

Balakrishnan R. Balachandran

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B.R. Balachandran is an architect and planner with over 25 years experience in urban planning and design. He got his bachelor's degree in Architecture from the Kerala University (India) in 1990 and his masters degree in planning from CEPT University, Ahmedabad (India) in 1995. He is currently engaged in doctoral research at the Department of Urban and Regional Planning, University of Illinois at Urbana Champaign, USA. His research examines the complex dynamics of planning for disaster-induced relocation, focusing on the issue of how different actors address risk trade-offs in the process.

In 2007, he set up Alchemy Urban Systems Private Limited, an urban planning consulting firm with his partner Ms. Sowmya Balachandran. Before that he worked for a decade with Environmental Planning Collaborative (EPC), Ahmedabad. Under his leadership, Alchemy Urban Systems engaged in a variety of projects ranging from city level sanitation planning in the city of Raipur to planning for post-flood reconstruction in Bihar and a regional development strategy for the conservation areas around the World Heritage Site of Ellora. Alchemy also prepared development plans for cities such as the Twin City Master Plan for Anand & Nadiad in Gujarat and carried out studies such as the land use analysis for Bus Rapid Transit System at Pimpri Chinchwad.

Mr. Balachandran is known for his contributions in the field of disaster mitigation and post disaster reconstruction. As Executive Director, EPC he led a team of urban planners who prepared the Development Plan and Town Planning Schemes (land pooling schemes) for reconstruction and future growth of the city of Bhuj (Gujarat, India) after the earthquake of 2001. He was the land use and physical planning expert in an international team commissioned by the World Bank to prepare a Post Disaster Housing Reconstruction Handbook. At the University of Illinois, his research focuses on the resettlement of communities affected by disasters.

He has also provided consulting services on international projects in Mexico, Cuba, Palestine (Gaza), Sri Lanka, Nepal, Bangladesh, Mauritius and Indonesia. Most recently Mr. Balachandran has been involved in providing advisory services in the areas of affordable housing policy, sustainable urban sanitation, sustainable urban land management and smart cities development. He works in the interface between land management and other development imperatives such as economic development, transportation, sanitation, disaster mitigation and heritage conservation. Recently he has been involved in the developing watershed-based sustainable sanitation strategies in the town of Taxco in Mexico and the city of Havana in Cuba. Currently he is guiding a planning process in Leh, a small mountain town in the ecologically fragile region of Ladakh in the Himalayas.

- Education :** PhD in Regional Planning, ongoing (2016-2021),
University of Illinois at Urbana Champaign, USA
Post Graduate Diploma in Planning (Housing),
Centre for Environmental Planning & Technology, Ahmedabad, India,
February, 1995 (now CEPT University)
Bachelor of Architecture (B.Arch.), University of Kerala, June 1990

2. Languages Proficiency

	Speak	Read	Write
English	Excellent	Excellent	Excellent
Malayalam	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent
Gujarati	Good	Good	
Tamil	Minimal		

6. Membership of Professional Societies

Registered Architect, Council of Architecture
Associate Member, Institute of Town Planners, India

7. Countries of Work Experience: India, Mexico, Cuba, Bhutan, Bangladesh, Palestine, Sri Lanka, Nepal, Indonesia, Mauritius

8. Employment Record

i)	Period of employment Employer Position held Description of duties	December 01, 2006 onwards Alchemy Urban Systems Private Limited Director Strategic planning, business development, management of all ongoing projects. Team leader of specific projects related to disaster mitigation, urban governance and urban planning.
ii)	Period of employment Employer Position held Description of duties	January 01, 2014 to December 31, 2015 CEPT University, Ahmedabad Director, Professional Regulations Mission Provide leadership to CEPT University's initiatives for engaging with legislative and policy formulation processes in the context of professions related to the planning, design and management of human settlements
iii)	Period of employment Employer Position held Description of duties	July 2009 to March 2013 DBS Affordable Home Strategy Limited Promoter-Director Strategic planning, concept development, collaborations and corporate governance
iv)	Period of employment Employer Position held Description of duties	January to October 2012 Faculty of Planning and Public Policy, CEPT University, Ahmedabad Adjunct Professor Participation in academic activities including teaching, thesis guidance and research
v)	Period of employment Employer Position held Description of duties	April 2001 till November 2006 Environmental Planning Collaborative, Ahmedabad Executive Director Strategic planning, business development, supervision of all projects. Team leader of specific projects related to disaster mitigation, post-disaster recovery, urban governance, urban planning and urban design.
vi)	Period of employment Employer Position held Description of duties	April 1999 till March 2001 Environmental Planning Collaborative, Ahmedabad Project Coordinator, Business Promotion and Development Liaising with the client organizations on projects. Manage specific projects related to urban planning and design.
vii)	Period of employment	April 1997 till March 1999

	Employer	Environmental Planning Collaborative, Ahmedabad
	Position held	Project Manager
	Description of duties	In-charge of the overall management and completion of projects related to urban planning and design.
viii)	Period of employment	April 1996 – March 1997
	Employer	Centre for Environment Education, Ahmedabad
	Position held	Project Officer and Editor, AmdaVadma
	Description of duties	Research for magazine articles on urban affairs, editing of all articles, project management
ix)	Period of employment	March 1995 – October 1995
	Employer	UNNATI Organization for Development Education
	Position held	Project Associate
	Description of duties	Management of a participatory research project on rural local self government and micro level planning establishments of project office in Rajasthan, facilitation of consultations, reporting, planning inputs
x)	Period of employment	October 1991 – March 1992
	Employer	College of Engineering, Thiruvananthapuram (Kerala),
	Position held	Lecturer, Department of Architecture
	Description of duties	In-charge of design studio, lectures on building materials, history of architecture
xi)	Period of employment	June 1990 – May 1993
	Employer	Independent Professional Architectural Practice
	Position held	Architect and sole practitioner
	Description of duties	Design and supervision of architectural projects including residential buildings, interiors and landscape projects

9. Illustrative Work Experience

1)	Position held	:	Consultant, Visioning and Strategic Planning
	Project	:	Vision and Master Plan for Leh, Ladakh, India
	Client	:	LEDeG, Leh ((Partner organization of BORDA, Germany in European Union funded Livable Leh project)
	Scope	:	<ul style="list-style-type: none"> Developing the approach Building the team Guiding the process of planning & visioning through stakeholder engagement
	Period	:	October 2018 – September 2020 (ongoing)
	Role	:	<ul style="list-style-type: none"> Overall guidance and supervision of the project Specific inputs on urban planning and design
2)	Position held	:	Expert, Urban Land Management
	Project	:	Curriculum Design for Training Programs on Local Area Plans and Town Planning Schemes under the Smart Cities Program of the Government of India
	Client	:	CEPT University, Ahmedabad

	Scope	:	<ul style="list-style-type: none"> • Conceptualize the training methodology and program content • Work collaboratively with CEPT University faculty and staff: <ul style="list-style-type: none"> ○ Curriculum design ○ Selection of content ○ Prepare curriculum design report
	Period	:	May – September 2017
	Role	:	<ul style="list-style-type: none"> • Overall guidance and supervision of the project • Specific inputs on Local Area Plans and Town Planning Schemes
3)	Position held	:	Expert, Land Management/Urban Planning
	Project	:	Supporting Rajasthan's Productive Clusters in the Delhi Mumbai Industrial Corridor
	Client	:	ECORYS Nederland B.V. for Asian Development Bank
	Scope	:	<ul style="list-style-type: none"> • Assist Ecorys to conceptualize and conduct a workshop on land pooling for Rajasthan Government officials at Jaipur • Resource person for land pooling: <ul style="list-style-type: none"> ○ land pooling options ○ legal and institutional framework ○ institutional practices and capabilities
	Period	:	July 2017
	Role	:	<ul style="list-style-type: none"> • Overall guidance and supervision of the project • Specific inputs on land pooling
4)	Position held	:	Team Leader
	Project	:	Integrated Sanitation Planning in Taxco and Havana
	Client	:	Latin America office of Bremen Overseas Research and Development Agency, Germany (BORDA)
	Scope	:	<ul style="list-style-type: none"> • Watershed-based Integrated Planning for Sanitation and Basic Needs Services (Municipality Of Taxco, Guerrero, Mexico) • Integrated Scheme for Localized Sanitation Solutions for the Watershed of the Bay of Havana, Cuba <ul style="list-style-type: none"> ○ Study of land use and development pattern in the micro-watersheds of Rio San Juan (Taxco) and Bay of Havana ○ Assessment of existing situation with respect to water, sanitation and solid waste management ○ Development of integrated multi-sector strategies for sustainable solutions for water, sanitation and solid waste management, exploring resource recovery and reuse linkages with other sectors such as agriculture, animal husbandry, industry, tourism, etc. ○ Recommendations of institutional and policy interventions
	Period	:	January to December 2016
	Role	:	<ul style="list-style-type: none"> • Overall guidance and supervision of the project • Interaction with key stakeholders in both cities • Specific inputs on policy and strategy
5)	Position held	:	Housing Specialist
	Project	:	Preparation of National Human Settlements Strategy for Bhutan

	Client	:	Government of Bhutan (Lead Consultant: CRISIL Risk & Infrastructure Solutions Limited)
	Scope	:	<ul style="list-style-type: none"> • Review of all policy documents related to human settlements planning and development in Bhutan • Detailed review of National Human Settlements Policy • Field visits and stakeholder consultations • Development of National Human Settlements Strategy
	Period	:	December 2015 to June 2016
	Role	:	<ul style="list-style-type: none"> • Review of housing related documents • Field visits and interaction with key stakeholders • Specific inputs on housing policy and strategy
6)	Position held	:	Team Leader and Housing Specialist
	Project	:	Review of Urban Housing Sector in Madhya Pradesh (MP)
	Client	:	DFID (Lead Consultant: ICF Consulting Services Ltd.)
	Scope	:	<ul style="list-style-type: none"> • Assessing the housing scenario in MP: <ul style="list-style-type: none"> ○ Urbanization and housing trends ○ Policies and programs and national and state level ○ Stakeholder analysis • Recommendations for housing in MP <ul style="list-style-type: none"> ○ Institutional interventions ○ Policy interventions ○ Interventions in related areas such as urban planning
	Period	:	September to December 2015
	Role	:	<ul style="list-style-type: none"> • Overall guidance and supervision of the project • Interaction with key stakeholders in MP • Specific inputs on housing policy and strategy
7)	Position held	:	Team Leader
	Project	:	City Sanitation Action Plans for 30 Pourashavas in Bangladesh
	Client	:	Asian Development Bank (Lead Consultant: Bremen Overseas Research and Development Agency, Germany – BORDA)
	Scope	:	<ul style="list-style-type: none"> • Existing sanitation situation analysis: <ul style="list-style-type: none"> ○ Status of entire value chain of sanitation ○ Institutional framework • Sanitation Action Planning <ul style="list-style-type: none"> ○ Formulation of strategies and action plans ○ Inputs on enabling institutional framework
	Period	:	January to August 2015
	Role	:	<ul style="list-style-type: none"> • Overall guidance and supervision of the project • Interaction with key stakeholders in Bangladesh government and ADB
8)	Position held	:	Urban Planning Expert
	Project	:	Technical Assistance for preparation of Smart City Development Plans for Madhya Pradesh (as part of Madhya Pradesh Urban Infrastructure Investment Programme (MPUIIP))
	Client	:	DFID (Lead Consultant: ICF Consulting Services Ltd.)
	Scope	:	<ul style="list-style-type: none"> • Smart City Development Plan for seven cities of MP:

			<ul style="list-style-type: none"> ○ As-is study of Indore city including stakeholder consultations ○ Oversight of Smart city Plans for seven cities
	Period	:	April-December 2015
	Role	:	<ul style="list-style-type: none"> • Expert inputs on as-is assessment, area development plans and pan-city interventions • Support to Team Leader in integrating the inputs from other experts in the area development plans
9)	Position held	:	Urban Planning Expert
	Project	:	Emergency and Early Recovery Response for Gaza Crisis 2014
	Client	:	United Nations Development Programme (UNDP)
	Scope	:	<ul style="list-style-type: none"> • Urban Planning Strategy for Gaza Reconstruction: <ul style="list-style-type: none"> ○ Review existing systems and practices for urban planning in the Gaza strip ○ Analyze urban planning implications of the impact of the conflict with Israel in July-August 2014 ○ Propose short, medium and long term strategies for planned reconstruction and development
	Period	:	January 2015
	Role	:	<ul style="list-style-type: none"> • Consultations with Program for Assistance to the Palestinian People (PAPP) and other stakeholders • Coordination with Housing Recovery Expert • Preparation of Urban Planning Strategy Report
10)	Position held	:	Urban Development Specialist
	Project	:	Visakhapatnam Chennai Industrial Corridor
	Client	:	Asian Development Bank
	Scope	:	<ul style="list-style-type: none"> • Land Management Strategies including: <ul style="list-style-type: none"> ○ Land Pooling Policy for Industrial Development ○ Institutional framework for planning, development and management of industrial areas/ investment regions ○ Benchmarking of best practices in institutional framework for planning, development and management of industrial areas/ investment regions • Planning Process in the Corridor <ul style="list-style-type: none"> ○ Conceptual Master Plans for specific projects ○ Inputs to Regional Perspective Plan and Master Plans
	Period	:	January to August 2015
	Role	:	<ul style="list-style-type: none"> • Development of land management strategy • Expert inputs on the Regional Perspective Plan • Preparation of Conceptual Master Plans
11)	Position held	:	Urban Development Specialist
	Project	:	Madhya Pradesh Programme Technical Assistance for Affordable Housing and Land Pooling
	Client	:	Department for International Development (DFID), UK Government
	Scope	:	<ul style="list-style-type: none"> • Preparation of Affordable Housing Policy for Madhya Pradesh • Preparation of Land Pooling Policy for Madhya Pradesh
	Period	:	December 2014 to March 2015

	Role	:	<ul style="list-style-type: none"> • Preparation of draft policies • Consultations with government stakeholders • Drafting of legal amendments as required
12)	Position held	:	Urban Specialist (Resource Person)
	Project	:	Conceptual Development Plan for Visakhapatnam Chennai Industrial Corridor
	Client	:	Asian Development Bank
	Scope	:	<ul style="list-style-type: none"> • Preparation of Conceptual Development Plan for Visakhapatnam Chennai Industrial Corridor • Identification of nodes for industrial development • Selection of industry categories for promotion • Macro infrastructure planning • Strategies for institutional reform
	Period	:	May to November 2014
	Role	:	<ul style="list-style-type: none"> • Wrote the chapter on urbanization strategy • Expert inputs on policy formulation for land pooling • Interaction with key stakeholders in government • Inputs on institutional framework for planning and land management
13)	Position held	:	Team Leader
	Project	:	Odisha: Development of Regulatory Framework for Affordable Housing
	Client	:	DFID (Lead Consultant: CRISIL Risk & Infrastructure Solutions Limited)
	Scope	:	<ul style="list-style-type: none"> • Formulating policy/guidelines on Transfer of Development Rights (TDR) • Formulating policy/guidelines on Shelter Funds • To review State Affordable Housing Policy and also review and what the Bhubaneswar Development Authority Building and Planning Regulations • High Density Corridors – to formulate principles for identification of areas, where extra FAR earned through TDRs can be consumed by the developer
	Period	:	October to December 2014
	Role	:	<ul style="list-style-type: none"> • Overall leadership of the project • Expert inputs on policy formulation to support affordable housing • Interaction with key stakeholders in government and housing development
14)	Position held	:	Team Leader
	Project	:	Master Planning for Indium Lake Forest Township, Bangalore
	Client	:	Indium Properties Private Limited
	Scope	:	<ul style="list-style-type: none"> • Preparation of project brief and conceptual master plan • Strategic planning for project structuring and attracting investment partners
	Period	:	October to December 2014
	Role	:	<ul style="list-style-type: none"> • Overall leadership of the project • Urban design and strategic inputs

15)	Position held	:	Advisor
	Project	:	Business Plan for new affordable housing enterprise named "Indium First Homes".
	Client	:	Ecoscapes Private Limited (Indium Group company)
	Scope	:	<ul style="list-style-type: none"> Preparation of affordable housing business plan as a working document Advisory services for operationalization of the business plan
	Period	:	October 2014 to June 2016
	Role	:	<ul style="list-style-type: none"> Expert inputs on market based affordable housing business model
16)	Position held	:	Urban and Regional Planning Expert
	Project	:	Uttar Pradesh: Infrastructure and investment strategy for three sub-regional growth centers as part of a larger study called Development Options along the Eastern Dedicated Freight Corridor
	Client	:	World Bank (Lead Consultant: CRISIL Risk & Infrastructure Solutions Limited)
	Scope	:	<ul style="list-style-type: none"> Assessment of the existing infrastructure networks and facilities within each sub-region that supports economic and business activities in each identified cluster A detailed facility plan for developing infrastructure, industrial estates, and logistics centres to improve and enhance the economic performance of clusters. A strategy on how to best finance these investments (PPPs, government provision, concessions, etc.)
	Period	:	January to October 2014
	Role	:	<ul style="list-style-type: none"> Strategic planning at regional scale Spatial integration of inputs from infrastructure planners and other experts Specific inputs on issues related to land management for urban and industrial development
17)	Position held	:	Urban Planning Expert
	Project	:	Land Management and Urban Planning Challenges for Industrial and Agro-processing Parks: An Assessment in the Context of Economic Corridors
	Client	:	Asian Development Bank, Manila
	Scope and Role	:	<ul style="list-style-type: none"> Structuring an urban planning and land management framework in the context of industrial/agro-processing parks as well as the economic corridor Examine case studies of successes and failures using the land management framework to gain insights and thus improve the framework Apply the land management framework to identify strengths and weaknesses of the states on the East Coast Economic Corridor with focus on Andhra Pradesh and Tamil Nadu
	Period	:	December 2013 to March 2014
18)	Position held	:	Senior Advisor, Urban Development

	Project	:	Sustainable Urban Transport initiatives in Chennai, Pimpri Chinchwad, Rajkot and other cities in India
	Client	:	Institute for Transportation and Development Policy (ITDP), New York
	Scope and Role	:	Mentoring ITDP's urban development team in India and actively participating in ITDP's initiatives in India <ul style="list-style-type: none"> Chennai: Comprehensive Transportation Plan (urban development component focusing on Transit Oriented Development and land use transport integration) Pimpri Chinchwad: Strategising for Transit Oriented Development
	Period	:	May 2012 onwards
19)	Position held	:	Team Leader
	Project	:	Initial Identification and Diagnostic Study: Options Paper on Developments along the Eastern Dedicated Freight Corridor
	Client	:	World Bank (Lead Consultant: CRISIL Risk & Infrastructure Solutions Limited)
	Scope	:	<ul style="list-style-type: none"> Conduct a rapid time series analysis of demographic and economic patterns along the entire length of the EDFC Identify key policies and programs in industry, finance, commerce, agriculture, energy, urban development, mineral resources and transportation; projects and initiatives in the above areas; information on poverty, migration, education, etc; key stakeholders most likely to impact policies, programs and projects along the EDFC. Generate insights on development potential along the EDFC
	Period	:	April to June 2013
	Role	:	<ul style="list-style-type: none"> Overall leadership of the project Specific inputs on issues related to urban and regional development
20)	Position held	:	Team Leader
	Project	:	Preparatory study: Housing finance for low income group
	Client	:	KfW Bankengruppe (Lead Consultant: CRISIL Risk & Infrastructure Solutions Limited)
	Scope	:	<ul style="list-style-type: none"> Overview of the affordable housing market in India Analysis of the housing finance market for low & informal income segment Conceptualization of a funding program by KfW in collaboration with the National Housing Bank
	Period	:	April to June 2013
	Role	:	<ul style="list-style-type: none"> Overall leadership of the project Specific inputs on issues related to housing finance for the low & informal income market segment
21)	Position held	:	Senior Advisor
	Project	:	Preparation of Town Planning Schemes for Slum Redevelopment, Bhuj

	Client	:	Homes In the City (HIC) – A collaborative initiative of five NGOs in Bhuj led by Sahjeevan and Hunnar Shala Foundation
	Scope	:	A bottom up planning exercise involving slum communities. Adaptation of the successful land pooling mechanism called Town Planning Scheme to achieve legitimization and redevelopment of a group of slums in Bhuj. <ul style="list-style-type: none"> • Preparation of conceptual Town Planning Scheme • Preparation of community-led urban development strategies which are socially, ecologically and economically sustainable
	Period	:	May 2012 to April 2013
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • Inputs for urban planning and regulatory issues
22)	Position held	:	Project Director
	Project	:	Preparation of Guidelines for Affordable Housing
	Client	:	Support to National Policies for Urban Poverty Reduction, Ministry of Housing and Poverty Alleviation, Government of India (through GHK Consulting Limited, UK)
	Scope	:	Preparation of guidelines for state governments to actively facilitate affordable housing projects by government, private sector and public private partnerships <ul style="list-style-type: none"> • Streamlining of administrative and project approval procedures • Provision of financial incentives
	Period	:	May 2011 to July 2012
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • Inputs for urban planning and regulatory issues
23)	Position held	:	Team Leader
	Project	:	Preparation of Twin City Master Plan for Anand-Nadiad
	Client	:	Gujarat Infrastructure Development Board (GIDB) Lead consultant – Voyants Solutions Ltd
	Scope	:	Preparation of a strategic plan and a statutory development plan for both cities and their immediate influence area <ul style="list-style-type: none"> • Building the rationale for treating the two as Twin Cities • Preparing an integrated development strategy for the twin city region • Translating the overall development approach to statutory development plans for both cities
	Period	:	June 2010 to July 2012
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • Inputs for strategic planning and land use planning • Inputs for disaster mitigation and housing
24)	Position held	:	Team Leader
	Project	:	Revision of Vision document and master plans/ development plans for Kolkata Metropolitan Area
	Client	:	Kolkata Metropolitan Development Authority (lead consultant – Bengal Urban Infrastructure Development Ltd)

	Scope	:	Preparation of Vision 2035 for the KMA and revision of following: <ul style="list-style-type: none"> • Master Plan for Traffic and Transportation • Development Plan for environment and wetlands • Development Plan for Heritage • Integrated Land Management Strategy
	Period	:	April 2010 to July 2012
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • Inputs for strategic planning and land use planning
25)	Position held	:	Project Director
	Project	:	Planning for the Reconstruction of the Kosi Flood Affected Areas in Bihar
	Client	:	UNDP (through Kutch Navnirman Abhiyan and ODR Collaborative)
	Scope	:	Preparation of Regional, District and Settlement Plans to facilitate reconstruction of housing and infrastructure in the Kosi flood affected areas <ul style="list-style-type: none"> • Regional studies on flood vulnerability • District plan for reconstruction and development of Madhepura district • Settlement plans for 3 panchayats in Murligunj block of Madhepura district
	Period	:	June 2009 – May 2011
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • Inputs for strategic planning and land use planning • Inputs for disaster mitigation
26)	Position held	:	Land Use and Physical Planning Expert
	Project	:	Preparation of “Safer Homes, Stronger Communities, the Handbook for Reconstructing after Natural Disasters”
	Client	:	The World Bank (through TCG International Inc, Washington DC)
	Scope	:	Preparation of Chapter on Land Use and Physical Planning in the Handbook and related inputs to other chapters
	Period	:	August 2008 to December 2009
	Role	:	<ul style="list-style-type: none"> • Expert inputs on land use planning, physical planning, development regulations, housing & infrastructure reconstruction
27)	Position held	:	Project Director
	Project	:	Regional Planning Strategies for World Heritage Site - Ellora
	Client	:	Archaeological Survey of India (Lead consultant – Cultural Resources Conservation Initiative)
	Scope	:	Preparation of regional development strategies of about 500 sq km area around the Ellora caves as part of ‘Site Management Plan’ <ul style="list-style-type: none"> • Regional level assessments of infrastructure and tourism development potential of other sites of cultural, heritage and religious significance • Strategize measures for safe guarding water and environment

			<ul style="list-style-type: none"> • Prepare a framework for regulating development in the region
	Period	:	April 2009 to Dec 2011
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • Inputs for strategic planning and land use planning
28)	Position held	:	Team Leader (Main Consultant: Consortium for DEWATS Dissemination)
	Project	:	Master Plan for Decentralized Basic Needs Services in Kolhapur
	Client	:	Kolhapur Municipal Corporation
	Scope	:	To analyze the sanitation situation in Kolhapur and propose strategies to integrate decentralized solutions for waste water and solid waste management into the mainstream systems of the city
	Period	:	July 2008 to October 2008
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • To carry out GIS based analyses • To prepare strategies for integration of decentralized approaches with mainstream systems
29)	Position held	:	Urban planning expert
	Project	:	Concept Master Plan for National Capitol Complex and Urban and Knowledge Industry Development at Highlands, Mauritius
	Client	:	State Land Development Company Ltd., Mauritius (Main Consultant: CRISIL Infrastructure Advisory)
	Scope	:	To prepare a Concept Master Plan and Design Guidelines
	Period	:	August 2008 to September 2008
	Role	:	<ul style="list-style-type: none"> • To review land use allocation, space requirement estimates and development norms • To lead the preparation of Concept Master Plan and Design Guidelines
30)	Position held	:	Team Leader
	Project	:	Project Management Consultancy for Implementation of Gujarat Integrated Township Policy
	Client	:	Gujarat Urban Development Company Ltd. (Main Consultant: CRISIL Infrastructure Advisory)
	Scope	:	To undertake a series of activities to operationalize the Township Policy
	Period	:	October 2007 to September 2008
	Role	:	<ul style="list-style-type: none"> • To provide overall leadership for the project • To prepare Town planning norms for Townships • To prepare a strategy for Master Planning and land management in areas where the Township Policy will be made applicable • To lead the preparation of Master Plans in 'Applicable Areas'
31)	Position held	:	Project Director
	Project	:	Interim Development Plan and Corridor Development Strategy for the Khandagiri Khurda Corridor, Bhubaneswar

	Client	:	Bhubaneswar Development Authority through the Orissa Project Development Company Ltd. (Project Advisor: ILFS-IDC)
	Scope	:	To prepare the Interim Development Plan and Corridor Development Strategy
	Period	:	October 2007 to March 2008
	Role	:	<ul style="list-style-type: none"> To analyze existing land use and development patterns To prepare a comprehensive land use and transportation plan satisfying the statutory requirements as per the Orissa Development Authorities Act. To recommend land management strategies for the development of the corridor
32)	Position held	:	Urban Planning Expert
	Project	:	Detailed Project Report for Bus Rapid Transit System, Pimpri Chinchwad
	Client	:	Pimpri Chinchwad Municipal Corporation (Main Consultant: CRISIL Infrastructure Advisory)
	Scope	:	To prepare proposals for integration of land use and transportation
	Period	:	October 2007 to March 2008
	Role	:	<ul style="list-style-type: none"> To analyze existing land use and density patterns To prepare a comprehensive mobility plan, integrating land use patterns with all modes of transportation To identify BRT corridors and propose land use changes along the corridor To prepare conceptual designs for the identified BRT corridors
33)	Position held	:	Urban Planning Expert (Main Consultant: CRISIL Infrastructure Advisory)
	Project	:	Kolkata Urban Basic Services for the Poor (KUSP) Funding Review
	Client	:	DFID
	Scope	:	To review the urban planning component of the KUSP program
	Period	:	April - May 2007
	Role	:	<ul style="list-style-type: none"> To review the Draft Development Plans (DDP) prepared by 40 urban local bodies in the Kolkata Metropolitan Area To assess whether the objectives of KUSP with respect to the urban planning component To recommend mid-course corrections for the preparation and implementation of the DDPs To recommend improvements in methodology for the proposed roll-out of the DDP preparation program to the remaining urban local bodies of West Bengal
34)	Position held	:	Project Director
	Project	:	Strategic Development Plan for Colachel Municipality, Tamilnadu
	Client	:	USAID through TCGI Inc. Washington DC, USA

	Scope	:	To prepare a Strategic Development for long term recovery and development of Colachel, a Tsunami-impacted coastal town
	Period	:	November 2006 to May 2007
	Role	:	<ul style="list-style-type: none"> To provide overall supervision and guidance To liaise with the USAID, TCGI and the Tamilnadu Government
35)	Position held	:	Team Leader
	Project	:	Ecopolis – a transit oriented new town development in Gandhinagar
	Client	:	Gujarat Urban Development Company Ltd.
	Scope	:	To conceptualize a new town development that would drive new economy investments as well as generate finance for a mass transit project
	Period	:	January 2005 to May 2006
	Role	:	<ul style="list-style-type: none"> To strategise the location of the new town To develop a project brief To carry out consultations with potential investors To prepare a conceptual land use plan To develop and implementation strategy
36)	Position held	:	Team Leader
	Project	:	Advisory Services for preparation of City Development Plans
	Client	:	Indo-USAID FIRE(D) Project
	Scope	:	To supervise the preparation of City Development Plans as per JNNURM requirements for Pune and Bhubaneswar and prepare guidelines for CDP preparation.
	Period	:	October 2005 to May 2006
	Role	:	<ul style="list-style-type: none"> To develop the Scope of Work for consultants for the preparation of City Development Plans as per JNNURM requirements for Pune and Bhubaneswar To facilitate the preparation of the CDPs with technical and methodological inputs as required To review reports submitted by the consultants To undertake process documentation of the CDP preparation in both cities and draw lessons To prepare guidelines for future use by cities in the preparation of CDPs
37)	Position held	:	Team Leader
	Project	:	Advisory Services for preparation of Local Area Plans in Delhi
	Client	:	Indo-USAID FIRE(D) Project
	Scope	:	To supervise the preparation of five pilot Local Area Plans in Municipal Corporation of Delhi and prepare detailed guidelines
	Period	:	May 2005 to May 2006
	Role	:	<ul style="list-style-type: none"> To develop the Scope of Work for consultants for the preparation of Local Area Plans (LAP) To facilitate the preparation of the LAPs with technical and methodological inputs as required

			<ul style="list-style-type: none"> • To review reports submitted by the consultants • To undertake process documentation of the LAP preparation in all five locations and draw lessons • To prepare detailed guidelines for future use by MCD in the preparation of LAPs
38)	Position held	:	Post-Tsunami Reconstruction Advisor
	Project	:	Aceh Governance & Development Program funded by USAID
	Client	:	Urban Institute through the Center for Local Government Innovation, Jakarta
	Scope	:	To gave strategic inputs to the reconstruction planning process currently underway in Banda Aceh
	Period	:	May 2005
	Role	:	<ul style="list-style-type: none"> • To share the experience of planning the reconstruction of Bhuj (India) to the Mayor of Banda Aceh, other stakeholders in Banda Aceh and to USAID functionaries and consultants in Banda Aceh and Jakarta • To assess the reconstruction planning process currently underway in Banda Aceh and give strategic inputs for improving the planning process to make it more strategic, participatory and effective for long-term disaster mitigation
39)	Position held	:	Urban Planning Specialist
	Project	:	Reformulation of Building Byelaws Framework for Municipal Corporation of Delhi
	Client	:	USAID-FIRE project (EPC worked in partnership with Times Research Foundation)
	Scope	:	To comprehensively redraft the building byelaws with the objectives of simplifying, improving compliance and enhancing safety. The specific tasks include introduction of a system of preparing Local Area Plans and area-specific building byelaws.
	Period	:	January 2005 to May 2006
	Role	:	<ul style="list-style-type: none"> • Drafting of Planning Byelaws • Preparation of framework for preparing local area plans • Supervision of preparation of five pilot local area plans
40)	Position held	:	Disaster Mitigation Specialist
	Project	:	Regional Conference on Disaster Mitigation and Urban Infrastructure Financing
	Client	:	United States Agency for International Development (employed through The Communities Group International and Planning & Development Collaborative, USA)
	Scope	:	To conduct a regional (South Asia) conference on the integration of disaster mitigation concerns in mainstream urban infrastructure planning and financing, carry out two demonstration projects in Nepal and Sri Lanka respectively and to prepare a resource book on the subject (later extended to include the preparation of disaster mitigation plans for selected cities in India)

	Period	:	November 2002 till December 2004
	Role	:	<ul style="list-style-type: none"> • Resource person for the regional conference • Disaster mitigation specialist in demonstration projects • Author/editor of a Resource Book on the integration of disaster mitigation in mainstream urban infrastructure planning and financing
41)	Position held	:	Senior Governance Advisor
	Project	:	Good Urban Governance in South Asia
	Client	:	United States Agency for International Development (Lead Consultant: TCG International, Washington DC, USA)
	Scope	:	To document and disseminate case studies in good urban governance in three South Asian countries, carry out demonstration projects and to organize a regional conference to share the learning
	Period	:	June 2003 till June 2007
	Role	:	<ul style="list-style-type: none"> • Technical guidance to local consultants on the entire process • Field level involvement in training, strategic planning and project formulation • Assistance to main contractor in project management
42)	Position held	:	Team Leader
	Project	:	Urban Core Redevelopment, Dehradun
	Client	:	Mussoorie-Dehradun Development Authority, Uttaranchal, India
	Scope	:	To prepare a detailed proposal for the redevelopment of a street and a pocket of center-city land in Dehradun
	Period	:	November 2003 till November 2006
	Role	:	<ul style="list-style-type: none"> • Coordination with the officials of the client, Government, semi Government and other agencies. • Overall coordination of the project, Physical Survey, Formulation of Proposals and Urban Design Guidelines. • Institutional framework and implementation strategy
43)	Position held	:	Project Director
	Project	:	Town Planning Scheme for Bhuj Area Development Authority
	Client	:	Gujarat Urban Development Company
	Scope	:	To prepare the Town Planning Scheme for Walled City of Bhuj as per the provisions of the Gujarat Town Planning and Urban Development Act. The Plan, covering an area of 1 sq.km has been divided into eight T. P. Schemes consists of proposals for land use zoning, road network and infrastructure development
	Period	:	December 2001 till August 2003
	Role	:	<ul style="list-style-type: none"> • Coordination with the officials of the client, Government, semi Government and other agencies. • Overall coordination of the project, Physical Survey, Formulation of Proposals and Development Regulations.

			<ul style="list-style-type: none"> • Institutional framework and implementation strategy
44)	Position held	:	Team Leader
	Project	:	Draft Development Plan for Bhuj Area Development Authority
	Client	:	Gujarat Urban Development Company
	Scope	:	To prepare the Draft Development Plan for Bhuj city as per the provisions of the Gujarat Town Planning and Urban Development Act. The Plan, covering an area of 56 sq.km including 2 adjoining villages, consists of proposals for land use zoning, road network, infrastructure development and general development control regulations
	Period	:	May 2001 till December 2002
	Role	:	<ul style="list-style-type: none"> • Coordination with the officials of the client, Government, semi Government and other agencies. • Overall coordination of the project, Physical Survey, Formulation of Proposals and Development Regulations. • Institutional framework and implementation strategy
45)	Position held	:	Team Leader
	Project	:	Initiative for Planned and Participatory Reconstruction in Kachchh
	Client	:	United States Agency for International Development (USAID)
	Scope	:	The project involved four components that are expected to support the rehabilitation efforts of various agencies after the January 26, 2001. These are (i) Disaster mapping of four towns in Kachchh, Bhuj, Bhachau, Anjar and Rapar (ii) Information Management support for Kachchh Nav Nirman Abhiyan, a network of 20 NGOs working towards rehabilitation of Kachchh in close coordination with the Government (iii) Preparation of strategic and action plans for two pilot communities (urban and semi-urban) for reconstruction involving intensive consultative process (iv) Preparation of a Post-earthquake recovery planning guide.
	Period	:	February 2001 - February 2002
	Role	:	<ul style="list-style-type: none"> • Coordination of information management at the Abhiyan Information Centre and to support planning related activities of Abhiyan for rehabilitation • Setting up a GIS based mapping information system to support and monitor rehabilitation efforts in Kachchh • Liaising with the Government Agencies and the UNDP for developing an Integrated Information System • Leading the initiative for preparation of strategic and action plan in the semi-urban community pilot case • Institutional framework and implementation strategy
46)	Position held	:	Team Leader
	Project	:	Atlas for Post Disaster Reconstruction, Kachchh District
	Client	:	United States Asia Environmental Partnership (USAEP)
	Scope	:	<ul style="list-style-type: none"> • To assess and document the damage caused by the earthquake through a set of thematic city maps.

			<ul style="list-style-type: none"> To facilitate the reconstruction process by mapping information relevant for rehabilitation and reconstruction. To facilitate the preparation of the Development Plans of all the four towns of Bhuj, Anjar, Bhachau and Rapar.
	Period	:	May 2001 – August 2001
	Role	:	<ul style="list-style-type: none"> Overall coordination of the project and field Survey Coordination with the officials of the client, Government, semi Government and other agencies. Development management of the project for implementation.
47)	Position held	:	Project Coordinator
	Project	:	Draft Development Plan for Gandhinagar Urban Development Authority
	Client	:	Gandhinagar Urban Development Authority
	Scope	:	To prepare the Draft Development Plan for Gandhinagar city as per the provisions of Section 9 to 16 of the Gujarat Town Planning and Urban Development Act. The Plan, covering an area of 387 sq.km including Gandhinagar Notified Area and adjoining 39 villages, consists of proposals for land use zoning, road network, infrastructure development and general development control regulations
	Period	:	March 1999 to January 2001
	Role	:	<ul style="list-style-type: none"> Coordination with the officials of the client, Government, semi Government and other agencies. Overall coordination of the project, Physical Survey, Formulation of Proposals and Development Regulations. Institutional framework and implementation strategy
48)	Position held	:	Project Manager
	Project	:	Inputs for Revised Draft Development Plan of AUDA
	Client	:	Ahmedabad Urban Development Authority (AUDA)
	Scope	:	Assist Ahmedabad Urban Development Authority with the preparation of its Draft Development Plan for the year 2011. The Plan covered an area of 1200 sq.km. It details proposals for land use zoning, road network, building regulations and infrastructure development.
	Period	:	February 1998-March 1999
	Role	:	<ul style="list-style-type: none"> Coordinated with the officials of the development authority Formulated and restructured the Development Control Regulations Institutional framework and implementation strategy
49)	Position held	:	Project Manager
	Project	:	Surat Inner City Revitalization Plan
	Client	:	Surat Municipal Corporation, Surat, USAID (FIRE) project
	Scope	:	Devise a strategy to revitalize the inner city of Surat. The plan addressed issues like traffic congestion, aging infrastructure, inadequate municipal services, loss of heritage, deteriorating environmental quality and the dilapidation of low-income housing stock with the objective of sustaining the inner city's role as the vibrant central business district of Surat.
	Period	:	September 1997-February 1998

	Role	:	<ul style="list-style-type: none"> • Management of overall project and field office at Surat • Responsible for coordinating with elected representatives, officials and expert consultants. • Planning and design inputs
50)	Position held	:	Project Manager
	Project	:	Ahmedabad Walled City Revitalization Plan
	Client	:	Ahmedabad Municipal Corporation and Technical Support Services, USA
	Scope	:	Devise a strategy to revitalize the Walled City as the cultural and economic center of Ahmedabad. This comprehensive planning exercise considered the interrelationships between different planning components identified and proposed mutually compatible solutions.
	Period	:	March 1997-August 1997
	Role	:	<ul style="list-style-type: none"> • Coordination with stakeholders and collaborators • Planning and design inputs • Analysis of information and project formulation • Follow up for project implementation

Publications:

Book section title: The Reconstruction of Bhuj: Reflecting on the Planning Process

Book title: Land Use Management in Disaster Risk Reduction

Editors: Rajib Shaw, Michiko Banba

Year: 2017

Publisher: Springer

Abstract: The Gujarat earthquake in 2001 was one of the first major natural disasters in India significantly impacting urban areas. Considering this fact, in retrospect it appears that the degree of success achieved in rebuilding the affected towns is quite remarkable. Post-disaster reconstruction situations are often characterized by expedient decision-making leading to the creation of new vulnerabilities instead of taking the opportunity to build resilience. This case study discusses two redeeming aspects of the planned reconstruction carried out in the town of Bhuj, very close to the epicenter of the quake and one of the most affected areas: (1) the role of land use planning and development control regulations at the city level in creating a new regime of resilience in this highly hazard prone city and (2) the role of land pooling in achieving relatively resilient reconstruction in the old city of Bhuj, a very densely built historic fabric. The author, who led the team that prepared the plans at both the city level and in the old city, takes advantage of the intervening years to reflect on the process, on the achievement, as well as on lost opportunities.

Title: Safer Homes, Stronger Communities: A Handbook for Reconstructing After Natural Disasters

Authors: Abhas Jha Jennifer Duyne Barenstein Priscilla M. Phelps Daniel Pittet Stephen Sena

Year: 2010

Publisher: World Bank

Abstract: The Section of the Handbook on Planning Reconstruction begins with Chapter 7, Land Use and Physical Planning, which describes why planning of both sites and land use is important, even in the post disaster context. The content of a traditional land use plan is described, as are the challenges that arise in post-disaster planning, which

include lack of time, information and capacity. This chapter explores the complex issues associated with the need for access to land and secure tenure in reconstruction and presents recommended solutions. Case studies include one that discusses the planning process in Bhuj City, India, during which a number of residents were moved from the urban core to the periphery, and another that describes the innovative community-driven land adjudication process that took place in Aceh, Indonesia following the 2004 Indian Ocean Tsunami.

Title: Recovering from Earthquakes - Response, Reconstruction and Impact Mitigation in India; Chapter 7: Planning the Reconstruction of Bhuj

Authors: Editors: Shirish Patel, Aromar Revi

Year: 2010

Publisher: Routledge, India

Abstract: While the book as a whole is a compilation of lessons learned and insights gained from several earthquakes in India, my chapter focuses on the unique example of planned reconstruction in Bhuj, Kutch, Gujarat. The chapter describes the planning and implementation processes, first at city level and then at a detailed level for the walled city area. The paper discusses the inevitable tradeoffs that confront policy makers and decision makers and reflects on how they were addressed in Bhuj.

The information provided in this document is true to the best of my knowledge



(B.R. Balachandran)