SERVICES PROFILE





4th DIMENSION CONSULTING

DEVELOPMENT PRACTITIONERS

www.4thdimensionpk.com



ENERGY | BUILDINGS | COMMUNITY | URBAN DESIGN | URBAN PLANNING | POLICY

Creating and Shaping Sustainable Spaces

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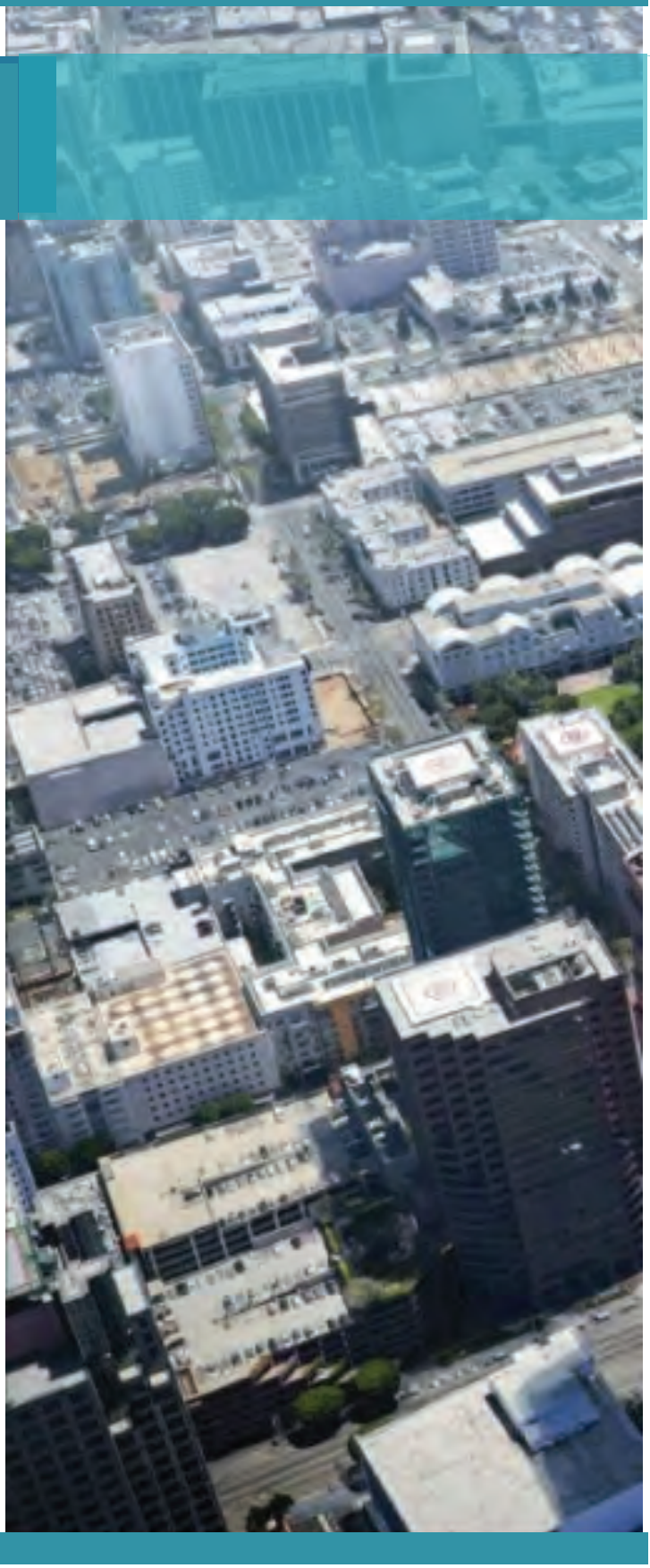
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ABOUT US



4th Dimension Consulting entered urban planning & development sector consulting business in 1994 with an aim to provide quality services to the public, private and international donor sector clients. The firm is incorporated in Pakistan as a private sector limited company with the Securities and Exchange Commission of Pakistan (SECP) and also listed as a category “A” consulting firm with the Pakistan Council of Architects and Town Planners (PCATP) other than having registrations/enlistments with many other departments.

Firm's primary areas of business are; Urban & Regional Planning, Urban Development, Housing, Infrastructure, Industrial & Technology Parks, SEZ's, Commercial, Institutional, Hospitality, Energy, Environmental and Transportation Planning for clients both in public and private sectors.

From its very inception, the firm has followed the strategy of operating in development sector consulting business with the quality of service as a prime objective. The firm entered and continued the business with highly qualified, competitive and experienced professionals on its business PORTFOLIO whereas its competitors within the Pakistan do not possess such rich profiles. It was in this environment that the firm attained the reputation for successful completion of numerous projects.



"A CITY IS MORE THAN JUST A PLACE IN TIME, ITS A DRAMA IN TIME"

Patrick Geddes

Today, the firm has attained good business reputation and fame within the past two decades of its growth. It has employed personnel with highly competitive qualifications and experience and delivered highly competitive plan-design-execute solutions to hundreds of satisfied clients both in public and private sectors.

For the future, 4th Dimension Consulting retains its commitments high to innovate and grow simultaneously. It's proven experience in Urban Planning & Development, Environment, Architecture and Project Management with in-depth technical expertise is a vital strategic strength to compete for the forthcoming projects, and to ensure achievement of its aspirations the organization will continue its tradition of placing a premium on people. It is the skill and vision of highly qualified staff motivated by success, which enables 4th Dimension Consulting to continue as a dynamic and prosperous organization to "Create and Shape Sustainable Future Spaces & Communities".

OUR SERVICES

- URBAN ENVIRONMENTAL PLANNING
- BUILDING ENERGY AND ENGINEERING SOLUTIONS
- SOCIAL SECTOR DEVELOPMENT
- PROJECT PLANNING AND MANAGEMENT
- INDUSTRIAL AND TECH PARKS PLANNING
- URBAN DESIGNTRANSPORTATION PLANNING
- POLICY GOVERNANCE AND DEVELOPMENT

Urban and Enviornmental Planning

4th Dimensions' plan & design philosophy focuses on creating environmentally sustainable communities that are diverse, mixed-use, and pedestrian friendly. The firm places a special emphasis on fostering places that provide a range of housing in close proximity to shopping, jobs, recreation, and transit - sustainable communities that offer realistic housing and transportation choices. Our projects range from urban infill / regeneration to large scaled regional & development plans. The challenge of contemporary urban planning & design is in synthesizing the diverse needs of modern households with the timeless need for human scale, civic identity, and ecological sustainability. In addressing this challenge, '4th Dimension' has been an endeavoring partner in developing the concepts of Sustainable Urban Development rather to practice adhocism.



We extend following services in the areas of **URBAN ENVIRONMENTAL PLANNING**

RECONNAISSANCE / PRELIMINARY SITE / PROJECT SURVEYS

SITE TOPOGRAPHICAL SURVEYS AND DIGITAL MAPPING



- Land and Topographic Survey
- Digital Terrain Modelling
- Cadastral Survey
- Hydrographical Survey
- Geodetic Survey
- Deformation Studies
- Surveying Services for
- Construction projects
- Supervision Projects Global Positioning System and Remote Sensing

SPATIAL & NON-SPATIAL STUDIES

- Topographic
- Land use
- Geo-tech
- Environmental
- Hydrology
- Services & infrastructure
- Socio-economic
- Demographic

CREATING FACT SHEETS

By presenting/ analysing data in the form of graphical formats of:

- Digital Maps
- Imageries
- Illustration

DEVEOPMENT PLANS, STRATEGIC PLANS /POLICY

- Structure plans
- Master plans
- Regional plans
- Land use zoning plans
- Site plans
- Urban renewal plans,
- Urban rehabilitation /regeneration plans
- Action area plans
- Contingency plans
- Urban transport planning & management

DEVELOPMENT OF GIS APPLICATIONS FOR URBAN MANAGEMENT

- Satellite imagery interpretation
- Map digitization & vectorization
- Digital terrain model
- Global positioning system survey &
- geo-referencing
- GIS database and model development
- Modelling by employing Decision Support
- System (DSS) & Land Suitability Analysis
- Map analysis
- Map production

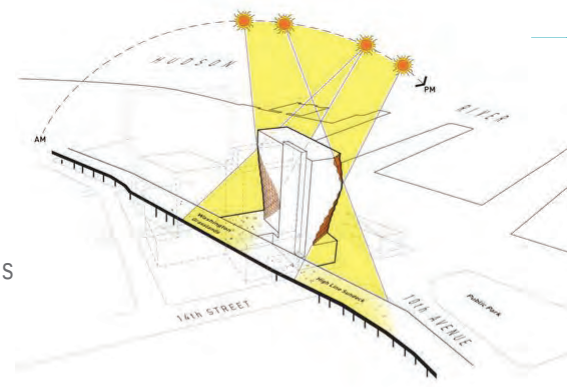
LAND USE PLANNING



- Strategic plans
- Neighbourhood plans
- Down towns / business districts
- Peri-urban area development plans
- Parks / recreation / leisure sites
- Campuses / institutions
- Industrial estates
- Conservation sites
- Problem / slum areas
- Regeneration

PREPARATION OF FEASIBILITY REPORTS.

3D SITE DEVELOPMENT MODELS.

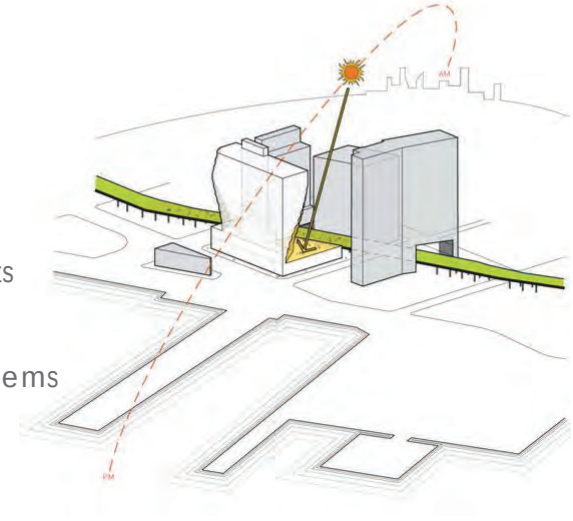


INFRASTRUCTURE / SERVICES DESIGN

PUBLIC PARTICIPATION / AWARENESS CAMPAIGNS.

ENVIRONMENTAL STUDIES AND PLANNING

- Strategic environmental assessment of policies and plans
- Sustainability appraisals
- Environmental profiling
- Site characterization
- Baseline data of environmental pollution
- Ecological investigations
- Environmental risk assessment
- Environmental planning and management
- Environmental health and safety
- Environmental impact assessment of projects
- Environmental sustainability appraisals
- Site assessment and remediation
- Water resources management for development projects
- Infrastructure planning for environmental development
- Facilities for recreational purposes
- Environmental audit & environmental management systems
- Design of treatment facilities
- LEED auditing for both architectural & planning
- Environmental Modelling and Sensitivity Analysis



Buildings, Energy & Engineering Solutions



4th Dimensions' expertise in building and energy design services ranges from Architectural, Engineering and Interior Design, Energy Auditing, Design for Energy Sourcing & Efficient Use, Energy Conservation Planning to Assistance in acquiring Green Certifications.and economy and energy efficiency/conservation. We have always set a higher goal of our client satisfaction by giving them maximum financial benefits through Innovative, Smart, Efficient & Intelligent Planning and Design Solutions but still to keep solutions highly competitive.

We extend our Architectural, Engineering, Interior Design and Energy solutions for Residential, Commercial, Public, Hospitality and Industrial Developments.

We provide following services but essentially not limited to these:

- Site surveys / geo-tech investigations
- Development of concept plans
- 3d architectural rendering & visualizations
- Working and shop drawings
- Digitization of architectural drawings / data
- Structural design
- Electrical and mechanical services design for structures /urban development
- HVAC design
- Public health engineering design
- Interior design
- Façade development for existing structures
- Property valuation services
- Site Management
- Energy auditing & certification
- Energy Conservation and planning
- Renewable energy design



Social Sector Development

Our expertise also include services in the following areas of social sector planning and development:



- Social sector studies & assessments
- Livelihood assessmen,
- Social development indicator studies
- Poverty evaluation and alleviation strategies
- Social conflicts resolution
- Gender studies and streamlining
- Community based disaster management, remediation and preparedness
- Political outreach and reforms
- Health and education sector studies & reforms
- Institutional capacity building and reforms
- Governance assessment and gaps identifications
- Enterprise development
- Policy remediation for social, institutional, political and governance sector development.

Turnkey & Project Management Services

Construction management facilities for turnkey projects

- Residential
- Commercial
- Industrial

Project Management Services

- Preparation of tender documents
- Preparation of contract documents
- Site supervision
- Financial Scheduling
- Contract Management

Pre-feasibility and Bankabake Feasibility Studies for Planning, Architectural and Engineering Projects



Industrial and Technology Parks Planning

4th Dimension's professionally versatile & dynamic team equally specializes in carrying out pre-feasibility & feasibilty assessments, planning and infrastructure design for industrial areas, industrial estates, zones, SEZs', EPZ's, Technology Parks and also includes strategic and policy planning for industrial developments further including:

- **Carrying out pre-feasibility and feasibility studies for manufacturing, service industry and science & technology parks.**
- **Site validation studies**
- **Conceptual layouts and master planning for industrial and technology zones**
- **Industrial policy, rules and regulations**
- **Incentives and concessions plans**
- **Development and preparations of applications for SEZ approval in context of local SEZ laws/rules.**
- **Infrastructure planning and engineering design for industrial and technology zones.**
- **Preparation of solicited and unsolicited proposal under Public Private Partnership models.**
- **Development of TORs etc. for carrying out development proposals for industrial zones.**
- **Environmental and social management planning.**
- **Waste treatment, remediation and management planning.**
- **Preparation of environmental assessment reports for industrial developments.**



Urban Design Services

Urban design is considered as an art of designing places for people and is one of the important elements in urban planning, especially for a creating a livable, aesthetically pleasing, compact, dynamic and sustainable city. It concerns about the total visual effect of building masses, connections with people and places, creation of spaces for movements, urban amenities and public realm, and the process for improving the overall cityscape. Urban design also sets the framework for the physical and spatial arrangement and composition of all built-forms in urban structure and their three-dimensional relationship with the spaces around them and the surrounding settings for achievement of aesthetic and socio-cultural qualities.

Considering the importance of urban design interventions, 4th Dimension belives to have these interventions imbedded as an integral part of planning process. And in doing so we facilitate our clients in doing:

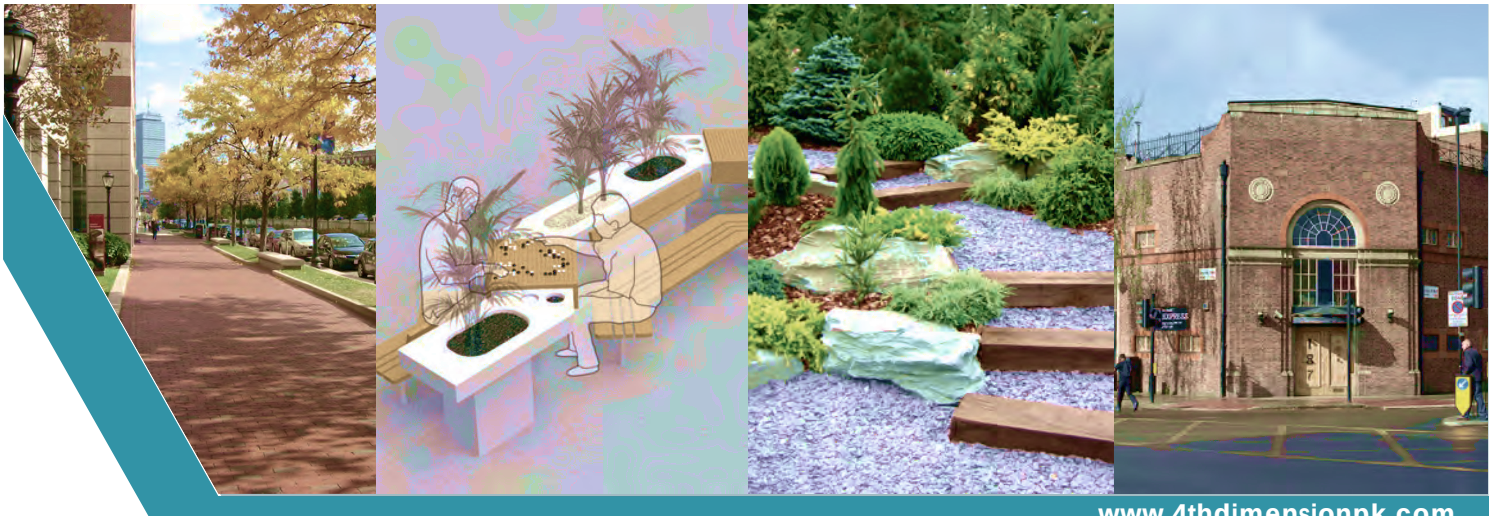
Reconnaissance

Study Planning for site observations and visual registration of infrastructure

Site Graphic Analysis icluding:

Urban Design services are carried out for:

- **Streetscape**
- **Street Furniture**
- **Facade Uplifts**
- **Upgradation of Public Green Spaces**
- **Landscape Design**
- **Development of design guidelines and manuals for street design, public spaces design etc.**
- **Formulation of urban design policy framework and action plans as an integral part of City Master/Strategic Planning.**





Transportation Planning

4th Dimension's professionally versatile & dynamic team equally specializes in carrying out pre-feasibility & feasibilty assessments, planning and infrastructure design for industrial areas, industrial estates, zones, SEZs', EPZ's, Technology Parks and also includes strategic and policy planning for industrial developments further including:

- Origin & Destination Studies
- Cordon and Screen Line Counts
- Traffic Counts
- Household Information Surveys
- Travelers Information Surveys
- Boarding Alighting Studies
- Willingness to pay surveys
- Land use registration along different corridors
- Road and Intersection Geometry Registration
- Turning Movement Counts
- Boarding Alighting Studies
- Data Digitization
- Data Analysis and travel demand forecasting by using assistive modeler tools
- Priority Corridors identification
- Urban Transport System Modelling and Simulations
- Geometric design of arteries and corridors
- Carrying out accessibility and mobility and other analysis using GIS modeling tools

Policy, Governance & Institutional Development

Governance and institutions are among the main determinants to measure success level of development initiatives and effectiveness of public sector management. It is globally recognized and well-accepted that the quality of governance should be evaluated by considering country-specific institutional environment. It has also been learned through the experience that human and economic development is only possible through good policy environment at all national, sub-national and local urban levels. Hence, the policy only succeeds if backed by a robust implementation and enforcement mechanism, in addition to the essentially needed community stewardship. For governance streamlining, a policy must be backed by well-capacitated institutions and is considered a precursor to urban change and socio-economic well-being of the communities.

4th Dimension Consulting capitalizes on its competitive strengths to assess urban institutional capacity gaps, devise supportive robust implementation mechanisms, developing appropriate regulations and institutional revamping strategies as an end product for the dominating public sector in development. For the same, we specializes in;



- **Policy Development & Analysis**
- **Institutional capacity gap assessments**
- **Capacity building proposals**
- **Institutional development strategies**
- **Strategizing for SPVs**
- **Development of regulatory mechanism to support institutions**
- **Developing road-maps and frameworks for local governance improvement**
- **Monitoring and Evaluation of public-private sector development interventions**



OUR PEOPLE

NADEEM KHURSHID



CEO & PRINCIPAL URBAN PLANNER

M.Phil. (Environmental Policy & Planning), B.Sc. (Urban Planning), MPCATP, FRICS, MAPA, FIPP

Nadeem leads 4th Dimension's multi-disciplinary team of professionals as founder Cheif Executive Officer having around 24 years of diverse professional experience in development sector. He primarily excels in urban planning & development related practices such as urban policy & planning, land-use / spatial planning, participatory urban development, urban governance, project planning & management, environmental policy, planning & management, transportation planning & design, contract management & execution and many other administrative and management capabilities but essentially not limited to all these.

Nadeem is dually qualified in Environmental Policy and Urban Planning with primary areas of expertise as; preparation of development plans, spatial plans, urban development strategic plans, regional plans, institutional design, preparation of PC1 & PCII for different development projects, project concept development, Planning and institutional development of industrial zones including SEZs, and EPZs, developing TOR, EOIs, RFPs, project documents & business models and carrying out environmental and social assessments, developing environmental baselines, environmental management planning, urban ecological impact assessments and environmental action plans viz.-a-viz.

ZULFQAR S. BAIG



PRINCIPAL ARCHITECT

N.D. (Arch), MPCATP

Zulfqar comes from a group of very talented and leading architects in Pakistan who graduated in late 70's from one of the Pakistan's oldest and premier institute NCA that has earned a great reputation around the globe for its quality education and training in architecture and arts over the decades. He has 37 years of diverse and highly competitive experience in architecture, urban design, interior design and project management across the globe- including Pakistan, Singapore, Hong Kong Middle-east, Saudi Arabia and USA. He possesses almost unmatched design & management skills and currently leads the architectural and interior design team of 4th Dimension Consulting.

Dr. KHALID F. AKBAR

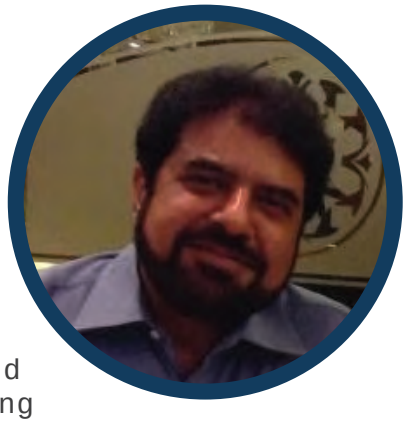


URBAN ENVIRONMENT/ECOLOGICAL SPECIALIST

Ph.D. (Environmental Sciences) Bradford-UK

Dr. Akbar holds a doctorate degree from the University of Bradford, UK and possesses more than 34 years of teaching, research and consultancy experience in Pakistan and abroad with a special focus on urban ecology, conservation, environmental planning & management, urban landscape development and agro- ecology, environmental assessment, conservation & outreach. He has worked on a number of environmental master planning and management projects for Pakistani cities including prime tourist destinations such as Murree and Soon valley. His work on ecological impact assessment of motorway M2 corridor in Pakistan is of real worth.

ZAHID S. QURESHI



URBAN INFRASTRUCTURE SPECIALIST

M.Sc. (Public Health Eng.), B.Sc. (Civil Eng.) P.E.

Zahid has a vast professional experience of about 28 years while working in urban infrastructure development policy and projects domains with both the local and international organizations such as World Bank, ADB, JICA, IFAD etc. He is thoroughly familiar and conversant with local infrastructure planning, development and management issues for both urban and industrial domains and he always tries to address and plan according to the local conditions and perspectives. He also specializes in water and wastewater management planning for urban areas in addition to his deep insight on importance of collaborative and inclusive aside of planning and development.

WASIQ MASROOR KHAN



Senior Urban Planner

B.Sc. (Urban Planning), MPCATP

Wasiq Masroor is also an Urban Planner by qualification with an extensive career in Urban Planning in Canada and Pakistan. His professional career spans over 25 years. Contract management, execution supervision and client liaison (especially with the public sector clients) are a few of his key strengths. He is the actual driving force behind making 4th Dimension's consulting assignments a reality on the ground. He also possesses extraordinary skills of project management.

KHURRAM SHAHZAD



Urban Design Specialist

M.Arch., MBA, B.Sc.(Urban Planning), MPCATP

Khurram also holds dual qualifications in Urban Planning & Architecture from UET, Lahore with a vast experience of over two decades in urban, industrial and public site planning and urban design. He skills to innovate to transform greys of the urbanscape into active pleasing & people-centered spaces and bringing those back to life. He undoubtedly contributes a lot in making 4th Dimension's roster of assignments, a definite success story.

ARIF ARAIN



Environmental Technologist

M.Phil (Environmental Chemistry)

Arif is an environmental technologist by education and experience. He holds a M.Phil degree in environmental chemistry. He has more than 30 years of experience in treatment technologies and management of waste treatment processes in urban and industrial sector. He specializes in treating urban and industrial sector wastes by applying bio-remediation and more of through bio-processing rather engaging more energy intensive chemical processes that essentially turn urban management interventions more sustainable.

ENGR. FAKHAR IQBAL SH.



ASSOCIATE STRUCTURAL DESIGN SPECIALIST

Fakhar holds an advance degree in structural design received from the University of Engineering & Technology, Lahore coupled with an extensive career spanning over three decades. He has designed structures of hundreds of commercial, industrial, residential and institutional buildings and mostly are done for 4th Dimension Consulting.

IMRAN HABIB



GIS/MIS SPECIALIST

M.S. (C.S.), M.S. (GIS), B.Sc. (GIS)

Imran is a solution oriented GIS specialist with prominent success in working on a broad range of GIS projects while involving in consulting, planning, modeling, analysis, testing and implementation of GIS solutions to support business objectives. He has 10 years' experience in GIS data management, Remote sensing analyst, application development. Lead role in GIS data conversions and application development projects. Skills in ESRI, ERDAS, ER Mapper & GPS software's. Self-motivated with strong interpersonal, technical, leadership & people skills. 3 years' experience in information systems management as systems support management, Web programmer, Database administrator and as web designing.

ASAD MALIK



ELECTRICAL SYSTEMS DESIGN

B. Tech. (Electrical)

Asad Malik is having over 26 years experience as a project manager and electrical systems design professional. He has an extensive experience in the design of electrical systems for many and varied applications. These include: hospitals with emergency backup, alarm and paging systems; medical facilities; theaters and restaurants; schools and other educational facilities; laboratories; computer facilities with UPS; amateur and professional sports facilities; elderly housing; urban development projects and correctional facilities. Additionally, has done electrical engineering design for numerous housing, commercial and industrial projects.

SHAHZEB KHAN



URBAN ARCHITECT

Bachelors in Architecture

Shahzeb Khan comes in to the field with young and enthusiastic approaches towards design and sesign studies. He Ha worked on projects on various scales and typological vesratilities, including large scale campus design and residential schemes.



PROJECTS

Urban Environmental Planning Projects

Feasibility and Master Planning of COMSATS Science & Technology Park

Project Type: Feasibility, Master Planning, Zoning & Infrastructure Design /Land Use Planning in JV with Frost & Sullivan, USA.

Client: COMSATS, Islamabad, Pakistan.

Location: Islamabad

Area: App. 1000 kanal

Start Date: July 2017

Completion Date: December 2017



The objective of establishing a Science & Technology Park, Islamabad is to promote exploitation of knowledge developed at the CIIT, other universities and RDIs in Pakistan. The co-location of actors to innovation, mainly academia, industry and the relevant entities in the Government are likely to provide an enabling environment through adopting suitable policies and instituting incentive programs. The proposed Technology Park would provide a platform to bring the above stated actors to innovation closer for meaningful interaction.

Sevices Rendered:

- Project Inception
- Carrying out on site and market demand assessments
- Data Collection & Review
- Review of Topographic Survey
- Surveys / Investigations for following
- Socio-Economic & Land use characteristics of area
- ERS for Water Availability,
- Hydrographic Studies
- Hydrology of the site (Sub Soil Water, Natural Runoff)
- Geo Technical Investigations
- Geological Studies for Seismic safety and terrain evaluation
- Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility etc.
- Metreological Conditions
- Evaluating Prevailing Zoning Regulations
- Evaluating Land use Regulation in the proposed area
- Evaluating Socio-Economic Status of target clients
- Environmental Profiling of the study area
- Infrastructure demand assessment for the Park
- Study existing legal and regulatory framework to carry out such developments
- Presentation/Submission of Preliminary Site Master Plan on the basis of studies conducted.
- Preparation of final/detailed Master Planning along-with development guidelines and
- strategies
- Preparation of final economic, financial and technical feasibility of the project.



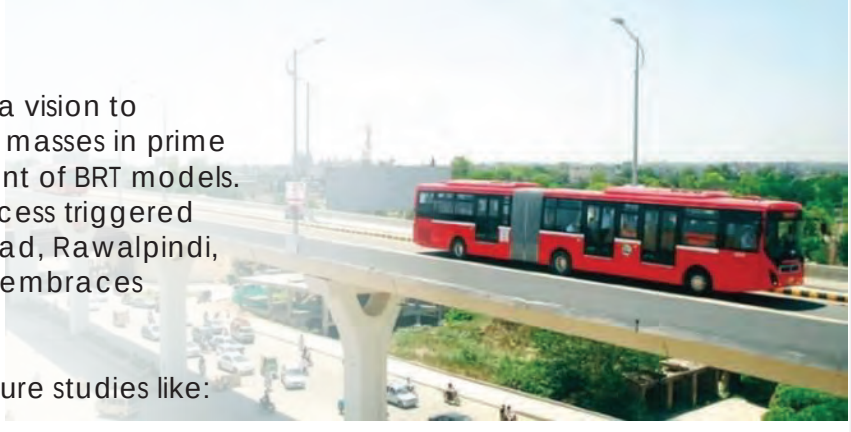
Transport Modelling and Feasibility Studies for Development of Mass Transit System in Faisalabad

A project of Punjab Metro Bus Authority (PMA),

In association with M/s. Osmani & Company (Pvt) Ltd., Karachi, Pakistan and ADK Greece

Position: Team Lead/ Urban Planner

March 2014 to April 2014



The government of the Punjab, with a vision to improve mobility and accessibility of masses in prime cities of Punjab, initiated development of BRT models. Lahore being the pioneer and a success triggered initiatives for other cities like Faisalabad, Rawalpindi, Islamabad, and Multan. The project embraces following main activities;

Transportation system and infrastructure studies like:

- Origin/Destination Studies on Cordon and Screen Lines
- Traffic Counts
- Household Information Surveys
- Travellers Information Surveys
- Boarding Alighting Studies
- Willingness to pay surveys
- Land use registration along different corridors
- Road and Intersection Geometry Registration
- Turning Movement Counts
- Data Digitization
- Data Analysis and travel demand forecasting by using modeler CUBE
- Priority Corridors identification

Assessment of Regulatory & Institutional Framework for Urban Planning and Management in Khyber Pakhtunkhwa

(A USAID-funded project and implemented by The Urban Policy Unit, KPK. and done in JV with PEPAC & KUNDI Law Associates)

Position: Team Lead / Urban Development Specialist

April 2014 to 2016

Urban development and management are critically linked with sound, comprehensive strategic planning and regulatory framework. There is a range of structural and institutional impediments to urban development and management in Pakistan and particularly in Khyber Pakhtunkhwa. To address these short comings and to enhance economic growth through better urban management, the Government of Khyber Pakhtunkhwa through the Urban Policy Unit, with financial support from the USAID, has identified some key areas where capacity of institutions needs to be enhanced. These are mainly related to Urban Planning and Development in the province. In realizing that, the Urban Policy Unit hired the consultancy services of M/s. 4th Dimension Consulting, Kundi & Kundi and PEPAC Ltd. for conducting Assessment and to propose reforms in the Legal,,Regulatory and Institutional Framework for the Urban Management corresponding to the Urban Areas of Khyber Pakhtunkhwa. I shall be leading and supervising this assignment as URBAN DEVELOPMENT EXPERT on behalf of consulting consortia.

The primary objective of this project was to formulate the recommendations in the legal and institutional framework for addressing gaps and constraints, which impede urban development, urban management, land use planning, and housing provision in the cities of KPK.



FAISALABAD PERI-URBAN STRUCTURE PLAN

(A WORLD BANK funded project implemented through The URBAN UNIT Punjab under PCGIP)

Project Type: Development Planning/Land use Policy/Planning

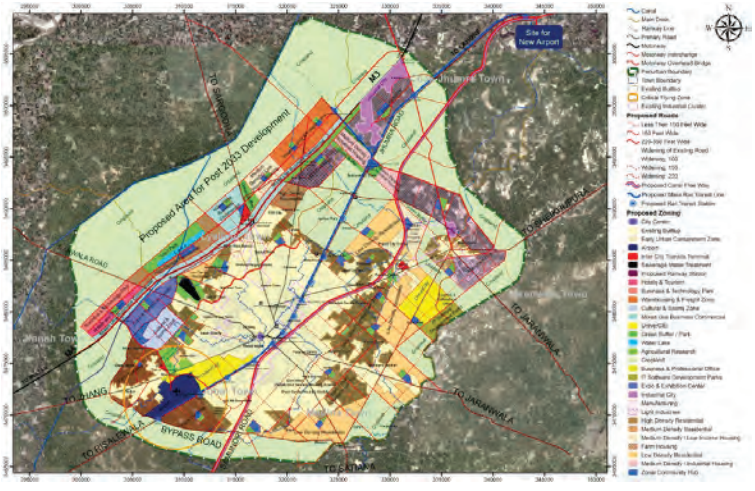
Client: USPMU, Govt. of the Punjab

Location: Faisalabad, Punjab

Start Date: July 2013,

End Date: Feb 2014

Estimated Project Cost: 12 million Rupees



Project Objectives:

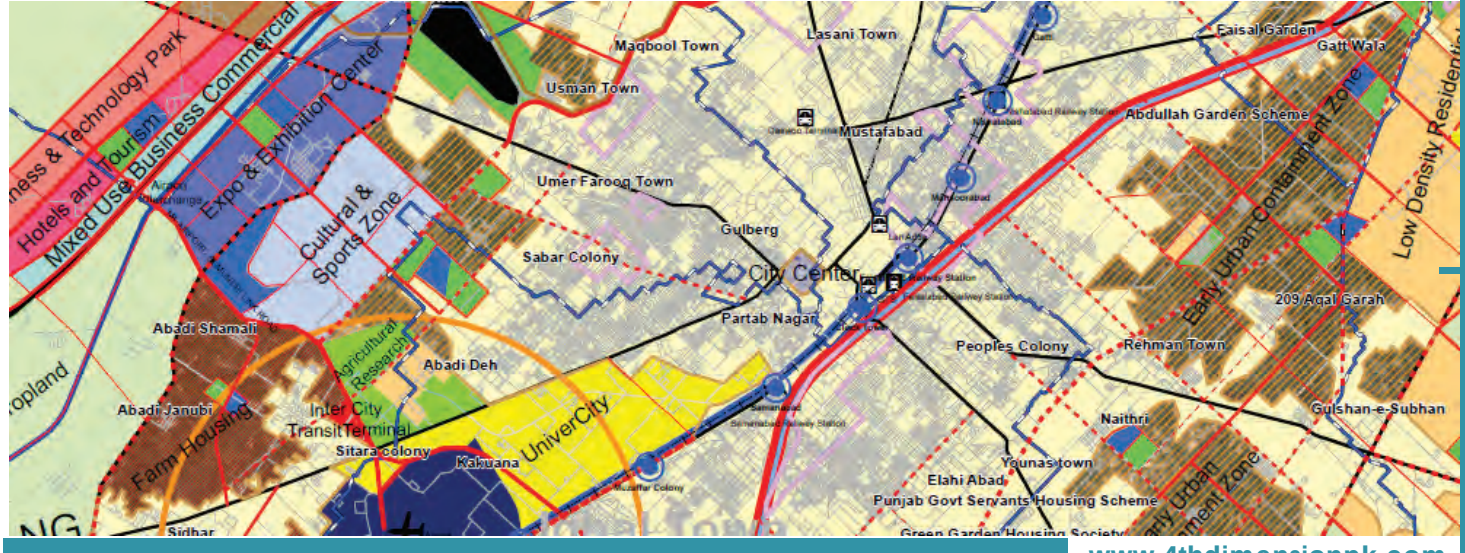
Faisalabad Peri Urban Structure Plan (FPUSP) is being implemented under the Punjab Cities Governance Improvement Project (PCGIP as a sub-component to achieve above described goal. The Urban Sector Planning & Management Services Unit (USPMSU) is the primary agency responsible to manage and facilitate the project activities whereas City District Government Faisalabad (CDGF) is end beneficiary. The FPUSP Project aims to assist the City District Government Faisalabad in the preparation of Peri Urban Structure Plan for Faisalabad for future planned growth and systematic development for the next twenty years. The Peri Urban Structure Plan is being prepared as per prescribed procedure in the Punjab Land Use (Classification, Reclassification and Redevelopment) Rules 2009 thus providing the CDG Faisalabad with an agreed 'City Boundary and peri-urban zoning viz a viz' ensuring that the urban planning and development only occurs in an integrated planned manner within the specified limits.

The peri-urban structure plan of the Faisalabad aims at the comprehensive farsighted development of the city.
Specific objectives of the peri urban plan Faisalabad include:

To suggest measures for preserving productive agriculture land and precious environmental resources in the peri urban area
To suggest pertinent mix of land uses in the Peri Urban area
To identify incompatible land uses such as industries and suggest measures to mitigate the impacts on peri urban development
To recommend an efficient circulation network in the peri urban area

The main activities include:

- **Defining study area and tentative peri-urban boundary**
- **Registering land uses both in existing built-up and peri-urban areas**
- **Ascertaining future growth areas and zones by employing GIS Models as Decision**
- **Support System**
- **Delineating zones, sub-zones, blocks and road network in peri-urban area**
- **Consolidating peri-urban area boundary as supported by DSS Model**
- **Formulating strategies to support future 20 years growth pattern**



MURREE MASTER PLAN 2011-31

(A Joint venture with PEPAC Private Limited)

Project Type: Master Planning/Land use Policy/Planning

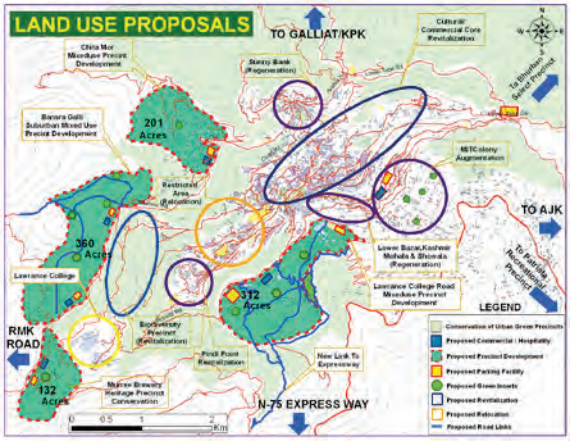
Client: TDCP, Govt. of Punjab

Location: Murree, Punjab

Start Date: May 2011

End Date: July 2013

Estimated Project Cost: 50 Billion Rupees



Project Objectives:

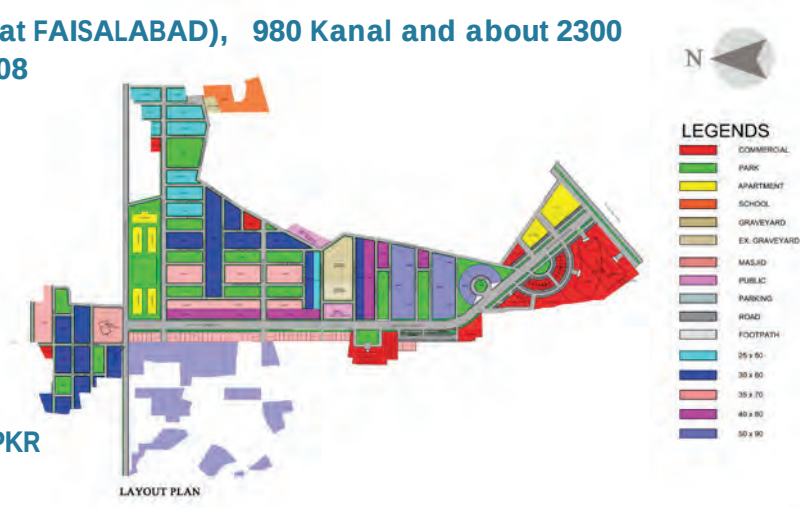
- To Develop Murree as a Pollution Free Tourist Town for Tourist and locals visitors with availability of civic amenities, accommodation, restaurant shopping areas, recreational and other infrastructures.
- To maintain and enhance current tourism activities / facilities and development
- To promote affordable, accessible and enjoyable domestic tourism and cultural and sports festivals; tourism of religious sites and old civilizations and foreign
- To incorporate environmental dimension into planning of development activities on hilly areas.
- To regulate development activities in hill areas in order to minimize unnecessary adverse impacts on the natural landscapes, surrounding areas and the environment.

Activities:

- Project Planning & Work Plan Organization
- Desk Studies
- Situational Analysis
- Problem areas / issues identification
- Digitization of Base maps
- Field Surveys / Studies for Priority Sectors Defined in TOR
- Data Analysis using Multivariate Data analysis Models
- Development of an integrated GIS for future management of city
- Projected Model Development
- Policy Framework Development
- Stakeholder Consultation / Workshops
- Sector s Development
- Policy Implementation framework Development

Planning, Design and Management of EOBI Enclave,

EDEN VILLAS (An EDEN HOUSING PROJECT at FAISALABAD), 980 Kanal and about 2300 dwelling units. TOWN PLANNING DONE. 2008



LAYOUT PLAN

Project Type: Land Use Planning

Client: EDEN Housing Ltd. Lahore.

Location: Samanabad, Faisalabad

Start Date: November 2007

Estimated Project Cost: App. 1000 million PKR

Services Rendered:

Project Inception
Carrying out on site Topographic Surveys
Data Collection & Review
Review of Topographic Survey
Surveys / Investigations for following

- **Socio-Economic & Land use characteristics of area**
- **ERS for Water Availability,**
- **Hydrographic Studies**
- **Hydrology of the site (Sub Soil Water, Natural Runoff)**
- **Geo Technical Investigations**
- **Geological Studies for Seismic safety and terrain evaluation**
- **Studies for Site Accessibility, Road linkages, Available Infrastructure Services and**
- **Accessibility etc.**
- **Metrological Conditions**
- **Evaluating Prevailing Zoning Regulations**
- **Evaluating Land use Regulation in the proposed area**
- **Evaluating Socio-Economic Status of target clients**



- Presentation/Submission of Preliminary Master Plan on the basis of studies conducted.
- Preparation of final/detailed Master Planning
- Submission of Final Master Plan to client for approval
- Subdivision Design Criteria Development and Land use subdivision plan
- Schematic Designing of Infrastructure & Utilities, including the following:
- Roads, Parking, Pavements and Walkways
- Water Supply: Source Development, Distribution and Storage
- Surface/Rain Water Drainage/Run-off
- Sewerage Network Development
- Sewage Collection, Treatment and Disposal
- Landscaping / Parks / Open Spaces
- Electrification
- Structural Design for culverts, substructures and super structures

-Detailed Engineering Design.
-Presenting 3D Site Development Models
-Project Programming/Scheduling
-Submission of Final Engineering Design to relevant authorities for approval
-Technical Assistance to seek approval/NOC from Relevant Authority
-Bill of Quantities/Estimation to carryout Development works
-Tender Documents and Detailed Drawings Preparation
-Project Planning for development Activities
-Feedback and Plan Reviews.

EDEN VILLAS, Islamabad

Project Type: Land Use Planning

Client: EDEN Housing Ltd. Lahore.

Location: Kak Pull, Islamabad Highway

Start Date: February 2008

Estimated Project Cost: App. 1500 million PKR



Services Rendered:

- Project Inception
- Carrying out on site Topographic Surveys
- Data Collection & Review
- Review of Topographic Survey
- Surveys / Investigations for following
- Socio-Economic & Land use characteristics of area
- ERS for Water Availability,
- Hydrographic Studies
- Hydrology of the site (Sub Soil Water, Natural Runoff)
- Geo Technical Investigations
- Geological Studies for Seismic safety and terrain evaluation
- Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility etc.
- Metrological Conditions
- Evaluating Prevailing Zoning Regulations
- Evaluating Land use Regulation in the proposed area
- Evaluating Socio-Economic Status of target clients
- Presentation/Submission of Preliminary Master Plan on the basis of studies conducted.
- Preparation of final/detailed Master Planning

EDEN VILLAS

Project Type: Land Use Planning

Client: EDEN Housing Ltd. Lahore.

Location: Samanabad, Faisalabad

Start Date: November 2007

Estimated Project Cost: App. 1000 million PKR



Services Rendered:

- Carrying out on site Topographic Surveys
- Data Collection & Review
- Review of Topographic Survey
- Surveys / Investigations for following
- Socio-Economic & Land use characteristics of area
- ERS for Water Availability,
- Hydrographic Studies
- Hydrology of the site (Sub Soil Water, Natural Runoff)
- Geo Technical Investigations
- Geological Studies for Seismic safety and terrain evaluation
- Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility.
- Metrological Conditions
- Evaluating Prevailing Zoning Regulations
- Evaluating Land use Regulation in the proposed area
- Evaluating Socio-Economic Status of target clients
- Detailed Engineering Design.
- Presenting 3D Site Development Models
- Project Programming/Scheduling
- Submission of Final Engineering Design to relevant authorities for approval
- Technical Assistance to seek approval/NOC from Relevant Authority
- Bill of Quantities/Estimation to carryout Development works
- Tender Documents and Detailed Drawings Preparation
- Project Planning for development Activities

Wood Bury Homes



Project Type: Land use Planning +Architectural Design of Houses + Project Management

Client: EDEN Housing Ltd. Lahore

Location: Kak Pull, Islamabad Highway

Start Date: February 2008

Estimated Project Cost: App. 1500 million PKR

Services Rendered:

- Project Planning
- Land use Plan Development
- Infrastructure Design Development
- Architectural Design Development for different sized housing units
- Detailed Drawings Development
- Preparation of BOQs, Estimates & Tender Documents
- Project Management

Mediacom Avenue



Project Type: Land use Planning +Architectural Design of Houses + Project Management

Client: REMCON, Islamabad

Location: Khawaja Gardens, Faisalabad

Start Date: August 2005

Estimated Project Cost: 150 million PKR

Services Rendered:

- Project Planning
- Land use Plan Development
- Infrastructure Design Development
- Architectural Design Development for different sized housing units
- Detailed Drawings Development
- Preparation of BOQs, Estimates & Tender Documents
- Project Management

Palm View Homes



Project Type: Land use Planning +Architectural Design of Houses + Project Management

Client: REMCON, Islamabad

Location: Khawaja Gardens, Faisalabad

Start Date: August 2005

Estimated Project Cost: 150 Million PKR

Services Rendered:

- Project Inception
- Project Planning
- Land use Plan Development
- Infrastructure Design Development
- Architectural Design Development for different sized housing units
- Detailed Drawings Development
- Preparation of BOQs, Estimates & Tender Documents
- Project Management

Rehman Gardens, 208 Kanal

Project Type: Town Planning

Client: Mr. Abbass Ali

Location: Satiana Road, Faisalabad

Start Date: May 2002,

Estimated Project Cost: 15 Million PKR



- Services Rendered:
- Topographic survey
- Land use Subdivision

Khayaban-e-Kashmir Housing Society

Project Type: Land Use Planning

Client: Jammu Kashmir Housing Society

Location: G. T. Road Interchange, Islamabad

Start Date: November 2002

Estimated Project Cost: App. 600 million PKR



Services Rendered:

- Carrying out on site Topographic Surveys
- Data Collection & Review
- Review of Topographic Survey
- Socio-Economic & Land use characteristics of area
- ERS for Water Availability,
  -Hydrographic Studies -Hydrology of the site (Sub Soil Water, Natural Runoff)
  -Geo Technical Investigation -Geological Studies for Seismic safety
- Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility etc
  -Metrological Conditions -Evaluating Prevailing Zoning Regulations
  -Evaluating Land use Regulation in the proposed area
  -Evaluating Socio-Economic Status of target clients
- Presentation/Submission of Preliminary Master Plan on the basis of studies conducted.
- Preparation of final/detailed Master Planning
- Submission of Final Master Plan to client for approval
- Subdivision Design Criteria Development and Land use subdivision plan.
  Schematic Designing of Infrastructure & Utilities, including the following:
  -Roads, Parking, Pavements and Walkways
  -Water Supply: Source Development, Distribution and Storage
  -Surface/Rain Water Drainage/Run-off
  -Sewerage Network Development
  -Sewage Collection, Treatment and Disposal
  -Landscaping / Parks / Open Spaces
  -Structural Design for culverts, substructures and super structures
- Detailed Engineering Design.
- Presenting 3D Site Development Models
- Project Programming/Scheduling
- Submission of Final Engineering Design to relevant authorities for approval
- Technical Assistance to seek approval/NOC from Relevant Authority
- Bill of Quantities/Estimation to carryout Development works

AGOCHS 2

Project Type: Master Planning

Client: TDCP, Govt. of Punjab

Location: Murree, Punjab

Start Date: May 2011,

Estimated Project Cost: 15 million PKR



Services Rendered:

- Desk Studies
- Situational Analysis
- Problem areas / issues identification
- Digitization of Base maps
- Field Surveys / Studies for Priority Sectors Defined in TOR
- Data Analysis using Multivariate Data analysis Models
- GIS Development
- Projected Model Development
- Policy Framework Development
- Stakeholder Consultation / Workshops
- Sector s Development
- Action Plans Development
- Policy Implementation framework Development

ECOLOGICAL EVALUATION OF URBAN CORRIDORS

Project Type: Environmental Studies/Urban ecosystems

Client: LEAD PAKISTAN

Location: Sahiwal, Punjab

Start Date: May 2000

Estimated Project Cost: 0.5 million PKR



Services Rendered:

- Study the role of urban corridors in conservation of urban biodiversity.
- Evaluate the current status of management of urban corridors.
- To propose measures to improve the conservation of urban wild flora and fauna.
- Survey of roadside plants.
- Assessment of management practices of roadside verges.
- Study of potential threats (pollution, disturbance, encroachments) to corridors.

LCM Canal Berg

Project Type: Land Use Planning

Client: S.M. Builders, Lahore.

Location: LCM Site, Faisalabad

Start Date: November 2010

Estimated Project Cost: App. 1500 million PKR



Services Rendered:

- Carrying out on site Topographic Surveys
- Data Collection & Review
- Review of Topographic Survey
- Socio-Economic & Land use characteristics of area
- ERS for Water Availability,
  -Hydrographic Studies -Hydrology of the site (Sub Soil Water, Natural Runoff)
  -Geo Technical Investigation -Geological Studies for Seismic safety
- Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility etc.
  -Metrological Conditions -Evaluating Prevailing Zoning Regulations
  -Evaluating Land use Regulation in the proposed area
  -Evaluating Socio-Economic Status of target clients
- Presentation/Submission of Preliminary Master Plan on the basis of studies conducted.
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  -Sewerage Network Development
  -Sewage Collection, Treatment and Disposal
  -Landscaping / Parks / Open Spaces
  -Structural Design for culverts, substructures and super structures
- Detailed Engineering Design.
- Presenting 3D Site Development Models
- Project Programming/Scheduling
- Submission of Final Engineering Design to relevant authorities for approval
- Technical Assistance to seek approval/NOC from Relevant Authority
- Bill of Quantities/Estimation to carryout Development works

THE ECOLOGY OF TRANSPORTATION

MANAGING MOBILITY FOR THE ENVIRONMENT IN EUROPE IN 21st CENTURY

Project Type: Environment and Transport planning/Policy analysis

Client: Irish Higher Education Authority/National Development Plan of Ireland

Location: Corke, Ireland

Start Date: 2004

End Date: 2006

Project Objectives:

- Review the ecological effects and their causes of different modes of transport.
- Projections of transport development in 21st century in Europe.
- Transport and climate Change in 21st century.
- Transport in post-oil era.

Activities:

- Aviation.
- High seas global transport.
- Automobiles and sustainability of human settlements.
- Road transport infrastructure.
- Sustainable development of modern road ecosystems.
- Tourism transport and environment and Transport-related contaminants and pollutants.



CAPACITY BUILDING OF LOCAL GOVERNMENT REPRESENTATIVES IN PARTICIPATORY ENVIRONMENTAL MANAGEMENT, ENVIRONMENTAL CONFLICT RESOLUTION AND PUBLIC INTEREST LITIGATION IN KASUR AND ABBOTABAD DISTRICTS

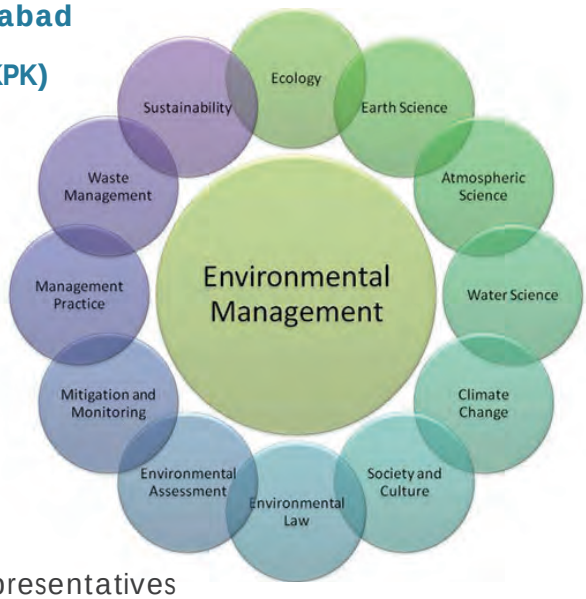
Project Type: Governance/Capacity Building/Environmental management

Client: Asian Development Bank/LEAD Pakistan Islamabad

Location: District Kasur (Punjab); District Abbotabad (KPK)

Start Date: May 2007

End Date: August 2007



Project Objectives:

- Review the current system of participatory environmental management, environmental conflict resolution and public interest litigation at district level.
- Identification of constraints in adopting better environmental management practices at local government level.
- Create awareness among the local government representatives about improved environmental management practices.
- Educate/train the local government representatives/officials about above mentioned issues to build their capacities.

Activities:

- Preparation of environmental profile of Abbotabad and Kasur districts.
- Evaluation of major environmental issues (solid waste management, drinking water availability, sanitation, conservation) in the two districts.
- Preparation of Training manuals for local government representatives.
- Conducting training workshops (3-4 days) for local government representatives/officials in each tehsil of Abbotabad and Kasur district.

PEOPLE AND PLANTS APPLIED ETHNOBOTANY PROJECT OF AYUBIA NATIONAL PARK, GALLYIAT, ABBOTABAD

Project Type: Environmental conservation/Development and conservation

Client: UNESCO, Royal Botanic Gardens Kew, London; WWF-Pak

Location: Ayubia National Park, Nathia Galli, Distt. Abbottabad

Start Date: 1997

End Date: 2002



Project Objectives:

People and Plants Applied ethnobotany Project at Ayubia National park was initiated as a pilot project to promote conservation of plants in hilly areas of Pakistan by adopting principles/techniques of Ethnobotany. It was sponsored by UNESCO and ICIMOD and WWF-Pak served as implementation agency. I participated as resource person in different activities of this project on honorary basis.

- Study the use of ethnobotanical principles and methods in plant conservation.
- Promote participation of local communities in conservation and management of forests and plants.
- Improve the livelihood opportunities and status of local communities through better management of natural resources.
- Evaluate the role of women in conservation of botanical resources of the area.

Activities:

- Survey of forest trees, herbaceous plants, fodder plants and crops in Ayubia National park.
- Study of patterns of harvesting/use of different groups of plants by local people.
- Status of ethnobotany of medicinal plants in the area.
- Perceptions/views of local communities about threats from wild animals and issues of their conservation.
- Analysis of Indigenous rights and conservation of biodiversity.

Architectural Projects

FOCUS-Hafeez Center

Building Type: Shopping Mall / Office Complex (Extension)

Client: Faisal Builders

Location: Shahrah e Faisal (Chen-One Road) , Faisalabad

Start Date: Aug 2013

Estimated Project Cost: 90 million PKR

Covered Areaa: 12000 sqft

Project Objectives:

- Concept Development
- Façade Development
- 3D Animations
- Detailed Architectural Design
- Structural Design
- HVAC Design
- Electrical Services Design
- Plumbing / Services Design
- Mechanical Services Design
- Construction Management



Faisal Heights

Building Type: Shopping Mall

Client: Faisal Builders

Location: Shahrah e Faisal (Chen-One Road) , Faisalabad

Start Date: Oct 2012

Estimated Project Cost: 60 million PKR

Covered Areaa: 8800 sqft



Project Objectives:

- Concept Development
- Façade Development
- 3D Animations
- Detailed Architectural Design
- Structural Design
- HVAC Design
- Electrical Services Design
- Plumbing / Services Design
- Mechanical Services Design
- Construction Management

Bareeze-Bashir Center

Building Type: Shopping Mall / Office Complex (Extension)

Client: Faisal Builders,

Location: Shahrah e Faisal (Chen-One Road) , Faisalabad

Start Date: Oct 2012

Estimated Project Cost: 60 million PKR

Covered Areaa: 9000 sqft



Project Objectives:

- Concept Development
- Façade Development
- 3D Animations
- Detailed Architectural Design
- Structural Design
- HVAC Design
- Electrical Services Design
- Plumbing / Services Design
- Mechanical Services Design
- Construction Management

Mediacom Center

Building Type: Shopping Mall / Office Complex (Extension)

Client: Faisal Builders

Location: Shahrah e Faisal (Chen-One Road)

Start Date: Oct 2010

Estimated Project Cost: 60 million PKR

Covered Areaa: 12730 sqft



Project Objectives:

- Concept Development
- Façade Development
- 3D Animations
- Detailed Architectural Design
- Structural Design
- HVAC Design
- Electrical Services Design
- Plumbing / Services Design
- Mechanical Services Design
- Construction Management

Azaan Heights

Building Type: Shopping Mall / Office Complex (Extension)

Client: REMCON, Islamabad

Location: Jahaz Chowk, Sahiwal

Start Date: Oct 2008

Estimated Project Cost: 600 million Rupees

Covered Areaa: 20000 sft

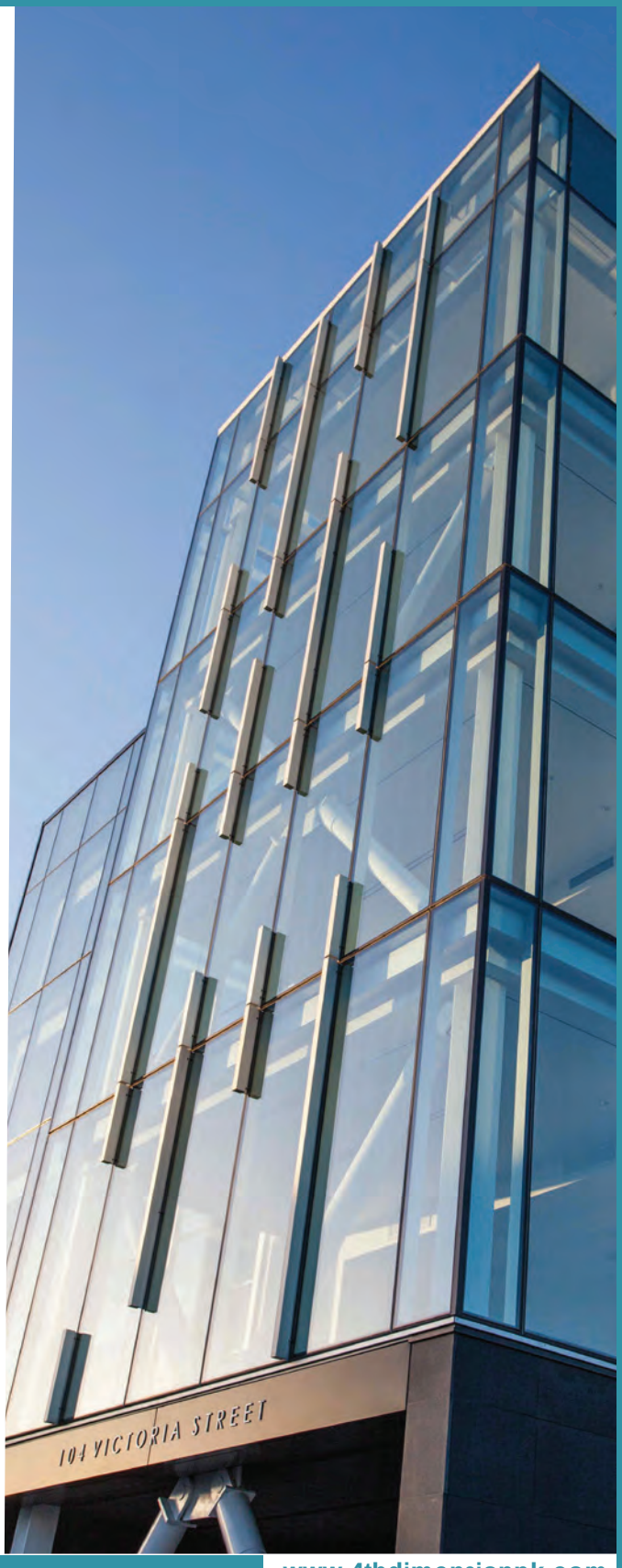


Project Objectives:

- Concept Development
- Façade Development
- 3D Animations
- Detailed Architectural Design
- Structural Design
- HVAC Design
- Electrical Services Design
- Plumbing / Services Design
- Mechanical Services Design
- Construction Management

OTHER SHOPPING / COMMERCIAL

- Rachna Center, Faisalabad (5 storeyed) 1996
- Jeddah Market Faisalabad.1994
- Pakistan Market Faisalabad. (6 Storeyed) 1993
- Zia Centre Faisalabad. (5 Storeyed) 1994
- Niaz Plaza Faisalabad. (4 Storeyed) 1994
- Ahmad Mansion Faisalabad. (5 Storeyed) 1995
- Office Building A.R.Sons Fsd.(4Storeyed)1995
- Heera Moti Center, Faisalabad.1996
- Paradise Centre Faisalabad.(5 Storeyed)1994
- Four Storeyed Rehman Jewllers Plaza1996
- Farooq Centre Faisalabad (5 Storeyed) 1997
- Offices & Ware House for WellCome
- Pakistan Ltd. Faisalabad.1995
- Mobilink, Faisalabad.1997
- Mobilinet, Lahore. 2000
- Jinnah Center, Faisalabad (5 Storeys) 2007





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Curriculum Vitae

Curriculum Vitae
Nadeem Khurshid – Socio-economic Expert

1. **Proposed Position:** **Soci-Economic Expert (National)**
2. **Name of Firm:** **4th Diemension Consulting Pvt. Ltd. Pakistan**
3. **Name of Staff:** **Nadeem Khurshid**
4. **Date of Birth:** 21-06-1969 **Nationality:** Pakistan
5. **Complete personal contact details:** +92 300 8656809 ; email: fourthdimen@hotmail.com
6. **Education**

Institution (Date from - to)	Degree / Diploma obtained
G. C. University, Faisalabad, Pakistan (2009-2011)	M. Phil. Environmental Policy & Assessments (with Distinction)
University of Engineering and Technology, Lahore, Pakistan. (1988-1992)	B. Sc. (City and Regional Planning)

7. **Membership in Professional Associations:** Member Pakistan Environmentalists Association, Pakistan (MPEA); Fellow Royal Institution of Chartered Surveyors, United Kingdom. (FRICS) ; Life Member Pakistan Council of Architects and Town Planners. (MPCATP); Member American Planning Association, USA. (MAPA); Fellow & Life Member Institute of Planners, Pakistan. (FIPP); Chief Editor, IPP e-Newsletter (2011-2016); Member International Association of Lions Club since 1997; Secretary General, Institute of Planners Pakistan (IPP), 2011-16; Member Executive Council, Institute of Planners Pakistan. 2007-2017

8. **Other Training:**
   - "Consultative Workshop on Amendments in Punjab Landuse Rules 2009 & Punjab Housing Schemes Rules 2010"- Presenter, Moderator & Organizer, jointly organized by the Punjab Local Government Department and the Urban Unit, May 2017.
   - "Training on Qualitative Research Methodologies & Data Analysis Using NVivo 11"- Organized by Urban Unit, Lahore. December 2016.
   - "Training on Public Procurement Procedures" organized by PPRA Punjab in Urban Unit, Lahore. April 2017.
   - "Technical Session on Urbanization" Moderator & Organizer-3rd Pakistan Urban Forum, Lahore Pakistan, Organized by Punjab Urban Unit, Lahore, December 2015.
   - International Conference on "Climate Change; Challenges & Opportunities" by Pakistan Council of Science, Islamabad, May 2012
   - "International Seminar on New Growth Strategy", jointly organized by Planning Commission of Pakistan and UNDP, Islamabad, May 2011
   - "Pakistan Urban Forum" by Punjab Urban Unit, Lahore, March 2011
   - "Application of GIS and GPS for Spatial Data Management"- A comprehensive training jointly offered by LCWU, Punjab EPD and UDERC Japan, June 2010.
   - "Planning Our Urban Future" on UN-HABITAT DAY at DCRP, UET, Lahore. Oct 2009.
   - "Mass Awareness on Conservation of Water Resources" by UNDP July 2009.
   - "Innovations in Urban Planning" by Institute of Planners Pakistan, Lahore. May 2007.
9. **Countries of Work Experience :** Pakistan
10. **Languages:**

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent
Punjabi	Excellent	Excellent	Good

11. **Employment Record**

From - To:	January 1998 - to date (Full Time) 20 years
Employer :	**4th Dimension Consulting Pvt. Ltd.**; a multidisciplinary private sector based consulting firm primarily working in development sectors such as Urban Planning, Urban Development, SEZ and Technology Parks Planning, Institutional Design, Architecture, Engineering Design and Environmental Management. Having offices in Lahore, Islamabad & Faisalabad, Pakistan. www.4thdimensionpk.com
Position held	CEO & Principal Urban Planning / Development Specialist
From - To:	May 2014 – May 2017 (Part Time) 3 years
Employer :	Urban Sector Planning & Management Services Unit (**The Urban Unit**), Lahore. Pakistan. www.urbanunit.gov.pk
Position held	Consultant / Senior Specialist (Urban Planning)
From - To:	June. 1993 – January 1998 (Full Time) 5 years
Employer :	M/s. A. Z. Associates (Architects, Engineers, and Planners), Faisalabad, Pakistan.
Position held	Associate Urban Planner

12. Detailed Tasks Assigned	13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
	Name of assignment*:* **Feasibility, Master Planning, Zoning, Infrastructure Design and Detailed Land Use Planning for the establishment of Science & Technology Park in Islamabad, Pakistan**. **Year**: 2017 ; **Location**:; Islamabad - Pakistan; **Client**: Ministry of Science & Technology, Pakistan **Main project features**: Area: App. 1000 kanal - Estimated Project Development Cost: App. 2500 million Pak Rupees. The objective of establishing a Science & Technology Park, Islamabad is to promote exploitation of knowledge developed at the CIIT, other universities and RDIs in Pakistan. The co-location of actors to innovation, mainly academia, industry and the relevant entities in the Government are likely to provide an enabling environment through adopting suitable policies and instituting incentive programs. The proposed Technology Park would provide a platform to bring the above stated actors to innovation closer for meaningful interaction. **Positions held**: **Lead Urban Environmental and Infrastructure Planner** **Activities performed**: Supervised Master Plan and Feasibility Study Development process as followed: (i) Carrying out on site and market demand assessments, (ii) Data Collection & Review: Review of Topographic Survey; Socio-Economic & Land use characteristics of area, Hydrographic Studies, Hydrology of the site (Sub Soil Water, Natural Runoff), Geo Technical Investigations, Geological Studies for Seismic safety, Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility etc. (iii) Presentation/Submission of Preliminary Feasibility based on conceptual Site Master Plan developed on the basis of studies conducted. (iv) Preparation of final/detailed Master Planning along-with development guidelines and strategies, (v) Preparation of final economic, financial and technical feasibility of the project
	Name of assignment*:* **Soon Valley Eco-tourism Master Plan 2035, Soon Valley,** **Year**: 2015 - 2016 ; **Location**: Pakistan. ; **Client**: Tourism Development Corporation of Punjab **Main project features**: Soon Valley, situated in the northwest of Khushab district of Punjab, is renowned for beautiful lakes, waterfalls, jungles, natural pools and ponds and also a declared RAMSAR wetland site. The land itself is environmentally sensitive and is among the ecologically pristine areas of the country that are rapidly shrinking due to human intervention. The Soon Valley Master Plan is the outcome of The Urban Unit who has worked in collaboration with the Tourism Development Corporation Punjab (TDCP). This plan would help to foster the development of ecotourism activities in this region. Project Objectives are as follows: (i) To develop Soon Valley as an eco-tourism site for Tourist and local visitors with availability of civic amenities, accommodation, restaurant shopping areas, recreational and other infrastructures. (ii) To maintain and enhance current tourism activities / facilities and development. (iii) To promote affordable, accessible and enjoyable domestic tourism and cultural and sports festivals; tourism. (iv) To incorporate environmental dimension into the planning of development activities in hilly areas. (v) To regulate development activities in hill areas in order to minimize unnecessary adverse impacts on the natural landscapes, surrounding areas and the environment. **Positions held**: **Deputy Team Lead / Urban Environmental Planner** **Activities performed**: Supervising and coordinating overall project activities. In charge of Master Plan preparation. Supervising field studies and data collection Report Writing Carrying out Environmental Sensitivity Analysis for development of land use proposals Development of land use plans and strategic directions to carrying out development projects Development of site specific eco-tourism proposals and action plans
	Name of assignment*:* **Punjab Spatial Strategy 2040, Punjab, Pakistan** **Year**: 2016-17 , **Location**:; Punjab, Pakistan **Client**: Government of Punjab / **Workd Bank's Jobs & Competetiveness P4R Program** **Main project features**: The Planning and Development (P&D) Department of the Government of Punjab has embarked upon the process of developing a Punjab Spatial Strategy (PSS) to complement the Punjab Growth Strategy in close collaboration with relevant departments, local governments, communities, and stakeholders. The aim of the strategy is to coordinate and align public investments across various sectors over the course of the next twenty years. Project activities include carpet data collection and developing a GIS-based spatial canvas of the province for further analysis and core strategy development. The process has been planned over 2 years. **Positions held**: **Lead Urban Planner (Settlements)** **Activities performed**: Supervised and lead the Settlements component for study design and execution, developing PC II and project documents as guided by PAD, data assemblage, and analysis, core and sectors strategy development: project

activities also include development of baseline documents and the studies required to develop core strategy involving a diverse team of urban sector professionals working collaboratively towards development of strategy.

Name of assignment: Development of a Comprehensive Sub-national Urban Planning Framework for Punjab(
Year: 2016-17 , **Location**:;Punjab, Pakistan **Client**: **World Bank**
Main project features: Cities in Punjab, in general, have fragmented bits of legislation for urban management, no comprehensive town planning framework exists like Town and Country Planning Act 1947 of the UK and similar legislation in other countries, which they have devised decades ago to guide, direct, authorize and legitimate local/city governments to plan, manage and enforce. The planning process is a fundamental function of urban planning & management practices and should result in the best possible degree of need satisfaction within the given resources available. It is also evident from world's best urban planning practices that a holistic urban planning and management framework is the only way forward for the province of Punjab to have a long-term sustainable future of cities. In addition, this framework must have its essential all constituent components like sub-national policies, urban and regional planning law, master plans and/or local plans for cities and towns and robust institutions with appropriate plan led uniformly applicable zoning and building control rules and regulations.
Positions held: **Lead Urban Planner**
Activities performed : As a lead Urban Planner for the development of a comprehensive urban planning legal framework in the Punjab, I have been involved in studying the world best practices, evaluating existing scenario of urban planning and management in the province, consultations with the stakeholders and developing a situational narrative, a conceptual framework, and a draft of the foundation framework needed for the development of a legal tool. Responsibilities also embraced consultative meetings with stakeholders both in public and private sector and liaising with the legal experts working to translate foundation framework into the legal draft so that the draft is presented to the lawmakers at the provincial Assembly for approval and subsequent enactment.

Name of assignment*:* **Evaluation of SEZ Developments in Punjab, Pakistan**
Year: 2016-17 , **Location**:; Different locations in Punjab **Client**: Board of investment and SEZ Authority, Govt. of Punjab
Main project features: The government of Punjab recently initiated to promote the development of industrial zones under federal SEZ Law and Rules. Different public and private sector sponsored zones are coming up in Punjab including the Quaid e Azam Apparel Park, Value addition city, the M3 Industrial Estate, Faisalabad and others across the Punjab
Positions held: **Lead Evaluator**
Activities performed Lead a team in the Urban Unit to evaluate and validate all these applications as per SEZ Law and Rules. Systematic evaluation and validation of zone applications including the physical layout plans, planning standards, business models, development phasing & models, infrastructure development plan & design, environmental studies & assessments inter-alia. This task was jointly carried out in coordination with Punjab SEZ Authority established within Punjab Board of Investment & Trade (PBIT) and after this validation process the Chief Minister Punjab approved these industrial parks and granted the status of SEZs for business concessions.

Name of assignment : Punjab Intermediate Cities Investment Improvement Program (Phase 1) for Sialkot & Sahiwal, (ADB funded project under PICIIP)
Year: 2015-16 ; **Location**:; Sahiwal, Sialkot, Pakistan **Client**: Govt. of Punjab
Main project features: The Asian Development Bank's (ADB's) Punjab Intermediate Cities Improvement Investment Project (PICIIP)- Phase 1 was initiated to improve the quality of life of the residents living in intermediate cities of Punjab with a total investment by ADB of $200 million. The PICIIP is expected to address urban development challenges at city level including integrated planning, improved urban infrastructure, improved institutional framework for urban services and strengthened utility business processes. The PICIIP phase 1 was focused on two intermediate cities of Punjab, Sahiwal and Sialkot and interventions were focused to improve the urban planning and development scenarios of these urban archipelagos with enhanced, planned and more focused investments in urban infrastructure development.

Positions held: **Urban Planner (Client Side) for back-end review of consultant's input**
Activities performed
Coordination with the consultants and the government departments, arranging presentations for the consultants

Review and technical feedback to the CEO Urban Unit on the consultant's intermediate and final submissions for both cities in local, regional and national urban planning and development context.

Name of assignment*:* **Development of New Economic City in Punjab, Pakistan**
Year: 2015-16 , **Location**:;Punjab, Pakistan **Client**: Govt. of Punjab through Urban Unit / **World Bank**

Main project features: In 2015, the Government of Punjab intended to develop a New Economic City of around 2 million inhabitants along Motorway M-2 corridor and expects that could address the issues raised above through demand-driven site selection, future-oriented planning, and good urban management. The New Economic City is expected to mitigate unplanned urban sprawl, congestion, saturation, and poverty (including slums) [2] and other primary urban centers of Punjab, which is expected to have an additional 20 to 40 million residents in the next 20 years. New Economic City is envisaged be a green-field smart and sustainable development and could be properly master planned for its services, infrastructure, and governance.

Project objectives were as follows: Attracting sustainable long and short-term investment (foreign or domestic, large-scale or small) and other economic outcomes derived from this; Development of diversified industrial, urban and real estate/housing sectors and support infrastructure to mobilize employment to sustain long-term economic growth in the Province; Planning concepts and practices that promotes economic growth, livability, sustainability, and resilience; and Expanding opportunities for diverse work-live-play activities in the region.
Major Project Activities include: Development of planning guiding principles for city ; Development of conceptual master plan ; Developing business model for the proposed development ; Development of PC II, TORs for hiring international consultants to carry out pre-feasibility, feasibility and master planning of the proposed development ; Evaluation of consultant's deliverables
Positions held Technical Leader (Client Side-Urban Unit)
Activities performed:

- Overseeing the project development process as client side Technical Team Lead.
- Overseeing the consultant hired for carrying out prefeasibility for the project, evaluating their deliverables and coordinating with the government departments.
- Coordination with World Bank missions and other stakeholder departments
- Developing ToRs,project documents, PCII, and contract documentsfor sourcing out consultancies
- Supervising consultants activities in carrying out prefeasibility studies
- Conducting stakeholder consulataions across the country
- Review of the consultnats submissions

Name of assignment: **Development of Punjab Housing, Slums and Regeneration Policy**
Year: 1016-17 , **Location**:;Lahore, Punjab **Client**: Urban Unit for Govt. of Punjab, Pakistan
Main project features: The concept of evictions through bulldozing and relocation/resettlement, as was done in the past is now being considered cruel and inhumane. Further, resettlement from urban centres to some outskirts costs more and results in development of more slums drawing the poorest of the poor back near to their livelihood sources. Most of the nations and International development organizations have accepted the fact that Slums and Katchi Abadis (Squatters) are a result of poorly planned urban sector and malfunctioning housing sector, where slums play an important role in the urban life by providing low cost labour, sanitary services and other low skilled informal services. Moreover, it has also been accepted that slums and squatters' dwellers need to be given some form of preferential treatment which may vary in terms of a subsidy or cross subsidy based on free of charge accommodation or efforts to improve the slums' standard of living.
Within this overarching vision of Housing for All by 2030 and the aim of a Slums and Squatter Free Punjab
Positions held: **Lead Urban Planner**
Activities performed : Supervising and coordinating overall policy development activities
Liasing with the stakeholder departments and holding meetings and consultation sessions.
Developing ToR and contract documents for engagement of consultants.
Development of action plan for submission to govt departments

Name of assignment: **Assessment of Regulatory & Institutional Framework for Urban Planning and Management in Khyber Pakhtunkhwa, Pakistan** (A USAID-funded project and implemented by The Urban Policy Unit, KPK.)
Year: 2014-16 , **Location**:;Peshawar, KPK **Client**: Govt. of KPK, Pakistan
Main project features: The primary objective of this project was to formulate the recommendations in the legal and institutional framework for addressing gaps and constraints, which impede urban development, urban management, land use planning, and housing provision in the cities of KPK.
Positions held: Team Lead / Urban Development Specialist
Activities performed : Supervising and coordinating overall project activities as lead Urban Development Specialist.
Carrying out situational analysis through indepth engagements with stakeholder departments inter-alia

Name of assignment: **Transport Modelling and Feasibility Studies for Development of Mass Transit System in Faisalabad, Pakistan**

A project of Punjab Mass Transit Authority (PMA),

In association with M/s. Osmani & Company (Pvt) Ltd., Karachi, Pakistan and ADK Greece.
Year: 2014; **Location**: Faisalabad, Pakistan ; **Client**: Punjab Mass Transit Authority, Govt. of Punjab, Pakistan

Main project features: The government of the Punjab, with a vision to improve mobility and accessibility of masses in prime cities of Punjab, initiated development of BRT models. Lahore being the pioneer and a success triggered initiatives for other cities like Faisalabad, Rawalpindi, Islamabad, and Multan. The project embraces following main activities;
Positions held: **Team Lead**

Activities performed Transportation system and infrastructure studies including: Origin/Destination Studies on Cordon and Screen Lines, Traffic Counts, Household Information Surveys, Travellers Information Surveys, Boarding Alighting Studies, Willingness to pay surveys, Land use registration along different corridors, Road and Intersection Geometry Registration

Turning Movement Counts, Data Digitization, Data Analysis and travel demand forecasting by using modeler CUBE, Priority Corridors identification

Name of assignment: **Master Planning, Engineering Design and Project Management of EOBI Enclave, Lahore, Pakistan -** A mixed-use, multi-density housing project of Employees Old Age Benefits Institute, Pakistan at Thokar Niaz Baig, Lahore. A Joint Venture Project with M/s. ICON A & D, Islamabad.
Year: 2013-15; **Location**: Lahore Pakistan ; **Client**: EOBI, Islamabad, Govt. of Pakistan
Main project features:
Positions held: **Lead Urban Planner**
Activities performed :
Preparing bid proposals
Developing project planning
Supervising and coordinating overall project as Technical Team Leader / Urban Planner
Development of conceptual plans
Development of detailed master plan
Landscape planning
Infrastructure development planning
Carrying out environmental assessments
Holding meetings with the client presenting on project development
Liasing with the clientand other concerned government desprtments.

Name of assignment : Faisalabad Peri-Urban Structure Plan 2034, Faisalabad, Pakistan Under World Bank's Punjab Cities Governance Improvement Program (PCGIP)
Year: 2013-14 ; **Location**: Faisalabad, Pakistan ; **Client**: Urban Unit, Lahore / World Bank

Main project features: The government of the Punjab, with the financial assistance from World Bank, is implementing "Punjab Cities Governance Improvement Project" (PCGIP). The project is focused on the strengthening of systems and governance improvement for enhanced service delivery and will be implemented in five large cities.i.e. City District Governments (and entities) of the Punjab which include Faisalabad, Gujranwala, Lahore, Multan, and Rawalpindi. A total financial outlay of the project is US$ 150 million for five years. Preparation of Peri-Urban Structure Plans of mentioned five major cities of the Punjab has been identified as a major activity component of PCGIP. Faisalabad city takes a lead and project is underway.

Positions held: **Team Lead & Urban Planning Specialist**
Activities performed:

- Lead and coordinate the multidisciplinary team including urban planners, GIS Analysts, Modellers, Transport Specialists,Environmentalists and field enumerators.;
- Provide inputs on matters of urban planning and governance to the City District Government and administration
- Assessing the data requirements and collection methodologies
- Supervising the GIS Technical Support Team's work
- Identify and manage risks associated with project implementation
- Coordination of all activities relating to the project
- Building a robust and healthy relationship with partner institutions
- Assess planning and policy development process and links to governance and service delivery
- Based on team inputs, undertake an overarching institutional analysis of urban planning practices in Faisalabad
- Contributing in the Technical Report submissions on urban planning issues
- Attend meetings and stakeholder's consultations
- Proposal development by employing GIS decision support system and spatial analysis/modeling tool through GIS analysts

Name of assignment: **Master Plan to Develop Murree as a Pollution Free Tourist Town 2031, Murree, Pakistan**
Year: 2011-2013 ; **Location**: Murree, Pakistan ; **Client**: Tourism Development Corporation of Punjab, Pakistan

Main project features:
Main projects objectives were as follows: (i) to Develop Murree as a Pollution Free Tourist Town for Tourist and local visitors with the availability of civic amenities, accommodation, restaurant shopping areas, recreational and other infrastructures. (ii) To maintain and enhance current tourism activities / facilities and development. (iii) To promote affordable, accessible and enjoyable domestic tourism and cultural and sports festivals; tourism. (iv) To incorporate environmental dimension into the planning of development activities in hilly areas. (v) To regulate development activities in hill areas in order to minimize unnecessary adverse impacts on the natural landscapes, surrounding areas, and the environment.
Main project activities were as follows: Project Planning & Work Plan Organization ; Desk & Field Studies ; Project Visioning ; Situational Analysis ; Data Analysis using Multivariate Data Analysis Models ; Problem identification ; Development of an integrated GIS for future management of city ; Projected Model Development ; Policy Framework Development ; Stakeholder Consultation Workshops ; Sector Plans Development ; Action Plans Development ; Carrying out Strategic Environmental Assessment (SEA) of the plan to ensure sustainability ; Policy Implementation Framework development

Positions held: **Technical Team Leader**
Activities performed

Name of assignment: **Land use Planning and Project Management of Mediacom Avenue**
Year: 2006 - 2008 , **Location**: Pakistan; **Client**: Mediacom Group Of Companies and Woodbury Developers, Faisalabad
Main project features: Urban planning and preparation of infrastructure plans for ready built town housing projects comprising more than 500 housing units
Positions held: **Urban Planner & Project Manager**
Activities performed: Preparing bid proposals
Developing project planning
Supervising and coordinating overall project as Technical Team Leader / Urban Planner
Holding meetings with the client presenting on project development
Supervising design team in developing cocept proposals, master planning, consducting environmental assessments and detailed design.
Supervision and management of the project execution phase

Name of assignment: **Land use Planning, Rehman Gardens (200 Kanals)**
Year: 2003 , **Location**: Pakistan; **Client**: Al Rahman Developers, Faisalabad,Pakistan
Main project features: Site Master planning,infrastructure and landscape design
Positions held: **Urban Planner & Project Manager**
Activities performed: Developing project planning
Supervising and coordinating overall project as Technical Team Leader / Urban Planner
Holding meetings with the client presenting on project development
Supervising design team in developing cocept proposals, master planning, consducting environmental assessments and detailed design.
Supervision and management of the project execution phase.

Name of assignment: **Site Planning and Project Management for upgardation of Coca Cola International's Facility in Faisalabad.**
Year: 1999-2000 , **Location**: Faislabad, Pakistan; **Client** Coca Cola International, USA
Main project features: Urban planning and preparation of infrastructure planning
Industrial Facility
Positions held: **Site planner / Project Manager**
Activities performed: Preparing Site Planning Proposal, bid documents, BoQs etc.
Developing project planning
Supervising and coordinating overall project
Holding meetings with the client presenting on project development
Supervising design team in developing cocept proposals, master planning, and supervising onsite execution activiites

Name of assignment: **Site Planning and Master Planning of number of housing and industrial projects of varying sizes in Faislabad-the 3rd largest cityof Pakistan**
Year: 1994-2000 , **Location**: Faislabad, Pakistan; **Client** Industrial Concerns and housing developers
Main project features: Site Planning, detailed infrastructure planning and design
Positions held: **Site planner / Project Manager**
Activities performed: Preparing Site Conceptual Proposal, Site Plans, Detailed Engineering design, BoQs etc.
Developing project planning
Supervising and coordinating overall project
Holding meetings with the client presenting on project development
Supervising design team in developing cocept proposals, master planning, and supervising onsite execution activiites

Date: May 18, 2018



Nadeem Khurshid

References:

Dr. Rizwan Hameed, Chairperson DCRP UET, Lahore
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Mr. Anwar Hussain Ch.
Cheif, H&PP, Planning Commission of Pakisatn, Islambad.
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SAHIWAL – PAKISTAN
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Phone: Home: # 404508124 Mob. # 3217201056
Present Position: Environmental Specialist 4th Dimension Consulting Faisalabad

QUALIFICATIONS

Certificate/Degree	Board/University	Year	Main Subjects
Ph.D.	University of Bradford, UK	1997	Environmental Science
M. Phil.	Q.A.U. Islamabad	1988	Ecology

TECHNICAL EXPERTISE

- Ecological resource survey, analysis and monitoring
- Socio-environmental monitoring and evaluation of development plans/projects
- Landscape ecological studies of roads, railways and water reservoirs
- Ecological Impact Assessment (EIA) of projects,
- Strategic Environmental Assessment (SEA) of policies/plans
- Planning and implementing research plans and projects in environmental science
- Development and implementation of training programs (preparation of training manuals, conducting/arrangement of training sessions, evaluation of training programs)
- Planning/managing and arranging meetings/training workshops/seminars etc
- Questionnaire design and surveys
- Preparing working papers/reports
- Evaluating and monitoring plans/policies

COMPLETED RESEARCH PROJECTS IN SOCIO-ENVIRONMENTAL FIELDS

- Assessment of Scenic Beauty of Roadside vegetation in northern England
- Social and Ecological evaluation of Lahore-Islamabad Motorway (M-2)
- Study of public awareness levels about littering and its hazards in Faisalabad
- Study of knowledge, attitudes and perception of school teachers and students about environment and environmental issues
- Assessment of occupational safety levels in poultry farms in Faisalabad
- Patterns of domestic energy consumption in rural areas in Sahiwal

- Teaching courses on environmental science including topics of climate change, its causes, impacts with particular reference to implications of climate change for Pakistan
- Research publications on various impact of climate change
- Research publications on different aspects of Sustainable development (role of universities and other sectors of society, sustainable agriculture, sustainable transport, Conservation of plant diversity, environmental education etc)
- Supervised more than 50 M.Sc./M.Phil./Ph.D research projects on plant ecology, ethno-botany, environmental pollution, conservation some of which included public survey, questionnaire survey etc

EXPERIENCE WITH INTERNATIONAL ENVIRONMENTAL ORGANISATIONS

- 2013-2018 Working with **European based Infra Eco Network Europe (IENE)** for sustainable road-transport systems in the world
- 2009-2018. Working with International **Botanical Gardens Network** to conserve urban and local flora
- 2000-2009: Participated in the activities of Commission for Science Technology in South **(COMSATS)** in promoting science & technology, renewable energy and sustainable development
- 1998-2005 : Participated in **World Wildlife Fund (WWF) Pakistan**, activities to conserve forests, medicinal plants and other biological resources
- 1998-2007 Served as Guest Faculty and Training Consultant for **LEAD-Pakistan,** an international NGO working for leadership in environment and development

SUPERVISED RESEARCH PROJECTS (M.Sc./M.Phil/Ph.D)

- Supervised more than 50 B.S/M.Sc./M. Phil./Ph.D research projects/theses on ecological studies, ecological evaluation of roads/motorways, pollution monitoring, environmental impact assessment, environmental education and ethics, environmental management, solid waste management, landscape studies, and urban ecosystem services etc.

CONSULTANCY EXPERIENCE

- Participated as Environmental Planner/consultant for preparation of environmental profile of Faisalabad as an integral component of **Faisalabad Peri-Urban plan 2034**
- Participated as environmental planner/consultant for Tourism Development Corporation of Punjab Project, **"Preparation of Master Plan for the Development of Murree as a Pollution Free Tourism Town""** with **Fourth Dimension Consultants, Faisalabad**
- Served as **Training Consultant** for the Asian Development Bank Project on **Participatory Environmental Management, Environmental Conflict Resolution and Public Interest Litigation** taken by LEAD-Pak

- Participated in TRANSECOS project of the Irish Higher Education Authority on **Sustainable Transport for the 21st Century**
- Served as resource person for WWF-Pak Ethnobotany projects on **Conservation of forests and medicinal plants**
- Worked as consultant for LEAD-Pakistan project on **Ecology of Urban Corridors**

ORGANISATIONS/AWARDS

- **Awarded Research Productivity Award by Pakistan Council For Science and Technology, 2014.**
- Member, International Ecological Society (INTECOL)
- Member Society for Conservation Biology USA
- Member, British Ecological Society, UK.
- Member, Pakistan Botanical Society, Pakistan.

PROFESSIONAL TRAINING RECEIVED

- 2013 **Information Technology skills for Officers**
  Management and Professional Development Department, Govt. of the Punjab, Lahore
- 2013 **Office Management**
  Management and Professional Development Department, Govt. of the Punjab, Lahore
- 2012 **PEEDA ACT 2006**
  Management and Professional Development Department, Govt. of the Punjab, Lahore
- 2012 **Project Management**
  Management and Professional Development Department, Govt. of the Punjab, Lahore
- 2008 **Climate Change and Natural Resource Management**
  Space & Upper Atmosphere Research Commission (SUPARCO) , Lahore
- 2007 **Advances in Ecology**
  University of agriculture Faisalabad
- 2007 **Alternative energy technologies and business opportunities**
  ENERCON, Islamabad
- 2000 **Implementation of ISO 14000 in Industry**
  COMSATS, Islamabad

RESEARCH PUBLICATIONS (>400 citations)

Environmental Planning & Sustainable Development

1. **Road Transport Infrastructure development under China-Pakistan Economic Corridor Program: Implications for biodiversity and ecological conservation**
   Akbar, K.F. 2016
   In: Proceedings of Fifth IENE Conference, Lyon, France

2. **Sustainable supply of fuel wood for the rural areas of Pakistan: Farm forestry as a renewable energy system. 2005**
   Akbar, K.F.
   COMSATS series on S&T. ***2005*** No.4:55-58.

3. **Role of different sections of society in sustainable development and environmental management in Pakistan. 2004**
   Akbar, K.F.
   Science, Technology & Development ***2004*** ***Vol. 23(2): 21-24***

4. **The role of universities in S&T capacity building for sustainable development**
   Akbar, K.F. **2003**
   Science Vision. **8 (3&4): 70-72**

5. **Moving towards sustainable development: Role of universities**
   Akbar, K.F. **2001**
   Science, Technology & Development ***Vol 20 (4):1-7***

6. **Environmental Crisis and Religion: The Islamic View 1992**
   Akbar, K.F.
   Islamic Thought & Scientific Creativity ***Vol. 3(1): 23-30***

Climate Change

7. **Digital image analysis of seed shape influenced by heat stress in diverse bread wheat germplasm 2017**

   Muhammad Jamil, Aamir Ali, Abdul Ghafoor, **khalid Farooq Akbar**, Abdul Aziz Napar , Naima Huma Naveed, Nasim Ahmad Yasin, Alvina Gul and Mujeeb-kazi

   Pak. J. Bot., 49(4): 1279-1284, 2017.

8. **Climate change and Conservation of Plant Resources of the Hilly Areas of Azad Kashmir.**

   Akbar, K.F. ***2016***

   Journal of Mountain Area Research*. Vol.2: 2016*

9. **Soils of domestic gardens help combat climate change in our cities: a case study from Sahiwal.**

   Akbar. K.F and Javed. S. ***2017***

   Urban Geographics.(Accepted for Publication)

10. **Relationship among water use efficiency, canopy temperature, chlorophyll contents and spot blotch (*Cochliobolus sativus*)resistance in diverse wheat (Triticumaestivum L.) germplasm. 2016**

Jamil, M., Ali, A., **Akbar, K.F**., Napar, A.A., Hussain, S., Mahmood, Z., Asad, S., Hidayat-ullah, Khan, Z., Kazi, A.G., Mujeeb-Kazi, A.
Pakistan Journal of Botany 2016 Vol. 48(3):993-998

11. Exploitation of new genetic resources for water use efficiency and spot blotch (*Cochliobolus sativus*) resistance in bread wheat. 2014

M.Jamil; A. Ali, S. Hussain; A.A. Napar; K.F. Akbar;S. Asad; A.G. Kazi and A.M. Kazi.

Annual Wheat News Letter. ***2014*** Vol. 60: 60-62.

12. Biofuels, Phytoversity and global warming: a review

Akbar, K.F. 2009
Proceedings of International Symposium on Compatible with Climate Change. (Ed. Bhatti, GR & Soomro SA.) University of KhairPur: 165-170

Urban Environmental Management

13. Analysis of urban forest structure, distribution and amenity value: a case study 2014

Khalid. F. Akbar; I. Ashraf and S. Shakoor. **2014**

Journal of Animal and Plant Sciences. 2014 Vol.24(6): 1636-1642

14. Identifying eco-tourism potential in Murree: The most popular hill station of Pakistan.

Akbar, K.F. 2012
Role of Botanic Gardens in conserving natural vegetation. Proceedings of 3rd Pakistan Botanic Gardens Conference: Khan.A.U (ed.): 188-190.

15. Management status of urban parks in Faisalabad City.

Ashraf, I., **Akbar, K.F**. &Mazhar, M**. 2012**

Role of Botanic Gardens in conserving natural vegetation. Proceedings of 3rd Pakistan Botanic Gardens Conference: Khan.A.U (ed.) 135-137

16. Urban Corridors: Ecology of Roadside vegetation in Sahiwal City

Akbar, K.F 2000
LEAD-Pakistan. Occasional Paper no. 7. P.22

17. Phytosociological study of the Quaid-i-Azam University Campus. Islamabad

Akbar, K.F. & Ahmad, T. 1991
Pak. J. Agri. Research: Vol. 12(4): 264-274.

Environmental Conservation

18. **Evaluation of conservation status of roadside verges and their vegetation in north England.** **2010**
    Akbar, K.F; WHG Hale; AD Headley & Ashraf, I
    Polish J. Ecology; 2010 Vol.58 (3):409-418

19. **Taxonomy and conservation of medicinal plants in canal-irrigated areas of Punjab**
    Akbar, K.F. & Athar M. 2006
    SIDA , 2006 Vol. 22(1):593-607

20. **Research for conservation of medicinal plants: some key considerations in granting and managing research projects**.
    Akbar, K.F. **2003**
    Proceedings of International workshop on conservation and sustainable use of medicinal and aromatic plants of Pakistan. (Ed. Ahmad, H & Khan, A.A.): 115-118.

Environmental studies of Infrastructure Development Projects

21. **Phytometric assessment of fertility of roadside soils and its relationship with major nutrients.** **2012**
    Akbar, K.F. WHG Hale, Sera B; Ashraf I**.**
    Polish Journal Environmental Studies; 2012 Vol. 21(5): 11-14

22. **Some Preliminary studies of plants and pollutants along Pindi-Bhattian _Faisalabad Motorway (M-3) (Pakistan).** **2011**
    Akbar, K.F, Maqbool, S, Ashraf I, Ansari TM & Ahmad SS.
    Pak. J. Botany; 2011 Vol.43 (5): 2347-2350

23. **Multivariate classification and data analysis of vegetation along Lahore-Islamabad motorway (M-2), Pakistan.** **2010**
    Ahmad, S.S, Wahid, A& **Akbar, K.F**.
    Pak. J. Botany. 2010 Vol. 42(2): 1173-185

24. **Floristic composition and environmental determinants of roadside vegetation in north England.** **2009**
    Akbar KF; WHG. Hale, AD Headley
    Polish J. Ecology; 2009 Vol. 57(1):73-88

25. **Baseline study of vegetation along Lahore-Islamabad (M-2) Motorway and its fertility status**. **2004**
    Ahmad, S.S, Ahmad, T & **Akbar, K.F**
    ***Journal of Applied Sciences*. 2004 Vol. 4(2): 266-270.**

26. **Assessment of scenic beauty of the roadside vegetation in northern England**

Akbar, K.F.; Hale W.H.G & Headley A.D **2003**
Landscape & Urban Planning; Vol. 63(3):139-144

27. **An ecological study of roadside vegetation and soils in Sahiwal District**
Akbar, K.F; Ahmad Z; Shad M.A. & Ansari, T. **2003**
On line J. of Bio. Sci: Vol. 3(7): 627-634.

Environmental Pollution

28. **Heavy metal contamination of roadside soils of northern England 2006**
Akbar, K.F.; WHG Hale; AD Headley & M. Athar
Soil & Water Research; 2006; Vol. 1(4): 158-163

29. **A comparative study of de-icing salts (sodium chloride & calcium magnesium acetate) on the growth of some roadside plants of England. 2006**
Akbar, K.F.; WHG Hale; AD Headley & M. Athar.
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Bio-resource Ecology

30. **In vitro anthelmintic activity of crude extracts of ethnobotanically important wild plants against *Haemonchus contortus* (Rudolphi 1803). 2016**

Ahmad Ali, Faiz Ahmad Joyia, **Khalid Farooq Akbar**, Zaheer-ud-Din Khan

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31. **Phytosociological survey of Ground Flora in Chichawatni Forest. 2007**
M. Akram, **Akbar, K.F**., M. Riaz.
Pakistan J. Science, 2007 Vol 59(3-4): 100-115

32. **Use of plants as indicators of soil conditions 1984**
Akbar, K.F.
Science, Technology & Development Vol. 3(6): 21-22

Other Topics

33. **Chemical Warfare 1990**
Akbar, K.F.
Pak. Army Journal. XXXI(1): 20-25

34. **Biological Warfare 1989**
Akbar, K.F.
Pak Army Journal XXI(1): 42-47.

35. **Some social and legal problems associated with development of biotechnology**
Akbar, K.F. 1987
Science, Technology & Development 1987 Vol. 6(1): 1-3.

36. **Research and Development Priorities in Biotechnology for Pakistan 1987**

Akbar, K.F.
Science, Technology & Development: Vol. 6(4): 12-19.

37. **Biorevolution and the Islamic World** **1986**
Akbar K.F
Science, Technology & Development. **5(1):29-34.**

38. **Energy Crisis: A strategy for the Muslim World** **1984**
Akbar, K.F.
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REFERENCES

1. **Dr. W.H.G. Hale.**
Division of Archaeological, Geographical and Environmental Sciences
University of Bradford,
Bradford, BD7 1DP. UK
44 1274234229
Email: W.h.g.hale@bradford.ac.uk

2. **Prof. Dr. Tariq Mahmood Ansari**
Dean, Faculty of Science
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Dr. Muhammad Azam
Environmental Economist
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Mailing Address: Fourth Dimension Consulting Peoples Colony Faisalabad

Phone: Mob. # 3336208780

Present Position: Part-Time Economic Consultant

QUALIFICATIONS

Certificate/Degree	Board/University	Year	Main Subjects
Ph.D.	Federal Urdu University Islamabad	2017	Economics
M. Phil.	Pakistan Institute of Development Economics (PIDE) Islamabad	2010	Economics

TECHNICAL EXPERTISE

- Monitoring and evaluation of development plans/projects
- Sustainable development
- Macro-eoconomic and institutional analysis
- Economic and political institutions
- Economic evaluation of policies and plans
- Law and sustainable development
- Sustainable energy and economic policies

PROJECTS/RESEARCH EXPERIENCE

- Energy, economic growth and environmental degradation
- Inter-relationships and constraints in institutional dynamics and sustainability
- Social safety networks and women empowerment
- Role of Market and corporate institutions in environmental sustainability

ORGANISATIONS/AWARDS

- Awarded HEC award for Ph.D studies

REFERENCES

- Dr. Nasir Iqbal Research Director
  BISP Program Islamabad
  nasir@pide.org.pk

CURRICULUM VITAE (CV) FOR NATIONAL PUBLIC FINANCE EXPERT

1. **Proposed Position**: Public Finance Expert

2. **Name of Firm**:

3. **Name of Expert**: Muhammad Khalil-ur-Rehman

4. **Date of Birth**: 13th March 1970 **Citizenship**: Pakistan

5. **Education**

INSTITUTION	Degree	Subject	Date
Institute of Cost & Management Accountants of Pakistan	FCMA	Strategic Financial Management, Management Accountant, Financial Accounting & Reporting, Audit & Assurance etc.	2003
University of the Punjab, Lahore Pakistan	Bachelor of Commerce	Accounting, Finance, Economics, Banking Currency & Finance etc.	1990

6. **Membership in Professional Associations**:
Cost and Management Accountants of Pakistan

7. **Other Trainings:**
Audit Command Language

8. **Countries of Work Experience**:
Pakistan
9. **Languages**:
English
Urdu

10. **Employment Record**:

From June 2018 To date

Employer: 4th Dimension Consulting (Pvt) Ltd
Positions held: Financial/Feasibilities Consultant

From 2015 To 2018

Employer: Program Monitoring Unit (PESRP-PMIU) World Bank funded Project
Public Consulting (Pvt) Ltd
Positions held:Internal Audit Specialist/ Financial Consultant

From 2007 To 2014

Employer: PIFRA (Project to Improve Financial Reporting & Auditing) Govt. of Pakistan & World Bank project

Positions held: Quality Management Specialist /Audit Expert

From 2005 To 2007

Employer: Rehan Rashid Chartered Accountants

Positions held: Director Consulting Services

From 2001 To 2005

Employer: Rupali Group

Positions held: Deputy Manager System

11. Detailed Tasks Assigned

- Coordinated Financial Management Cell (FMC) to improve Public Financial Management by upgrading financial planning and budgeting in the Punjab School Education Department (SED) and its allied agencies and districts;
- To assess Public Financial Management through PEFA frame work (Public Expenditure and Financial Accountability assessment frame work 2016);
- Preparation of Budget Execution Reports for entire Punjab education sector;
- To work closely with World Bank, Finance Department, P&D, stakeholder organizations, consultants and others to oversee compliance with relevant rules and regulations regarding financial transactions under PESPIII.
- Preparation of OBB/ MTBF / MTDF budget statements
- Determining the outputs and outcomes indicators in close liaison with donors and Roadmap team and the PMIU for OBB
- Introduced and implemented Risk Based Auditing in Punjab Vocational Training Centre (PVTC);
- Developed and implemented Quality Management Framework based on ISQC 1 to introduce structure approach of audit in Public Sector Institutions.
- Conducted SAP Data Sufficiency Analysis in the office of the Accountant General Pakistan Revenue (AGPR);
- Implemented Risk Based Auditing in office of the Directorate General Audit Revenue Receipt;
- Trained more than 200 staff members to implement Financial Audit Manual (FAM) / Risk based Auditing in various offices of Auditor General of Pakistan;
- Applied CAATs (Audit Command Language) during system audit of Federal Board of Revenue (FBR);
- Developed Internal Control Procedures for Receivables & Sales management, Accounts payable & procurement etc. in Rupali group.
- Successfully coordinated with other industry leaders in polyester sector to prepare and fight anti-dumping case before National Tariff Commission for the imposition of regulatory duty;
- Developed and implemented integrated Financial Reporting and Cost Accounting system in Interwood Mobel (Private) Limited.

12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned

Name of assignment or project: Project to Improve Financial Reporting & Auditing in

Pakistan

Year: 2007-2014

Location: Pakistan

Client: Auditor General of Pakistan & World Bank

Main project features: Implementation of SAP & Risk Based Auditing in Pakistan

Positions held: Quality Management Specialist /Audit Expert

Activities performed: Financial Management trainings to Staff, Implementation of Risk based Auditing in public sector , Implementation of Financial Planning in public Sector.

Name of assignment or project: Financial Consultancy for various Clients

Year: 2005-2007

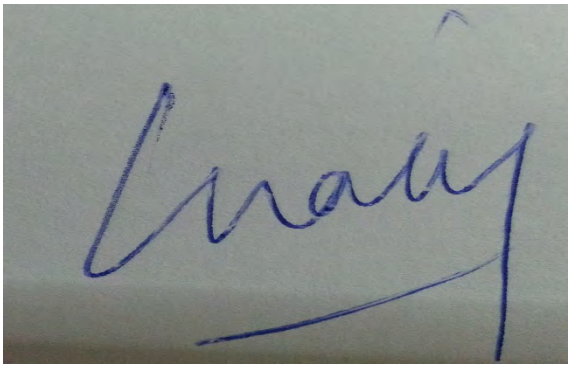
Location: Lahore (Pakistan)

Client: Daewoo Pakistan / Interwood Mobel (Pvt) Ltd & Various Clients

Main project features: Providing Financial Management solutions/ Business development strategies for clients etc.

Activities performed: Preparation of various Business Plan, Feasibility studies, Financial Reporting system, Implementation of ERP

Signature



13. Reference

Mohsan Atta
Director General Accounts Works
AG, Punjab Lahore
042-99210157 ,03004415520

Muhammad Amir Usman
Director General Audit (Civil Audit Punjab)
AG, Punjab Lahore
03054433108

Curriculum Vitae
Raheel Zafar – Research Associate

1. **Proposed Position:** **Research Assocaite**
2. **Name of Firm:** **4th Diemension Consulting Pvt. Ltd. Pakistan**
3. **Name of Staff:** **Raheel Zafar**
4. **Date of Birth:** 05-01-1992 **Nationality:**Pakistan
5. **Complete personal contact details:** +92 332 8015119 ; email: planner.raheel@gmail.com
6. **Education**

Institution (Date from - to)	Degree / Diploma obtained
University of Engineering and Technology, Lahore, Pakistan. (2010-2014)	B. Sc. (City and Regional Planning)

7. **Membership in Professional Associations:** Member Pakistan Council of Architects and Town Planners. (MPCATP); Member , Member, Institute of Planners Pakistan. 2007-2017

8. **Countries of Work Experience :**Pakistan
9. **Languages:**

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent
Punjabi	Excellent	Excellent	Good

10. **Employment Record**

From - To:	February 2018 - to date (Full Time)
Employer :	**4th Dimension ConsultingPvt. Ltd.**; a multidisciplinary private sector based consulting firm primarily working in development sectors such as Urban Planning, Urban Development, SEZ and Technology Parks Planning, Institutional Design, Architecture, Engineering Design and Environmental Management. Having offices in Lahore, Islamabad & Faisalabad, Pakistan. www.4thdimensionpk.com
Position held	Associate Urban Planner
From - To:	January 2017 – February 2018 (Full Time) 1 year
Employer :	MM Pakistan (Pvt.) Ltd.
Position held	Junior Town Planner
From - To:	August 2014 – December 2017 (Full Time) 5 years
Employer :	Urban Sector Planning & Management Services Unit (**The Urban Unit**), Lahore. Pakistan. www.urbanunit.gov.pk
Position held	Research Associate (Urban Planning)

11. Detailed Tasks Assigned	13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
	Name of assignment:**Feasibility, Master Planning, Zoning, Infrastructure Design and Detailed Land Use Planning for the establishment of Science & Technology Park in Islamabad, Pakistan**. **Year**: 2017 ; **Location**:; Islamabad -Pakistan; **Client**: Ministry of Science & Technology, Pakistan **Main project features**: Area: App. 1000 kanal - Estimated Project Development Cost: App. 2500 million Pak Rupees. The objective of establishing a Science & Technology Park, Islamabad is to promoteexploitation of knowledge developed at the CIIT, other universities andRDIs in Pakistan. The co-location of actors to innovation, mainly academia,industry and the relevant entities in the Government are likely to provide anenabling environment through adopting suitable policies and institutingincentive programs. The proposed Technology Park would provide aplatform to bring the above stated actors to innovation closer for meaningfulinteraction. **Positions held**: **Associate Urban Planner** **Activities performed**: Assist the senior team members in Master Planning and Feasibility Study Development process as followed: (i) Carrying out on site and market demand assessments, (ii) Data Collection & Review: Review of Topographic Survey; Socio-Economic & Land use characteristics of area,Hydrographic Studies, Hydrology of the site (Sub Soil Water, Natural Runoff), Geo Technical Investigations, Geological Studies for Seismic safety, Studies for Site Accessibility, Road linkages, Available Infrastructure Services and Accessibility etc. (iii) Presentation/Submission of Preliminary Feasibility based on conceptual Site Master Plan developed on the basis of studies conducted.

	(iv) Preparation of final/detailed Master Planning along-with development guidelines and strategies, (v) Preparation of final economic, financial and technical feasibility of the project.
	Name of assignment: Topographic Survey, Geotechnical Investigation, Detailed Layout Planning and Infrastructure Designing of Alfalah Co-Operative Housing Society **Year**: 2017-18, **Location**:;Punjab, Pakistan **Client**: **Alfalah Cooperative Housing Society** **Main project features**: Topographic Survey, Concept Planning, Layout Planning, Geotechnical Investigations, detailed layout planning, infrastructure design of services, preparation of tender and bidding documents and design specification & cost estimates **Positions held**: **Junior Town Planner** **Activities performed**:As a Junior Town Planner, I assisted the team in conducting topographic surveys, arranging workshops, field surveys, layout planning, infrastructure design of services, preparation of tender and bidding documents and preparation of design specifications and cost estimatest.
	Name of assignment:**Additional Consultancy Services for Topographic Survey and Master Planning of 2 No. Districts and 4 No Town in Azad Jammu Kashmir Pakistan** **Year**: 2017-18, **Location**:; Azad Jammu Kashmir **Client**: Central Design Office Muzaffarabad, Azad Jammu and Kashmir Pakistan **Main project features**: The client intended to develop master plan of districts of Azad Jammu & Kashmir so that present and future development takes place in planned manner. Special emphasis was to exploit the tourism potential of the naturally gifted areas of Azad Kashmir **Positions held**: **Junior Town Planner** **Activities performed: Assist the senior team in** conducting planning surveys, tourism related surveys,data collection, , data analysis, preparation of various reports like inception report, master planning report, topographic surveys and neighbourhood development
	Name of assignment:**Soon Valley Eco-tourism Master Plan 2035, Soon Valley,** **Year**: 2015 -2016 ;**Location**: Pakistan. ; **Client**: Tourism Development Corporation of Punjab **Main project features**: Soon Valley, situated in the northwest of Khushab district of Punjab, is renowned for beautiful lakes, waterfalls, jungles, natural pools and ponds and also a declared RAMSAR wetland site. The land itself is environmentally sensitive and is among the ecologically pristine areas of the country that are rapidly shrinking due to human intervention. The Soon Valley Master Plan is the outcome of The Urban Unit who has worked in collaboration with the Tourism Development Corporation Punjab (TDCP). This plan would help to foster the development of ecotourism activities in this region. Project Objectives are as follows: (i) To develop Soon Valley as an eco-tourism site for Tourist and local visitors with availability of civic amenities, accommodation, restaurant shopping areas, recreational and other infrastructures. (ii) To maintain and enhance current tourism activities / facilities and development. (iii) To promote affordable, accessible and enjoyable domestic tourism and cultural and sports festivals; tourism. (iv) To incorporate environmental dimension into the planning of development activities in hilly areas. (v) To regulate development activities in hill areas in order to minimize unnecessary adverse impacts on the natural landscapes, surrounding areas and the environment. **Positions held**: **Research Associate (Urban Planning)** **Activities performed**:Assisting the senior team members in • field studies and data collection • Report Writing • Carrying out Environmental Sensitivity Analysis for development of land use proposals • Development of land use plans and strategic directions to carrying out development projects • Development of site specific eco-tourism proposals and action plans

Name of assignment:**Punjab Spatial Strategy 2040, Punjab, Pakistan**
Year: 2016-17, **Location**:; Punjab, Pakistan **Client**: Government of Punjab / **World Bank's Jobs & Competitiveness P4R Program**
Main project features: The Planning and Development (P&D) Department of the Government of Punjab has embarked upon the process of developing a Punjab Spatial Strategy (PSS) to complement the Punjab Growth Strategy in close collaboration with relevant departments, local governments, communities, and stakeholders. The aim of the strategy is to coordinate and align public investments across various sectors over the course of the next twenty years.

Project activities include carpet data collection and developing a GIS-based spatial canvas of the province for further analysis and core strategy development. The process has been planned over 2 years.
Positions held: Research Associate (Urban Planning)
Activities performed: Research for study design and execution, assisting in developing PC II and project documents as guided by PAD, data assemblage, and analysis, core and sectors strategy development: project activities also include development of baseline documents and the studies required to develop core strategy involving a diverse team of urban sector professionals working collaboratively towards development of strategy.

Name of assignment : Punjab Intermediate Cities Investment Improvement Program (Phase 1) for Sialkot &Sahiwal, (ADB funded project under PICIIP)
Year: 2015-16 ; **Location**:; Sahiwal, Sialkot, Pakistan **Client**: Govt. of Punjab
Main project features: The Asian Development Bank's (ADB's) Punjab Intermediate Cities Improvement Investment Project (PICIIP)- Phase 1 was initiated to improve the quality of life of the residents living in intermediate cities of Punjab with a total investment by ADB of $200 million. The PICIIP is expected to address urban development challenges at city level including integrated planning, improved urban infrastructure, improved institutional framework for urban services and strengthened utility business processes. The PICIIP phase 1 was focused on two intermediate cities of Punjab, Sahiwal and Sialkot and interventions were focused to improve the urban planning and development scenarios of these urban archipelagos with enhanced, planned and more focused investments in urban infrastructure development.

Positions held: **Research Associate** (**Urban Planning) (Client Side)**
Activities performed
Assisting the senior team in review of deliverables submitted by consultants, arranging workshops and final submissions for both cities in local, regional and national urban planning and development context.

Name of assignment:**Development of New Economic City in Punjab, Pakistan**
Year: 2015-16 , **Location**:;Punjab, Pakistan **Client**: Govt. of Punjab through Urban Unit / **World Bank**

Main project features: In 2015, the Government of Punjab intended to develop a New Economic City of around 2 million inhabitants along Motorway M-2 corridor and expects that could address the issues raised above through demand-driven site selection, future-oriented planning, and good urban management. The New Economic City is expected to mitigate unplanned urban sprawl, congestion, saturation, and poverty (including slums) [2] and other primary urban centers of Punjab, which is expected to have an additional 20 to 40 million residents in the next 20 years. New Economic City is envisaged be a green-field smart and sustainable development and could be properly master planned for its services, infrastructure, and governance.
Project objectives were as follows: Attracting sustainable long and short-term investment (foreign or domestic, large-scale or small) and other economic outcomes derived from this; Development of diversified industrial, urban and real estate/housing sectors and support infrastructure to mobilize employment to sustain long-term economic growth in the Province; Planning concepts and practices that promotes economic growth, livability, sustainability, and resilience; andExpanding opportunities for diverse work-live-play activities in the region.
Major Project Activities include: Development of planning guiding principles for city ; Development of conceptual master plan ; Developing business model for the proposed development ; Development of PC II, TORs for hiring international consultants to carry out pre-feasibility, feasibility and master planning of the proposed development ; Evaluation of consultant's deliverables
Positions held Research Associate (Client Side-Urban Unit)
Activities performed: Assiting the senior team in

- Research, data collection and analysis
- Overseeing the consultant hired for carrying out prefeasibility for the project, evaluating their deliverables and coordinating with the government departments.
- Coordination with World Bank missions and other stakeholder departments
- Developing ToRs,project documents, PCII, and contract documentsfor sourcing out consultancies
- Supervising consultantsactivities in carrying out prefeasibility studies
- Conducting stakeholder consulataions across the country
- Review of the consultnats submissions

13. References:

Reference: 01
Name: Muhammad Shoaib
Company: Surbana Jurong Pvt Ltd.
Designation: Head Urban Planning
Contact No: +92 333 6109870
Email:crpshoaib@gmail.com

Reference: 02
Name: Muhammad shafaat Nawaz
Company: Lahore Development Authority
Designation: Assistant Director (Town Planning)
Contact No: +92 333 8398238
Email:shafaatzhere@gmail.com



Raheel Zafar

Date: 26-06-2018

Arfa Rizwan (Ms.)

Area of Interest: "Architecture & "Urban Planning"

Arfa Rizwan
E mail: arfa_rizwan@hotmail.com
Cell: 92307-7041239/92300-8573876

"Recently I have completed my masters in Architecture from University of Punjab. Before this I completed my bachelors in City and Regional Planning from University of Engineering & Technology, Lahore with distinction in 2013. I possess good communication and analytical skills and intend to seek a Suitable Position where I can utilize my qualification, motivational attitude, inter-personal skills to improve my capabilities. I certainly desire to work in such an environment which encourages creativity, innovation and career development in a position that inspires constant learning through applied practice. I always prefer to work diligently and responsibly rather just passing time. My professional capabilities include urban studies and analysis, logic building and developing Sustainable Urban Strategies and Solutions. I also serve as 'EDITOR' of IPP e-newsletter (A publication of Institute of Planners Pakistan). My language proficiency includes English, Urdu and Punjabi. From July 2013 till February 2016 I worked with The Urban Unit Punjab. Here I have worked on couple of urban sector related projects here my main job responsibilities are report writing, data analysis, conduct workshops and field visits and prepare lectures for Civil services Academy and Cantonment Institute of Military Land Administration Lahore". I have been associated with Civil Service Academy and Cantonment Institute of Management and Land Administration as their Course Coordinator for their Urban Planning & Development course taught by The Urban Unit. Since the past one year I am working with Fourth Dimension Consultants Private Limited as Urban Planner where I have been associated with urban planning and architecture projects, formulating conceptual plans, technical proposals and master plans etc.

Education

University of Punjab, Department of Architecture, Lahore

- Masters in Architecture **(**CGPA**: 3.57/4 stood 4th in my session)**

Majors:

Urban Design, Sustainable Design, Architectural Conservation and Design Process.

Research Thesis:

- "Revitalizing Master Planning Approach By Embedding Urban Design Guidelines

(A Case Study Of M. M. Alam Road & Main Boulevard Business Precinct)

Supervised by Ar. Arunah Zahra Ashraf, PU**.**

University of Engineering and Technology, Lahore

- B. Sc City & Regional Planning, Sep. 2009–June 2013.
- CGPA: **3.890/4.00**

Majors:

Introduction to Town Planning, Transportation Planning, Transportation Engineering, Architecture Design, Building Construction Technology, Master Planning, District & Regional Development Planning, Planning Surveys, History of Civilization, Report Writing, Building Control, Estate Management, Site Planning, Environmental Engineering & Planning, Planning Laws, Economics, Urban Design, Finance Management.

Research Thesis:

- **"The feasibility study of urban farming in developing countries: a case study of Lahore."** Supervised by Dr. Rizwan Hameed, UET, and Lahore**.**

Lahore College for Women University

- Pre-Engineering , Aug 2008

Crescent Model Higher Secondary School

- Matriculation with Science, Aug 2005

Honors and Awards

- Ranked 2nd out of 35 students in 2009 session.
- Dean's roll of honor throughout course (only two recipients).
- UET Merit Scholarship.
- IPP's newsletter editor from 2012 to date.
- Merit scholarship recipient in F. Sc and Matriculation.

Professional Experience

Research Associate in The Urban Unit sector Urban Planning

- **Course coordinator of Urban Planning and Management course** at **Civil Services Academy** and **Cantonment Institute of Military Land Administration,** July 2013 till Feb 2016.
- **Prepare lectures and conduct field surveys** for Urban Planning and Management course at **Civil Services Academy** and **Cantonment Institute of Military Land Administration,** July 2013 till Feb 2016.
- **Prepare exam papers, conduct exams and manage all databases** for **Civil Services Academy** and **Cantonment Institute of Military Land Administration,** July 2013 till Feb 2016.
- Data Collection, Analysis and documentation carried out for the project of Bahawalpur Master Plan 2035.
- Data documentation and Projects detailing for the project of Environmental Sustainability and Eco-tourism of Soon Valley.

- Team member of **Azad Jammu and Kashmir project on revision of local system and regulation and formulation of better governance framework**.
- Team member of **Bahawalpur Master Plan** under progress by The Urban Unit, May, 2013 till Feb 2016.
- Team member of a UN studies done by the Urban Unit on **"Study on Afghan Slums in Kohat and Islamabad Capital Territory",** August, 2013.
- Worked on **Validation Project Report of classification and reclassification of built up of Rawalpindi district** by MMP, August, 2013.
- Delivered lectures in Solid Waste management Workshop held in Cantonment Institute of Military Land Administration on **"Role of Urbanization in Solid Waste Management"** on 19th September, 2013.
- Team Member of **Punjab Cities Governance and Improvement Project (DLI 5)**, July 2013-2014.
- **Editor of IPP e-newsletter** from June 2012 to till 2015.

Extra-Curricular Activities

- Participant of a course on Entrepreneur by Intel March 2013.
- **Participated in Street Art Competition II, 2012.**
- **Volunteered Urban Forum, 2011-2012.**
- **Spoken English classes** held in UET from **July 2010 to August 2010**.

Seminars & Conferences

- Attended International Conference on Town Planning & Urban Management 2014.
- Attended seminar on Human Development in South Asia 2014.
- **29-30 September 2014**: **ICPTUM (International Conference on Town Planning and Urban Management)** held at **UET Lahore** in collaboration with HEC, UET Urban Unit and IPP.
- **27 September2014**: Public Seminar on **Water Sewerage and Solid Waste Management** held at **FCC Lahore** in collaboration with USAID, FCC, Urban Unit and CPPG.
- **27 September2014**: Real **Estate Market in Lahore Including Building Control Land Use and Zoning** held at **FCC Lahore** in collaboration with USAID, FCC, Urban Unit and CPPG.
- **20 September 2014: PAKSTRAN (Pakistan Sustainable Transport Project)** held at **Alhamra hall Lahore** in collaboration with GOP, UNDP, HEC, GEF, IUCM, ENERCON and Urban Unit.
- **Organizer and Participant** of Conference on **"Sustainable Urban Transport"** organized by The Urban Unit on **20th January, 2014**.
- **Organizer of 2nd Pakistan Urban Forum**, 2014 held in Karachi by The Urban Unit Punjab and The Urban Unit Sindh.
- **Participated in workshop in Forman Christian College in Center of Public Policy & Governance** on 12 & 13th November 2013 Lahore.

- **Organizer and Participant in Workshop** on **"Issues of Megacities of the World"** at CIMLA on 3rd & 4th October, 2013.

Computer Proficiency

- Auto CAD, Arc GIS, Punch House, SPSS, MS Office.
- 3 D modeling, spatial analysis by using Remote Sensing, GIS tools.
- Sketch up and 3D Max.

Miscellaneous

- Languages: Urdu and Punjabi (Native with high proficiency), English as second language high with written and spoken proficiency.

References:

- Dr. Anis ur Rahmaan (Senior Urban Planner and Patron-in-Chief IPP)
- Mr. Aslam Mughal (Senior Urban Planner, Ex UN Advisor & President IPP)
- Dr. Rizwan Hameed (Professor, City and Regional Planning Department, UET, Lahore)

Curriculum Vitae
Junaid Maqsood – Research Associate

1. **Proposed Position:** **Research Assocaite**
2. **Name of Firm:** **Faisalabad Parking Company, Pakistan**
3. **Name of Staff:** **Junaid Maqsood**
4. **Date of Birth:** 06-10-1991 **Nationality:**Pakistan
5. **Complete personal contact details:** +92 331 7350236 ; email: junaidcrp69@gmail.com
6. **Education**

Institution (Date from - to)	Degree / Diploma obtained
University of Engineering and Technology, Lahore, Pakistan. (2010-2014)	B. Sc. (City and Regional Planning)

7. **Membership in Professional Associations:** Member Pakistan Council of Architects and Town Planners. (MPCATP); Member , Member, Institute of Planners Pakistan. 2007-2017

8. **Countries of Work Experience :**Pakistan
9. **Languages:**

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent
Punjabi	Excellent	Excellent	Good

10. **Employment Record**

From - To:	January 2015 - to date (Full Time)
Employer :	**Faisalabad Parking Company**
Position held	Assistant Manager (Planning & Operations)
From - To:	January 2014 – November 2014 (Full Time) 1 year
Employer :	**Master Consulting Engineers, (Pvt.) Ltd**
Position held	Town Planner

11. Detailed Tasks Assigned

13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned

Company: Faisalabad Parking Company
Designation: Assistant Manager (Planning & Operations)

- Preparation of Development Plans of Parking sites / Parking plaza.
- Creation of new sites as per demand.
- Inspection and monitoring of sites.
- Preparing site portfolio of respective zone.
- Enter into negotiations with relevant stakeholders and execute agreement with different agencies/authorities.
- To be responsible for the delivery of major parking improvement projects including leading the project planning process.
- To be responsible for the creation, development and implementation of new policies, initiatives and procedures in the field.
- Take all necessary action for the effective day to day management, administration and supervision of Service to deliver the efficient discharge of the professional responsibilities of the office

Company: Master Consulting Engineers, (Pvt.) Ltd.
Designation: Town Planner

- Preparation of Master Plans
- Use information technology systems such as CAD (computer-aided design) or GIS (geographical information systems)
- Attend and present at planning boards, appeals and public inquiries
- Keep up to date with legislation associated with land use
- consult with stakeholders and other interested parties;
- Negotiate with developers and other professionals, such as surveyors and architects;

	• Assess planning applications and monitor outcomes as necessary; • Research and design planning policies to guide development; • Preparation of Different Plans in the light of Punjab Land Use Rules for Tehsil Gujrat.

12. Certification:

I, the undersigned, certify to the best of my knowledge and belief−	Yes	No
i. This CV correctly describes my qualifications and my experience.	X	
ii. I am employed by the Executing or the Implementing Agency.		X
iii. I am a close relative of a current ADB staff member.		X
iv. I am the spouse of a current ADB staff member.		X
v. I am former ADB staff member.		X
If yes, I retired from ADB over 12 months ago		
vi. I was part of the team who wrote the terms of reference for this consulting services assignment.		X
vii. I am sanctioned (ineligible for ADB engagement).		X

I certify that I have been informed by the firm that it is including my CV in the proposal for the TA-8556 REG: Supporting the Cities Development Initiative for Asia - PAK: Punjab Intermediate Cities Improvement Investment Project Phase II (47285-001). I confirm that that I will be available to carry out the assignment for whichmy CV has been submitted, in accordance with the implementation arrangements andschedule set out in the proposal.

I understand that any willful misstatement may lead to disqualification or dismissal, and any other ADB disciplinary action.

13. References:

Reference: 01

Name: Ansar Anayat
Company: (Faisalabad Parking Company)
Designation: Manager Operations
Contact No: +92 344 7950733
Email:uetplanner@gmail.com

Reference: 02
Name: Adnan Khan
Company: (Faisalabad Parking Company)
Designation: Assistant Manager Operations
Contact No: +92 332 8587966
Email:planneradnan10@gmail.com



Junaid Maqsood

Date: 26-06-2018

NHS ASSOCIATES
MANAGEMENT CONSULTANTS

AUDITOR'S REPORT

We have audited the accompanying Balance Sheet of **4TH DIMENSION CONSULTING** as on June 30, 2017 and the related Profit & Loss Account for the year then ended alongwith Notes to the Accounts. Our responsibility is to report on these financial statements under the Prudential Regulations issued by the State Bank of Pakistan. The Balance Sheet exhibits the true and fair view of the financial position as on that date and the related income statement also shows a true Profit for the year then ended as per the books of accounts and information provided to us.

Place: Faisalabad.

NHS ASSOCIATES
Management Consultants

Date: 07 September, 2017

177-Jinnah Colony (Independent Medical College), Faisalabad Ph:041-2603967-68. Email: clients@nhs

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4TH DIMENSION
BALANCE SHEET
As on 30th June, 2017

ASSETS:	Notes	2017 Rupees	2016 Rupees
NON-CURRENT ASSETS			
Schedule Annexed	4	4,964,822	5,325,371
LONG TERM DEPOSIT		24,500	24,500
CURRENT ASSETS			
Trade Debtors	5	28,575,487	19,879,754
Cash and Bank Balance	6	6,817,821	8,020,010
		35,393,308	27,899,764
		40,382,630	33,249,635
EQUITY AND LIABILITIES			
Capital	1	39,802,587	32,617,872
CURRENT LIABILITIES			
Trade & Others Payables	2	458,774	507,548
Accrued Expenses	3	121,269	124,215
		580,043	631,763
		40,382,630	33,249,635

Proprietor

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4TH DIMENSION
PROFIT AND LOSS ACCOUNT
For the year ended 30th June, 2017

	Notes	2017 Rupees	2016 Rupees
RECEIPTS		15,754,220	15,350,180
ADMINISTRATIVE EXPENSES	7	5,239,543	5,056,685
Profit before Taxation		**10,514,677**	**10,293,495**
Provision for taxation		1,575,422	1,535,018
Net Profit /(Loss) for the year		**8,939,255**	**8,758,477**

Proprietor

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4TH DIMENSION
Notes to the Accounts
For the year ended 30th June, 2017

	2017	2016
1 CAPITAL ACCOUNT		
Balance as at July 01	32,617,872	25,514,395
Add: Profit for the year	8,939,255	8,758,477
	41,557,127	34,272,872
Less: Drawings	1,754,540	1,655,000
Balance as at June 30	39,802,587	32,617,872
2 TRADE & OTHER PAYABLE		
Creditors	458,774	507,548
	458,774	507,548
3 ACCRUED EXPENCES		
Staff salary	112,038	115,245
Telephone	6,210	6,455
Electricity	3,021	2,515
	121,269	**124,215**
4 SEE SEPARATE SCHEDULE ANNEXED		
5 TRADE DEBTORS		
Local considered goods	28,575,487	19,879,754
6 CASH & BANK BALANCES		
Cash in Hand	6,626,965	7,804,553
Cash at Bank	190,856	215,457
	6,817,821	**8,020,010**
7 ADMINISTRATIVE EXPENSES		
Staff Salaries & Benefits	1,288,437	1,227,083
Travelling and Conveyance	645,937	615,178
Vehicle Running & Maintenance	618,634	589,176
Printing & Stationery	346,868	330,350
Entertainment	306,972	292,355
Newspaper & Periodicals	164,357	156,531
Electricity	420,800	400,762
Telephone	322,126	306,787
Depreciation	360,549	410,024
Office Rent	418,134	398,223
Misc. Expences	346,728	330,217
	5,239,543	**5,056,685**

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4TH DIMENSION
Notes to the Accounts
For the year ended 30th June, 2016

1 FIXED ASSETS SCHEDULE AS ON 30.06.2016

Particulars	COST			DEPRICIATION				W.D.V
	Opening	Add/ Del	Closing	Rate %	Opening	For The Year	Closing	
Land	2,200,000	-	2,200,000	-	-	-	-	2,200,000
Building	3,300,000	-	3,300,000	10	894,300	240,570	1,134,870	2,165,130
Furniture and Fixture	354,120	-	354,120	15	136,646	32,621	169,267	184,853
Motor Vehicles	1,200,000	-	1,200,000	15	463,050	110,543	573,593	626,408
Office Equipment	285,400	-	285,400	15	110,129	26,291	136,419	148,981
TOTAL	**7,339,520**	**-**	**7,339,520**		**1,604,125**	**410,024**	**2,014,149**	**5,325,371**

4TH DIMENSION
Notes to the Accounts
For the year ended 30th June, 2017

1 FIXED ASSETS SCHEDULE AS ON 30.06.2017

Particulars	COST			DEPRICIATION				W.D.V
	Opening	Add/ Del	Closing	Rate %	Opening	For The Year	Closing	
Land	2,200,000	-	2,200,000	-	-	-	-	2,200,000
Building	3,300,000	-	3,300,000	10	1,134,870	216,513	1,351,383	1,948,617
Furniture and Fixture	354,120	-	354,120	15	169,267	27,728	196,995	157,125
Motor Vehicles	1,200,000	-	1,200,000	15	573,593	93,961	667,554	532,446
Office Equipment	285,400	-	285,400	15	136,419	22,347	158,767	126,633
TOTAL	**7,339,520**	**-**	**7,339,520**		**2,014,149**	**360,549**	**2,374,698**	**4,964,822**

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4TH DIMENSION
BALANCE SHEET
As on 30th June, 2014

ASSETS:	Note	2014 Rupees	2013 Rupees
NON-CURRENT ASSETS			
Schedule Annexed	4	6,202,053	6,733,592
LONG TERM DEPOSIT		24,500	24,500
CURRENT ASSETS			
Trade Debtors	5	590,740	854,120
Cash and Bank Balance	6	282,387	4,382,118
		873,127	5,236,238
		7,099,680	11,994,330
EQUITY AND LIABILITIES			
Capital	1	6,202,053	10,782,350
CURRENT LIABILITIES			
Trade & Others Payables	2	764,585	458,763
Accrued Expenses	3	133,042	753,217
		897,627	1,211,980
		7,099,680	11,994,330

Proprietor

4TH DIMENSION
PROFIT AND LOSS ACCOUNT
For the year ended 30th June, 2014

	Notes	2014 Rupees	2013 Rupees
RECEIPTS		14,610,520	14,254,170
ADMINISTRATIVE EXPENSES	7	4,746,197	4,619,888
Profit before Taxation		**9,864,323**	**9,634,282**
Provision for taxation		1,022,736	855,250
Net Profit /(Loss) for the year		**8,841,587**	**8,779,032**

Proprietor

4TH DIMENSION
Notes to the Accounts
For the year ended 30th June, 2014

1 FIXED ASSETS SCHEDULE AS ON 30.06.2014

Particulars	COST			DEPRICIATION				W.D.V
	Opening	Add/ Del	Closing	Rate %	Opening	For The Year	Closing	
Land	2,200,000	-	2,200,000	-	-	-	-	2,200,000
Building	3,300,000	-	3,300,000	10	330,000	297,000	627,000	2,673,000
Furniture and Fixture	354,120	-	354,120	15	53,118	45,150	98,268	255,852
Motor Vehicles	1,200,000	-	1,200,000	15	180,000	153,000	333,000	867,000
Office Equipment	285,400	-	285,400	15	42,810	36,389	79,199	206,202
TOTAL	**7,339,520**	**-**	**7,339,520**		**605,928**	**531,539**	**1,137,467**	**6,202,053**

Taxpayer Online Verification

Date : 15-02-2016

Time : 22:28:51

NTN/FTN	**4289795-5**	Category	COMPANY
Name	4TH DIMENSION CONSULTING (PVT.) LIMITED		
CNIC/PP/REG/INC No.	0087370		
House/Flat/Plot No.	---	Street/Lane	---
Block/Sector/Road	---	City	---

Business/Branches

Sr.	Business/Branch Name	Business/Branch Address
1.	4TH DIMENSION CONSULTING (PVT.) LIMITED	351-B, 1ST FLOOR, PEOPLES COLONY NO. 1, Faisalabad Madina Town

Principal Business Activity PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES/ARCHITECTURAL AND ENGINEERING ACTIVITIES AND RELATED TECHNICAL CONSULTANCY/ARCHITECTURAL AND ENGINEERING ACTIVITIES AND RELATED TECHNICAL CONSULTANCY

Business Nature

Registered For **INCOME TAX** w.e.f 28-Aug-2014

Income Tax office RTO FAISALABAD

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Pakistan Council of Architects and Town Planners

This is to certify that

M/s 4th Dimension Consulting

is registered in the
Category-A
as a Firm with the Council to perform all the
Town Planning professional works as defined in Section 2(k) of
Pakistan Council of Architects and Town Planners Ordinance (IX of 1983).

30th Day of November, 2016
In witness whereof the Common Seal has been
hereunto affixed by authority of the Council on the

Registrar

Chairman

Registration No.

FP/00372/2016/Category - A

Validity of registration expires on 31st December (see overleaf)

Scanned by CamScanner

Punjab Revenue Authority
Taxpayer Online Verification

Date : 15-02-2016

Time : 22:33:19

PNTN	**4289795-5**	Category	COMPANY
Name	4TH DIMENSION CONSULTING (PVT.) LIMITED		

Business Name

Sr.	Business Name
1.	4TH DIMENSION CONSULTING (PVT.) LIMITED

CNIC/Reg No.	0087370		
Address	351-B, IST FLOOR,PEOPLES COLONY, FAISALABAD CITY		
Block/Sector/Road	PEOPLES COLONY	City	FAISALABAD CITY
Service Category	ARCHITECTS OR TOWN PLANNERS ,9814.1000		
Date of Registration with PRA	02 Sep 2014		
Operational Status at PRA	Active		

Print **Back**

009064

SECP

SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN

COMPANY REGISTRATION OFFICE
2nd Floor, FCCI Building, East Canal Road, Faisalabad
*****

CERTIFICATE OF INCORPORATION

(Under Section 32 of the Companies Ordinance, 1984 (XLVII of 1984)

Corporate Universal Identification No. **0087370**

I hereby certify that **4TH DIMENSION CONSULTING (PRIVATE) LIMITED** is this day incorporated under the Companies Ordinance, 1984 (XLVII of 1984) and that the company is **Limited by Shares.**

Given under my hand at **Faisalabad** this **Thirteenth** day of **March** Two Thousand and **Fourteen.**

Incorporation Fee **Rs.12,000/-** only

(*Mahboob Ahmad*)
Joint Registrar of Companies
Faisalabad

IRE/E-177/4162 Dated 13/03/2014

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Taxpayer Online Verification

Date : 25-01-2016

Time : 22:12:34

NTN/FTN	**1265260-1**	Category	BUSINESS INDIVIDUAL
Name	NADEEM KHURSHID		
CNIC/PP/REG/INC No.	33**217*50***		
House/Flat/Plot No.	351-B	Street/Lane	---
Block/Sector/Road	PEOPLES COLONY	City	FAISALABAD CITY

Business/Branches

Sr.	Business/Branch Name	Business/Branch Address
1.	4TH DIMENSION	PEOPLES COLONY NO.1, FAISALABAD

Principal Business Activity	CONSTRUCTION OF BUILDINGS
Business Nature	
Registered For	**INCOME TAX** w.e.f 23-Jun-2001
Income Tax office	RTO FAISALABAD

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4th Dimension's Environmental Responsiveness Policy

OVERVIEW

At 4th Dimension Consulting, we are committed to a long-term sustainable approach to caring for and safeguarding the environment. Our environment policy is based on two fundamental principles;

- To minimize company's impact on environment and
- Regularly endeavor to incorporate environmental considerations in our business activities.

We are therefore committed to provide a quality service in a manner that ensures and safe and healthy workplace for our employees and minimize our potential impacts on the environment.

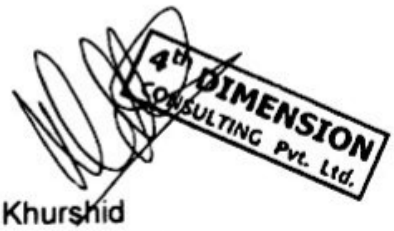
POLICY

The main points of company's environmental policy are as follows:

- Company will operate in compliance with all relevant environmental regulations and legislations,
- We shall help environmental conservation by following the principles of reducing, reusing and recycling,
- Integration of environmental principles and concerns in our decisions and activities,
- Continue efforts to reduce overall consumption of daily-use resources such as paper, plastics, disposable materials, etc. upto maximum in its offices,
- Minimize use of energy and water within our offices and project areas to conserve these resources and reduce their negative impacts on environment,
- Increase the capacity of our employees by education, training and incentives to enable them to observe working behavior in line with environmental conservation principles,
- Make maximum possible efforts to work with third party vendors and service providers who respect environment and try to observe environmental regulations,
- Convey our commitments and concerns to clients, customers and public and encourage them to support it, and
- If needed by law or legislation, in projects or at sites where potential health, safety and environmental hazards may exist, the company is committed to develop and implement adequate safety and emergency response arrangements.

AUTHORIZATION

We, hereby, duly authorize Mr. Nadeem Khurshid, CNIC # 3310217550555 to represent us for bidding process for UNDP's project **Development of Sustainable Development Goals (SDGs) Framework for Baluchistan** Ref # UNDP-RFP-2018-053. He is also authorized to negotiate and sign the contract on behalf of firm.



Nadeem Khurshid
(Chief Executive Officer)
for
4th Dimension Consulting Pvt. Ltd.

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100 Rupees

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TO WHOM IT MAY CONCERN

This is, hereby, declared that M/s. 4th Dimension Consulting Pvt. Ltd. have never been engaged in any sort of litigation with any of its clients/procuring agencies.

4th DIMENSION CONSULTING Pvt. Ltd.

26/06/18

Nadeem Khurshid

Chief Executive Officer

for

4th Dimension Consulting Pvt. Ltd.

OATH COMMISSIONER
Anjum Mahmood Awan
Advocate High Court
DISTRICT FAISALABAD

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"4th Dimension's plan & design philosophy focuses on creating environmentally sustainable communities that are diverse, mixed-use, and pedestrian friendly"

4th DIMENSION CONSULTING

DEVELOPMENT PRACTITIONERS

www.4thdimensionpk.com

contact.us@4thdimensionpk.com

+92 (41) 8549 703 + 92 (51) 2296 956

Suite 1A, First Floor, Plaza 45, I & T Center, G 11/1, Islamabad, Pakistan.

Suite 1, First Floor, # 351-B, Peoples Colony-1, Faisalabad 38090, Pakistan.