

1. PERSONAL DATA

NAME: Mahesh Nandalal Varma

ADDRESS:

21, Raghuvveer Nagar, Opp. SFS, Jalna Road, Aurangabad – 431001.

Ph: [240] 233 26 55, Fax: [240] 2 333 289, Mobile: 09326 204 205

Email: mnvarma@nandadeep.org, Web: www.nandadeep.org

Educational Qualification:

M.Tech. (Aero-Structures) IIT Bombay, B.E. (Civil)

2. PROFESSIONAL EXPERIENCE

1. Practicing Structural Engineer

2. Director and Head Design Dept - Nandadeep Building Center [*Govt. of India and HUDCO assisted project*]

- I am structural and consulting engineer, working mainly in field of masonry design and research.
- As a director and head of design dept of *Nandadeep Building Center*, I was responsible for the structural design of world's now largest span masonry dome - '*Grand Pagoda*'. It is unreinforced masonry dome with *clear span of 85 meter* constructed at Mumbai India in 2008. The gigantic structure has the *height of 89 meter* and can accommodate 10000 persons under one roof for meditation. Further details can be seen on <http://nandadeep.org/masonry/main/welcome-guest#>
- Structural and Consulting Engineer for Ashok Stabmbh (structure in stone masonry with *height 19.3 meter*).
- Structural advisor of Honorable Governor of Maharashtra house (*Jal Bhushan*, masonry heritage building) for structural retrofitting.

Reference: www.nandadeep.org

3. Research Publications

International Conferences:

1. 'Thrust line using linear elastic finite element analysis for masonry structures', International Conference on Structural Analysis of Historical Construction, Shanghai, China, Oct 2010. (Paper accepted)
2. 'External node in finite element method', ICTACEM 2004 [International conference on Theoretical, Applied, Computational and Experimental Mechanics], December 28-30, Pg 91.
3. 'Tension Ring in Masonry Dome', International Conference on Structural Analysis of Historical Construction, New Delhi, Dec 2006. Volume 2, Pg 1187 -1193.
4. 'Stability of Masonry dome- Special emphasis on Gol Ghumbaz', International Conference on Structural Analysis of Historical Construction, New Delhi, Dec 2006. Volume 3, Pg 1789 – 1794.
5. 'Monumental Shell structures using stone masonry: some aspects', International Symposium on new Perspectives on for Shell and Spatial structures, Taipei, Taiwan, Oct 03, Pg 176-177.

Indian Journal and conference:

1. 'Grand Pagoda – A wonder in masonry', Structural Engineering quarterly journal of Indian Society of Structural Engineers [ISSE], volume 10-2 & 3, Apr-June and Jul-Sep 08, Pg 4-7
2. 'Grand pagoda at Gorai creek (Design features)', Structural engineering quarterly journal of Indian Society of Structural Engineers [ISSE], volume 3-4, oct-dec 01, Pg 6-11.
3. 'Intricacies in construction of Grand Pagoda in stone masonry', Concrete India, Journal of Indian chapter of American Concrete Institute [ACI], volume 19 No.1, Jan/Mar-2004., Pg 8-11.
4. 'High Grade PSC piles for fast track construction', National seminar, CEMON 2004, Conference on Fast track construction technology, Pg 71-74.