct'10' 2007 at New Delhi, Organised by Ultra Tech Ltd Company.
- 17.** Participated in One-day National Workshop on "Case studies in Engineering Soils". 2nd October, 2007. Dept. of Civil Engineering, JNTU College of Engineering, Kakinada, A.P., India.
- 18.** Participated in National Convention of Marine Engineers and National conference on Dredging and Integrated Development of Inland Waterways on 24/25 February, 2007, Institute of Engineers at Visakhapatnam.
- 19.** Participated a 2 day Training Programme on "Environmental Management" 9-10, Jan'2007, conducted at Department of Civil Engineering in JNTU Kakinada under TEQIP.
- 20.** Participated a One day workshop on "Competency Based Curriculum Design" conducted at JNTU Kakinada under TEQIP, 8th April'2007.