BIO-DATA OF Dr. S. L. DHINGRA

1. PERSONAL DETAILS

i) Name Dr. SUNDER LALL DHINGRA

ii) Nationality Indian

iii) Date of Birth 11th October, 1942

iv) Father's Name Late Shri Sobha Ram Dhingra

v) Permanent Street Dr. Waryam Singh

Address New Qrs. B 44

Nabha (Punjab) - 147 201 (INDIA)

vi) Present **Professor of Transportation Systems Engg**.

Address Dept. of Civil Engineering,

Indian Institute of Technology

Bombay - 400 076, (INDIA)

vii) Marital Status Married, having two children

2. EDUCATIONAL QUALIFICATIONS

University	College	Exam. Passed	Year	Divn.	Rank
Punjab Univ. Chandigarh.	Arya High School, Nabha	Matriculation	1960	1 st	1 st
Punjab Univ. Chandigarh.	Govt. Ripudaman College, Nabha	Pre University	1961	1 st	2 nd
Punjab Univ. Chandigarh.	Govt. Ripudaman College, Nabha	Pre Engineering	1962	1 st	4 th
Punjab Univ. Chandigarh.	Punjab Engg. College, Chandigarh	B. Sc. Engg. (Civil)	1966	1 st	1
Punjab Univ. Chandigarh.	Punjab Engg. College, Chandigarh	M. Sc. Engg. (Highway)	1968	1 st	2 nd
Indian Institute of Technology, Kanpur	Indian Institute of Technology, Kanpur	Ph. D (Transportation Systems Engg.)	1981	CPI = 9.0	-

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Ph.D. Thesis Topic:

Simulation of Routing and Scheduling of Urban Bus Transit Network.

M.Sc. Engg. Thesis Topic:

Construction of Bituminous Pavements Using Wet Aggregates.

3. EXPERIENCE

Sl.No	Designation	From	То	Name of Organisation
1.	Professor (Retd.) & Emeritus Fellow	01.11.2007	Continuing	I. I. T. Bombay
2.	Professor	06.11.1990	01.11.2007	I. I. T. Bombay
3.	Asst. Professor	29.05.1985	05.11.1990	I. I. T. Bombay
4.	Lecturer	06.02.1980	28.05.1985	I. I. T. Delhi
5.	Lecturer	06.08.1969	05.02.1980	M. Regional Engg. College. Jaipur
6.	Assoc. Lecturer	18.07.1968	05.08.1969	M. Regional Engg. College. Jaipur
7.	Lecturer	07.03.1968	10.07.1968	Punjab Engg. College. Chandigarh
8.	Hon. Lecturer	01.11.1966	31.10.1967	Punjab Engg. College. Chandigarh

Details of Experience

3.1. Subjects Taught: (UG and PG)

Urban and Regional Transportation System Planning, Roads, Railway and Airport Engineering, Transportation Systems Engineering, Transportation Engineering Laboratory, Traffic Engineering, Evaluation and Analysis of Transportation Projects, and Water Transportation, Building Materials, Advanced Construction, Building Design and Drawing, Practical Geometry, etc.

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3.2. At IIT Bombay, among Teaching, Research, Research Guidance, Planning, Administration and Development:

- a.) **Patron IIT Bombay Golden Jubilee International** Conference and 8th International Workshop on Transportation Planning and Implementation Methodologies For Developing Countries TPMDC 2008.
- b.) Co-ordinator, Programme for Planning and Management of in Transportation Engineering systems. Ministry of HRD.
- c.) Head, Civil Engineering Dept 1996-2000.
- d.) Curriculum Development for M. Tech Programme in Transportation Systems Engineering .
- e.) Co-ordinator, for Internationally successful M.Tech. Programme in Transportation Systems Engineering since its inception.
- f.) Organizing Secretary, International Workshop TPMDC (since 1994), **International Conference CUPUM 1997** and NCOTSS-1988.
- g.) Secretary, DPGC, 1987-90 & Member DPGC from 1985-1996, and convenor 1996 onwards.
- h.) Member, Institute Maintenance Advisory Committee from June, 1990-99
- i.) Member, Departmental Stores/Purchase Committee, since 1987.
- j.) Member, Inter-disciplinary Programmes Committee for I.E. & O.R. 1990-1995.
- k.) Convenor, Institute Furniture& Fixtures Committee April, 1995-May 2000.
- 1.) Convener, Institute Traffic & Transportation Planning & Monitoring Committee, Since 2000.
- m.) Member, Institute Master Plan Committee, Since May 1999-2004

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- n.) IIT Bombay Campus Transportation Network Improvement Studies:
 - Institute Parking Study for Master Plan Committee.
 - Economic Feasibility of In campus Transport Study for Master Plan Committee.
 - Planning and Designing of QIP-SAMEER Hillside Road, IIT Bombay.
 - Interim Report on Campus Road Network Improvement.
 - Study for the Improvement of Adi Shankaracharya Marg (Gandhi Nagar L&T Road).
 - Study for Improvement of Campus Intersections.
 - Study for Priorities for Widening and Improvement of Campus Roads.

3.3. Major Fields of Interest:

Transportation Systems Engineering, Digital Simulation, Highway and Traffic Engineering, Railways and Airport Engineering, Economic Evaluation of Transportation Projects, Land use-Transport Modelling, Expert Systems, AI, Micro simulation, GIS & Fuzzy Set Theory in Transportation Modelling. Advance computational technique in transportation systems engineering.

3.4. Membership Of Technical Bodies

- a) Member, American Society of Civil Engineers (ASCE).
- b) Member of Task Force on Urban Transport for 10th Five Year Plan (2002-2007),
- c) Constituted by Ministry of Urban Development & Poverty Alleviation
- d) Member of Research Council of CRRI, New Delhi.
- e) Life Member, Indian Roads Congress, LM 4560.
- f) Life Fellow, Institution of Engineers (India), 14507/2.
- g) Life Member, Indian Society for Technical Education LM 2979.
- h) Life Member & Member of Governing of Governing Council of The Institute of Urban Transport
- i) Life/Founder Member and Joint Secretary, Executive Committee of Association of Transport Development of India (ATDI).
- j) Member (Chartered), World Conference on Transportation Res. Soc., USA.
- g) Life Member, Institute of Rail Transport.
- h) Member Urban Railways
- i) Member of Research Council of NATPAC, Department of Science Technology and Environment, Government of Kerala, Trivandrum
- j) Member of the Board for Science and Technology, IGNOU, New Delhi.

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- k) Member Institute of Transport Management
- 1) Editorial Advisory Board of Journal of NICMAR

4 SESSIONS CHAIRED HONOURS, AWARDS, ETC.

- a.) Invited by Traffic Flow Theory and Characteristics Committee(AHB45) of **TRB of the National Academies** for Technical presentation on TRB Symposium on The Fundamental Diagram: 75 Years, July 08-10,2008
- b.) Chief Guest & Key-Note address on "Key issues, challenges and opportunities in planning & implementation of infrastructure projects" in National Conference On Emerging Technologies In Civil Engineering (NCETCE-2008) February 28-29, 2008, organized by department of civil engineering, PDVVP, Government College of Engineering Ahmednagar.
- c.) Invited Speaker for Plenary Session –II on "Integrated Urban Multimodal Mass Transit System for Sustainable Development" at Indo-US Workshop on Advances in Mass Transit And Travel Behaviour Research (MTTBR-2008) at IIT Guwahati on 12-15 February, 2008: Managing Rising Travel Demand and Congestion in Urban Transportation Networks
- d.) Key-Note address "Advances, key issues, challenges and opportunities in transportation planning & infrastructure projects" in National conference on Emerging Technology And Developments In Civil Engineering (ETDCE07) mar 22-23, 2007, organized by department of civil engineering, Government College of Engineering Amravati
- e.) Guest Of Honour And Key-Note Speaker: At inaugural session of Policy Measures for Urban Transportation Planning for Sustainable Development at National Conference on Sustainable Transportation: Issues and Management Strategies "SUTRIMS-07" Dec 28-29, 2007 SVNIT, SURAT
- f.) Recipient of the VISVESVARAIYA AWARD in the category "Eminent Professor" for the year 2006 in the India Infratech 2007, a regular international seminar organized by Construction and Business Records, held on 21 April 2007.

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- g.) One of the nine panellists for panel discussion on "Utility & Practical Relevance of Transport Research", at 9th WCTR, July22-27,Seoul,South Korea.
- h.) Chaired & organised, Technical sessions at 5th, 6th, 7th, 8th and 9th World Conference on Transport Research (WCTR) at Yokohoma Japan, Lyons France, Sydney Australia, Antwerp Belgium, Seoul South Korea, respectively.
- i.) Awarded **Fellowship of United Nations Centre for Regional Development (UNCRD)** to participate 5th WCTR, Yokohama, Japan.
- j.) Award for **Excellence in Teaching**, for the year 2002, given by IIT Bombay.
- k.) **Invited Chief Guest** and Delivered Plenary Lecture at National Seminar on Sustainable Transportation Systems Planning Nirma Institute of Technology, Ahmedabad.
- 1.) Seminar talk presentations & discussions during April/May 2002 at UNLV, UOTA, UCF, USF, GMU (Fairfax & Arlington Campus), Univ. of Maryland at College Park, Rutgers University, NJ.
- m.) Key Note Paper on "Planning, Financing and Institutional Aspects of National Highways, State Highways and Major District Roads" at Seminar on Integrated Development of Rural and Arterial Road Network for Socio-Economic Growth. New Delhi December 2003.
- n.) **Invited Paper on** "Relevance and Methods of Economic Analysis for Rural Roads" at Seminar on Integrated Development of Rural and Arterial Road Network for Socio-Economic Growth. New Delhi November 2003.
- o.) Session Chaired at 2nd International Gulf Conference on Road, Abu Dhabi, 14-19 March 04.
- p.) **Key Note Paper** at Two Days Seminar on Urban Transportation and Environment, MSU Baroda, 13-14 March 2004.
- q.) **Sessions Chaired** at International Conference on Transportation Systems Planning and Operation, IIT Chennai, 18-21 Feb. 2004

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- r.) **Key Note Speaker** at National Seminar on Strategies in Traffic Engineering and Management, M. S. Ramaiah Institute of Technology, Bangalore, 16-17 Feb. 2004.
- s.) Invited paper on "Integrated Urban Mass Transit System for Sustainable Development" Environmental Friendly Transportation Seminar "PRITHVI 2005 Global Eco Meet", Trivandram, Kerala, February 24-25, 2005
- t.) Key note paper "Master Planning for Mumbai Metro Towards Integrated Multimodal Sustainable Mass Transit System", START 2005, International Conference, IIT Kharagpur, INDIA.
- u.) **Key-Note paper "Policy Measures** *for* **Sustainable Transportation Planning & Development"** at Short term course on "Critical Issues & Challenges to Civil Engineers in 21st Century " Nov 29-Dec 04, 2004 L. D. College of Engineering, Ahmedabad (Gujrat)
- v.) Delivered **Key-note Addresses/invited speeches Chief Guest/Guest of Honour** in the conferences/workshops at many Institutions like:

University of Calgary, Canada.

University of Aachen, Germany.

James Cook University, Australia.

University of Texas, Austin.

Nagoya University, Japan.

Rutgers University, NJ, USA

George Mason University, Washington DC

University of Maryland

University of South Florida

University of Nevada Las Vegas

Workshop by ITE USA Saskachewn, Canada

Nirma Institute of Technology, Ahemedabad

M.P Tecnlogical University, Bhopal,

J. N. T.U Hydrabad

Thapar College of Engineering and Technology, Patiala, Punjab

NIT Calicut, NITK Surathkal

S P NIT Surat, MS University Baroda.

NATPAC Trivandrum

NIT, Cochin,

K.L.E. Society's College of Engineering Belgaum,

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M. S. Ramaiah Institute of Technology Bangalore.

IIT Madras

IIT Guwahati

Institution of Civil Engineers and Architects, Ahmedabad

Institution of Engineers (Andaman Centre), Port Blair

6. RECENT SPONSORED/CONSULTANCY RESEARCH PROJECTS

- 1. Mumbai Trans-Harbour Link Metro Line Study, Reliance Industries Limited, Navi Mumbai
- 2. Passenger Water Transport , NMSEZ, Reliance Industries Limited
- 3. Metro-II, NMSEZ, Reliance Industries Limited, Navi Mumbai
- **4.** Maharashtra l Techno-economical Feasibility of Rregional Airports Study, **Reliance Industries Limited**, Navi Mumbai
- 5. Rural Roads Pavement Performance Study(RRPPS) ,NRRDA, Min of Rural Development
- 6. Model Development for Economic Evaluation & Analysis of National Highway Scheme Supported by the World Bank, Ministry of Shipping & Transport
- 7. Appraisal of certain Highway Projects in India, Ministry of Shipping & Transport
- 8. Economic Feasibility Higher Axle Loads for Indian Roads, Ministry of Shipping & Transport
- 9. Bituminous Mix Design for Jet Bag 16, Palam Airport, May, 1982, International Airport Authority
- **10.** Investigation of Pavements for Heavy Truck Movements Carrying Steel., **SAIL/NBCC New Bombay**
- 11. Quality Control of Pavement for Heavy Truck Movements Carrying steel, SAIL/NBCC New Bombay
- 12. Proof Consultant CIDCO Railway Project, CIDCO/IRCO
- 13. Traffic Circulation Plan for New Domestic Air Terminal, IAAI, Bombay
- 14. Evaluation of PCN for Main Runway of Bombay Airport. IAAI, Bombay
- **15.** Evaluation of Subsurface conditions for the construction of pavement floorings, parking areas etc. and pavement design at Taloja, New Bombay., **NBCC New Bombay**
- **16.** Strategic Land use Transport evaluation for Madras Metropolitan Area for the World Bank funded MMRDA 's `Comprehensive Transport Study for Madras'., **RITES, Madras/Delhi.**
- 17. Evaluation of Alignment for Mass Rapid Transit System for Delhi. RITES, Delhi.

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- **18.** Jammu Region Passenger & Goods Movements Planning for JRTs., **RITES**, **Delhi**.
- **19.** Future Requirements for N.H. Network around Ahmedabad-Gandhinagar., **Shledia Associates**
- **20.** Improvement of Traffic circulation around Ghatkopar Rly.Station, **BMRDA**, **Bombay**. BMRDA Bombay, **BMRDA**, **Bombay**.
- **21.** Development of a Manual for Traffic & Transportation Studies. **RITES, New Delhi.**
- 22. Review of Land Use-Transport modelling for Indian cities., RITES, New Delhi
- **23.** Environmental Impact Assessment of Transportation Improvement Projects in BMR under BUTP-II. **BMRDA/AIC WATSON.**
- 24. GIS Technology for National Highway Network, AICTE Sponsored.
- **25.** Development of GIS Data base for Regional Road Network in Bombay Region., **DST Sponsored.**
- **26.** Socio-Environmental Feasibility of 3.2 Km Haji Ali- Wilson College Urban Viaduct.
- **27.** 22. Traffic & Transportation Study for Bandra-Worli Sea Link Project, MSRDC, and Mumbai.
- 28. Mass Rapid Transit System-Thane, CES India Limited.
- 29. Traffic Management Scheme for Marol Industrial Area, Mumbai.
- **30.** Evaluation of Pedestrian Subways on Eastern & Western Express Highways, Gherzi Eastern Limited, Mumbai.

7. SOFTWARE DEVELOPMENT

- a) Computer based **Highway Economic Investment and Analysis Model** (HEIAM) has been developed and successfully used for certain highway projects of Ministry of Shipping and Transport ensuring MOST a World Bank Loan of about Rs. 400 crores. In a circular No. RH/NH III/COORD/86/84 dated 17th September, 1984 issued by Govt. of India, Ministry of Shipping and Transport (Roads wing) all State PWD Chief Engineers dealing with NH's, they have been made aware of this model developed at IIT, Delhi and suggested to make use of the model for projecting highway and bridge projects for the purpose of economic evaluation.
- b) Model Development for Depot Augmentation Problem has been completed. Depot Augmentation Program (DAP) software has been developed for `Determination of Optimal Augmentation Plan for Depots to Starting Points of Routes to minimize the total expenditure over planning horizon'. The software has been utilised for D.T.C. network.
- c) Routing and Scheduling of Urban Bus Transit Network.

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- d) Economic Evaluation of Higher Legal Axle Loads for Indian Roads.
- e) Bus Travel Demand Forecasting for a Developing City.
- f) Economic/Toll Viability for Expressways in India.

8. MEMBER OF EXPERT COMMITTEES/ EXPERT INVITEE / Ph.D., M.TECH. EXAMINER

- 1) Member of the **Highway Specifications & Standards Committee of Indian Road Congress.**
- 2) Member and on the Governing Council of Institute of Urban Transport(India) & Chairman of IUT(I) Bombay Chapter.
- 3) Member of International Scientific committee of World Conference on Transport Research Society(WCTRS) & it's Chartered member
- 4) Member of Indian Road and Transport Development Association
- 5) On the Editorial Advisory Board of Journal of Advance Transportation, USA.
- 6) Member of the Advisory Committee for Master Planning of Navi Mumbai SEZ, RIL,
- 7) On the Advisory Board of Mahindra World City, SEZ, Jaipur for Mater Planning and implementation of Intelligent Transportation Network.
- 8) Member, nominated by Government of India, Ministry of Road Transport and Highways to the ST-3 Committee on Risk Management for Roads of PIARC (World Road Congress) for 2004-2007.
- 9) Panel Reviewer for the Journal Transport Management, CIRT Pune.
- **10**) Join Editorial Advisory Board of the NICMAR Journal.
- 11) Nominated member of **High Court-3 member Expert Committee** for Andheri flyover shopping complex.
- 12) Member of Advisor committees,
- 13) Maharashtra Airport Development Company Ltd. for the development of Multi-Modal International Hub Airport at Nagpur (MIHAN)
- 14) **One-Man Committee** for Socio-Environmental Investigation of 3.2 Km Haji Ali Wison College Urban Viaduct .
- 15) **Chairman** of Technical Advisory Committee (TAC) for Nagpur Road Widening & Beautification Project of MSRDC.
- 16) **Member of TAC** for Maharashtra State Road Development Corporation for the following projects
- 17) Worli Bandra Sea Link Landmark Structure
- 18) Western Freeway Sea Link
- 19) MRTS Thane
- 20) Trans-Harbour Link

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- 21) Vasai-Nariman Point Water Transport Project.
- 22) Nagpur International Hub Airport.
- 23) High Court Expert Committee for Andheri Flyover Shopping Complex
- 24) Passenger Water Transport, Mumbai West Coast.
 - 25) Appointed Member of the Core Group of Highway Research Board of IRC, 1997-2000
 - 26) Member of Highway Research Board of Indian Roads Congress 1997-2000
 - 27) Expert Invitee to talk on "Environmental Impact Assessment of Bombay Urban Transport Projects" at National Workshop on "Environemntal Pollution and Control" April 12-13, 1997 Engg College, Belgaum.
 - 28) Nominated Member of International Scientific Committee of World Conference on Transport Research Society 1992 onwards
 - 29) Nominated Member of Indian Roads Congress, Highway Research Board, Expert Group to prepare the State-of-Art report on Granular and bound bases and sub-bases.
 - 30) Member of the Steering Committee and Organising Committees of the International Conference of Transp. System Studies (ICOTSS) 1986, IIT Delhi.
 - 31) Expert Invitee to `Improving Bus Passengers, Safety in the Indian Context' at the 2nd International Symposium on Transportation Safety organized by the Institute for Safety in Transportation, Inc., New York at Athens, Greece, 17-21, June, 1985.
 - 32) Expert Invitee to the National Seminar cum Workshop on `Inter Modal Transport Co-ordination System for 2001 A.D. with special reference to Developing Countries sponsored by the Ministry of shipping and Transport, Govt. of India, University Grants Commission (UGC), Indian Council of Social Science Research (ICSSR), April 14-15, 1985, organized by L.N. Mishra Institute of Economic Development and Social Change.
 - 33) Expert Invitee to the Seminar, `Unified Metropolitan Transport Authorities for Metropolitan Cities', sponsored by Ministry of works and Housing, Govt. of India and organised by TCPO and School of Planning and Architecture, New Delhi, Feb. 25-27, 1984.
 - 34) Member of the Steering and Organizing Committees of the Seminar on `Future Land use Transport Structure of Delhi', held at IIT Delhi, Dec. 12, 1983.
 - 35) Expert Invitee to the Seminar on `Transportation Costs and Planning" at Central Road Research Institute, New Delhi, May 11-13, 1983.

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- 36) Expert Invitee to the Workshop on `Transportation Research Identification of Priority Areas", sponsored by Ministry of Works and Housing, Organized by School of Planning and Architecture, New Delhi, 25-26, March, 1982.
- 37) Expert Invitee to the DDA sponsored Seminar on `Policies for Delhi 2001 Transportation', held at Vigyan Bhavan, New Delhi, April 26, 1982.
- 38) Member of the Steering and Organising Committees of the National Seminar on `Transportation System Studies, Analysis and Policies', held at IIT Delhi, March 26-27, 1981.
- 39) Nominated Member of Ministry of Shipping and Transport Committee for the Planning of Road Transport Network for the country for 2001 A.D.
- 40) Presented a Key Paper on `Intra Urban Co-ordinated Mass Transit System' in the first technical session on `Performance Appraisal of Various Modes of Transport'. at National Seminar on `Transportation System Studies, Analysis and Policies', held at IIT Delhi, March 26-27, 1981.
- **41**) Examiner for Ph.D./ M.Tech./ M.S theses at IIT Kanpur and IIT Madras, IIT-Delhi, REC Surat, R. E. C., Warangal, Bangalore University, Indore University.
- **42)** Nominated as Chairman of the Committee of Planning Board of NIT Surat, to select Architect/Consulting Civil Engineer for various Civil Engineering Projects Sanctioned by MHRD and TEQIP aided World Bank.

9. PROJECTS GUIDED/GUIDING

A.) Ph.D. PROJECTS:

- 1. Multimodal Urban Mass Transit Network Planning by Dr. Swapan K. Deb, 1987.
- 2. Study for Modelling of Impact Assessment of Transportation Projects, by Mr. Velmurugan. S., 1995.
- 3. Expert Systems for Urban Route Network design and Scheduling of Bus Services, by Mahesh Dashora 1995.
- 4. Evaluation of Traffic Management Schemes for a Metropolitan City, by Mrs. V. Tare, GSITS, Indore 1997
- 5. Multimodal Urban Mass Transportation System for BMR, by Mr. Ramanajee, 1997.
- 6. Modelling and Policy Issues of Urban Area Traffic Congestion, by Maitra Bhargab 1997.
- 7. Micro-Simulation Model for Residential Location and Transport Choice to Work, K. A. Raju, 1997.

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- 8. Decision Support Systems for Urban Bus Transport Management and Planning at Route Level by Verghese George July 1998.
- 9. K. Singh 'Planning and Management of Regional Network in GIS Environment since July 1995
- 10. Integration of Sub-urban Trains and Public Buses at Suburban Railway Station in Mumbai, by Prabhat Srivastava since 1997.
- 11. Modelling for an Integrated Urban Mass Transit System, by Ashish Verma Feb, 2005.
- 12. Development of Dynamic Traffic Assignment Model for Congested Urban Road Network, H. R. Varia, 2005
- 13. GIS for Transportation Planning and Monitoring, by R. S. Moorthy, 2006
- 14. A day activity scheduling procedure for travel demand analysis by Bindhu M., 2006
- 15. Heterogeneous traffic flow modelling automata for an arterial road by using cellular by P. J. Gundaliya, 2006.

B) MTECH. PROJECTS

- 1. Girish Kumar, `A Study for Bus Travel Demand Forecasting for New Bombay, 1987.
- 2. Khandelwal S.S., `Economic Evaluation of Highway Projects' Case Study Ahmedabad Vadodara Expressway, 1990.
- 3. Ashok G., 'Modelling of Urban Multimodal Mass Transport Network', July 1990.
- 4. R. Gajjar, 'Modelling for Urban Goods Movement', 1989-90.
- 5. Regi George, `Routing and Scheduling of Municipal Solid Waste Collection and Transportation', 1989-90.
- 6. Bhupaish Sinha, `Developing Computer Software Packages for Transportation Planning Process', 1989-90.
- 7. R. Khatawakar, `Economic Analysis of Different Layers in Flexible Pavement', 1989-90.
- 8. R. Muralidhara, `Development of a Rational and Practical Method for the Design of Flexible Pavement', 1989-90.
- 9. K. Kodanda, 'City Bus Route Rationalisation', 1989-90.
- 10. Gangadhar Murali, 'Modelling of Automatic Signalised Intersections Network', 1989-90.
- 11. G.O.V.S. Gupta, 'Modelling of Intercity Transport', Jan. 1991.
- 12. B. Vishwanath, 'Simulation of Suburban Railway Transit Network', Jan. 1991.

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- 13. Thirupathi Kumar, `Integrated Transport System for Urban Area', Jan. 1991.
- 14. Vinod Kumar A., `Transport Technology Suitable for Urban Corridors', Jan. 1991.
- 15. P. Krishna Priya, `Economic and Financial Feasibility of Private Sector Participation in Transport Projects', Jan. 1993.
- 16. G. Aklog, 'Scheduling of Construction Works for an Airport', Jan. 1993.
- 17. Sanjeev Yamadagni, `Forecasting of Traffic and Serviceability of Road for New Bombay', Jan. 1993.
- 18. Kamlesh Kumar, 'Pavement Management System', Jan. 1993.
- 19. K. Dakshina Murthy, 'Decision Support System and Operational Management System for BEST', Jan. 1993.
- 20. Mallikarjuna, `Design and Evaluation of Signalised Intersection Network Using Transyt-7', Jan. 1994.
- 21. P.K. Garg, 'Regional Transport Modelling for Jaipur Region', Jan. 1994.
- 22. A.B. Shende, 'Planning and Design of Bus Route Network for New Bombay', Jan. 1994.
- 23. Nagebhushan Rao, `Traffic and Developmental (land use) impacts of Mankhurd-Belapur Railway, Jan. 1994.
- 24. V. Uday Kumar, `Analysis of Demand and Supply of Bus Services at Micro Level in the Influence Area of Operation for a Depot', Jan. 1994.
- 25. Avadesh Singh, 'Signalised Intersection Network Design in Suburbs of Greater Bombay with TRANSYT-9', Jan 1995.
- 26. R. G. Motwani, 'Optimum Toll Charges for Proposed Airoli Bridge', Jan 1995.
- 27. R. Varia, 'Optimisation Signal Cycle Time and its Implication on Delay and Other Operational Parameters', Jan 1995.
- 28. Manna, 'Development of Vehicle Damage Factors for Different Axle Load Categories', Jan 1995.
- 29. Vijaykumar Haridas, 'Expert System for Design of Bimodal Urban Mass Transit Network', Jan 1995.
- 30. S. Kalyan Kumar, 'Development of Congestion Indices in Urban Network and Policy for Congestion Pricing', Jan 1995.
- 31. Rohit Shukla, 'Planning and Design of Public Transport Network for Nagpur', Jan 1995.
- 32. W. Imocha Singh, 'Mode Choice Analysis and Modelling for Nagpur', Jan 1995.
- 33. K. Sivanarayana, 'Comparative Study of IRC, HDM, RTIM Models for Economic Evaluation of Transportation Projects', Jan 1996.
- 34. V. Venkateswarlu, 'Land Use-Transport Model for Guwahati', Jan 1996.

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- 35. Deepak Jain, 'Development of Speed-Flow Relationships for Different Categories of Roads in Bombay', Jan 1996.
- 36. P. Dharma Reddy, 'Evaluation of Traffic Assignment Models Applied to a Given City', Jan 1996.
- 37. M. Ram Gopal Reddy, 'Simulation of Coordinated Signalised Intersection Network', Jan 1996.
- 38. N. S. Deshpande, 'Mode Choice Modelling for Delhi', Jan 1996.
- 39. S. T. Shilawat, 'Crew and Vehicle Scheduling of Various Routes of a Depot (BEST)', Jan 1996.
- 40. M. R. Bhatt, 'Transportation Planning Study of Thane Municipal Corporation', Jan 1996.
- 41. Srinivas, 'Congestion Effects of parking and Pedestrians in Urban Roads.', Jan 1997.
- 42. Maneesh Kumar, 'Micro Simulation of Retail Service Locations in Urban Area', Jan 1997.
- 43. Shyam Prasad, 'Integration of Public Transport and Non-Motorised Transport Using Transportation Systems Management Strategies for Thane Municipal Corporation', Jan 1997.
- 44. L. C. Prasad, 'Planning for Pedestrian Traffic in a Ward of Island City.', Jan 1997.
- 45. V. Krishna Mohan, 'Estimation and Modelling of Travel Demand in Western Railway Suburban Services', Jan 1997.
- 46. P.V.Subba Rao 1997, Access Mode Choice Analysis Using Fuzzy Logic Based Neural Networks
- 47. M. Sukumar 1998, Planning of Bus Route Network and its Management for Guwahati City
- 48. B.V.R.V.H. Rao 1998, Accident Analysis for Regional Road Network Using GIS: For Development of Safety Support System
- 49. J. Srinivas 1998, Planning and Monitoring of Regional Road Network Using GIS.
- 50. Bhasker 1998, Trip Distribution Using ANN
- 51. Sumasaili Rao 1998, Modelling of Choice of Access Mode to Rail
- 52. Manoj Dhanorkar 1998, Planning for Pedestrian Movement in Station Areas
- 53. Hemant Sarat Chore 1998, Economic Evaluation of Mid-Block Pedestrian Crossings
- 54. S. Muralidhar 1999, Routing and Scheduling of Public Transport Using Genetic Algorithms
- 55. Amitabh Baruah 1999, Public Transport Routing for Guwahati City using TRIPS 7

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- 56. Neeraj Kumar Baderia 1999, Comparative Evaluation of Models for Economic Analysis of Road Projects
- 57.]Mandapaty Raju 1999, A Nested Logit Model of Mode Choice for Mixed Mode Travel
- 58. J.Anand Kumar, A Neuro-Fuzzy Model for Mode Choice
- 59. Srilakshmi 1999, Optimum Scheduling of Trains in Context of Sub-urban Train Netork
- 60. Krishma Padma 1999, Calibration of Gravity Entropy Distribution Model Using Genetic Algorithm
- 61. Ch.V.Subba Rao 2000, Integrated Micro-simulation Land use Model using ANN.
- 62. Ch.V.V.Prakash 2000, Simulation of Mid-Block Pedestrian Crossings.
- 63. K.Nagendra Chary 2000, Traffic Assignment using SATURN: Study of the Effect of PCU Factors
- 64. Ibrahim Khaleellullah 2000, Micro-simulation and animation model for Urban isolated intersection
- 65. Vikram Srinivas Rao 2000, A Comparative Study of Traffic Assignment Techniques using TRANSCAD
- 66. Gundaliya P. J. 2000, Routing and scheduling of Bus Route Network.
- 67. Yograj Kolhe 2000, Application of Artificial Neural Networks for Trip Distribution.
- 68. Shankar Kumar Mishra 2001, Evaluation of Traffic Management Options for Small Networks Using TRANSYT and SATURN Packages.
- 69. B. Ram Kumar 2001, Environmental Impact Assessment of Transportation Projects.
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- 135) Varghese George, S. L. Dhingra, P. K. Sikdar An Advanced RDBMS Approach for design of an information System for Performance Evaluation in Urban Public Transport. TPMDC, IIT, Bombay, Dec 4-7, 1996.
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- 148) Dhingra, S. L., Mujumdar, P. and Gajjar Rajesh, 'Time Series Modelling of Urban Attracted Truck Movements', Journal of Advanced Transportation, Vol. 27-3 (Special issue), Winter, 1993.
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- 152) Dhingra, S. L., Krishna Priya, P., Legal and Administrative Measures Required for Private Financing of Transport Projects', at Workshop on Transport Policies and Issues, IIM, Ahmedabad on April 6-10, 1992.
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- 160) Dhingra, S.L. and Deb, S.K., `A Study for Modelling of Integrated Multimodal Mass Transport System', Fifth World Conference on Transportation Research (WCTR), Yokohama, Japan, July 10-14, 1989.
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- 164)Balachandra Markande, Dhingra, S.L. and Orpe, S.G., `Economic Feasibility of Water Transportation Across Thane Creep by Hovercrafts', National Conference on Transportation System Studies, Analysis and Policy, IIT Bombay, Dec. 15-17, 1988.
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- 169) Dhingra, S.L. and Deb, S.K., `A Study for Modelling of Integrated Multimodal Urban Mass Transit Network Using Graph Theoretic and Fuzzy Set Techniques', World Conference on Transport Research, Vancouver, Canada, May 1986.
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- 171) Dhingra, S.L., `Transportation Communication Interaction An Overall View', One day Group Discussion Sessions on Transportation Communication Interaction, Dec. 10, 1986, IIT Bombay.
- 172)Deb, S.K. and Dhingra, S.L., `Mode Choice in Traffic Corridor', National System Conference, 1985, Allahabad.
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- 177) Dhingra, S.L., `Climatic Factors in Hill Road Construction and Binder Economy', IRC Seminar on Construction of Roads in Hilly Areas, Nainital, May 1985.
- 178) Dhingra, S.L., `Functional Planning of Rural Road Network', Seminar on Roads and Road Transport in Rural Areas, Nov. 19-21, 1985, CRRI, New Delhi.
- 179) Dhingra, S.L. and Gupta, R.G., `Economics of Urban Transportation in Super Metropolitan Cities with Special Reference to Delhi', to International School of Transp. Planning on the Economics of Transport in 1980's Oct. 1-6, 1984, AMALFI ITALY.
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- 182) Dhingra, S.L. and Jain Manoj, `A Study for the Development of Methodology of Coordinated Biomodal Mass Transit Network Planning for Delhi', Min. of Shipping, IIT Sponsored Symposium on `Future Landuse Transport Structure of Delhi', Dec. 12, 1983, IIT Delhi.
- 183) Dhingra, S.L., Marwah, B.R. and Palaniswamy, S.P., 'Routing and Scheduling of city Bus Transit Network', Min. of Works and Housing and TCPO sponsored Workshop on 'Transportation Research Identification of Priority Areas', School of Planning and Architecture, March 25-26, 1982.
- 184) Dhingra, S.L., Marwah, B.R. and Palaniswamy, S.P., `A Heuristic Approach for Generating Bus Transit Network', National Symposium on `Transportation Systems Studies: Analysis and Policy', Dec. 4-6, 1981, IIT Delhi.
- 185) Dhingra, S.L., 'Additives and Binder Economy for Wet Weather Roads', National Symposium on 'Binder Economy and Alternate Binders in Road and Building Construction', CRRI, New Delhi, Nov. 1981.
- 186) Dhingra, S.L., Marwah, B.R. and Palaniswamy, S.P., 'City Bus Transit Network Planning', Paper presented at International Conference on Transportation, Vigyan Bhawan, Nov. 26-28, 1980, New Delhi.

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- 187) Dhingra, S.L., `Comprehensive Regional Road Transport Network Planning, Seminar on `Techniques of Development for Road Network and Methodology for the Preparation of Master Plan, UPDESCO, Lucknow, Oct. 10-11, 1980.
- 188) Dhingra, S.L., 'Maintenance Problem of Flexible pavements', Seminar on Problems of Flexible Pavements', The Institution of Engineers (India), Rajasthan Center, Jaipur, Sept. 15, 1977.
- 189) Dhingra, S.L. and Dandekar, M.M., `Transportation and Urban Settlements', All India Inter Disciplinary Seminar on `Human Settlements', Univ. of Rajasthan, Jaipir, April 20 24, 1976.
- 190) Dhingra, S.L. and Dandekar, M.M., `Some Observations of Traffic Problems in Perspective of Jaipur City', presented at a seminar on `Traffic and Transportation Problems', The Institution of Engineers (India), Rajasthan Center, Jaipur, Feb. 25, 1976.
- 191) Dhingra, S.L. and Madan Kumar, 'Design Fundamentals of Fixed Time road Traffic Signals', The Institution of Engineers (India), Rajasthan Centre, 16th Annual Number, Jan. 1976.
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- 193) Dhingra, S.L., `Accidents Analysis for Jaipur City Roads', The Institution of Engineers, Rajasthan Centre, 14th Annual Number, Jan. 1974.
- 194) Dhingra, S.L. and Rathore, R.S., `Remodelling of International Airports for Modern Planes', Civil Engineering Construction and Public Works J1, Sept. Oct. 1972.
- 195) Dhingra, S.L. and Golani, J.N., 'Methods of Strengthening Flexible Pavements', Civil Engineering Construction and Public Works, J1, Jan Feb., 1972.
- 196) Dhingra, S.L., `Highway Engineering Applications of Photogrammetry ', Civil Engg. Construction and Public J1., Nov. Dec., 1972.
- 197) Dhingra, S..L., 'Modern Modes of Transport Posing Problems to Health and Economy', Civil Engineering Construction and Public Works, jl. May-June, 1972.
- 198) Dhingra, S.L. and Surendra Paul, `Aesthetics and Economics of Bridges, `Civil Engineering Construction and Public Works, J1. Nov. Dec., 1971.
- 199) Dhingra, S.L. and Sharma, R.C., 'Construction of Bituminous Pavements Using Wet Aggregates', Transport Communication J1. of Indian Road Congress, Annual Number, 1970.
- 200) Sharma, R.C., and Dhingra, S.L., 'Construction of Wet Weather Roads', Journal of the Institution of Engineers (India), (Pb. Haryana, H.P. & Chandigarh Centre), Annual, Nov. 1969.

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11. SYMPOSIA/CONFERENCES/SEMINARS ORGANISED

- 1) One day Panel Discussion on *How Safe*, *Comfortable*, *efficient economical and Tension Free our future city travel will be*?, September 7, 1986.
- 2) One day Group Discussion Sessions on *Transport Communication Interaction*, December 10, 1986.
- 3) International Conference on Transportation System Studies, Dec. 18-22, 1986, IIT New Delhi (ICOTTS).
- 4) First National Conference on Transportation Systems Studies (NCTOSS-88), 15-17 December 1988, IIT Bombay.
- 5) Workshop on Private Participation in Transportation Projects (PPTP-92), 14th November 1992, I.I.T. Bombay.
- 6) International Workshop on *Impact Evaluation & Analysis of Transportation Projects IEATP-94*), 13-16 December 1994, I.I.T. Bombay.
- 7) International Workshop on *Transportation Planning Methodologies in Developing Countries*, 4-7 December, 1996, I.I.T. Bombay. *Fifth International Conference on Urban Planning and Urban Management*, 16-19 December, 1997.
- 8) 3rd International Workshop on "Transportation Planning and Implementation Methodologies for Developing Countries" (TPMDC-98), December-98, IIT Bombay.
- 9) 4th International Workshop on "Transportation Planning and Implementation Methodologies for Developing Countries" (TPMDC-2000), December-2000, IIT Bombay.
- 10) 5th International Workshop on "Transportation Planning and Implementation Methodologies for Developing Countries" (TPMDC-2002), December-2002, IIT Bombay.
- 11) 6th International Workshop on "Transportation Planning and Implementation Methodologies for Developing Countries" (TPMDC-2004), December-2004, IIT Bombay.
- 12) 7th International Workshop on "Transportation Planning and Implementation Methodologies for Developing Countries" (TPMDC-2006), December-2006, IIT Bombay.
- 13) IIT Golden Jubilee International Conference and 8th International Workshop on "Transportation Planning and Implementation Methodologies for Developing Countries" (TPMDC-2008), December-2008, IIT Bombay.

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12. CHAPTER IN THE HANDBOOK

Dhingra S.L, Rao K.V.K.R., Tom V.M. "Environmental Impact Assessment for Sustainable Transport", Handbook of Transport and the Environment (Eds.Hensher D.A. and Button K.J.), Vol .4, Ch.17, pp.309-329, Pergamon, An Imprint of Elsevier Science.

13. EXTRA CURRICULAR ACTIVITIES

- 1) N.C.C. Rifles for 4 years and passed Senior Division Certificates, `B' and `C'.
- 2) Passed National Civil Defence (Home) Certificate `A'.
- 3) Was Joint Secretary, Mess Executive Elect. for one year and member for one year.
- 4) President of Hindi Samiti for one year at IIT Delhi.
- 5) Associate Warden, Hostel 8, Feb. 1990 to July, 1992, at IIT Bombay.

14. PARTICIPANT IN CURRICULUM DEVELOPMENT CELL ACTIVITY

- i Developed course details for the M. Tech courses for Transp. Systems Engg., 1986-1988
- ii Participant in Workshop III, `Formulation of four year curriculum for Modern Civil Engineering Education', March 8, 1980.
- iii Participant and presented working paper in the Workshop IV, `Status of Science and Mathematics Teaching under 10+2 System, March 22, 1980.
- iv Participant in 3 day Workshop V, `A Four Year Curriculum for Modern Civil Engineering Education', May 12-14, 1980.
- v Co-ordinator Transportation Engineering Working Group for the `All India Seminar Workshop on Guidlines for Laboratory Facilities in Civil Engineering', Jan. 16-17, 1981.
- vi Participant and presented paper in one day All India Workshop on `Identifying Minimum Equipment for Supporting a Modern 4 year Civil Engineering Curriculum', July 24, 1981.
- vii Co-ordinator of Transportation Engineering Four Day Workshop on `Preparation of Laboratory Manual', Oct. 3-6, 1981, IIT Delhi.
- viii Brought out the above Laboratory Manual, 1982.
- ix Co-ordinator of 3-day All India workshop on `Identification of Source Material and Preparation of Detailed Syllabus for the Transportation Engineering Subjects of Modern Civil Engineering Curriculum', Jan. 14-16, 1983, IIT Delhi.

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- x Participant in one day Workshop on `Preparation of Audio and Visual Aids for Teaching Laboratory Experiments in Soil Mechanics".
- xi 3 day All India C.d. Workshop on 'Preparation of Detailed Syllabi and Identification of Source Material in Surveying Subjects', March 16, 1984.
- xii 2 Day C.d. Workshop on `Preparation of Detailed Syllabi and Identification of Source Material for Construction Management and Management Courses', March 20-21, 1984.

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