



# PAKISTAN

## Strategy Support Program



### Research to Support Vision 2025 Competitive Grants Program, 3<sup>rd</sup> Round Awards to 35 Projects, June 2014

#### Integrated Energy

##### **Development of Demand Side Energy Management in Pakistan**

Dr. Fahad Javed, GIFT University, Gujranwala

Assesses alternatives for energy demand management using computer simulation

##### **An Integrated Model of Sustainable Energy Systems**

Dr. Khanji Harijan, Mehran University of Engineering and Technology

Develops an operations research integrated energy sector and decision aid model

##### **Impact of Climate Change on Electricity Consumption**

Dr. Pervez Janjua, International Islamic University, Islamabad, Islamabad

Investigates potential effects of climate change on energy demand

##### **Energy Security through Adopting Biogas System in Kyber Pakhtunkhwa**

Dr. Malik Inayatullah Jan, Centre for Research and Development, Peshawar

Evaluates potential for small-scale organic energy production in rural KPK

#### Water Security

##### **Developing a Real-Time Intelligent Water Allocation System**

Dr. Muhammad Jehanzeb Masud Cheema, UAF, Faisalabad

Integrates remote sensing and hydrological models to inform water allocation decisions

##### **Optimal Groundwater Management in the Indus Water Basin**

Dr. Steven Helfand (Ph.D. candidate, Sanval Nasim), University of California, Riverside

Models groundwater extraction and quality under alternative policies

##### **Efficient Irrigation Technologies for Groundwater Security in Balochistan**

Dr. Junaid Alam Memon, PIDE, Islamabad

Investigates efficient irrigations systems and farmers' willingness to adopt

#### Modernization of Infrastructure

##### **Urban Transportation and Access to Economic Opportunity: Lahore Metrobus**

Dr. Hadia Majid, LUMS, Lahore

Evaluates effects of Metrobus on labor mobility and earnings

##### **Infrastructure Development and Economic Growth**

Dr. Samina Sabir, University of Azad Jammu and Kashmir, Muzaffarabad

Assesses impacts of public physical and social investments on aggregate growth

##### **Efficiency of Alternative Public Investments**

Dr. Qazi Masood Ahmed, Institute of Business Administration, Karachi

Assesses impacts of public physical and social investments on growth in 8 sectors

##### **Pakistan KLEMS Database and Productivity Measurement at the Industry Level**

Dr. Abid Aman Burki, LUMS, Lahore

Creates internationally-consistent growth and productivity database for 14 industries

## Indigenous Resource Mobilization

### **Regime Switches in Pakistan's Fiscal Policies**

Dr. Iftikhar Ahmad, PIDE, Islamabad

Assesses effects of government spending/taxes on growth and trade balance

### **Implementation of UIPT Reforms in Punjab**

Daniyal Aziz, GINI, Islamabad

Examines possibilities and impediments to updating and reform of UIPT

### **Improved Estimates of Changes in Stocks/Inventories for National Accounts**

Zafar Ul Hassan, Planning Commission of Pakistan, Islamabad

Develops accurate and consistent estimates of changes in stocks

## Value Addition in Commodity Producing Sectors

### **Strategies to Control Diseases and Increase Productivity of Livestock Sector**

Dr. Muhammad Ashfaq, UAF, Faisalabad

Assesses impediments to improved disease control and livestock quality

### **Food Utilization among Poor Households in Peri-Urban Areas of Punjab**

Dr. Muhammad Khalid Bashir, UAF, Faisalabad

Investigates consumption among peri-urban households with focus on food safety

### **Effectiveness of Biofertilizer on Productivity of Chickpeas in Cholistan-Bahawalpur**

Dr. Maqshoof Ahmad, Islamia University, Bahawalpur

Demonstration trials and economic analysis of biofertilizer to raise production

### **Medicinal and Aromatic Plants to Promote Economic Development in Swat Valley**

Dr. Hassan Sher, University of Swat

Demonstrations and economic analysis of MAP cultivation to raise incomes and preserve species

### **Local Marketing Channels and Farm Profitability**

Dr. Bushra Yasmin, Fatima Jinnah Women University, Rawalpindi

Investigates marketing alternatives to raise farm incomes

## Export Promotion and Private Sector Led Growth

### **A Value Chain Analysis of the Leather Industry**

Dr. Zahoor Ul Haq, Abdul Wali Khan University, Mardan

Examines intra- and inter-firm determinants of value-added and export performance

### **Channelizing Pakistan-Afghanistan Informal Trade into Formal Channels**

Dr. Adil Khan Miankhel, Embassy of Pakistan, Kazakhstan

Examines informal and formal trade and possible preferential trade arrangement

### **Social Compliance Audits in the Textile and Garments Sector**

Muhammad Faraz, Bahria University, Karachi

Investigates labor practices that affect social compliance export requirements

### **Developing a Vibrant Financial System and Bond Market**

Dr. Syed Kumail Abbas Rizvi, Synergistic Financial Advisors, Lahore

Investigates market discipline on banking sector and potential for bond market development

### **Dynamic Behavior of Corporate Investment in Pakistan**

Dr. Adnan Haider, Institute of Business Administration, Karachi

Investigates micro-level/balance sheet determinants of KSE-Listed firm investment

### **Effects of Corporate Governance on Earnings Management Practices**

Bilal Hafeez, National University of Computer and Emerging Sciences, Islamabad

Investigates effects of corporate governance and audit regulation on firm performance

**High-Level Human Resource Management to Enhance Firm Performance**

Dr. Mansoor Ahmad and Dr. Muhammad Majid Khan, COMSATS, Islamabad

Investigates effects of large-firm HR management on absenteeism and other indicators

**Strategic Human Resource Management Practices for Medium Enterprises**

Dr. Naveed Ur Rehman, Iqra University, Karachi

Investigates effects of medium-firm HR management on performance

**Livelihood Diversification in the Rural Economy in Punjab and Sindh**

Dr. Faisal Jamil, NUST, Islamabad

Investigates farm, non-farm and remittance income strategies of rural households

**Social Capital**

**Competition between Private and Public Schools in Rural Pakistan**

Dr. Muhammad Jehangir Khan, PIDE, Islamabad

Assesses alternatives for improving school quality and effects on attendance

**Child Labour in the Urban Informal Sector**

Dr. Ambreen Fatima, AERC, Karachi

Assesses supply and demand determinants of child labour

**Health Benefits of Urban Open Spaces for Adolescent Girls**

Dr. Nomana Anjum, Allama Iqbal Open University, Islamabad

Assesses effects of open space access and outdoor recreation on health of adolescent girls

**Financial Literacy Challenge and Empowerment**

Dr. Imran Ali, COMSATS, Lahore

Investigates strategies for raising family financial management of low-income women

**Socio-Economic and Health Status of Female Cotton Pickers**

Dr. Muhammad Abubakkar, Sub Campus UAF, Vehari

Investigates health and economic status of women cotton pickers

**Employment in Textile Sectors**

Dr. Muhammad Khan, COMSATS, Lahore

Evaluates workplace safety and health status of women workers in cotton-textile industries

**Precarious Lives, Disrupted Bodies: Social Repair after Disaster in Northern Pakistan**

Omer Aijazi (Ph.D. candidate), University of British Columbia, Vancouver

Examines social repair after natural disasters and recovery strategies