CURRICULUM VITAE (CV) FOR PROPOSED KEY STAFF

1. **Proposed Position**
2. **Name of Expert** Muhammad Farooq
3. **Date of Birth** July 19, 1956
4. **Country of Citizenship/Residence** Pakistani

5. Education:

Degree	Institution	Year of Passing
BSc (Maths, Physics)	Punjab University, Pakistan	1975
BSc (Civil Engineering)	University of Engineering & Technology, Lahore, Pakistan	1982
MSc Engineering	University of Engineering & Technology, Lahore, Pakistan	1996

5a. Training:

- Visit of China, Turkey, South Korea, Singapore, Dubai, and America for Road Show for fund raising for Dasu Hydropower Project during 2015
- One month Environment & Social Assessment Training in Norway, 2003
- Visit of Hydropower Projects and Manufacturing Facilities of Turbines and Generators in Germany, Switzerland, Austria and Spain, 1995
- Visit of Hydropower Projects and Manufacturing Facilities of Turbines and Generators Germany, Switzerland, Austria and Belgium, 1989
- Three months on job training “Preparation of Ranking anD Pre-feasibility Study of Low Head Hydropower Project along Existing Canal Falls and Barrages” in Germany, 1984
- Middle Management Training WAPDA Staff College, Pakistan

5b. Key Qualification:

Following his graduation in Civil Engineering from University of Engineering and Technology Lahore, Mr. Farooq started his career with Hydro Electric Planning Organisation, WAPDA in 1982. Before joining GTZ collaboration project he worked as design engineer on Kel HPP and Thal reservoir project. He worked as active member of GTZ collaboration project from 1984 through 2002 when project was closed. He worked on feasibility studies (Chashma, Taunsa, Jinnah, Rohri, CJ Link, DG Link, Guddu, Doyian, Harpo, Phandar, Basho, etc), detailed engineering design and identification and ranking of hydropower potential throughout the Pakistan. He worked as supporting panel member during implementation of Ghazi-Barotha Hydropower Project.

He was selected and awarded meritorious award in July 2000 as best officer by Chairman WAPDA. He worked as Project Director for Satpara Dam project and prepared detailed engineering design and tender document for Lot 1A, 1B, 2 and 3. He was also in-charge of field activities for one and a half year. He also participated in due diligence of Khan Khwar, Allai Khwar, Dubair, Mirani Dam and Bong Hydropower Project. Government of Punjab constructing four hydropower projects, Marala, Chianwali, Degoutfall, Pakpattan, which were conceived and detailed feasibility studies were prepared first by WAPDA and then M/S Integration Germany by teams led by him as Project Director.

He worked as Director General in AJK-PPC from December 2003 to January 2006 and made tremendous progress in development of hydel project through private sector. After repatriation to WAPDA he worked as Director In-charge for preparation of feasibility study of Lawi (70MW). He supervised feasibility of Dasu (4320 MW) and detailed Engineering design and tender document of Golen Gol (106 MW), Keyal (128 MW)and Kohala (1100 MW) Hydropower Project. He also headed team who prepared identification of small hydel for AJK.

He was in-charge for Dasu HPP starting from 2006 when feasibility study was started and completed during 2009 by JV of NESPAK, MWH, Colenco, ACE and Bennie & Partners. He remained as Project Director during selection of consultants for detailed engineering design, preparation of tender document, tendering and contracting for preparatory works and main works. Arrangement of financing for Dasu Hydropower Project was an activity conducted in Pakistan first time and he worked as team leader and able to arrange financing from Local Banks and International Commercial Banks US$ 2.5 Billion. He worked as leader for all activities required for implementation of the project for 3 years. Detailed design, environment and social impact assessment and tender documents for main project and other infrastructures were prepared. *Environment and Social Management Action Plan (25 volumes) were prepared by using World Bank Guidelines which were monitored by IPO and` as Project Director all documentation relating to ESMAP were finalized and` presented to World` Bank Board in Washington before loan approval*.

Due Diligence of two projects (Patrak-Shringle and Kalkot-Barikot-Patrak) along Panjkora River in Dir Valley an Gabral-Kalam along Gabral River and Mateltan along Ushu River in Swat Valley was prepared for World Bank. Evacuation of Power from each valley was also suggested.

As Team Leader of JV of AQUALOGUS, TEAM and Zeeruk, he completed due diligence of 300 MW Balakot Hydropower Project. Due diligence study was financed by Asian Development Bank (ADB). Study includes due diligence, preparation of Tender Documents and PC-1 for approval of Government. He also completed feasibility study of Uzghor HPP (83 MW) and Sharmai HPP (150 MW) as Team Leader for development of these projects in private sector. NEPRA conducted the public hearing for feasibility stage tariff for Uzghor HPP and Sharmai HPP.

He was involved in preparation of feasibility studies of Torkhu (70 MW), Meragram (60 MW) and Bhimbal (25 MW) Hydropower Projects. He worked as hydraulic design expert in under Construction REDSIP Projects (4 low head projects are under construction in Punjab) funded by ADB. Lawi (69 MW) and Suki Kinari HPP are under construction being managed by him as MD. Pre-feasibility study of 8 projects was completed during, he was MD of TEAM Consultant. *Designed penstock of length 4.1 km with diameter of 1.5 m for a head of 325 m for Naltar -5 Hydropower Project where CLIC was the EPC Contractor*.

He is presently working as *Deputy Project Manager for Lahore Water & Wastewater Management Project – Sewerage System from Larech Colony to Gulshan-e-Ravi, Lahore (Through Trench-Less Technology) for which preliminary engineering design, social and environment impact assessment and tender document finalized by following AIIB guidelines. Procurement of contractor is in progress*.

Nut shell he participated in all hydropower project studies, implementation, operation and maintenances from year 1982 to 2025. He remained active member of WAPDA Engineering Academy for training of WAPDA Engineer in the field of hydropower, Geotechnical, Hydraulics, Irrigation and Modern Agriculture. He was regular guest speaker at WAPDA Staff College to deliver lecture on Development Projects. He also participated as guest speaker/Professor in University of Engineering and Technology (UET), Lahore, Pakistan for hydropower planning and development course. He developed course material for hydropower development for WAPDA and UET Master Degree Program.

He has over 44 years of experience in the field of hydropower development in Public as well as private sector in Pakistan and Abroad in the Capacity of Consulting Engineer, Project Director as Developer and Resdient Engineer for project Construction. He had working experience in engineering, environment & social, economic and financial assessment.

6. Employment Record:

Period	Employing organization and your title/position. Contact information for references.	Country	Summary of activities performed relevant to the Assignment
August 2016 to-date	• **Employer:** As stated in Activities. • **Position:** As stated in Activities.	Pakistan	➢ **Employer:** TEAM Consultant, Pvt. Limited, Pakistan **Position:** Deputy Project Manager **Project:** Project Management Consultant

			for Planning and Design of Sewarage System from Larech Colony to Gulshan-e-Ravi (through micro-tunnelling) WASA-Lahore Pakistan. Project management Consultants consist of EBA Engineering, USA, ECSP, Pakistan, EEC Global and TEAM Consultants Pakistan. We reviewed the detailed design report and updated under additional coverage area, disposal pumps, layout of the project taking care of technical, Environment & Social and Financial aspect. Prepare the preliminary engineering design report, tender document consists og general & particular conditions of contract, procurement on the basis of AIIB Guidelines, prepared environment and social impact management plan by using AIIB guidelines, Employer requirement, procurement og contractors. The project consist of 33 km tunnel having diameter 1,050 mm. 1,500 mm, 2,400 mm and 3,500 mm, 89 manholes, 189 shafts for launching and receiving micro-tunneling machines, 24 intake structure consist of intake, screen chamber, drop structure, adits, ventilation, etc. 18 No ventilation room equiped with carbon filter be installed along the tunnel. Pump house housing 16 No. carden shaft pumps and disposal system including, concrete channel. Head regulators, cross regulator and earthen channel. System will be equiped with SCADA system for monitoring and operation. Procurement is under progress will be completed within 3 to 4 months. Construction is planned with a period of 2.5 years which start after mobilization of the Contractor. ➢ **Employer:** TEAM Consultant, Pvt. Limited, Pakistan**.** **Position:** Hydropower Expert **Project:** Procurement of Works for 13.5 MW Chapare-Charkhil. The assignment consists of Planning and Design of Chapare-Charkhil O&M Staff Town, review and updation of Feasibility

			study report prepared during 2015 and preparation of pre-qualification and bidding document, bidding and contract award and construction supervision as Project Management Consultant. PMC consists of JV of M/S ELECTRA, M/S CIVtec and TEAM Consultant. ELECTRA as lead firm. Up-dation of feasibility completed, bidding document completed and pre-qualification process is also completed. The Client is ready to start bidding process after approval of bidding document by competent authority. ➢ **Employer:** TEAM Consultant, Pvt. Limited, Pakistan **Position:** Hydropower Design Expert **Project:** Project Implementation Consultant for implementation of Gabral-Kalam and Madyan Hydropower Projects along Swat River. Working as hydropower design engineer as key expert in Joint Venture consists of M/S SMEC International and Temelsu, Turkey and sub-consultant, EGC Consultants, TEAM Consultant and RHC Consultant. Review of detailed design of Gabral-Kalam HPP prepared during 2020 completed and report submitted to PEDO for comments. Review and up-dation feasibility of Madyan HPP is in progress. Planning, Design and Construction Supervision of Gabral-Kalam O&M Staff Town ➢ **Employer:** TEAM Consultant, Pvt. Limited, Pakistan **Position:** Hydropower Design Expert **Project:** Preparation of Technical and Financial Proposal to Participate in International Competitive Bidding for Project Planning Consultant for implementation of Khyber Pakhtunkhwa Hydropower & Renewable Energy Development (KHRE). After pre-qualification as Joint Venture consists of M/S SMEC International as lead firm and sub-consultant, EGC Consultants, TEAM Consultant, RHC Consultant and ACE Consultant,

			participated in preparation of technical and financial proposal of the project for International Competitive Bidding. I helped the SMEC in selection of Key Experts. I prepared the approach and methodology for technical proposal. ➢ **Employer:** World Bank **Position:** Hydraulic Structure Expert as Short Time Consultant **Project:** Preparation of Detailed Design for Proposed Salinity Barrier at Ambatale in Kelani River Sri Lanka**.** Government of Sri Lanka constructing a permanent structure at Ambatale along Kalani River to stop the saline water to entering into Kelani River which ultimately effect the water quality being used for drinking in Colombo. As hydraulic structure, I was responsible to provide guidance, supervision and confirming the completion of the detailed design of the gates of Salinity Barrier. ➢ **Employer:** TEAM Consultant, Pvt. Limited, Pakistan **Position:** Hydropower Design Expert **Project:** Preparation of Technical and Financial Proposal to Participate in National Competitive Bidding for Project Management Consultant for Procurement of Works for 13.5 MW Chapare-Charkhil. After pre-qualification as Joint Venture consists of M/S Electra Consultant, M/S CIVTec Consultant and TEAM Consultant, participated in preparation of technical and financial proposal of the project for National Competitive Bidding. I prepared approach and methodology for technical proposal. The JV won the project ranked the first out of three competitors such as NESPAK and ACE. ➢ **Employer:** World Bank **Position:** Hydropower Expert as individual Expert **Project:** Due Diligence of Feasibility Study of Kalkot-Barikot-Patrak HPP, Patrak-Shringal HPP, Matiltan HPP, Gabral-Kalam HPP and Evacuation of Power from

			these projects. Feasibility of Kalkot-Barikot-Patrak and Patrak-Shringal HPP was prepared by JV of Integration Germany and Electra, Pakistan for PEDO. Gabral Kalam HPP was identified project however, Matiltan HPP is under construction. After having number of site visits along with World Bank Experts, a Due Diligence Report was prepared which was presented to PEDO in one day workshop. Report was also presented to World Bank and after having comments from both organizations report was finalized and submitted. All project aspect was assessed in due diligence report. Social and Environment was assessed by another individual Expert hired by World Bank. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Member of Panel of Expert for PEDO Hydropower Projects **Projects:** PEDO Hydropower Project being developed in Private Sector and Public Sector. Evaluation and prepare comments upon Feasibility Studies and Detailed Engineering Design prepared by the Consultant for projects being developed by PEDO under Private Sector and Public to meet the quality of study so that IFI has the confidence upon the quality of studies. More than 10 projects feasibility study report have been reviewed and approved. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Hydropower Expert/Team Leader **Project:** Due Diligence of Balakot (300 MW) Hydropower Project. Worked as Team Leader and Hydropower expert on 300 MW hydropower project. The project is funded by ADB and Owner is PEDO. The Consultants is JV of AQUALOGUS from Portugal, TEAM Consultants, Pakistan and Zeeruk Pakistan. Initial the scope of project was to

			prepare Due Diligence of the feasibility and update in few areas, however, as result of due diligence report, ADB approved that the full feasibility study be completed by Consultant. A number of reports have been submitted to ADB for approval. Geo-technical investigations were completed in 3 phases and ground survey in 2 phases. Feasibility report and closeout report submitted. Mr. Francisco also shared responsibility of Team Leader. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Hydropower Expert/Team Leader of Owner Consultant **Project:** Preparation of Feasibility Study Report Sharmai (150 MW) Hydropower Project TEAM consultant was hired by Client as Owner Consultant to supervise, review and approve the assignment of 2 Consultants. FICHNTER Germany was technical Consultants while M/S H.B, Pakistan was the environment consultants. I lead the team of experts for review of assignment submitted by both the consultants. The Client is Private Sponsor M/S Sapphire Hydel Power Company. The project is monitored by PEDO of GoKP which appointed Panel of Expert for review of quality and timely completion of feasibility study. Feasibility study approved by Panel of Experts and Company filed the Feasibility Stage tariff in NEPRA for which Public hearing held on September 9, 2020. The study was monitored by POE appointed by the Client also. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Hydropower Expert/Team Leader **Project:** Bankable Feasibility Study preparation of Turtonas-Uzghor Hydropower Project Lead the team of expert for preparation of feasibility study for the project. The project is located along Golen Gol River in Chitral District of Khyber Pakhtunkhwa having

			capacity of 82 MW. The Client is Private Sponsor M/S Sachal and M/s Sinohydro, China. The project is monitored by PPIB of GOP which appointed Panel of Expert for review of quality and timely completion of feasibility study. Feasibility approved by PPIB Panel of experts. My responsibility was guidance, review and quality control of the project. Identification of project site and its components was also done by me. Planning, Design and Construction Supervision of Golen Gol O&M Staff Town Environment and Social Impact Assessment was also carried by TEAM Expert under my supervision. After having NOC from KP EPA, tariff petition presented to NEPRA on September 16, 2020. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Hydropower Expert/Team Leader **Project:** 1) Comrehensive Planning of Hydropower Resources of Duber River and Tributaries for Luck Group 2) Master Planning of Hydropower Resources of Dongai River and Tributaries for NITROCAN Group. 3) Master Planning of Hydropower Resources of Gabral & Ushu River and Tributaries for Din Group After office studies, field visit were conducted to select the doable hydropower projects and their components. Collected data on special formate were processed for ranking and ultimate selection for development in private sector. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Hydropower Expert/Team Leader **Project:** Bubair-Kalay Hydropower Project The project is identified by TEAM Consultant for private sponsors which has been registered with PEDO for

			development of this project as raw site. The team of experts was led by me during identification and then evaluation for technical and cost it suitability for development by private sponsor. The project will be having capacity of 80 MW. ➢ **Employer:** TEAM Consultants, Pakistan **Position:** Hydropower Expert/Team Leader **Project:** Sumi Hydropower Project The project is identified by TEAM Consultant for private sponsors which has been registered with PEDO for development of this project as raw site. The team of experts was led by me during identification and then evaluation for technical and cost it suitability for development by private sponsor. The project has capacity of 70 MW. ➢ **Employer:** Punjab Saaf Pani Company (PSPC) **Position:** Procurement Advisor Worked as Procurement Expert in Saaf Pani Company-South and prepare the prequalification document for selection of consultants and Contractor. Help the organization in evaluation of prequalification evaluation for both consultants and contractors. Reviewed the bidding documents for Lot-1 include provision of Saaf Pani in District of Hasilpur, Ranjanpur, Muzafargarh, Liaqutpur, and Tribal Areas of DG Khan and Rajanpur. Attended prequalification and pre-bid meetings which was chaired by CEO PSPC. ➢ **Employer:** TEAM Consultants **Position:** Hydraulic Expert / Project Administrator **Project:** Project Management Consultant for REDSIP Project being developed by Energy Department of Punjab. I am responsible for review of design

			carried out by EPC Contractor. Four Low Head projects are under construction with Punjab Government. Two are in operation while two under construction. Also working as Project Administrator. Out four projects, three are in operation and 4th is under construction.
2011 to July 2016	• **Employer:** Stated in the activities column. • **Position:** Stated in the activities Column.	Pakistan/ Afghanistan	**A) Dasu Hydropower Project Organization WAPDA** Project Director/Chief Engineer/General Manager Responsible for preparation of Detailed engineering design and tender documents of Dasu (5400) Hydropower Project including preparation of social and environment management plan. Dasu hydropower project will be constructed in 3 phases. Phae-1 and Phase -2 have the same capacity of 2160 MW and Phase-3 capacity is 1080 MW. Reservoir extend over 73 km and submerge 35 villages and KKH main road leads to China. Activities includes Planning, Design and Construction Supervision of Dasu O&M Staff Town and Construction of KKH and right bank road and resettlement of 35 villages for which development works was planned and tendered. Land acquisition system was placed and cost per canal was approved by ECNEC. Office of independent Land Collector was established with cost from Project budget. Offices for Project Director and DHC (Dasu Hydropower Consultant) were established. Independent office for implementation of environment and social management plans staffed with 47 Experts in relevant field under PD Control was established. Two road contractors and construction of 132 kV were awarded and three Contractors mobilized at sites. The Consultants a, JV of NIPPON KOEI, Japan and DOLSAR Engineering Turkey were in-charge of preparation and construction supervision of Phase-1 including all other infrastructure works. After pre-qualifying Contractor for M1 and M2, bids issued for submission. Contract for M1 and M2 awarded t CGGC China. Contract of colony, KKH2, RAR2 and 2

			resettlement site were awarded. Financing about $2.5 billion was arranged from Local Banks and International Banks. **B) Employer M/S Integration and Environment, GmbH, Germany** Hydropower and Structural Experts Worked as hydropower and structural Expert for two small hydropower projects (Barak and Tagab) in Badakshan Province of Afghanistan. Responsible for review of construction design of all civil works such as diversion weir, intake complex, fish leader, sedimentation basin, headrace canal, forebay, penstock, powerhouse and tailrace canal. **C) Employer WAPDA, Kohala HPP** **Member Panel of Expert Ministry of Water and Power** Worked as Panel of Experts for Kohala Hydropower Project 1100 MW being developed by China Three Gorges Corporation on BOOT basis. Feasibility Study and detailed engineering design was reviewed as member of Panel of Experts appointed by Ministry of Water and Power, Pakistan. **D) Employer M/S TEAM Consultants** **Hydropower and Structural Experts** Participated in preparation of detailed design of Penstock of 4.5 km for Naltar-V Hydropower Project in Gilgit-Baltistan. Project is in operation for the last 4 years.
2/2007 to 2011	• **Employer** Hydro Planning, WAPDA, Pakistan • **Position:** Project Director DASU (4500 MW), Lawi (70 MW), Keyal (128 MW) and Kohala HPP (1100 MW)	Pakistan	a) Responsible for selection of Consultants and preparation of Feasibility study of Dasu Hydropower Project which is Run-of-river having RCC Dam with 242 m height. The generation capacity is 4320 MW. The powerhouse is underground and equipped with 8 turbine unit. The Consultant was JV of MWH, BINNE, NESPAK, ACE and COLENCO. b) Headed a team of expert for preparation of detailed feasibility study of Lawi Hydropower Project having installed capacity of 70MW. The project

			components are concrete diversion weir, sand trap, headrace tunnel having length of 12 km, surge tank, pressure shaft, pressure tunnel and powerhouse housing three turbo-generator unit. c) Worked as Project Director for preparation of Feasibility study and detailed engineering design leading to tender document for Kohala Hydropower project having capacity of 1100 MW. The main components of the project are, RCC dam having height of 45 m, intake complex, sedimentation basin, twin tunnel having length of 16 km, surge shaft, pressure shaft, pressure tunnel, powerhouse with five turbo-generator units and tailrace tunnel having length of 1 km. The Consultant was JV of SMEC, EGC and MEAS d) Worked as Project Director for preparation of detailed engineering design and tender document for Keyal (128 MW) Hydropower Project. Design and tendered for project colony by project team. Keyal HPP consists of 7 km long headrace tunnel, sedimentation basin, 45 m high concrete gravity dam with step spillway, underground powerhouse, 2 Pelton turbine units and 1 km long tailrace tunnel and access tunnel. The Consultant was Layhmer International and NDC Pakistan. Pre-qualification of bidders for civil works was completed and bidding initiated. Activites performed also included Planning, Design and Construction Supervision of Keyal Khawar O&M Staff Town
2/2007 to 4/2007	• **Employer:** ENETC SWITZERLAND • **Position:** Team Leader	Azerbijan	Responsible for preparation of Inception Report for Hydropower Resources of Azerbijan. Project was financed by ADB.
2/2006 to 1/2007	• **Employer:** Hydro Planning, WAPDA, Pakistan • **Position:** Project Director Golen Gol (108 MW)	Pakistan	Responsible for supervision of detailed Engineering Design and Tender document for the project. Tendering and Contracting was completed under my supervision. Land acquisition and NOC from EPA Khyber Pakhtunkhwa was got approved. The Consultant for the Project were

			FICHTNER Germany and PES Pakistan.
7/2005 to 1/2006	• **Employer:** INTEGRATION, Environment, Energy, Gmbh, Germany • **Position:** Hydropower Engineer	Pakistan	Worked on preparation of feasibility studies of 9 hydropower projects such as: i) Marala (7 MW) Low Head HPP, ii) Pakpattan Canal (3.2 MW) Low Head HPP, iii) Deg outfall Canal (2.8 MW) Low Head HPP, iv) Okara (3.2 MW) Low Head HPP, v) Chianwali (4.5 MW) Low Head HPP, vi) Renolia (15 MW) High Head HPP, vii) Daral Khwar (30 MW) High Head HPP, and viii)Machai (3.2 MW) Low Head HPP. The assignment was funded by Asian Development Bank
12/2003 to 6/2005	• **Employer:** AJK Hydro Electric Board • **Position:** Director General	Pakistan	- Prepare and negotiate concession documents for New Bong and Rajdhani HPP being developed in Private sector, comment on feasibility studies, preparation of request for proposal, preparation of project brief, monitoring of financial closing and project construction, tariff analysis. - Prepared tender document for Jhing (15 MW), Chamfall (6.5 MW) and Kotli Ban (1.5 MW) hydropower project. - During stay in AJK Hydro Electric Board, Kotli, Gulpur, Sehra, Rajdhani, Karot, Azad Pattan and Chakoti-Hattian HPP were allotted to Private Sector for their development as IPPs. - About 30 Small HPP were also allotted to Provate Sector for development in Private Sector.
2001 to 12/2003	• **Employer:** Hydroelectric Power Organisation, Water & Power Development Authority, Pakistan (HEPO-WAPDA) • **Position:** Director Design (Civil)	Pakistan	Headed a team of HEPO Engineers, Geologist, Economist, and Environmentalist for Preparation of (i) Feasibility study and tender document of Satpara Dam project (Civil and E&M Works), (ii) tender document of Shatung Nullah diversion, (iii) tender document of Irrigation system of Satpara Dam project. Worked as Project Director for Satpara Dam project. The dam was earth fill zoned

			having height of 150 ft. Two powerhouses having capacity of 16 MW was also designed and contracted to a French Contractor with JV DESCON Pakistan. E&M Contractor was CMEC China. Negotiated tender of Satpara Dam Project, Evaluation and preparation of Consultant RFP, Preparation and evaluation of Pre-qualification document for consultants and Contractors. Headed a team for the feasibility study of the following projects i) Machai Canal RD Hydro Projects, ii) Machai Canal RD Hydro Projects, iii) Pakpattan canal at RD 114+500 HPP, iv) Rohri Canal at RD 496 HPP, v) Upper Chenab Canal (UCC) at RD 0 HPP, vi) Upper Chenab Canal at RD 283 HPP, vii) Upper Chenab Canal at RD 128+000, Negotiated turnkey tender document of Jinnah HPP with DEC China,
11/1995 to 2000	• **Employer:** Water & Power Development Authority (WAPDA), Pakistan in collaboration with GTZ (German Agency for Technical Cooperation) • **Position:** Deputy Director Design (Civil)	Pakistan	Up-dation of feasibility study of (i) Jinnah(100 MW), (ii) Taunsa (120 MW)& (iii) CJ Link (25 MW) Tail HPP as result of Model Study, Preparation of feasibility study of (iv) Doyian (425 MW) and (v) Khanpur HPPs (2 MW). Prepared due diligence report on the direction of WAPDA Authority for the following projects. The feasibility of these projects was prepared by Layhmer International: a) Khan Khwar (72 MW) high head hydropower Project b) Alai Khwar (121 MW) high head hydropower Project c) Dubair Khwar (132 MW) high head hydropower Project

1984 to 1995	• **Employer:** Water & Power Development Authority (WAPDA), Pakistan in collaboration with GTZ (German Agency for Technical Cooperation) • **Position:** Assistant Design Engineer (Civil)	Pakistan	Prepared (i) ranking of low head projects along Barrages and Canal falls, (ii) preparation of feasibility study of Chasham HPP (274 MW), (iii) Tender document of Chashma HPP, (iv) Detailed design of Chashma HPP, (v) identification of scheme in Jhelum River catchment, Inventory of Low Head Project along Barrages and Canal falls, Prepared (vi) feasibility study of Rohri (16 MW) HPP and (vii) Renala HPP (4 MW). Identification of (viii) Hydel Scheme in Northern Area of Pakistan, Feasibility study of (ix) Guddu (125 MW) and (x) DGKhan Link –III (7.5 MW) HPP, (xi) Evaluation and Comments on various feasibility studies prepared by other consultant and organisation
7/1982 to 1983	• **Employer:** Water & Power Development Authority (WAPDA), Pakistan • **Position:** Assistant Design Engineer (Civil)	Pakistan	Planning and design of small hydropower projects in Azad Jammu and Kashmir Area. Worked on feasibility study of Kel HPP (2 MW) in Neelum River Catchment. Planning of Thal Reservoir Project (45MW) and preparation of its PC-1 for approval from GOP.
1/1982 to 6/1982	• **Employer:** Progressive Consultant Engineers (Pvt.) • **Position:**Planning Engineer	Pakistan	Master planning of rural areas of the Punjab which includes roads network, water supply and sanitation schemes, schools up to Secondary Education and health schemes.

7. Membership in Professional Societies

- Institute of Engineers, Pakistan
- Pakistan Engineering Council (PEC)
- Pakistan Engineering Congress
- FIDIC

8. Language Skills (indicate only languages in which you can work):

Proficiency / Languages	Reading	Speaking	Writing
Urdu	**Good**	**Good**	**Good**
English	**Good**	**Good**	**Good**
Punjabi	**Good**	**Good**	**Good**

9. Expert's contact information:

- **E-mail:** [redacted]
- **phone:** [redacted]

10. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available, as and when necessary, to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Muhammad Farooq		
Name of Expert	**Signature**	**Date**
Name of authorized Representative of the Consultant (the same who signs the Proposal)	**Signature**	**Date**