

SERVICES PROFILE

4th DIMENSION
I CONSULTING Pvt. Ltd.
DEVELOPMENT PRACTITIONERS
www.4thdimensionpk.com

Locus URBANICA

“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".

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Our Vision Statement

“We create sustainable spaces,which in turn help us shape vibrant communities”

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ABOUT US

4th Dimension Consulting Pvt. Ltd. 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, Urban Analytics, 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.

Today, the firm has amassed a 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. Its proven experience in Urban Planning & Development, Climate Change & Environment, Infrastructure Development, 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 BUSINESS SPECTRUM



Inclusive Urban Development



Buildings & Energy



Urban Governance



Climate Change & Resilience

WE SPECIALIZE IN



Spatial & Development Planning



Environment & Climate Change



Project Feasibility, Planning & Management



Industrial Zones, Technology Parks & SEZs



Social Sector Development



Urban Design & Placemaking



Buildings



Energy



Transportation Planning



Regional Economic Planning



Urban Resilience



Urban Analytics & Econometrics

OUR SERVICES

Urban & Environmental Planning

Buildings, Energy & Engineering Solutions

Social Sector Development

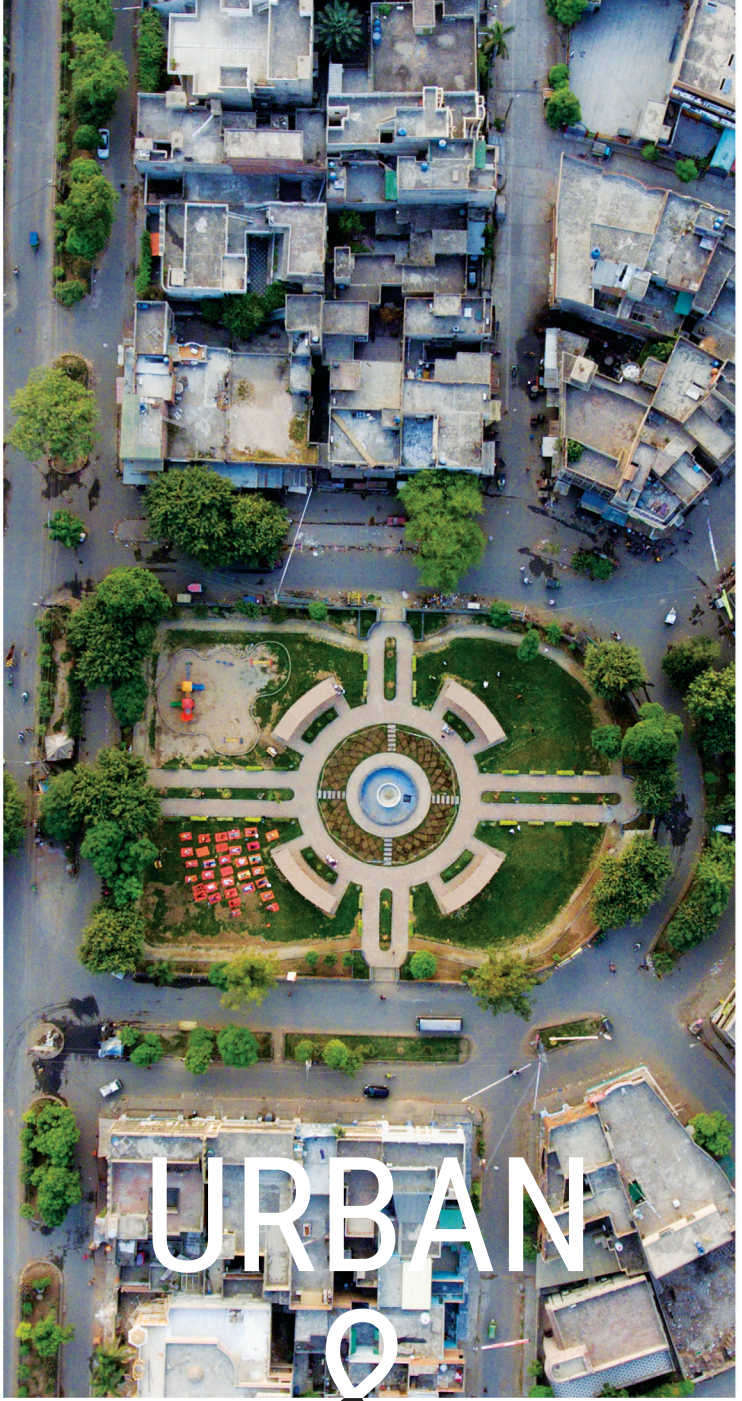
Project Planning And Management

Urban Design & Placemaking

Transportation Planning

Industrial Zones, Technology Parks & SEZ Planning

Law, Policy, Governance & Institutional Development



URBAN & ENVIORNMENTAL PLANNING

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

- CREATING FACT SHEETS BY PRESENTING / ANALYSING DATA IN THE FORM OF GRAPHICAL FORMATS AND DIGITAL MAPS / IMAGERIES / ILLUSTRATION.
- DEVEOPMENT PLANS, STRATEGIC PLANS /POLICY

Structure plans	Urban renewal plans,
Master plans	Urban rehabilitation /regeneration plans
Regional plans	Action area plans
Land use zoning plans	Contingency plans
Site 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

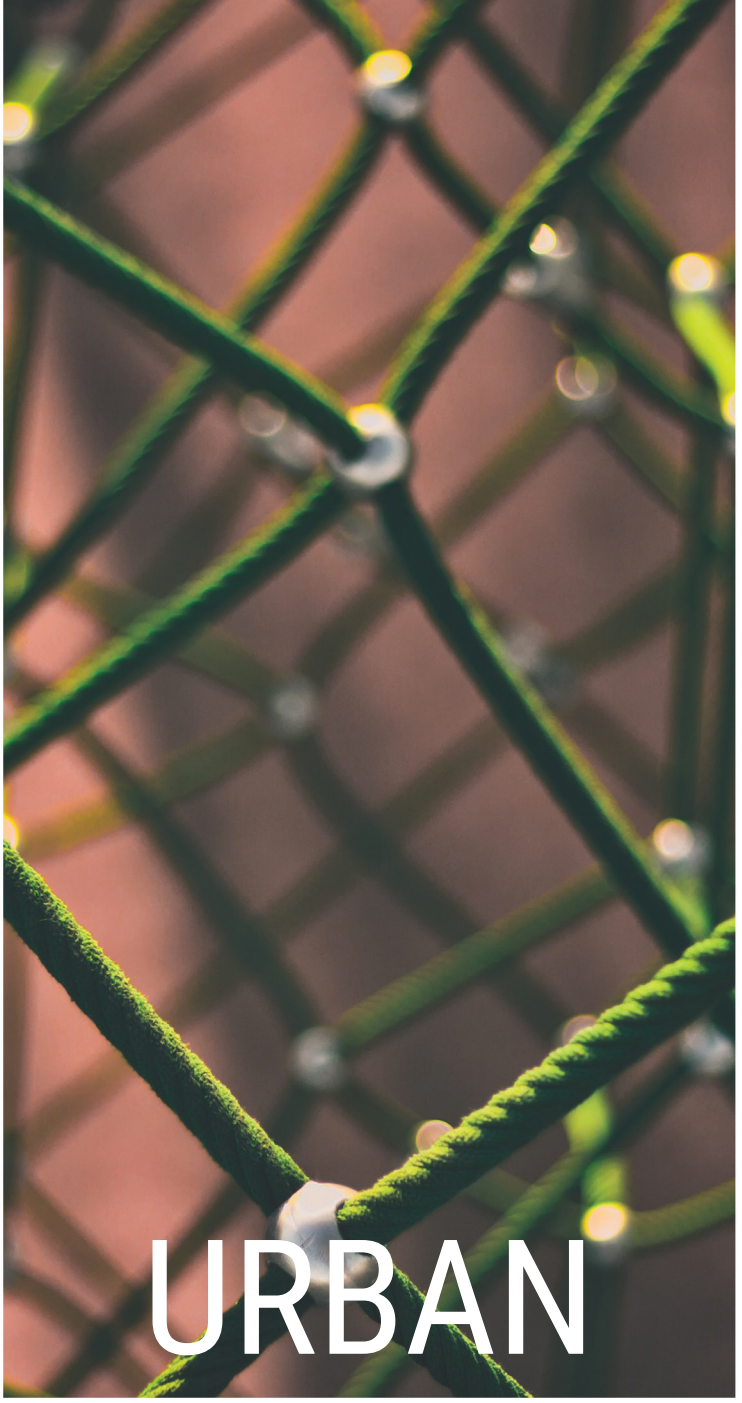
LAND USE PLANNING

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



URBAN ANALYTICS

Urban Analytics

Urban Analytics is an emerging discipline in urban policy and management while offering a grander flexibility, granularity and range on looking at the challenges and opportunities of using new and temporal urban data to study the past, present and future of cities through employing methods including GIS, Remote Sensing, Big Data and Geo-demographics. Urban analytics involves the processes and practice of using diverse forms and streams of data in combination with computational models to analyze urban processes with greater flexibility and level of details. Ubiquitous data availability and computing applications combined have allowed us to explore complex morphology and dig down new intriguing questions about cities, their economy, governance, how they relate to the local and global environment, and much more. Data is new gold in contemporary world of urban planning and governance. Data helps us making robust and wiser decision which somehow was not possible the way we have today the computing applications to handle bag data in urban landscape. These were historically the modern database application embedded with GIS/RS and thus evolutionary shift from Geographical Information Systems (GIS) to urban analytics.

Urban Analytics involves the complex and scientific processes in transforming the raw data into tangible and comprehensible information which eventually helps us devising visualizations and robust policies and management.

4th Dimension's team of urban and data experts are equally trained and qualified to use contemporary models for understanding the urban dynamics, running in-depth analysis, examining dynamics to the maximum possible level of details, creating real time visualization and dashboards, modeling, decision support systems and help our clients in devising robust policies and management solutions.



ENERGY & ENGINEERING SOLUTIONS

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. Our design team always tries to put a premium on design through efficiency, enhanced aesthetic value, structural stability, 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 extend 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

Social Sector Development

We also extend professional services in the areas and subjects like;

- Social sector studies & assessments
- Livelihood assessment,
- 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.



PROJECT PLANNING & MANAGEMENT

Turnkey & Project Management Services

A- Design cum construction management facilities for turnkey projects.

- RESIDENTIAL
- COMMERCIAL AND
- INDUSTRIAL PROJECTS

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

C- Project Management Services

- PREPARATION OF CONTRACT DOCUMENTS
- SITE SUPERVISION
- FINANCIAL SCHEDULING
- CONTRACT MANAGEMENT



INDUSTRIAL ZONES, TECHNOLOGY PARKS & SEZ PLANNING

Industrial Zones, Technology Parks & SEZ Planning

4th Dimension's professionally versatile & dynamic team equally specializes in carrying out pre-feasibility & feasibility 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 & PACEMAKING

Urban Design & Placemaking

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 believes 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 including

  Registering all features of urban design like façades, incompatibilities, setbacks, building foot prints & heights, colors, visual clutters, street scape & furniture, walkways, parking, drains, water elements, signage & lighting, finishes, textures, landscape, views and vistas, pedestrian & mobility infrastructure and streetscape shall be observed and registered to make cross comparison with some best practice model already studied and gaps on part of form and design of case study area shall be identified. Further a comprehensive SWOT analysis is done to finalize design details.

Urban Design services are carried out for:

- Streetscape
- Street Furniture
- Façade 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

Transportation Planning

4th Dimension Consulting also specializes in development of urban/city and regional transportation mobility, accessibility and connectivity policies, strategies and plans while dovetailing connectivity planning with landuse planning, translated from the city's/region's development vision and strategic plans.

Our team is equally qualified, trained & capable of carrying out different studies relating to transportation system and infrastructure improvement/development interventions for both at city and regional levels of planning, these include:

- 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 and other modeling tools
- Travel demand assessment
- Parking demand forecast
- Geometric and engineering design of urban and highway transport infrastructure and facilities



POLICY GOVERNANCE & INSTITUTIONAL DEVELOPMENT

Law, Policy, Governance & Institutional Development

Governance and institutions are among the main determinants to support the success of development initiatives as well as to enhance 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 specialize in;

- Policy development & analysis
- Assessment for institutional capacity and gaps
- Capacity building proposals
- Institutional development strategies
- Strategizing for SPVs
- Development of regulatory mechanism to support institutional development
- Developing road-maps and frameworks for local governance and service delivery enhancements
- Monitoring and evaluation of public and private sector development interventions



OUR CORE TEAM

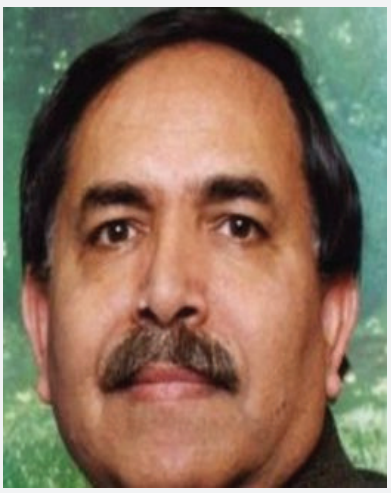


NADEEM KHURSHID

CEO & PRINCIPAL URBAN PLANNER

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

Nadeem is the CEO and founder of 4th Dimension. He has 30 years of diverse professional experience in the development sector, specializing in urban planning and development. His expertise includes urban policy and planning, land-use and spatial planning, participatory urban development, urban governance, project planning and management, environmental policy and management, transportation planning and design, contract management and execution. Nadeem is also qualified in Environmental Policy and Urban Planning. He excels in developing various plans (development plans, spatial plans, urban development strategic plans), institutional design, project concept development, industrial zone planning (SEZs and EPZs), as well as environmental assessments and action plans.



ZULFQAR S. BAIG

PRINCIPAL ARCHITECT

N.D. (Arch), MPCATP

Zulfqar is a highly talented architect from Pakistan, hailing from a group of leading architects who graduated in the late 70s from NCA, one of Pakistan's oldest and most reputable institutes for architecture and arts education. With over 40 years of diverse experience in architecture, urban design, interior design, and project management, Zulfqar has worked across the globe in countries such as Pakistan, Singapore, Hong Kong, the Middle East, Saudi Arabia, and the USA. He possesses exceptional design and management skills and currently leads the architectural and interior design team at 4th Dimension Consulting.



Dr. KHALID F. AKBAR

URBAN ENVIRONMENT/ECOLOGICAL SPECIALIST

Ph.D. (Environmental Sciences) Bradford-UK

Dr. Akbar earned his doctorate degree from the University of Bradford, UK. With over 34 years of experience in teaching, research, and consultancy, both in Pakistan and abroad, he specializes in urban ecology, conservation, environmental planning and management, urban landscape development, agro-ecology, environmental assessment, conservation, and outreach. Dr. Akbar has been involved in various environmental master planning and management projects for cities in Pakistan, including popular tourist destinations like Murree and Soon Valley. His significant contribution lies in his work on the ecological impact assessment of the motorway M2 corridor in Pakistan



KHURRAM SHAHZAD

Urban Design Specialist

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

Mr. Khurram possesses dual qualifications in Urban Planning and Architecture from UET, Lahore, along with an extensive experience of over two decades in urban, industrial, and public site planning as well as urban design. He demonstrates remarkable skills in innovative transformation, turning the greys of the urbanscape into vibrant and people-centered spaces. His contributions undoubtedly play a pivotal role in the resounding success of 4th Dimension's roster of assignments



ARIF ARAIN

Environmental Technologist

M.Phil (Environmental Chemistry)

Arif is an environmental technologist with both education and experience in the field. He holds an M.Phil degree in environmental chemistry. With over 30 years of experience, he specializes in waste treatment processes and management, specifically in the urban and industrial sectors. Arif focuses on treating urban and industrial wastes through bio-remediation and bio-processing methods, which are more sustainable alternatives to energy-intensive chemical processes.



ENGR. FAKHAR IQBAL SH

ASSOCIATE STRUCTURAL DESIGN SPECIALIST

M.Phil (Environmental Chemistry)

Fakhar possesses an advanced degree in structural design from the University of Engineering & Technology, Lahore. With a career that spans over three decades, he has successfully designed numerous commercial, industrial, residential, and institutional buildings, with a significant portion of his work being dedicated to projects 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 a notable track record of success in executing a diverse range of GIS projects. He actively participates in consulting, planning, modeling, analysis, testing, and implementation of GIS solutions to effectively support business objectives. With 10 years' experience in GIS data management, remote sensing analysis, and application development, he has played a leadership role in GIS data conversions and application development projects. Imran possesses expertise in ESRI, ERDAS, ER Mapper, and GPS software. Furthermore, he demonstrates self-motivation along with strong interpersonal, technical, leadership, and people skills. In addition to his GIS proficiency, Imran also brings valuable experience in information systems management as a systems support manager, web programmer, database administrator, and web designer.



SHAHZEB KHAN
URBAN ARCHITECT

Bachelors in Architecture

Shahzeb Khan brings a fresh and enthusiastic perspective to the field of design and design studies. With a focus on innovation, he has successfully worked on projects of diverse scales and typologies, ranging from large-scale campus designs to residential schemes.



ASAD MALIK

ELECTRICAL SYSTEMS DESIGN

B. Tech. (Electrical)

Asad Malik possesses an impressive 26 years of experience as a highly skilled project manager and electrical systems design professional. His expertise spans across various sectors, enabling him to excel in the design of electrical systems for a wide range of applications. Notably, his portfolio includes hospitals with comprehensive emergency backup, alarm, and paging systems, as well as medical facilities, theaters, restaurants, schools, laboratories, computer facilities with uninterrupted power supply (UPS), amateur and professional sports facilities, elderly housing projects, urban development initiatives, and correctional facilities. Furthermore, Asad has successfully undertaken electrical engineering design responsibilities for numerous housing, commercial, and industrial projects



WASIQ MASROOR KHAN

Senior Urban Planner

B.Sc. (Urban Planning), MPCATP

Wasiq Masroor is a qualified Urban Planner with a noteworthy career in Urban Planning in both Canada and Pakistan. With over 25 years of professional experience, he excels in contract management, execution supervision, and client liaison, particularly with public sector clients. Wasiq serves as the driving force behind transforming 4th Dimension's consulting assignments into tangible realities on the ground. Additionally, he possesses exceptional project management skills.



Moez Ahmad

MANAGER PROJECTS (RESEARCH ASSOCIATE)

BS (Environmental Sciences)

Moez is a fresher and holds an undergraduate degree in Environmental Sciences. He is keenly interested to learn about sustainable urban planning and development while dovetailing environmental sensitivity analysis to the planning and development process. Currently he is looking after different consulting projects of the firm as a junior project manager.



Naima Ahmad

URBAN LAW, & GENDER MAINSTREAMING SPECIALIST (ASSOCIATE)

Master's in Law, Governance and Development, SOAS, University of London, UK

Naima is a policy, institutional and legal analyst with proven experience in law, governance ,policy based practice, institutional development and analytical research with a solid track record in delivering analytical value and innovation in strategy and legal- policy planning for governments, public, private and institutional donors (World Bank, USAID) with the ability to advocate position before diverse audiences.

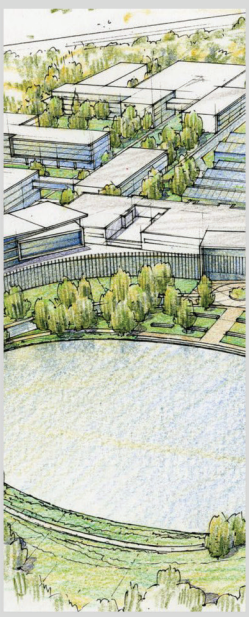
Expertise: Legal | Governance and regulatory policy| Rule of law I Public sector | Not-for-profit | Policy & Research | Drafting| Advocacy| Justice System| International Development.



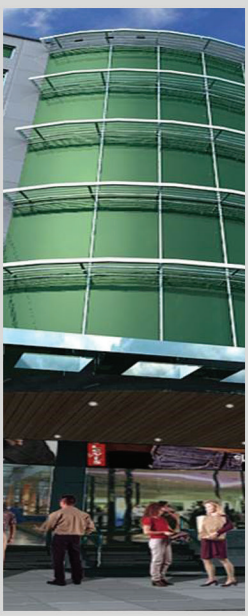


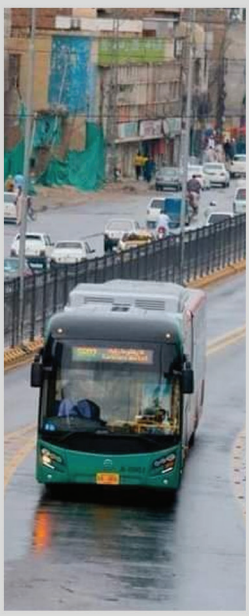








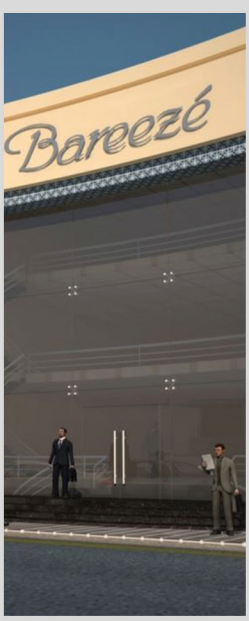








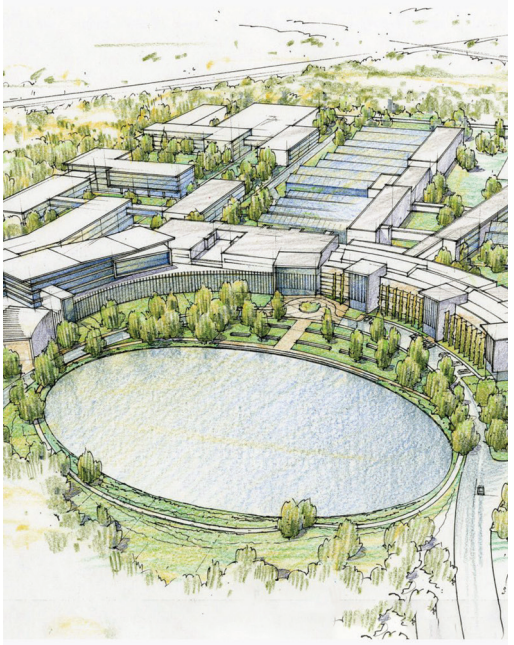




PROJECT'S PORTFOLIO



URBAN ENVIRONMENTAL PLANNING PROJECTS



Master Planning And Pre-Feasibility Of Bahria University's Maritime Science & Technology Park (MSTP), Karachi, Pakistan.

Project Type:
Master Planning and Pre-feasibility of Bahria University's Maritime Science & Technology Park (MSTP), Karachi, Pakistan.

Client:
Bahria University/Pakistan Navy, Pakistan

Location:
Karachi – Pakistan

Area:
App. 1000 kanal

Start Date:
Date: 2019

Cost:
App. 2000 million Pak Rupees

Main project features:: The objective of establishing a MSTP is to promote exploitation of knowledge developed at the BUK, 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 to support and enhance research and innovation in maritime and marine industry and support to enhance Pakistan NAVY's operational capabilities to spur Pakistan's blue economy.

Activities performed Supervised Master Plan and Feasibility Development process as followed:

Carrying out on site and market demand assessments

Physical studies, Data Collection & Review 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
Environmental Profiling of the study area
Infrastructure demand assessment for the Park

Study existing legal and regulatory framework to carry out such developments
Business Demand Assessment

Presentation/Submission of Preliminary Feasibility based on conceptual Site Master Plan developed 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 based on project Master Plan.



Transport Modelling And Feasibility Studies For Development Of Mass Transit System In Faisalabad, Pakistan (2014)

Project Type:
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

Location:
Karachi – Pakistan

Date:
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

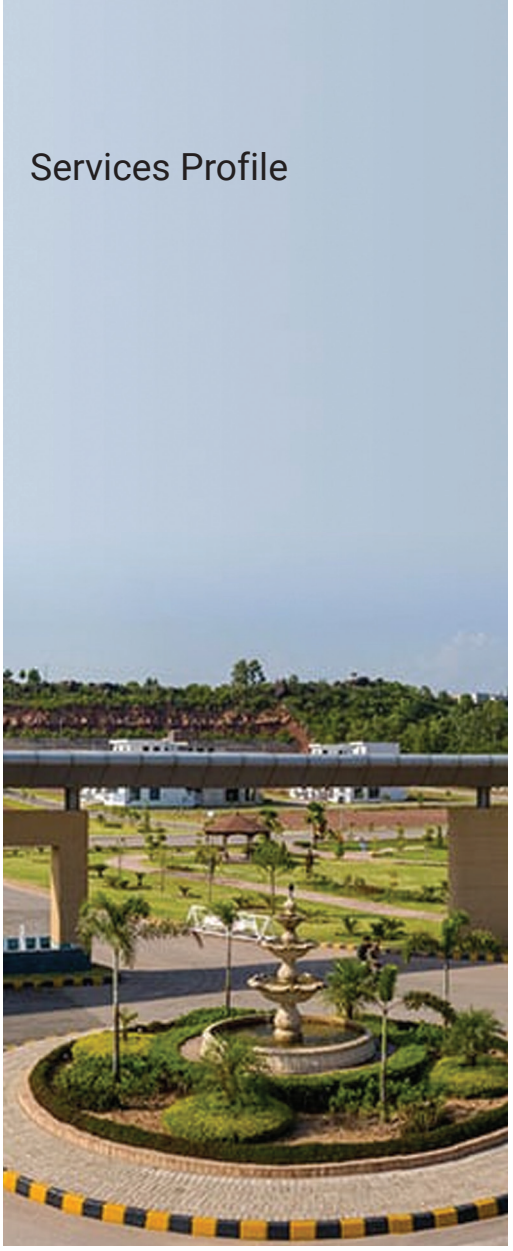
Data Digitization

Data Analysis and travel demand forecasting by using modeler CUBE

Priority Corridors identification

Locus URBANICA

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Forensic Audit Of Housing Projects In Pakistan

Project Type:
Forensic Audit On A Directive Issued By Supreme Court Of Pakistan

Client:
Government Of Punjab

Position:
Team Lead/ Urban Planner

Location:
Pakistan

Date:
July 2017-December 2019

Carried out forensic audit of many large and mid-scale housing projects/schemes carried out by the Private Sector to audit/evaluate their compliance with Bylaws, Regulations, Planning and Infrastructure/Engineering Design Standards.



FAISALABAD PERI-URBAN STRUCTURE PLAN 2035

Project Type:
Development Planning/Land use Policy/Planning

Client:
USPMU, Govt. of the Punjab

Position:
Team Lead / Urban Development Specialist

Location
Faisalabad, Punjab

Date:
July 2013, End Date: Feb 2014

Estimated Project Cost
12 million Rupees

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.

Activities:
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



FEASIBILITY & MASTER PLANNING OF COMSATS SCIENCE & TECHNOLOGY PARK, ISLAMABAD, PAKISTAN.

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

Client:
COMSATS, Islamabad, Pakistan.

Location:
Islamabad

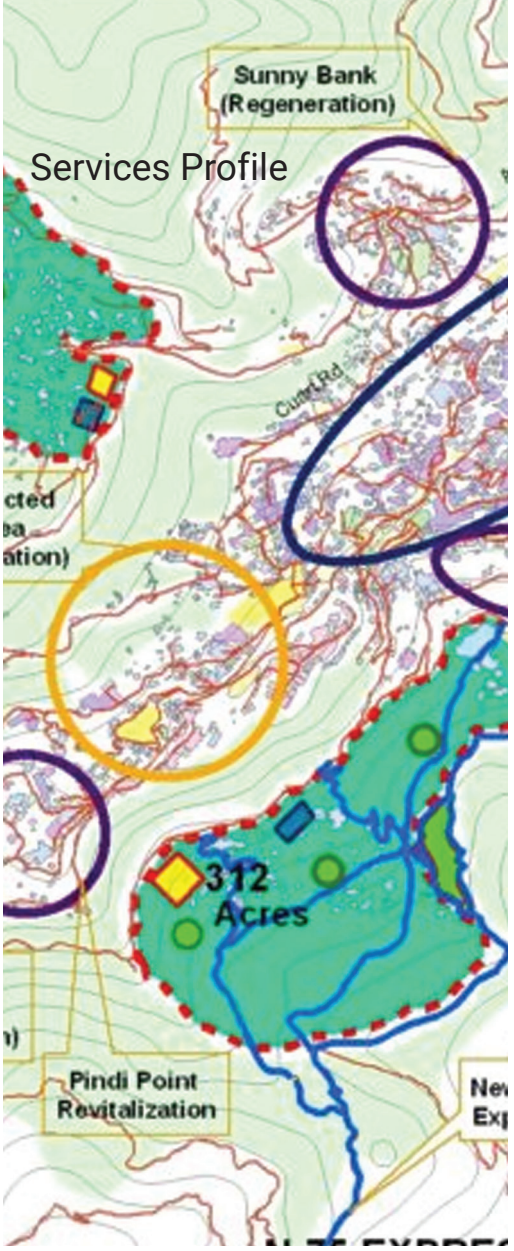
Area:
App. 1000 kanal

Start Date:
July 2017-December 2017

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.

Services 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



Muree Master Plan 2031

Project Type:
Master Planning/Land use Policy/Planning

Client:
TDCP, Govt. of Punjab

Location:
Murree, Punjab

Area:
App. 1000 kanal

Start Date:
May 2011- July 2013

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 Inception

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

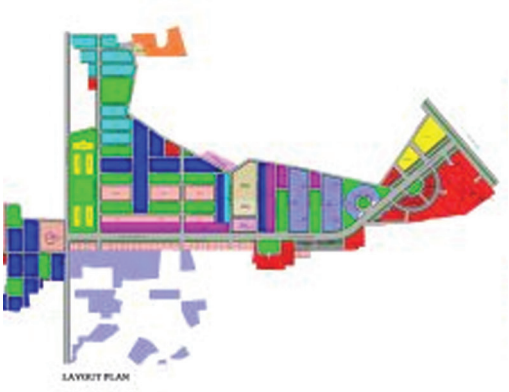
Policy Framework Development

Stakeholder Consultation / Workshops

Sector s Development

Action Plans Development

Policy Implementation framework Development



Planning, Design And Management Of EOBI Enclave Mixed Use Development, Lahore,

Project Type:
Town Planning / Development Planning
Client: EOBI, ,Govt. of Pakistan Location: Lahore

Start Date:
Feb 2013 and in progress

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: AN EDEN HOUSING PROJECT AT FAISALABAD, Pakistan

Project Type:
Land Use Planning

Client:
EDEN Housing Ltd. Lahore.

Position:
Team Lead/ Urban Planner

Location:
Samanabad, Faisalabad

Date:
November 2007

Estimated Project Cost:
App. 1000 million Pak Rupees

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
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Project Planning for development Activities
Feedback and Plan Reviews.



EDEN VILLAS ISLAMABAD, Pakistan.

Project Type:
Land Use Planning

Client:
EDEN Housing Ltd. Lahore.

Position:
Team Lead/ Urban Planner

Location:
Kak Pull, Islamabad Highway, Islamabad

Date:
February 2008

Estimated Project Cost:
App. 1500 million Pak Rupees

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



WOOD BURY HOMES (READY-BUILT TOWN HOUSES PROJECT)

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

Client:
Wood Bury Developers, Faisalabad

Location:
Sargodha Road,Faisalabad

Date:
November 2004

Estimated Project Cost:
App. 300 million Rupees

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

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MEDIACOM AVENUE (READY BUILT TOWN HOUSES PROJECT)

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

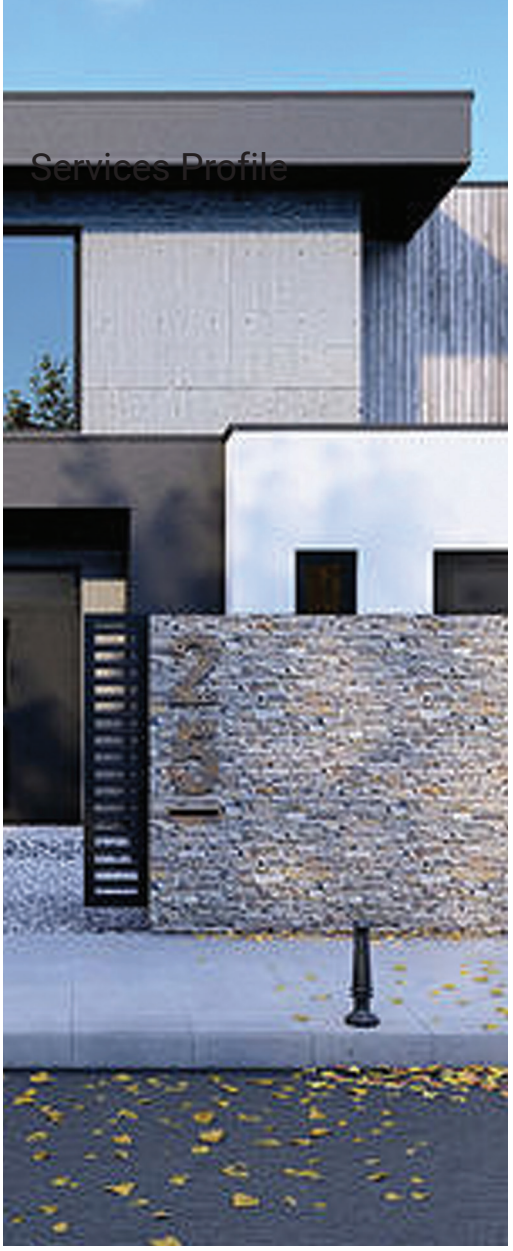
Client:
Mediacom Group of Companies, Faisalabad

Location:
East Canal Bank Road, Faisalabad

Date:
September 2007

Estimated Project Cost:
500 million Rupees

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, FAISALABAD, (HOUSING PROJECT)

Project Type:
Town Planning

Client:
Mr. Abbass Ali

Location:
Satiana Road, Faisalabad

Date:
May 2002,

Estimated Project Cost:
15 million Rupees

Services Rendered:
Topographic survey
Land use Subdivision



PALM VIEW HOMES (READY BUILT TOWN HOUSES PROJECT)

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

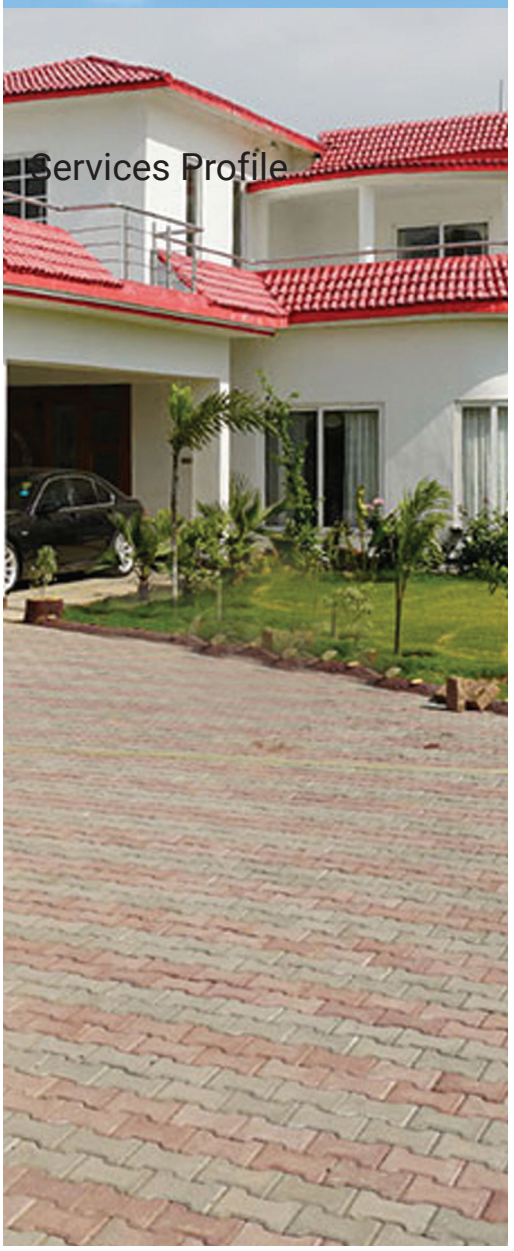
Client:
REMCON, Islamabad

Location:
Khawaja Gardens, Faisalabad

Date:
August 2005

Estimated Project Cost:
150 million Rupees

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



KASHMIR HOUSING SOCIETY

Project Type:
Land Use Planning

Client:
Jammu Kashmir Housing Society

Location:
G. T. Road Interchange, Islamabad

Date:
November 2002

Estimated Project Cost:
App. 600 million Pak Rupees

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:

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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
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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 Activitie



LCM CANAL BERG, FAISALABAD. (HOUSING PROJECT)

Project Type:
Land Use Planning

Client:
S.M. Builders, Lahore.

Location:
LCM Site, Faisalabad

Date:
November 2010

Estimated Project Cost:
App. 1500 million Pak Rupees

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
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ECOLOGICAL EVALUATION OF URBAN CORRIDORS IN SAHIWAL CITY

Project Type:
Mixed use Housing/Commercial

Client:
LEAD (Leadership for Environment and Development) PAKISTAN

Location:
Sahiwal, Punjab

Date:
May 2000-Oct 2000

Estimated Project Cost:
0.5 million Rupees

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

The main activities included:
Survey of roadside plants
Assessment of management practices of roadside verges
Study of potential threats (pollution, disturbance, encroachments) to corridors



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

Date:
2004-2006

Services Rendered:
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

The Main activities included assessment of ecological effects and their mitigation of following modes of transportation in Europe;

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

Date:
May 2007-August 2007

Cost:
1 million

Services Rendered:
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

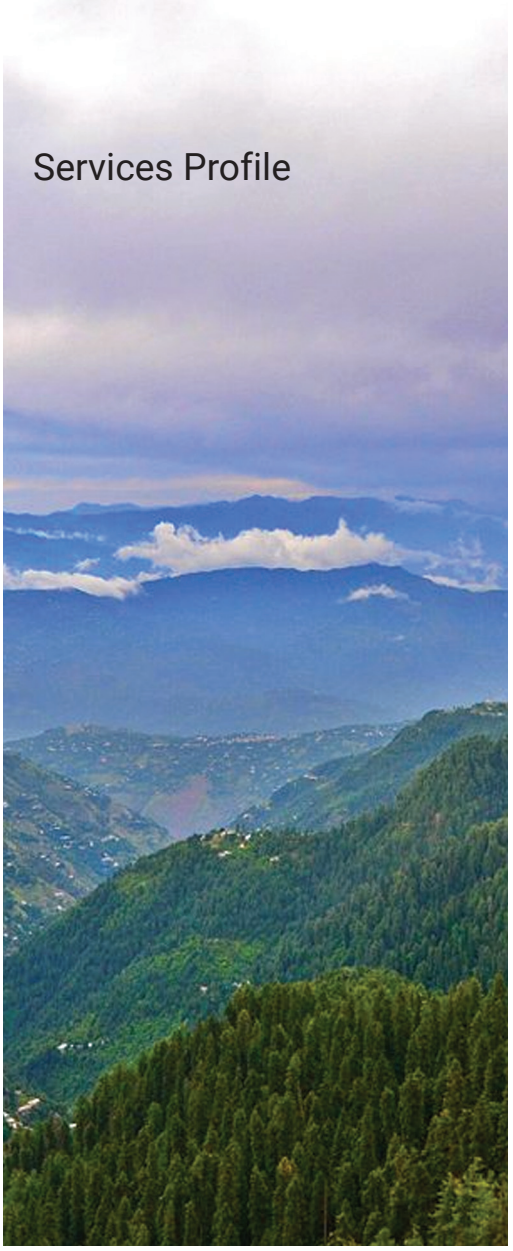
The Main activities included:

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

Date:
1997-2002

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.

The main objectives of the project were:

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

The main activities included:

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 biodiversit



MASTER PLANNING, DESIGN AND MANAGEMEN T OF IQBAL AVENUE (MASTER PLANNING OF A MIXED USE PRECINCT)

Project Type:
Mixed use Housing/Commercial

Client:
Iqbal Rice

Location:
Punjab, Pakistan

Date:
March 2022,

Estimated Project Cost:
15 Billion Rs.

Services Rendered:
Project Inception
Topographic Surveys
Data Collection & Review
Review of Topographic Survey
Surveys / Investigations for following
ERS for Water Availability,
Hydrographic Studies
Geo Technical Investigations

Evaluating Prevailing Zoning Regulations
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:



BUILDINGS PROJECTS



CLOCK TOWER HOUSE RESIDENCIA, A MIXED USE PROJECT, FAISALABAD. PAKISTAN.

Location

Faisalabad, Pakistan.
11 Floors
132,000 Sft Covered Area

Capital Cost of the Project:

2000 million Rupees

Concept Development
3D Models for Façade Development
3D Renderings & Animations
Detailed Architectural Design
Structural Design
HVAC Design
Electrical Services Design
Plumbing / Services Design
Mechanical Services Design
Preparation of BOQs, Cost Estimates & Tender Documents
Construction Management

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FOCUS-HAFEEZ CENTER (5 STORYED-COM PLETED) 2014

Project Type:
FOCUS-Hafeez Center (5 Storyed-Completed) 2014

Client:
Faisal Builders, Faisalabad

Position:
Team Lead / Urban Development Specialist

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

Date:
Aug 2013, End Date: 2014

Estimated Project Cost
90 million Rupees

Services Rendered:
- 2000 million Rupees
- 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, SAHIWAL (10 STOREYED) COMPLETED 2008

Project Type:
Shopping Mall / Office Complex

Client:
REMCON, Islamabad

Covered Area:
200,000 sft

Floors:
10

Location
Jahaz Chowk, Sahiwal

Date:
Oct 2008

Estimated Project Cost
600 million Rupees

Services Rendered:

Concept Development

3D Models for Façade Development

3D Animations

Detailed Architectural Design

Structural Design

HVAC Design

Electrical Services Design

Plumbing / Services Design

Mechanical Services Design

Preparation of BOQs, Cost Estimates & Tender Documents

Construction Management



OUTFITTERS OUTLET, CHEN ONE ROAD, FAISALABAD, PAKISTAN.

Project Type:
Bareez'e-Bashir Center
(5 Storyed-Completed) 2013

Client:
Faisal Builders, Faisalabad

Covered Areaa:
8800 sft

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

Date:
Oct 2012, End Date: 2013

Estimated Project Cost:
60 million Rupees

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



BONANZA CENTER, CHEN ONE ROAD, FAISALABAD

Project Type:
Shopping Mall

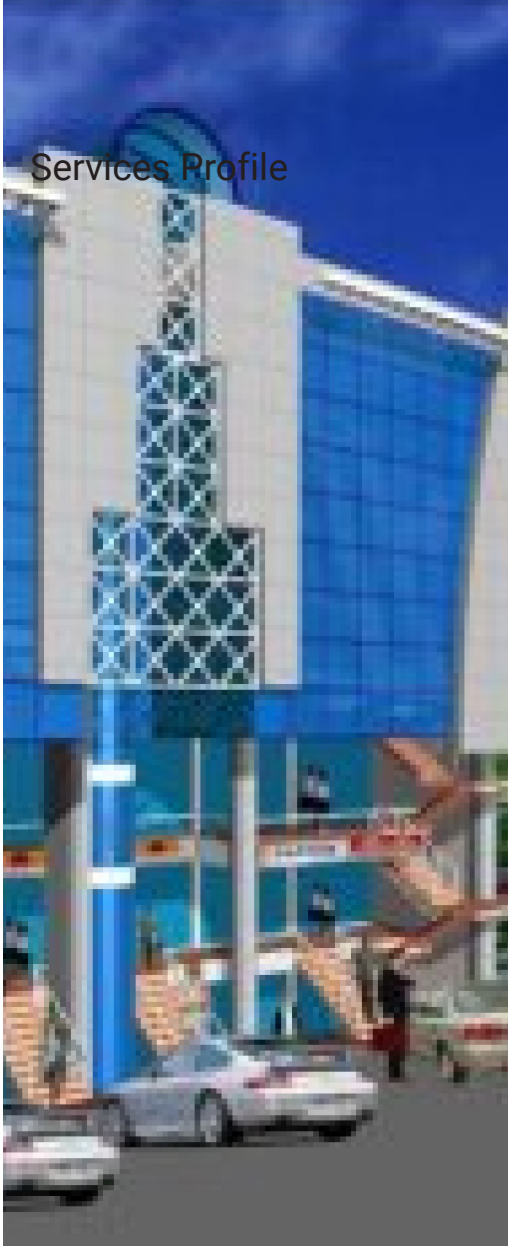
Client:
Faisal Builders, Faisalabad

Covered Areaa:
18,000 sft

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

Date:
Oct 2014, End Date: 2013

Estimated Project Cost
60 million Rupees



FAISAL CENTER, CHEN ONE ROAD, FAISALABAD

Project Type:
Shopping Mall / Office Complex (Extension)

Client:
Faisal Builders, Faisalabad

Covered Areaa:
24,480 sft

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

Date:
Oct 2004

Estimated Project Cost:
110 million Rupees

Floors:
6



MEDIACOM CENTER, SUSAN ROAD, FAISALABAD

Project Type:
Shopping Mall / Office Complex (Extension)

Client:
Faisal Builders, Faisalabad

Covered Areaa:
18,000 sft

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

Start Date:
2002,

Estimated Project Cost
200 million Rupees

Floors
7

AFFLIATION & PARTNERS



4th Dimension Pvt Ltd is affiliated and registered with multiple government and allied institutions in Pakistan including
SECP
PCATP as Category P1 firm
With all Development Authorities
With all local and city governments
With Provincial Planning and development departments
With Punjab Revenue Authority
With Pakistans Federal Revenue Authority

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Suite 1, First Floor, # 391-B, Peoples Colony-1,
Faisalabad 38090, Pakistan.
PH: +92 (41) 8549 703
Website: www.4thdimensionpk.com/
Contact.us@4thdimensionpk.com