

**Dr. Valliappan AL** B.Arch, M.Plng. (Housing) (SPA, New Delhi)

## **CONTACT INFORMATION**

**Permanent:** 2/22, SMKR House, Main Road, Village Kurvikkondanpatti, Thirumayam Taluk, Pudukkottai District-622 409, Tamil Nadu.

**Communication:** 48-11-7/1, Sri Sai Nivas Apartments, SF-3, Kethinenivari street, Currency Nagar, Vijayawada-520 008, Andhra Pradesh.

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## **CAREER OBJECTIVE**

An experienced post-graduate Architect Planner aiming to create egalitarian /inclusive society in Settlement Planning and Design.

## **RESUME SUMMARY**

- Master of Planning (Housing) plus **21** years of varied experience in Teaching (13.5 years)/Development Authorities/Research firms/On-site.
- Excellent inter-personal and co-ordinating skills effective in a town planning profession
- Professional work experience in **City Master Plans and Zonal Development Plans Preparation and Research Studies**
- Administrative experience currently holding charge of Superintendent of Examination in SPA, Vijayawada. Former member of institutional purchase committee, hostel and mess warden, Alumni, placement and Training co-ordinator, member CCMT and JOSSA admissions internal committee member and screening of faculty applications at adhoc and permanent for various positions.
- Working knowledge of **Auto Cad, Adobe Photoshop, Arc GIS, ERDAS, SPSS (Statistical Packages for Social Sciences), AMOS** and MS office software.
- **Recently completed PhD** on the research topic entitled "ACCESSIBILITY FOR MOBILITY IMPAIRED- A CASE OF INTERSTATE BUS TERMINALS IN CHENNAI AND VIJAYAWADA".

## **CAREER HIGHLIGHTS**

### **TEACHING EXPERIENCE**

**1.**

**Job Role** : Assistant Professor-Department of Planning

**Institution** : School of Planning and Architecture, Vijayawada

**Period** : Oct 2010-till date.

**Job Description :**

Handling Development Plan Studio for Udaipur City- Masters first year second semester of M.plng. students. Guiding and mentoring the undergraduate and Postgraduate students, is a priority area.

**Major Subjects and Studio Handled in the last Three years:**

1. Planning Techniques and Quantitative Methods
2. Real Estate Planning and Management
3. Project Formulation and Appraisal
4. Planning Project Estimation
5. Development Finance
6. Planning Theory
7. Area Planning Studio at Master Level (Outline Development plan for Pallakollu Town, Andhra Pradesh), Area Appreciation studies at Vijayawada, Bhimavaram, Bangalore and Vishakhapatnam.
8. Development Plan Studio undertaken in Vijayawada, Kakinada and Udaipur City.
9. Regional Planning of Sustainable Development in Ludhiana Region, Punjab, India Studio for Ludhiana Region

**Thesis Supervision:**

I have supervised/guided the following topics as Main guide in the Academic years 2017-18, 2018-19, 2019-20, 2020-21, 2021-22

**Topics guided as Main Supervisor at Undergraduate Level (2017-2022)**

1. Assessment of Slums in Context of Livability Case Area: Visakhapatnam
2. Assessment and Mitigation of Earthquake -Triggered Landslides and its Impact on Urban Built Environment
3. Impact of fare elasticity's on public transport ridership- a case of kochi city.
4. Planning for Livelihood of Local Communities in Coastal Regulation Zone(CRZ) of Vishakhapatnam.
5. Municipal Bonds- An alternative source of funding Infrastructure Projects- Best Thesis Award among the Planning Schools in India given to the student named Chadarajupalli Leelavamsi awarded by ITPI in 2019.
6. Revitalization of Vadai Canal Alappuzha-Kerala
7. Integration of Hospital services through E-governance. Case Area: GVMC, Visakhapatnam.

**Topics guided as Main Supervisor at Postgraduate Level (2017-2022)**

1. Site Selection and Economical Evaluation of Electric Vehicle Charging Station for Bhubaneswar
2. Assessing the Role of Land use Planning in Reducing Carbon Emission: The Case of Nagpur, Maharashtra.

3. Inclusion of Socio-Economic factors in Waste Valorization, Gondia, Maharashtra.
4. Impact of Development Pattern on the Infrastructure of the City: A Case Study of Hyderabad.
5. Sustainable Wetland Management Strategies in the face of Wetland Degradation and Climate Vulnerability in Kerala- The case of Kuttanad Wetlands.
6. Community Driven Tourism for a Sustainable Livelihood in Sohra (Cherrapunjee), Meghalaya.
7. Planning For Accessibility For Pedestrians And Cyclists For Safe Urban Street Design. Case Area-Panchkula City
8. Sustainable Livelihood Assessment- A Study in Chennai
9. Urban Wetland Conservation And Management: Case Study of Surajpur Forested Wetland, Gautam Buddha Nagar
10. Conservation And Valuation of Ecosystem Services of a Wetland: Kolleru Lake, Andhra Pradesh
11. Minimizing pedestrian - Vehicular conflicts at intersections on national highways passing through cities. Case area: Kakinada
12. Impacts of Roadside Vegetation on Urban Roadways. Case: Chennai
13. Assessing Tourism Potential and its Environmental Impacts in Protected Area of Kalatop Khajjiar in Chamba District, Himachal Pradesh
14. Enhancing Rural Community Resilience for Floods- A Case study of Rural community of Gorakhpur District, Uttar Pradesh.
15. Assessing old age friendliness of the City, Kanhangad Municipality, Kerala
16. Modeling Parking Choice Behaviour considering User Heterogeneities: A Case of Hyderabad
17. Road Safety Assessment Using Star Rating Concept. Case Vishakhapatnam
18. Planning for walkable cities, Vijayawada, Andhra Pradesh
19. Assessment of Land use change- Impact on Water Balance in Rajahmundry and its precincts of River Godavari.
20. Planning Strategies to Reduce Air Pollution. A Case Area of Delhi.

### **Topics supervised as Guide in Architecture Department, SPA, Vijayawada:**

1. Science City at Vijayawada
2. International Convention Centre, Salt Lake City, Kolkatta
3. Integrated School for Children with Special Needs at Vijayawada.
4. Integrated Bus Terminal, Vijayawada
5. Bus Terminus cum Commercial Complex, Jammu

### **Syllabus development for the Bachelor of Planning and Master of Planning students:**

A committee was constituted in June 2019 to review the existing syllabus for UG and PG programmes and suggests further improvement of the syllabus content. I worked on these subjects:

- I. Housing and Real Estate Development
- II. Data Analytics and Programming in Planning

**Non-Academic Responsibilities:**

1. Committee member for preparing draft proposal for competing and establishing a cell in SPA, Vijayawada.
2. A member of inter departmental committee to look into possibilities of streamlining the academic ordinance of UG, PG and Phd Regulations.
3. Member in the editorial board of newsletter of Planning Department
4. Member in the admission committee of Jossa and CCMT for the academic year 2021-22, 2022-23
5. Thesis Co-ordinator for the year 2020-21, 2021-22 for MURP and MTIP batches.
6. Member in the Screening Committee for scrutiny of applications related to Assistant professor in the Adhoc Postions.
7. Member in the panel for recruiting non-teaching staff on contractual basis.
8. Member in the partition/false ceiling/Networking of computers committee, student furniture procurement committee, hostel search committee, procurement of HT transformer installation and Genset committee, interior for director's cabin committee.

I have experienced as member in the committee regarding Standard procedure adopted for procurement in the central government and preparation of tender documents which includes estimation and specification, terms and conditions and vetting it by a lawyer, notification in the paper and opening of tender bids and evaluating it and identifying the lowest bidder and preparation of work order. Worked as Mess Warden and Hostel Warden.

2.

**Job Role** : Assistant Professor-Architecture

**Organisation** :Periyar Maniammai University, Tanjavur, Tamil Nadu

**Period** : June 2009-Oct 2010

**Job Description** :

Served as Full-Time Faculty for the five year B.Arch degree program. Studio Co-ordinator for the second and final year (IX semester) B.Arch students. Guiding and mentoring undergraduate is a priority area.

**Major Subjects Handled:**

- a. Materials and Construction
- b. Urban Economics and Sociology

c. Urban Housing

d. Architecture for Civil Engineering

e. Architecture Design Studio (Guided second year students in studio projects like residence, school and public toilets and final year students in urban design projects like residence, school and public toilets and final year students in urban design studio projects which encompasses areas like EVK Sampath Salai-Poonamallee High road (upto Rippon Building)-Jermai Road-Ritherdon Road-Gandhi Irvin Road (including Egmore railway station).

### **Thesis Supervision**

Two students I have supervised/guided in the Academic year 2009-2010

### **Topics guided as Main Guide:**

- 1) Marketing centre for silk sarees at Kanchepuram
- 2) Wholesale Vegetable Market at Madurai.

### **Non-Academic Responsibilities:**

1. Co-ordinator for students participated in the National Association for students of Architecture (NASA), training related activities and counseling for students.
2. Co-ordinator of Staff Professional Training
3. Co-ordinator for Periyar Annual Cultural Events (PEACE-2010)
4. Co-ordinated along with Final year B.arch students (2010-11) for developing integrated website for Thanthai Periyar Group of institutions.

### **Consultancy Projects:**

Design and supervision of Eight Dwelling units and Master housing layout for staff quarters for Periyar Maniammai University faculty and non-faculty members.

### **PROFESSIONAL EXPERIENCE**

**1.**

**Job Role** : Planning Consultant

**Organization** : Dwarka Planning Office, Delhi Development Authority.

**Period** : Feb 2005-2009.

### **Job Description:**

Assisted in preparation of Zonal Development Plans for Delhi Planning Zones K-1, K-II and L.

### **Major Projects /Role:**

Preparation of Zonal plans of three planning zones and details as mentioned:

- Zonal Plan of Dwarka sub city as per MPD-2021 to accommodate 1.3 million population.
- Zonal Plan of Zone L (Najafgarh area) in an area of 22,000 ha to accommodate 2 million population
- Zonal Plan of Zone K-1 in an area of 12,000 ha to accommodate 2 million population.

Involved in preparation of base maps using satellite imageries, NRSA map and reconnaissance surveys for computation of built up areas and areas available for development. Collection of secondary data from Health, education and revenue department of NCTD for quantitative analysis of data and comparison with MPD-2012 standards for final preparation of proposed land use plan and articulation of draft report. Invited objections and suggestions from the public and put up before the board of DDA for approval of draft plan.

2.

**Job Role** : Planning Consultant

**Organization** : Master Plan of Delhi (2021), Delhi Development Authority

**Period** : March 2002-July 2003

**Job Description** : Assisted the shelter sub group committee in arrangement of meetings, preparing minutes and preparation of report. Computation of housing needs assessment and strategies for the future housing.

**Major Projects/ Papers:**

Computation of housing shortage by calculating the existing backlog, dilapidated houses and future requirement of housing. Worked on housing strategies like densification, redensification of government housing colonies and new development in urban extension areas. Identified existing housing density and proposed density areawise/subzonewise. Autocad Mapping of landuse plan for MPD-2021 (intricately dealt urban extension areas like Narela sub city and Rohini subcity)

Assisted in preparation of papers on Transfer of Development Rights (TDR), Remunerative and non-remunerative uses and land policy mechanism adopted in Maharashtra and Gujarat experience and shifting of cattles from Delhi to NCR region.

## **RESEARCH EXPERIENCE**

**1. Job Role** : Research Officer

**Organisation** : National Co-operative Housing Federation of India (NCHF), New Delhi.

**Period** : Jan 2004-Feb 2005

### **Research Studies/Role:**

Two research studies were undertaken for Ministry of Urban Housing and Poverty Alleviation.

#### **1. Housing Activities in the Organized Sector**

To assess the housing stock that was created in public, private (real estate developers) and co-operative sector. The works toted out in this study are collection of primary and secondary data, for that extensively travelled through National Capital Region of Delhi (NOIDA, Greater NOIDA and Gurgaon). Report Articulation on the chapter title land policy as underpin for housing. The report was published by National Co-operative Housing Federation of India in 2004.

#### **2. Role of Co-operative Housing in Employment Generation and Poverty Alleviation.**

The study of role of co-operative housing in employment generation and poverty alleviation dealt in determining the potential of co-operative housing in generating job opportunities (man days of employment in offsite and onsite) and examining the impact of co-operative housing on poverty alleviation.

The surveys were conducted in primary housing co-operative sites in NCT of Delhi (Dwarka), Uttarpradesh (Ghaziabad and NOIDA), Chennai and Pondicherry. Handbook on housing statistics a comprehensive reference document containing very valuable data on co-operatives and their housing activities as well as housing characteristics. The report was published by National Co-operative Housing Federation of India in 2005.

#### **3. Conducted Seminar on Housing Co-operatives for Slum Dwellers of Delhi.**

##### **Professional Internships**

Trained for six months (during Bachelor's course) with reputed Architecture consulting firm: Ranjit Philip hose John and Associates, New Delhi.

Major Responsibilities include: Preparation of working drawings, constructing perspectives (two point) for projects like churches and schools.

### **Professional Memberships**

- ✓ Registered Architect with Council of Architecture, India
- ✓ Associate member of the Indian Town Planners Institute, India (ITPI)
- ✓ Associate member, Indian Institute of Architects, India (IIA)
- ✓ Member, Regional Science Association, India
- ✓ Life Member, The Indian society for Technical Education
- ✓ Member, System Society of India
- ✓ Member, Institute Society of Remote Sensing, Dehradun, India

### **CONFERENCE AND INVITED PRESENTATIONS, CONFERENCE PROCEEDINGS AND JOURNAL PUBLICATIONS AT NATIONAL AND INTERNATIONAL LEVEL**

#### **Presentation in the Conferences:**

- 1) Presented in the second Annual Locate conference-Locate 15 in the topic title "A Remote Sensing and GIS approach to Trace the Densification in Residential Areas: Case Study: Kalidas Road, Dehradun, India held at Brisbane Convention and Exhibition Centre, Australia.
- 2) Presented a paper in the 13th International Congress of Asian Planning Schools Association, organized by the Department of Urban and Regional Planning, Faculty of Built Environment, University Teknologi, Malaysia, Johor Bahru, Malaysia from 12-14 August 2015.
- 3) Presented (online) a paper titled "Is Accessibility Indices, a smart decision support system (DSS) tool for measuring access of mobility impaired in public spaces? A Comprehensive Review of Literature" at OAPA-ISOCARP conference on the track Governance and Inclusive Communities on 27/10/2017, held at Oregon Convention Centre, Portland, USA.

#### **Invited Presentations:**

- 1) Presented in the conference Right to Education titled Education in slum areas in Delhi and Policies and Programme of Indian Government on Education, on 23 November 2013, conducted by SAID NGO, Paris, France. Presentation of the same topics was done in CRETEIL and Paris 7 universities for MS students.
- 2) Presentation on Application of Remote Sensing and GIS in Urban and Regional Development as part of 45 Day Induction Programme for 73 new entrants of Capital Regional Development Authority of Andhra Pradesh at AP HRDI, Campus of Extension Training Centre Bapla, Guntur District On 6th March 2017.

- 3) Presentation on Application of Remote Sensing and GIS in Urban and Regional Development as part of 30 Day Induction Programme for 16 new entrants of Capital Regional Development Authority of Andhra Pradesh at AP HRDI, Campus of Extension Training Centre Bapatla, Guntur District, On 6th March 2017.
- 4) Presentation on “Application of Remote Sensing and GIS in Urban and Regional Development” and Hands on Training on Suitability Analysis as part of Three Day Residential Training Programme on " Geo Spatial Intelligence & Geo Spatial Revolution" held on 21st July, 2017 at AP HRDI, Bapatla.
- 5) Delivered expert lecture on application of remote sensing and GIS from 8th to 10th June, 2016 as part of Faculty Development Programme conducted by Department of Civil Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada.

### **Conferences Proceedings Publications as a Main Author**

- 1) Valliappan Alagappan, Albert Hefferan & Aarthi Parivallal (2016). Exploring accessibility issues of a public building for the mobility impaired. Case study: interstate bus terminal (ISBT), Vijayawada, India” was published in the conference proceedings with ISBN No. 978-94-90354-47-3 in the track “Planning Activism and Social Justice” in the 52nd ISOCARP (International Society for City and Regional Planners-Global Association of Planners) Congress in Durban, South Africa in September 2016.
- 2) Valliappan Alagappan (2017). “Is Accessibility Indices, a smart decision support system (DSS) tool for measuring access of mobility impaired in public spaces? A Comprehensive Review of Literature” was published in the conference proceedings with ISBN No.: 978-94-90354-51-0 in the track “Governance and Inclusive Communities” in the 53rd ISOCARP (International Society for City and Regional Planners-Global Association of Planners) and Oregon Chapter of American Planning Association (OAPA) Congress held at Oregon Convention Centre, Portland, USA held on 24-27 October 2017.

### **Journal Publications as Main Author**

- 1) Valliappan Alagappan (2015). Appropriate Pedagogical Approaches For Conduct of Site Planning and Built Environment Studio in Spatial Planning Education Programs. International Journal of Built Environment and Sustainability (IJBES). Volume 2, Issue 3, UTM, Malaysia. ISSN-1511-1369 (print)
- 2) Valliappan Alagappan, Albert Hefferan & Aarthi Parivallal (2017). Exploring accessibility issues of a public building for the mobility impaired. Case study: Interstate Bus Terminal (ISBT), Vijayawada, India. Journal of Disability and Rehabilitation: Assistive Technology <https://doi.org/10.1080/17483107.2017.1312573>. Publisher Taylor and Francis.

- 3) Valliappan Alagappan & Saratha Valliappan (2019) Are Accessibility Indices, a Smart Decision Support System Tool for Measuring Access of Mobility Impaired in Public Spaces? A Review. International Journal of Trend in Scientific Research and Development. ISSN: 2456-6470, Volume-3 Issue-6, pp.1101-1114,

### **Co-Authored Publications in the Conference Proceedings, Journals and Books**

- 1) Kranthi, Natraj; Valliappan AL, (January 2015), Need for Paradigm Shift in Pedagogy for Teaching the Fundamentals of Physical Planning Education, International Advanced Research Journal in Science, Engineering and Technology (ISSN-Online-2393-8021) (ISSN-Print-2394-1588), Vol.2, Issue 1, IARJSET, Chennai, India. <http://www.iarjset.com/upload/2015/january/IARJSET10.pdf>
- 2) Kranthi, Natraj; AL, Valliappan., (April 2016). Need for a Shift in Pedagogy for Teaching Fundamentals of Planning Education. In A. Kumar, D.S. Meshram & K. Gowda, eds. Urban and Regional Planning Education. Singapore: Springer. pp.107-14. [http://link.springer.com/chapter/10.1007/978-981-10-0608-1\\_8](http://link.springer.com/chapter/10.1007/978-981-10-0608-1_8)
- 3) Alisha Chowdhury, Venkata Sai Krishna Vanama, Valliappan AL (2017). Effect of Urban Green and Blue Spaces on Land Surface Temperature- A Geospatial Approach. Asian Conference on Remote Sensing-2017, October 23-27, 2017, New Delhi, India. ACRS proceedings, 2017.

### **Peer Reviewer for the Journals:**

International Journal of Disability and Rehabilitation: Assistive Technology, United Kingdom from 2017-2019.

Journal of Planning Research and Education (JPER), USA from 2017 onwards till date

### **WORKSHOPS/TRAINING/COURSES/AWARDS/HONOURS ATTENDED**

- 1) Awarded Degree of Rashtrabhasa Praveen equivalent to BA degree by Dakshina Bharatha Hindi Prachar Sabha, Chennai
- 2) Special invitee in the B.Plng. Board of Studies (BoS) meeting held in October 29-30, 2010. Member in third and fourth Board of Studies meeting held on 25 November 2011 and 2012.
- 3) Member in the expert consultation meeting in the commencement of post-graduate courses in planning.
- 4) Participant in the workshop on "preparation of SPAV's vision document" held on March 19, 2011 at Hyderabad.
- 5) Participated in the workshop on National Programme for Capacity Building of Architecture in Earthquake Risk Management (NPCBAERM).

- 6) Participated in IAA-NATCON 2009 on the topic "Second Renaissance" at Nagpur.
- 7) Participated in seminar on Japanese style of Management, conducted by Department of Management studies, Periyar Maniammai University, Thanjavur.
- 8) Co-ordinated Periyar Science Exhibition at Coimbatore as part of architecture department (regarding global warming and energy consumption strategies in buildings using natural cooling methods).
- 9) Bestowed Special merit certificate by United Schools Organisation, New Delhi.
- 10) Participated in the course on. 23 titled Valuation of Assets and Latest Techniques held on 6<sup>th</sup> and 7<sup>th</sup> August 6-7, 2011 at Trichy, Tamil Nadu.
- 11) Attended and successfully completed NNRMS training course on "Remote Sensing and GIS applications to Urban and Regional Planning at Indian Institute of Remote Sensing (IIRS) at Dehradun in 2014.
- 12) Attended short course on Research and Statistics Essentials conducted by Gubbi labs from 12-14 December 2014 at Bangalore and hands on reference management tool Mendeley, R software.
- 13) Invited as a Juror by Planning Department in December 2015 by SPA, Bhopal for Assessing the Area Development plan for Ward 75 in Bhopal as part of third year Bachelor of Planning Studio.
- 14) Presented about Architecture and Planning Education and Career Prospects in the Spoorty-2017, Career Guidance Program conducted by KAB consultants, Hyderabad on 10/12/2016, at Executive club, Near Government Polytechnic, Vijayawada.
- 15) Attended three days National Level Workshop on Research Methodology, Statistical Data Analysis and Interpretation using Statistical Package for Social Science (SPSS) and Analysis of Moments Structure (AMOS), conducted by Institute for Statistics and Analytical Research and Microstar Systems Private Limited from 17<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> November 2017 at Chennai.

### **Personal Information**

**Age, Date of Birth:** 41 Years, 15.01.1977. **Nationality:** Indian

**Languages Known:** English, Hindi, Tamil (Write, Read and Speak), Telugu (Read and Write) and Sanskrit (Read and Write)

**Hobbies:** Traveling to Spiritual journeys and Stamp Collection

**Games:** Cricket and Weight Lifting

### **Declaration**

All the above-furnished information is true to the best of my knowledge and belief.

Valliappan AL