Curriculum Vitae - AYAZ KHAN

Full Name: Ayaz Khan

Permanent #109/5 - Bazmar Street, Workshop Road.

Address: Habibullah Colony, Abbottabad - 22070, NWFP, PAKISTAN.

Phone: +92-992-380625, Cell:+92-300-8110102

E-mail Address: muhdayaz@brain.net.pk; khan.ayaz99@gmail.com

Nationality: Pakistani

Qualifications: B. Sc. (Civil Engineering), Military College of Engineering, Risalpur. 1978-79

MBA (Environmental Management), Preston University, Islamabad. 2002-03

Short Courses: Administration, combat field engineering (explosive handling & land-mines clearance), command, organization &

management, geodetic/topographic survey, control fixing, surveying & designing of mountainous roads and highways, mountaineering, radio communications, disaster relief management, 1970-1987.

Facilitation/Moderation of Planning Workshops.

Professional Institute of Engineers - Pakistan Associations: Pakistan Engineering Council

Chartered Institute of Transport (UK)

Languages: English, Urdu, Pashto, Punjabi, Hindko, Siraikee and working knowledge of Sindhi, Darri, Persian and Arabic.

Special Fields of Competence:

• Community/Rural Infrastructure Development Schemes – project formulation, designing, feasibility and implementation based on community participation, including water supply / sanitation and irrigation.

- Construction management and supervision of all types of "Civil Works" programs.
- Procurement of construction contractors through preparation of contract documents, tenders, bid invitation, bid analysis, comparative bid statements and recommendations for contract awards.
- Environmental assessment, auditing, management and evaluation of infrastructure and development projects.
- Survey, designing and supervision of roads/highways and irrigation channels, including contractual deeds and vetting of contracts, with special emphasis on environmental conservation.
- Planning, operations, management, execution, negotiation, monitoring and evaluation of various civil contracts, with financial control/management.
- Facilitation/moderation of conventional, ZOPP and PCM planning workshops.
- Land-mine clearance operations and its strategic planning.
- Emergency/Disaster relief works and humanitarian aid.

Computer Proficiency:

- Word Perfect, Win Word, MS Word
- Lotus 123, Excel
- GPS Software for topographic surveying
- Office/Window 2000

Professional Experience:

Jun 2010 - to date

USAID project. Regional Director QAQC (Quality Assurance & Quality Control), with International Relief and Development Inc (IRD), Afghanistan, implementing a US\$ 450 mil rural development project, Afghanistan Vouchers for Increased Production Agriculture Plus (AVIPA+). Besides, I am also responsible for the environment related issues, various professional reports and civil engineering infrastructures of the project, including dealings with USAID Afghan Mission.

Jan - May 2010

Senior Environment Coordinator with ECIL (Engineering Consultants International Ltd) for ADB funded roads & bridges in AJK, under Emergency Earthquake Assistance Project (EEAP). Multidisciplinary team member. Environmental and social monitoring of the project, during construction and implementation stage, including mitigation measures as per the approved EIA study.

Jul - Aug 2009

Technical engineering member of Mid-Term Evaluation Mission of € 65.00 mil EC funded Border Management Project in collaboration with Afghan Customs Department (ACD), including physical rehabilitation of buildings, roads, ware-houses and water supply facilities at Torkham, Sher-Khan-Bandar and Heiratan, adjoining Pakistan, Tajikistan and Uzbekistan, respectively.

Jan - Mar 2009

Environment and Social Safeguards advisor, along with land acquisition, resettlement & gender issues, Ministry of Rural Rehabilitation and Development (MRRD) for Afghan Rural Enterprise Development Program (AREDP). It is a WB funded program worth about US\$ 250 mil, working in all the 34 Afghan provinces for 10 years, under highly varying socio-environmental conditions.

Dec 2008 - Jan 2009

Conducted Environmental Impact Assessment (EIA) of a large new residential housing complex in an environmentally sensitive area of **Sultanate of Oman, Muscat**. This project is based at the foot of highest peak of Oman, Jabal-Al-Shams, 3,000 m (9,000 feet) high, in an ecologically sensitive area, with major focus on "solid waste management".

Sep - Oct 2008

WB funded Community Infrastructure and Services Project (CISP) in Azad Kashmir, a project of US\$ 75.00 millions, fielded in by **SEBCON** Ltd Islamabad. Engineering member of final evaluation mission, studying its design, implementation, and environmental aspects, all focusing on current implementation and advising for future project phase.

Feb - Jun 2008

USAID funded FATA Capacity Building Project, Peshawar, working with Development Alternatives Inc (DAI) as Civil – Military Relations Coordination and Liaison Expert, mainly coordinating between civil society members, military units operating in the tribal agencies and civil administration, fielded in through SEBCON Islamabad. Also provided civil engineering and environmental management advice to the project.

Oct 2007 - Feb 2008

Asian Development Bank (ADB), funded major roads in AJK, under Emergency Earthquake Assistance Project (EEAP). Consultant with ECIL (Engineering Consultants International Ltd) for Environmental Impact Assessment (EIA) report, and environmental monitoring of the project, and Land Acquisition & Resettlement Survey report.

Sep 2007

Government of Pakistan funded "Zero Point Interchange", Islamabad, project. Consultant with ECIL (Engineering Consultants International Ltd) for Environmental Assessment of the project for developing an IEE report, and environmental monitoring of the project.

Jul – Aug 2007:

German Agency for Technical Cooperation (GTZ), ADB funded Health Sector Project, in earthquake affected areas of Azad Kashmir. Consultant, for "Environmental Assessment" of project, leading to developing an Initial Environmental Examination (IEE) report, and environmental auditing/monitoring plan of the project.

May - Jun 2007:

Islamic Development Bank (IDB), funded TA, Western Basin Water Resources Management Project, Hirat, Afghanistan. Staff consultant with IDB for selection of project intervention, specific canals based on command area and maximum number of beneficiaries, indicative costing, and implementation schedule, all leading to a "Bankable Report" for loan/grant processing. Assignment also included developing an IEE report, and environmental auditing/monitoring plan of the project, including Land Acquisition & Resettlement Survey report.

Oct 2005 - Apr 2007:

Regional Program Manager, UNOPS, Afghanistan: As regional head of mission responsible for leading the team of national and international engineers and support staff, doing the work for planning, designing & implementation of a large type & variety of infrastructure works, all leading to rehabilitation of 25 years of war in Afghanistan, including Environmental Assessment of selected works of significant importance, including

Land Acquisition & Resettlement Survey report. The assignment also included (i) frequent traveling and close interaction with state functionaries in Tajikistan and (ii) procurement of civil works contractors, along with financial controls, administration & management.

May - Sep 2005:

Asian Development Bank (ADB), funded TA No.4221/PAK, Cross Border Trade Facilitation Project, Chaman, Balochistan. Consultant with ECIL (Engineering Consultants International Ltd) for Environmental Assessment of entire approach corridor, road and railway, including rail-track extension upto Spin Boldak (Afghanistan) for developing an IEE report, and environmental auditing/monitoring of the project.

July - Oct 2005:

ADB funded TA No.4425/PAK, Renewable Energy Development Project, Pakistan. Consultant with Integration, Gmbh, Germany, for Environmental Assessment, developing an IEE report, and environmental auditing/monitoring of the project.

Feb - May 2005

ADB, funded Road Sector Development Project (RSDP), Sindh, during implementation phase. Consultant with KAMPSAX, and ECIL for Environmental Assessment of rural roads and provincial highways for developing an IEE report, monitoring and environmental auditing of the project.

Feb - Mar 2005

Local associate consultant with ADB Pakistan Sub-regional Connectivity and Trade Facilitation Project, TA No.C-51015/PAK for conducting an IEE study of three NHA Roads in Punjab and Balochistan.

Jan - Feb 2005

Sui Southern Gas Company (SSGC) funded feasibility study of Nawabshah – Jamshoro – Karachi 24 inch Dia Pipeline Project, 300 km. Consultant with ECIL (Engineering Consultants International Ltd) for Environmental Assessment for developing an IEE report.

Sep - Oct 2004

Islamic Development Bank (IDB) funded feasibility study of Borovoe – Kokshetau – Petropavlsk Extended Road Project, 100 km, Northern Kazakhstan, upto Russian border in Western Siberia. Consultant with ECIL (Engineering Consultants International Ltd) for Environmental Assessment for developing an IEE report, including institutional re-strengthening of Kazak Road Department.

Aug - Sep 2004

City District Government, Karachi, feasibility/design study of 100 km long Karachi Coastal Highway Project. Consultant with ECIL for Environmental Impact Assessment (EIA). The project involved endangered specie of Green Turtles, mangrove forests and migratory birds refuge.

May - June 2004

Asian Development Bank (ADB), feasibility/design study of Multi-sector Rehabilitation Project, Azad Kashmir. Consultant with ADB for Environmental Assessment of the project for developing an IEE, Review Procedures and Sub-Project Selection Criteria.

April 2004

Consultant with Associated Consultancy Center (ACC) for EIA of 120 km Lahore – Faisalabad Highway, the first initiative of a private sector organization in Pakistan. The project is being executed under an agreement with Punjab Works & Services Department by a consortium of contractors, LAFCO (Lahore – Faisalabad Construction Company).

January - March 2004

Asian Development Bank (ADB), TA No.PAK/4116, feasibility/design study of Road Sector Development Project (RSDP), NWFP. Consultant with Danichi Consultants, Japan, and Associated Consultancy Center (ACC) for Environmental Assessment of representative sample roads and highways in NWFP for developing an IEE report, including institutional re-strengthening of Works & Services Department. Work included FATA areas of Khyber and North Waziristan as well.

December 2003

Monitoring and evaluation of small community based infrastructure development schemes, including shingle surface rural link roads, in Mansehra district and Kala Dhaka Tribal Area for **Sarhad Rural Support Program (SRSP)**.

October - November 2003

Member of final external evaluation mission to Northern Areas Conservation Project, Gilgit. Consultant with WWF – Pakistan/UK. A DFID funded project aimed; To improve the social conditions of communities in four project sites through sustainable development, conservation of nature, mountain eco-system and flora/fauna in selected sites of NAs are conserved.

July - September 2003

ADB TA No.PAK/3984, feasibility/design study of FATA Rural Development Project, NWFP. Consultant with Agrisystem UK for Environmental Assessment for developing an IEE, limited inputs for Rural Infrastructures and Resettlement Policy reports. The study is being conducted in tribal agencies of Bajuar, Mohmand and Khyber, adjoining Afghanistan.

May - July 2003

Islamic Development Bank (IDB) funded feasibility study of Borovoe – Kokshetau – Petropavlsk Road Project, 250 km, Northern Kazakhstan. Consultant with ECIL for Environmental Assessment for developing an IEE report, including institutional re-strengthening of Kazak Road Department.

April - June 2002 & August - November 2001

ADB TA No. PAK/3675, feasibility/design study of RSDP, Punjab/Sindh. Consultant with ADB for Environmental Assessment of representative sample roads in Punjab for developing an IEE report, including institutional re-strengthening of Communication & Works Departments.

February - March 2002

National Highway Authority, N – 5, World Bank funded project for rehabilitation & resurfacing of 11,000 km highway. Consultant with M/S Engineering General Consultants (EGC), Environmental Assessment for developing a Sectoral Environmental Assessment (SEA) report, including institutional re-strengthening of National Highway Authority (NHA).

Apr 2000 - July 2003

Chief Coordinator, HAASHAR Association. A regional NGO working in Hazara Division for community development and poverty alleviation, mainly working on resource conservation, health, education, rural infrastructures, enterprise development and others.

January 2002

Urban Planning & Development Management System, Peshawar, feasibility/design study of the project. Consultant with ECIL, **Environmental Assessment** for developing an **IEE** report, including institutional re-strengthening of Peshawar Development Authority (PDA).

October - Dec 1999, October - December 2000 and April - May 2001

ADB funded Rural Access Road Project Phase I, Consultant with KAMPSAX International Copenhagen for monitoring the implementation of environmental damages, in the shape of (I) engineering, (ii) biological and (iii) social measures in selected areas of NWFP. Also performing the duties of "Senior Highways Engineer" for construction supervision, quality controls and adherence to proposed design criteria.

September 2000

UNOPS/IFAD/IDB & GoP funded Project Closing Review (PCR) mission to **Mansehra Village Support Project (MVSP)**, Mansehra, covering (i) farm to market roads, (ii) irrigation channels, (iii) village infrastructure schemes, (iv) social forestry and (v) environment.

May - June 2000

UNDP/UNOPS, IFAD & GoP funded follow-up cum supervision missions to Northern Areas Development Project (NADP), Chilas, and Neelum Jhehlum Valley Community Development Project (NJVCDP), respectively, covering (i) valley roads, (ii) irrigation channels, (iii) rural infrastructure schemes, (iv) slope stabilization, (v) environment and (vi) natural resource management.

January - March 2000

ADB funded Sindh Rural Development Project, Rural Infrastructure Consultant with Agrodev Canada Inc: + HALCROW (Pakistan) in five districts of Sindh, i.e. (i) Badin, (ii) Dadu, (iii) Mirpurkhas, (iv) Thatta and (v) Umerkot for feasibility cum design study (PPTA Team) of the potential project with a major focus on poverty alleviation based on participatory approaches.

Aug - September 1999

UNDP/UNOPS, IFAD & GoP funded **NADP**, Chilas, UNOPS "Project Supervision Mission" for (i) valley roads, (ii) irrigation channels and (iii) social infrastructure schemes.

June - July 1999

GoNWFP – Conducted following studies under the directive of Chief Minister NWFP and made presentations, (i) Abbottabad Beautification Plan: Indicating impediments and proposed mitigation modes by adopting which the indigenous character of the town can be restored and (ii) Working Paper for Galiat Development Authority (GDA): GDA is the new alternative for 40 years old Hazara Hill Tract Improvement Trust, meant to address the needs of local population and development of tourism.

May - Aug 1998

GTZ Urban & Industrial Environment Project Peshawar, Team Leader/Program Manager for pilot program of brick kilns to (i) check against environment pollution, while ensuring (ii) quality brick production and (iii) cost effectiveness.

April 1998

Swiss Development agency for Cooperation, **Peshawar**, consultant for the fact finding mission to conduct an inventory survey in NWFP for the interventions made for agro-/farm forestry though various (i) forestry/area development projects and (ii) other local/donor agencies.

February - March 1998

GTZ sponsored study for a cross-sectional analysis of all on-going and future planned rural development projects in NWFP.

June 1997

ADB funded NWFP Forestry Sector Project Peshawar, consultant for rural infrastructure development works, responsible for (i) Feasibility study for the selection of infra-structural village development schemes within 7*RMUs/RMSs of the project & (ii) Concept paper for selection criteria for the schemes, community organization, training and post-completion operation and maintenance.

March 1997

GTZ Siran Forest Development Project Abbottabad, consultant, responsible for the training for field operations, organization, management and post-processing of GPS field data for monitoring and evaluation of afforestation works.

August 1994 - December 1996

GTZ Siran Forest Development Project Abbottabad, Lead Consultant, responsible for the following:

- Monitoring of afforestations done under **Tarbela Watershed Management Project**, including topographic survey for area measuring the plantations with Global Positioning System (GPS), data collection, post-processing and plotting in GIS/CAD software.
- Surveying, designing and construction supervision of forest roads/bridges with special emphasis on conservation of natural ecology.
- Procurement of construction contractors through preparation of contract documents, tenders, bid invitation, bid analysis, comparative bid statements and recommendations for contract awards.
- Establishment of Ground Control Points (GCPs) from satellite imagery (SPOT) for Digital Terrain Model (DTM) to make topographic map sheets.
- Ground truthing for analysis of satellite imageries for forest resource inventories and the GTZ sponsored study for the affairs of Forest Cooperative Societies and Forest Development Corporation.
- Resource person for GTZ Project Progress Review (PPR) Mission.
- Delegate at IUCN organized 5*days regional workshop for South Asia, by Commission of National Parks and Protected Areas (CNPPA).
- Delegate at German Science Foundation 2*weeks excursion to Northern Areas and symposium at Islamabad, organized by Cultural Area Karakoram (CAK) Project.

September - October 1996

Member GTZ/KfW Project Progress Review (PPR) Mission for **Primary Education Program (PEP)**, NWFP, for appraisal and evaluation of the project for its potential extension. Responsible for (i) Planning, designing and construction quality, including construction management, (ii) Analytical comparison of construction quality between C & W Deptt: and the construction work by PEP and (iii) Community participation in terms of quality deliverance of buildings and educational standards.

February - March 1996

World Bank funded Primary Education / Rural Water Supply Project, Azad Jammu & Kashmir (AJK). The study was extended over three districts, conducted by HALCROW (Pakistan) Ltd. I was responsible for engineering component: (i) To study the process of planning, designing, construction and building maintenance with deep focus on community involvement, thereby advising GoAJK and World Bank accordingly and (ii) To study the samples of rural water supply schemes for planning designing, construction and maintenance through involvement of local communities.

September 1995

International Labour Organization (ILO): Preparation of a <u>Rural/Mountainous Areas Road maintenance Manual</u> based on community participation, where tailor made trainings were also organized.

July - August 1994

Asian Development Bank (ADB) funded Forestry Sector Project in NWFP and Northern Areas (NAs) of Pakistan, responsible for: (i) advised them for rural infra-structural development works in remote valleys of Kohistan / Northern Areas and (ii) Organized, conducted, facilitated and documented a series of expert consultation workshops at Mansehra, Kohat and Gilgit.

April - May 1994

GTZ Siran Forest Development Project Abbottabad, Conducted a study for awareness raising, environmental education, public relations and bridging the communication gap amongst project, Forest Department and beneficiary communities.

December 1993 - February 1994

Sarhad Rural Support Corporation (SRSC), Peshawar, an IFAD funded basic Socio-Economic and Health & Nutrition surveys for their Pilot Project Areas of Mansehra, Charsadda, Kohat and Karak Districts, entrusted to M/S SEBCON (Pvt) Ltd., Islamabad. As a field team leader,

assignment included (i) Random selection of villages, (ii) Training of male/female survey teams, and their supervision, (iii) Preparation of village profiles, and (iv) RRA.

September 1992 - December 1993

Sungi Development Foundation (SDF), Abbottabad, a rural development NGO, having their main focus on "Save The Forests" community awareness campaign. As Member Board of Governors, I contributed to (i) Distribution of relief goods during Sept 1992 floods, (ii) Detailed post-flood survey for assessment of ecological and infra-structural damages, (iii) Survey/designing/cost estimation &, supervision/monitoring of infrastructure rural development schemes, through exploitation of local resources, (iv) Conducted a research study on rapid deforestation in Hazara region, with pertinent focus on the role of local communities in co-relation with the Forest Department. Formulated a training and mass awareness programme for the communities living in forest areas of Hazara and prepared a 35 minutes video documentary film "Mit-Tay-Sai" (The Vanishing Shadows) and (v) Conducted and facilitated a workshop, the first of its kind, where Forest Department, donor agencies and all segments of communities, related directly/indirectly with forest resource, were provided a common platform to discuss the problem of rapid deforestation.

April - September 1993

GTZ Siran Forestry Project, Abbottabad, in this span conducted following short span consultancy assignments, (i) assessment, designing, estimation, community organization and supervision of the September 1992 flood damage to non-government public buildings, (ii) assessment/evaluation of existing forest roads in Upper Siran Valley, for improvement and construction purposes and (iii) advice on procurement of road construction equipment and earth-moving plant/machinery.

January 1991 - March 1993

Conducted various assignments for different government agencies, NGOs and autonomous/semi-autonomous departments, (i) Surveying, designing, estimation and earthwork computation of roads in various areas of NWFP for Communication & Works Department and (ii) Topographic survey, designing and layout of Sund Gali Housing Scheme for Muzaffarabad Development Authority, Azad Jammu and Kashmir.

January – December 1990

Kalam Integrated Development Project (KIDP), Kalam, Swat, conducted following consultancy assignments, (i) Detailed alignment, survey, designing, cost estimation and quantity surveying of Kukonel-Bayun Road, (ii) Designing of timber cantilever bridge on Ushu River at Kalam, (iii) Post-completion monitoring, evaluation and benefit impact assessment study of a large variety of Permanent Village Infrastructures Schemes (PVIs), (iv) Physical inspection and post-auditing for financial expenditure on all construction work of Kukonel-Bayun Road, accompanied by spot-checking and (v) Proposed re-organization plan for the engineering wing of the Village Development Program (VDP) Sector of KIDP.

June - December 1989

USAID Kala Dhaka Area Development Project Mansehra, conducted following consultancy assignments, (i) participated in two initial strategic planning workshops, (ii) strategic planning of infrastructure works, based on community participation, (iii) design and implementation of a large variety of rural infrastructural works.

January 1970 - September 1988

Pakistan Army, Corps of Engineers, served on different technical, command, staff and field appointments. The following have been the major areas of experience and employment.

- Karakoram Highway, 5 years employment with Chinese road builders. The task included road surveying, designing, investigations, construction and project management works.
- Coordinator disaster relief work, Pattan earthquake of December 1974 in Kohistan District.
- Worked on Kala Dhaka (Black Mountain), Thakote Darband Road Project, located along the left bank of Indus River.
- Employment in tactical areas, main tasks included combat engineering, mine laying/clearance, demolition, tactical roads, equipment & suspension bridges, water supply, sewerage and various other civil construction works of general & specialized nature.
- Employment in Khyber, Bajaur and Mohmand Agencies during Afghan crisis of 1981-82. The main tasks included rehabilitation of old British defenses and road communication networks along Durand Line.
- Garrison Engineer (GE) of a defense forces garrison with Military Engineering Services (MES). The salient tasks were construction and
 maintenance of roads, bridges, railway tracks, residential/specialized buildings (Ammunition/Petrol Depots), electricity, water supply,
 sanitation and sewerage etc. Planning, operations, management, execution, negotiation, monitoring and evaluation of different contracts,
 with financial controls, administration & management.
- Procurement of construction contractors through preparation of contract documents, tenders, bid invitation, bid analysis, comparative bid statements and recommendations for contract awards.
- Floods relief work in Punjab during 1973-74 and 1978.
- Chief Instructor at Army School of Survey, Abbottabad.

Honors and Awards

- In 1976 was conferred upon Chief of Army Staff "Letter of Commendation" for the pursuit of Outward Bound activities.
- In 1979 was decorated with gallantry award of "Tamgha-e-Basalat" for making outstanding contributions on the designing and construction of The Karakoram Highway.

Extra-Curricular Activities

- Mountaineering, trekking, snow/ice/rock climbing in Karakorams/Himalayas/Hindukush. Member of first Pakistani mountaineering expedition, Services Paiju Expedition 1976.
- Established Mountaineering Training Institute Nilt, Gilgit, Alpine Club of Pakistan in 1977.
- Accompanied several mountaineering/trekking/scientific expeditions to Northern Areas of Pakistan.
- Member Alpine Club of Pakistan.
- Member Adventure Foundation of Pakistan.
- Free-lance professional landscape photographer.
- Free-lance photojournalism.
- Guest speaker at national and international tourism seminars.
- Member Rotary International.
- Member Hazara Abasin Art Council Abbottabad.
- Ex-member Board of Governors, SUNGI Development Foundation.
- Member Board of Governors, HAASHAR Association.

Articles, Lectures and Publications

Khan M.A. 1977. Chinese Techniques of Road Building, Frontier Works Organization Journal.

Khan M.A. 1981. History of Defense Systems along Durand Line, Defense Review.

Khan M.A. 1981. Rehabilitation of British Defenses along Durand Line.

Khan M.A. 1983. Effects of Open Sewerage Disposal on Water Supply & Health Hazards, including Usage of Sewage Treated Water.

Khan M. A. 1985. Kala Dhaka, in Cultural and Historical Perspective, Frontier Works Organization Journal.

Khan M.A. 1987. Geodetic Survey and Exploration of Northern Areas of Pakistan.

Khan M.A. 1991. Hazara, in Historical Perspective.

Khan M.A. 1992. Sapat Valley of Indus Kohistan, A Heaven for Adventure Tourism.

Khan M.A. 1993. Exploratory History of Kaghan and Tourism Potentials.

Khan M.A. 1993. Rapid Deforestation and September 1992 Floods, Sungi Journal.

Khan M.A. 1998. The Resonance of Gandhara Culture in Mansehra District of Hazara Division, Scientific Studies of "Pak – German Research Project", "CULTURAL AREA KARAKORUM".