



**BIO – DATA**

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DATE OF BIRTH : 8<sup>th</sup> August 1942.  
 PLACE OF BIRTH : Cuttack (INDIA)

**EDUCATION QUALIFICATION**

|   |   |             |      |
|---|---|-------------|------|
| High School Certificate Examination     | Board of Secondary Education, Orissa                                      | First       | 1959 |
| Pre-University (Science)                | Utkal University  | First       | 1960 |
| Bachlor of Technology (Civil Engg)      | I.I.T.,Bombay   | First(Hons) | 1965 |
| Master of Technology (Structural Engg.) | I.I.T.,Bombay   |             | 1967 |
| Master of Science in Civil Engg.        | South Dakota School of Mines & Technology, Rapid City, South Dakota,USA.  |             | 1971 |
| Doctor of Philosophy                    | South Dakota School of Mines & Technology, Rapid City, South Dakota, USA. |             | 1972 |

**EXPERIENCE**

|    |  |                            |
|----|--|----------------------------|
| 1. | Junior Engineer (Design), Office of the Chief engineer (R & B), Orissa, Bhubaneswar. | Feb, 1965 – July 1965      |
| 2. | Lecture in Civil Engineering, Regional Engineering College, Rourkela.                | Aug.1967 – Sep.1976        |
| 3. | Asst. Professor in Civil Engineering, Regional Engineering College,Rourkela          | Sep.1976 – April, 1985     |
| 4. | Professor in Civil Engineering, National Institute of Technology, Rourkela           | April 1985 – August 2002   |
| 5. | Professor & Head in Civil Engineering, National Institute of Technology, Rourkela.   | 1989 – 1991 & 1998 - 2000. |
| 6. | Dean, Students Affairs, National Institute of Technology, Rourkela.                  | 2001 – 2002                |
| 7. | Principal, Jagannath Institute of Engineering and Technology, Jagatpur, Cuttack.     | Jan 2003 – July 2004.      |
| 8. | Dean( Academic), D.R.I.E.M.S., Tangi, Cuttack.                                       | April 2005 – October 2005  |

|     |   |                        |
|-----|---|------------------------|
| 9.  | Principal, Dean & Head, Civil Engineering, Orissa Engineering College, Bhubaneswar                        | June 2006 – June 2008  |
| 10. | Senior Consultant, Arki Techno Consultant Private Limited, N3/91, I.R.C. Village, Nayapalli, Bhubaneswar. | August 2008- Sept 2009 |

### LIST OF PUBLICATIONS

1. *An Investigation of the Buckling Problems in Aluminium Alloy Bridge Trusses.* Dissertation Submitted to IIT, Bombay for M.Tech Degree, 1967.
2. *Earthquake Behaviour of Arch Dam Reservoir Systems.* Thesis submitted to South Dakota School of Mines & Technology, Rapid City, South Dakota, USA for Ph.D. Degree, 1972.
3. *Earthquake Behaviour of Arch Dam Reservoir Systems,* 5<sup>th</sup> World Conference of "Earthquake Engineering" held at Rome, 1973.
4. *Earthquake Hydrodynamic Forces on Arch Dams.* A.S.C.E., Engineering Mechanics Division, October 1973.
5. *Discussion on Design and Disposition of Infiltration Galleries in the Koel River to augment water supply to Regional Engg. College, Rourkela.* Journal of Institution of Engineers (India). Vol.56, February, 1976.
6. *Fast Fourier Transform Algorithm, and its Use in Transient Analysis,* 21<sup>st</sup> Congress of Indian Society of Theoretical and Applied Mechanics, held at Bangalore, 1976.
7. *Fracture in Prestressed Concrete Specimens,* Proceedings of the Symposium on Fracture Mechanics, held at REC, Rourkela, ISTAM, 1980.
8. *Behaviour of Rolled Steel Angle Struts with Lateral Supports,* 24<sup>th</sup> Congress of ISTAM, held at REC, Rourkela, 1980.
9. *Analysis of Folded Plate Structure by Using Individual Plate Load as Particular Loading,* ISTAM, held at IIT, Bombay, 1987.
10. *Finite Element Analysis of Shells and Folded Plates Using Flat Isoparametric Elements,* National Seminar on Appropriate Discretization Techniques in Engineering Analysis, held at University College of Engineering, Burla, 1988.
11. *Computer Aided Design of R.C. Plane Frames,* National seminar on "Computers in Civil Engineering". Madras, March, 1991.
12. *Computer Analysis and Design of Multistoreyed and Multibay R.C. Frames,* 36<sup>th</sup> Congress of ISTAM, held at IIT, Bombay, December, 1991.
13. *Application of FEM to Analyse Orthogonal Plane Frames, Grids and Space Frames Using Beam Elements,* 36<sup>th</sup> Congress of ISTAM, held at IIT, Bombay, December, 1991

14. Application of FEM to Draw Influence Lines For Continuous Beams & Beam Members of Frames. 37<sup>th</sup> Congress of ISTAM, held at Agriculture University, Panthnagar, 1992.
15. Finite Element Analysis of Barrel Vault and Folded Plates using Flat Isoparametric Elements, 37<sup>th</sup> Congress of ISTAM, held at Agriculture university, Panthnagar, 1992.
16. FEM based Analysis and CAD Plane R.C. Frames published in Technical Souvenir, 1993 of Orissa Engineering Congress, Bhubaneswar, awarded Santok Singh Gold Medal for best Structural Engineering paper of the year.
17. Application of FEM to Draw Influence Lines For Continuous Beams and Beam Members of Frames, published in 'Technical Souvenir, 1994 of Orissa Engineering Congress, Bhubaneswar.. Awarded Satok Singh Gold Medal for best Structural Engineering paper of the year.
18. Determination of Influence Lines For Continuous Beams and Frames Using FEM. National conference of Civil Engineering Materials and Structures, Hyderabad, Jan-1995.
19. Influence Lines of Grids Using FEM and Mueller-Breslau Principle" paper published in proceedings of "National Conference on Computer Aided Structural Analysis and Design" held at Hyderabad, Jan-1996.
20. Computer Aided Analysis of Grids Using Slope-Deflection Method, Technical Souvenir-1996 of Orissa Engineering Congress, Bhubaneswar.
21. Influence Lines of Continuous Beams and Frames by Stiffness Matrix Method, Institution of Engineers(India) Journal, Vol-79, Feb 1999.
22. Design of R.C.C Box Culverts: A Software Package: Proceedings of the South-Asian Countries Conference on Challenges to Architects and Civil Engineers During Twenty-first Century, Kathmandu, Nepal, April-1999.
23. Influence Lines of Grids Using Matrix Method and Muller-Bresslau Principle: Advances in Structural Engineering, Proceedings of the Second Structural Engineering Convention (SEC-2000), Jan 2000, IIT, Bombay.
24. A Direct Iterative Method of Orthogonal Grid Analysis: Proceedings of National Workshop on Advances in Structural Engineering 21 – 22 Dec 2001.

### **DIFFERENT OFFICES HELD AT NIT, ROURKELA**

1. Laboratory-in-Charge, Structural Engineering Laboratory.
2. Coordinator, M.Sc. (Engg) Part Time Course.
3. Superintendent, Hostel No.5.
4. Vice President, Audiovisual Club.
5. Officer-in-Charge, College Time Table.
6. Professor-in-Charge, College Library.
7. Center Superintendent and Prof-in-Charge, UG Examinations.
8. Head of Department, Civil Engineering.
9. Chairman, Planning and Design Cell.
10. Member, Building and Works Committee.

11. Chairman, College Maintenance Committee.
12. Chairman, Steering Committee for Up-gradation into N.I.T.
13. Warden.
14. Dean, Students Affairs.

### **DESIGNED THE FOLLOWING BUILDINGS**

#### **Outside Agency:**

- i. N.A.C. Guesthouse.
- ii. RRIT Bus Stand Complex.
- iii. Orissa sewerage Board (Underground and On the ground ) tanks.
- iv. Govt. of Orissa : Girls' Hostel.
- v. L & T Ltd----- Box culverts.

#### **For Planning and Design Cell, REC,Rourkela.**

- i. Extension of Mechanical Engineering Department.
- ii. Gymnasium Gate.
- iii. Boys' Hostel No.6.
- iv. Underground Sump.
- v. Extension of AEIE building.
- vi. Extension of Main Building.
- vii. Professor Quarter.
- viii. Bachelor Flat.
- ix. Extension of Canteen Building.
- x. Lecture Gallery.
- xi. Extension of Material Science Building.
- xii. Ceramic Engineering Department.
- xiii. Visitors Hostel.
- xiv. Cycle Stand.
- xv. Extension of Computer Centre.

### **ADDITIONAL AWARDS:**

Awarded Santok Singh Gold Medal for best Structural Engineering Paper for the year 1993,1994 & 1997 by Orissa Engineering Congress.

Awarded Er.Madhubananada Jena Gold Medal and running shield form Orissa Engineering Congress for the year 1997.

### **A.I.C.T.E PROJECTS RECEIVED:**

1. CAD in Civil Engineering, Rs. 13.25 lakhs.(TAPTEC)
2. Modernisation of computer lab. In Civil Engineering Dept., Rs 15 lakhs ( MODROB.)

**INDIAN SOCIETY FOR TECHNICAL EDUCATION: WINTER SCHOOL:**

Conducted as Coordinator A Winter School on “Finite Element Method and its Application To Structural Engineering”, 1986.

**B.P.U.T.:**

1. BPUT Nominee to visiting AICTE Team, 2005.
2. Ex-Member, Academic Council.
3. Member, Board of Studies, Civil Engineering(UG & PG).
4. Member, BPUT Squad for Supplementary Examination.
5. Scrutinizer for Engineering Mechanics of Supplementary examination.