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| **Curriculum Vitae** | |
| 1. **Name of Expert** | **Bahramand Khan** |
| 1. **Current Residential Address** | House No. 546 – F5 Street 21, Phase 6, Hayatabad Peshawar, KP, Pakistan |
| Phone | 0321 9133650 |
| Email | [bahramand@hotmail.com](mailto:bahramand@hotmail.com); and; bahramand\_k@yahoo.com |
| 1. **Date of Birth** | 11 March, 1962 |
| 1. **Citizenship** | Pakistani |
| 1. **Education** | * M.Sc. Environmental Engineering University of Engineering and Technology, NWFP, Peshawar, Pakistan (2008) * B.Sc. Civil Engineering (Honors), University of Engineering and Technology, NWFP, Peshawar, Pakistan (1984) * One month Training on “Microsoft Certified System Engineer   (MCSE)” from Frontier Information Technology and Science Institute (FITSIN) Peshawar, Pakistan (July 1 to July 31 1999) |
| 1. **Membership of**   **Professional Societies** | Life member Pakistan Engineering Council (PEC) |
| 1. **Other Training** | * Participated as resource person in UNDP/World Bank Sponsored Training Programme for Engineers, "Use of microcomputer in design of rural water supply, and sewerage systems", Held in Peshawar, NWFP and Quetta, Balochistan. * Five days training in “Role of front-line workers for sustainable water supply and sanitation projects” at National Center for Rural Development (NCRD) Islamabad (March 26 to March 30 1995). * Seven days training in "Thematic Training of Trainers" at the Association for Development of Human Resources (ADHR) Islamabad. (May 30 to June 5,1996) * Five days "International Training Course on Ground Water Geology and Potable Water Supply to Rural Areas" at Center of excellence, Peshawar University organized by SEGMITE.(October 6-10,1996) * Five days Management training in "Development Course for Managers" at Pakistan Institute of Management ( PIM) Lahore.(October 12-16,1996 ) * Five courses of 3 days each in Low Cost Water and Sanitation including, low cost water treatment, low cost sanitation, low cost water supply and economic appraisal of project. * Participated in the SACOSAN IV held in Colombo Srilanka as representative of the provincial Government. |
| 1. **Countries of Work Experience** | Pakistan, East Timor |
| 1. **Languages** |  |
|  | **Speaking Reading Writing** |
| English | Good Good Good |
| Urdu | Good Good Good |
| Pushto | Good Good Good |

1. **Experience**

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| **Summary of Experience** | * Over twenty five years of professional experience with core expertise in planning, designing & management of rural, urban and emergency water supply & environmental sanitation; rural roads, small irrigation projects, capacity building and organizational restructuring. Monitoring and Evaluation of Water and Sanitation Projects/Programs. Development of training materials and conducting training programs in management of water and sanitation including water quality monitoring and sanitary inspection protocol. Adequate experience in procurement, construction supervision, financial management and quality control of civil engineering projects. Led and actively assisted the preparation of water and sanitation policies, strategies and action plans, Project documents, Concept Papers & Working Papers in the W&S sectors using AutoCAD, MS Excel, MS Word and MS Project. |
|  | * As Wash consultant Work on Evaluation of Oxfam GB funded water and sanitation program for IDPs during January 2010. * Worked on evaluation of GOP/ UNICEF Water and Environmental Sanitation (WES) Program (1992-98), NWFP. * Worked as Case Study Consultant for Project Benefits **Monitoring and Evaluation** (PBME) of Water Supply, Drainage and Sewerage projects implemented under ADB funded Urban Development Project Pakistan. * Worked on feasibility study of **Asian Development Bank funded NWFP Urban Development Project (NUDP) under TA No. 2940-PAK.** |
|  | * Eight months assignment with the **United Nations Transitional Administration in East Timor**. The nature of assignment was to develop an organizational structure for future East Timor government, capacity building and formulate and implement urgent rehabilitation projects including design, estimates, procurement and store management. As Acting Manager of Dili (the Capital of East Timor) Water Supply, worked on restoration of water supply system, procurement and training of the staff. Later on, posted as **Manager Environmental Health Division**; activities included drafting of policy guidelines, development of village level structure and capacity building programme and working closely with the communities, development and implementation of low cost water and sanitation projects and facilitating and co-ordinating Donor/NGO funded community water and sanitation programmes. * Worked with Pak-CDP, a local NGO, on UNHCR/UNICEF/CRS funded **Emergency Water and Sanitation Programme** including **water quality monitoring.** * Prepared “Drinking Water Sector Profile” for Tribal Areas of Pakistan * Worked on unicef funded SABAWON implemented low cost community based sewerage projects and water quality monitoring programme in four areas of NWFP, Pakistan * Carried out Impact Evaluation of Northern Areas Development Project for Infrastructure components of the programme, including Water Supply, Sanitation, Irrigation, and link & Valley roads and bridges components. * Worked on MoEnvt/UNICEF supported National Water and Sanitation Policy & Position paper on Sanitation for SACOSAN with Associates in Development (AID) as a senior consultant. * Worked on UNICEF emergency relief and rehabilitation programme as Assistant Project Officer (Water and Environmental Sanitation) in Earthquake affected areas of NWFP. * Prepared a Booklet on Safe Water, Sanitation and Hygiene for CARE International Islamabad. * Worked on preparation of 9 years Sustainable Development Plan for FATA in collaboration with IUCN. * Prepared, with a team of international consultants, the Afghanistan WATSAN Sector Review. * As Director Capacity Building USAID funded “Pakistan Safe Drinking Water and Hygiene Promotion Project (PSDW-HPP)” I worked on assessment and re-operationalization of the Government of Pakistan’s (GOP) Clean Drinking Water For All (CDWA) program with complementary hygiene and sanitation promotion activities. The main components of the project were; assessment of the non-functional water filtration plants, coordination with stakeholders and contractors, community mobilization and capacity building activities. PSDW-HPP interventions were geared up to ensure that these plants are maintained on sustainable basis in the project districts. * As member of UNDP team, worked on assessment and project preparation on “Conflict Early Recovery Initial Needs Assessment (CERINA)” for people of conflict affected areas of Malakand Division and FATA. * Concluding an assignment for UNICEF on Design of Child Friendly School Water and Sanitation Facilities. * As member of the technical committee for preparation of water and sanitation policies and strategies as well as provincial BCC strategy and action plan and PC-1. * Member of the committee for establishment of urban water and sanitation utility (WASA) for provincial capital city of Khyber Pakhtunkhwa province of Pakistan. |

My career comprises of two types of assignments:

1. Consulting Assignments; Private Sector, NGOs, local and International Consultants, Donors and United Nations.
2. Government Assignments; University of Engineering & Technology Peshawar & Public Health Engineering Department NWFP Peshawar Pakistan.

Details are provided in the following pages.

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| **Consulting Assignments** | |
| Date | January 2010 |
| Client | H&H Consulting/Oxfam GB |
| Project | Evaluation of Oxfam GB funded WASH Program for IDPs |
| Position | WASH Consultant |
| Description of Duties | * Review relevant documentation, reports and meet/consult the Program and Project staff to clarify the context and purpose of the review; * Review and assess roles of the main partners and stakeholders (Beneficiaries and Government) with special reference to achievement of Program objectives and effective delivery of results; * Analyze the working conditions and their implications on effective and efficient implementation of the Program and assess the performance of the implementing partners and level of support extended by OGB; * Document lessons learnt based on available information. |
| Date | March 2009 to Dec 2011 |
| Client | Pak-CDP/UNHCR |
| Project | Development of camps for Internally Displaced Persons of Bajaur, Swat, Buner, Dir and Malakand Agency |
| Position | Chief Technical Advisor /Planner |
| Description of Duties | * Identification and Assessment of suitable sites for establishment of camps for IDPs * Preparation of budgets, workplans * Hiring, orientation and training of staff * Survey, Planning and design of the camp * Supervision of layout, demarcation and pitching up of tents * Design and construction of roads, culverts, drainage system, lighting, fencing, sheds etc. |
| Date | January 2009 to March 2009 |
| Client | SSD-Afghanistan |
| Project | Afghanistan WATSAN Sector Review |
| Position | International Technical Advisor |
| Description of Duties | * Preparation of technical, financial proposals including workplan * Afghanistan WATSAN sector review * Consultation with various stakeholders in WATSAN sector in Afghanistan for preparation of revised WATSAN Strategy |
| Date | May 15 to September 15 |
| Client | UNICEF Islamabad |
| Project | Design of Child Friendly School WES Facilities |
| Position | Consultant |
| Description of Duties | * Gather and review the available designs, drawings, and bill of quantities /cost estimates of the various options of drinking water supply and sanitation facilities being promoted in Pakistan by the Government in collaboration with UNCEF and other agencies(e.g. donors and NGOs.); * Review the existing designs/drawings of ERRA, PWD, Provincial Works and Services Department and other relevant agencies; * Discuss technical issues and constraints in construction of water and sanitation facilities with the relevant departments/organizations; * Prepare the revised standard designs, drawings, detailed bill of quantities and cost estimates (based on locally available materials and transportation costs) and specifications for various options of province-specific water and sanitation facilities as mentioned above and while giving due consideration to existing school designs (ref.2 above ) * Prepare Technical Manual on the design, costing and construction of school water and sanitation facilities. * Recommended/ develop comprehensive guidelines for training of the field staff on how to use the document/manual as well as for quality control and monitoring of physical work in future by implementing partners e.g PTAs/SMCs. |
| Date | Feb 15 to April 30, 2008 |
| Client | International Organization for Migration (IOM) – FDP-GC |
| Project | Participatory Assessment, Planning and Design of Twenty Unique Water Supply Systems in Khyber Agency, FATA |
| Position | Consultant |
| Description of Duties | * Develop action plans and facilitate program-targeted actions, in coordination with relevant government and political authorities and line departments. * Facilitate activities that assist government authorities to liaise with community leaders, individuals and groups to identify and prioritize community needs. * Work with government and local authorities, leaders, individuals and groups to survey project sites and carry out technical feasibilities of the sites. * Identify appropriate mechanisms to adapt structures and to tender bids from contractors or local labour in coordination with the Procurement/Contracting unit. * Identify appropriate mechanisms and make designs of alternate sources to make the system functional on a sustainable base, when applicable. . * Develop an implementation strategy for the completion of work for each of the water systems. * Develop a monitoring strategy for implementation, including identification of technical and political indicators and a system for the tracking of those indicators. * Liaise with the Procurement/Contracting unit for the planned procurement of project materials, ensuring that the Logistics Coordinator receives adequate notice of requirements for supplies and equipment. |
| Date | December 2005 to June 2007 |
| Client | Pak-CDP |
| Project | School WES and Community WES in District Batagram and Mansehra |
| Position | WES Consultant |
| Description of Duties | * Developed proposals for Community and school WES * programmes. * Prepared concepts, drawings, BOQ and Budget/cost estimates and work plans for School and Community WES projects * Technical backstopping to field staff working on the above projects. * Orientation training to the staff before deployment. * Monitoring and progress reporting. |
| Date | October 2005 - December 2005 |
| Client | UNICEF |
| Project | UN Emergency Relief and Rehabilitation Programme |
| Position | Assistant Project Officer |
| Description of Duties | * Assessment and formulation of short term plans for water and sanitation rehabilitation as quick response to the affected population. * As a cluster head, coordinated the activities of all the International and National Agencies working in district Batagram in water and sanitation sector. * Identified and engaged implementing partners for rehabilitation and provision of water and sanitation facilities to displaced population. * Monitored, compiled and reported activities of the all agencies working in the sector. * Kept close liaison with government agencies in the district. |

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| Date | July 2005 to October 2005 |
| Client | UNICEF/MoEnvt/AID |
| Project | Formulation of National Water and Sanitation Policy |
| Position | Senior Consultant |
| Description of Duties | Developed background paper for drafting National Water and Sanitation policies based on extensive consultation with all stake holders through a series of meetings, focus group discussions and workshops throughout the NWF Province.  Developed draft position paper on sanitation for SACOSAN II proposed to be held in Islamabad. |
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| Date | April 2005-June 2005 |
| Client | SSD (program funded by NADP) |
| Project | Northern Areas Development Project (NADP) Chilas Gilgit |
| Position | Evaluation Consultant |
| Description of Duties | * Assessment of the socioeconomic impact of the project funded activities carried out in the area (Diamer District) through PWD, LGRDD and Irrigation section of the project. * The effects of the project on strengthening on the above-mentioned department and sections itself, buildings of roads and bridges, irrigation channels, drinking water supply schemes and protective embankments. * Effects of training imparted to the officials of the concerned department and sections. * Assessment of the Quality of the infrastructure and suggestions to improve * Comparison of the socioeconomic situation of the area before the project intervened and now. |
| Date | September 2004 to December 2004 |
| Client | SABAWON (program funded by UNICEF) |
| Project | Water Quality Monitoring in Hangu and Mardan District |
| Position | Water Quality Management Advisor |
| Description of Duties | 1. Development of a sanitary inspection protocol (SIP) outlining the entire procedures, steps, forms, reporting channels and actions required for an effective and community/Town Municipal Administration (TMA) managed water quality monitoring system. 2. Established water quality testing laboratories at field level. 3. Technical Backstopping for testing of SIP in a pilot water supply scheme. 4. Implementation of SIP through sanitary inspectors in all water supply schemes under the jurisdiction of both TMAs. 5. On-the job training sessions for operational staff/sanitary technicians, water quality laboratory technicians. 6. Managing and coordinating all project activities including preparation of workplan for TMA and village councils and providing support to the field staff 7. Documentation including preparation of progress reports and final report. |
| Date | October 2001 to September 2004 |
| Client | Pak-CDP (programs funded by UNICEF/CRS/UNHCR) |
| Project | Emergency response to water and sanitation needs of Afghan Refugees |
| Position | Water and Environmental Sanitation Engineer |
| Description of Duties | * Preparation of a quick response emergency water and sanitation plan for Afghan Refugees in five camps i.e Kotkai 1&2 in Bajaur Agency and Old Bagzai, Asgharo 1&2, in Kurram Agency. * Rehabilitation and modification of the existing water sources and negotiations with the owners to arrive at an agreement for camp water supply. * Managing emergency water delivery system through tankers including collection, conveyance, distribution, chlorination and monitoring. * Development of long-term water and sanitation plan for refugee camps including drawings, designs and quantities estimations based on UNHCR standards. * Procurement of materials and Implementation and monitoring of the program * Co-ordination with UNHCR and other relief agencies working for the same refugees in the area. * Human excreta and solid waste management * Development and implementation of Water Quality Monitoring Programme in all new Refugee Camps in Tribal Areas. |
| Date | November-December 2000 |
| Client | International Union for Conservation of Nature (IUCN), Pakistan |
| Project | Development of District Strategy for Abbottabad District |
| Position | Consultant |
| Description of Duties | * Study all major past, present and future initiatives in infrastructure sector and review related issues with reference to their sustainability. * Brief description of all key stakeholders with their strengths and weaknesses. This will include organizing a workshop for the stakeholders to solicit their views besides broadening the ownership of the strategy. * Critically analyze the issues including, technical, social financial, institutional and political issues and highlight factors impeding sustainable development of the sector. * Provide policy recommendations for the future planning and implementation of sustainable development programmes in the infrastructure sector including appropriate financial mechanism, capacity/institutional building needs and other technical and non-technical aspects. * The paper should consider cross cutting themes such as education, gender, community participation, communication and NGOs etc. |
| Date | February 2000 to September 2000 |
| Client | United Nations Organization (UNO) |
| Project | Assistance in the Establishment of United Nations Transitional Administration in East Timor |
| Position | Water & Sanitation Engineer/Manager Environmental Health Division |
| Description of Duties | * Worked on emergency restoration of Dili water supply system including procurement of materials and chemicals for water treatment and quality monitoring, store management and repair and restoration of water lines to the city population. * Assisted the head of Water and Sanitation Service in the establishment of an appropriate organizational structure for future East Timor water and sanitation sector. * As Manager Environmental Health Division, closely worked with the communities and managed the implementation of community water and sanitation progarmme and started a pilot project based on community management concept. * Developed sector related policy guidelines, criteria, standards and procedures. * Developed two training proposals for AusAid funding – one for operational and workshop staff of Water Authority East Timor and second for Engineers and District Water Managers. * Other activities included; assessment of the existing condition of, and formulation of quick impact projects for, towns water supply, arranging materials and technical support to district administration and NGOs working on restoration of existing systems, coordinating and facilitating the activities of Donors and NGOs working in the sector including WB, ADB, UNICEF, JICA, OXFAM, ICRC, AusAid. |
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| Date | March-April 1999 and August September 1999 (On Leave From PHE Department) |
| Client | CarlBro International a/s and COWI of Denmark and ACC and AID of Pakistan |
| Project | NWFP Urban Development Project (NUDP) TA No. 2940-PAK |
| Position | Water and Sanitation Engineer |
| Description of Duties | As a member of multinational, multi sectoral team, worked on the urban Development project for seven towns of NWFP, Pakistan.   * Major components/outputs of the project are: * Urban Development Sector (UDS) policy statement * UDS Reform Action Plan * Updated Structure Plans * Prioritized UD investment plan * UD investment financing plan * Local Administrative capacity building program * Provincial guidelines and implementation frame work * GIS needs, feasibility assessment and project proposals * 12-14 feasibility studies and preliminary designs. |
|  | * Specific responsibilities included: |
|  | * Assessment of the existing service level in the project towns and contribution to the preparation of database and out line structure plan. * Assessment of the capacity of existing organizational structure of the Municipal authorities for implementation of project and O&M |
|  | * preparation of inventory regarding existing services provision of the towns * identify backlog in the sectors of water supply, sanitation and solid waste disposal. * define appropriate service standards. * Identify priority projects in consultation with the community and the Municipal staff. * Preparation of feasibility studies and cost estimates. |
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| Date | January 1999 to March 1999 |
| Client | Enterprises and Development Consulting (pvt), Islamabad |
| Project | Evaluation of GOP/UNICEF Water and Environmental Sanitation (WES) Programme . |
| Position | Community Engineer/Provincial coordinator |
| Description of Duties | Assessment and Evaluation of the UNICEF funded WES Program in NWFP between 1992-1998 through holding of extensive dialogues with LG&RDD, UNICEF, NGOs and communities involved in WES programme in NWFP.   * Collecting DATA on the coverage of water sector in NWFP including details of the coverage of PHED, LG&RDD and the private sector, Organizing and supervising the field survey of hand pumps and latrines installed by LG&RDD/UNICEF in six districts of NWFP. * Preparation of a report based on the views of the communities and implementing agency's field staff about the UNICEF WES Program, its impact and how it can be improved Preparation of a report on the extent of women participation in and their views on the Program. * Undertaking of a survey of the available technologies in the water and sanitation sector and preparation of a matrix giving details of available technology its specification and cost. |
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| Date | January 1997 to January 1998 (staggered input) and May 1999. |
| Client | Pakistan Community Development Program ( Pak-CDP) an NGO |
| Position | Consultant/Technical Advisor |
| Description of Duties | In consultation with the communities and in an effort to identify appropriate technology, assisted Pak-CDP in preparation and implementation of the following projects : |
|  | * Design and Implementation of three number small rural water supply projects in FR Kohat, NWFP. |
|  | * Design and implementation of urban water supply scheme in a slum area (Pir Ghaib Baba) at Peshawar, NWFP |
|  | * Design and implementation of urban sewerage system in the same area (Pir Ghaib Baba) Peshawar |
|  | * Feasibility study for environmental up gradation of Qaziabad, an urban slum across Peshawar Ring Road. |

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| Date | June and Sep, 1997 Sep, 1998 and July 1999 |
| Client | Strengthening Participatory Organizations (SPO), a Peshawar based NGO |
| Position | Consultant/Technical Advisor |
| Description of Duties | Technical Assistance for design and implementation of community managed rural water supply schemes in Mansehra, Abbottabad, Hangu Kohat and districts, |
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| Date | July 1997 to September 1997 |
| Client | Project Management Unit/Associates In Development (AID) |
| Position | Senior Consultant |
| Description of Duties | Project Benefits Monitoring and Evaluation of ADB funded Second Urban Development Projects in the field of Water Supply, Sewerage, Drainage and Area Upgrading in Peshawar, Kohat, Bannu, DIKhan, Mardan and Abbottabad. |
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| Date | March 1995 to August 1995 |
| Client | GTZ "Pak-German Promotion of PHED, NWFP" |
| Position | Secretary of the Task Force |
| Description of Duties | Preparation of policy document for the Government of NWFP for gradual transfer of existing rural water supply schemes to the concerned beneficiaries. |
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| Date | 1991 to 1995 ( staggered input) |
| Client | Khyber Consulting Engineers, Peshawar |
| Position | Senior Engineer/Consultant |
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| Description of Duties : | Worked on various projects, major of which are:   1. Design and preparation of PC-I for water supply sewerage and drainage systems in Kanju Township Swat, NWFP. 2. Design of roads under IGPRA project in Dir Peshawar and Kohat Districts, 80 km Zhob-Gulkach road in Balochistan, Lachi By pass using CAD system. |
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| Date | 1985-1987 |
| Client | Gulf consulting Engineers |
| Description of Duties | Designing and cost estimation including preparation of PC-1 for Small irrigation projects in hilly areas of Northern NWFP. |