

Curriculum Vitae

Prof. Dr. Khan Shahzada

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Professor, Department of Civil Engineering, University of Engineering and Technology (UET) Peshawar

ACADEMIC QUALIFICATIONS:

- I. **PhD in Civil Engineering (Structural/Earthquake)**, 2011 (**Pak**) (CGPA: 3.74/4.0)
Title of PhD Research: “Seismic Risk Assessment of Buildings in Pakistan”
- II. **MSc in Earthquake Disaster Mitigation**, 2007 (**Japan**) (CGPA: 3.86/4.0)
Title of MSc Research: “Improvement of Masonry Structures against Seismic Force”
- III. **BSc in Civil Engineering**, 2003 UET, Peshawar with distinction
Title of BSc Research: “Design of Self-Supporting Steel Tower”

WORK ADDRESS:

Department of Civil Engineering, University of Engineering and Technology, Peshawar Pakistan.

BRIEF

I, Dr. Khan Shahzada, am working as a Professor in the Department of Civil Engineering, University of Engineering and Technology Peshawar, Pakistan. I have vast experience in research, administration and academic. I have published more than 65 research articles in the field of Civil Engineering along with two books, titled “Seismic Risk Assessment of Buildings” and “Field Practicing Manual”. I have successfully executed several research projects mostly funded by Higher Education Commission (HEC), worth around 50 million.

I have worked as Director Postgraduate Studies for more than five years at the University of Engineering and Technology Peshawar. I have also worked as a Chief Proctor for three years, Warden of the Hostels, In-charge Survey Camp and as a member of various committees including Works Committee UET Peshawar and PSDP (Public Sector Development Programs) Projects of UET Peshawar, Abbottabad Campus.

Currently, I am working as a member of Provincial Housing Taskforce on the affordable housing of Government of Khyber Pakhtunkhwa, which is a part of the Prime Minister Initiative of 5 million houses, along with Lifetime membership of Pakistan Engineering Council. I am also on the panel of program evaluation committee of Pakistan Engineering Council (PEC) for Civil Engineering Discipline throughout the country. I am also working as

a member curriculum committee for Civil Engineering throughout the country under the umbrella of Pakistan Engineering Council.

I have provided consultancy services to different Government Departments as a Geotechnical and Structural Expert under the Umbrella of UET Peshawar and contributed PKR 60 million to UET Peshawar exchequer. Some of the salient projects are retrofitting and rehabilitation of Governor House Peshawar, District Headquarter Hospital Abbottabad, Abdul Wali Khan Multiplex Secretariat, Judicial Complex Bannu, Qayum Stadium Peshawar and NRC (National Reserve Center) Godowns at Azakhel Nowshera.

Through industry focused research, I have successfully commercialized a construction technique (i.e. Construction of confined dry stacked block masonry against blast loading) followed by signing of a commercial license agreement with Eco Enterprises Islamabad through UET Peshawar. Another MoU has been signed with PAVERCRAFT Private limited, who are fabricating pavers, concrete blocks, and bricks. Similarly, an MoU with SIMBRI construction solution Lahore for development of new construction materials has been signed and the process of commercialization of the product has been initiated at UET Peshawar.

I am also actively involved in research activities at the Department of Civil Engineering. So far, I have successfully supervised more than sixty (65) MSc and three (3) PhD students. Currently, four (4) PhD and seven (7) MSc students are working under my supervision. I am also member of numerous research evaluation and monitoring committees of MSc and PhD students at UET Peshawar, UET Taxila, CECOS and University of Peshawar. Beside this, I am also member of the editorial boards of different national and international journals and serves as a reviewer for leading scientific journals.

I am also working as advisor of “Let’s Help Welfare Society (LHWS)” of students registered officially at UET Peshawar in which we are providing mentoring, counselling and support to students who cannot afford.

I have strong research collaboration with researchers of USA, Italy, Canada, Turkey, and Hong Kong. Recently I attended training on Disaster Preparedness and Management in 2019 at Middle East Technical University, Ankara, Turkey, for which I was nominated by UET Peshawar. I have also worked as a visiting scholar at UIUC, USA, for a year (2010) sponsored by HEC Islamabad.

In addition, I have also been shortlisted for an interview of Vice Chancellor in Punjab.

TEACHING, RESEARCH AND ACADEMIC EXPERIENCE:

1. **Lecturer** (2004 to 2005)

Department of Civil Engineering, University of Engineering and Technology,
Peshawar.

2. **Junior Engineer** (2005 to 2006)

Water and Power Development Authority (WAPDA), Pakistan.

3. **Lecturer** (2006 to 2012)

Department of Civil Engineering, University of Engineering and Technology,
Peshawar

4. **Visiting Scholar** (January 2010 to December 2010)

Mid America Earthquake Center, UIUC, USA.

5. **Associate Professor** (January 2013 to October 2020)

Department of Civil Engineering, University of Engineering and Technology,
Peshawar

6. **Professor** (October 2020 till date)

Department of Civil Engineering, University of Engineering and Technology,
Peshawar

ADMINISTRATIVE EXPERIENCE

1. **Director Postgraduate Studies** (September 2015 to November 2020)

University of Engineering and Technology, Peshawar.

2. **Chief Proctor** (February 2013 to April 2016)

3. **In-charge Survey Camp** (July 2017 to December 2020)

4. **Program Evaluation Team member** (Civil Engineering)

Pakistan Engineering Council

SHORT LISTED FOR THE POST OF VICE CHANCELLOR

- Short listed for the interview for the post of Vice Chancellor in General and Specialized Category Universities in Punjab

LIST OF PEER REVIEWED PUBLICATIONS AND BOOKS

Total citations: 962, h-index: 15, i10-index: 30

RESEARCH ARTICLES

1. Azmat Ullah, **Khan Shahzada**, Sarfraz Ali, Syed Mohammad Ali, Akhtar Gul, Performance evaluation of confined dry-stacked block masonry against blast loading, Structures, Volume 45, 2022, Pages 58-71, ISSN 2352-0124, <https://doi.org/10.1016/j.istruc.2022.09.015>
2. Muhammad Nasir Amin, Khalil Ur Rehman, **Khan Shahzada**, Kaffayatullah Khan, Nauman Wahab, and Anas Abdulalim Alabdullah. "Mechanical and microstructure performance and global warming potential of blended concrete containing rice husk ash and silica fume." Construction and Building Materials 346 (2022): 128470., <https://doi.org/10.1016/j.conbuildmat.2022.128470>
3. Akhtar Gul, Bashir Alam, and **Khan Shahzada**. "Seismic performance evaluation of unconfined dry stacked block masonry structure." Engineering Structures 265 (2022): 114529 <https://doi.org/10.1016/j.engstruct.2022.114529>
4. Muhammad Nasir Amin, Afaq Ahmad, **Khan Shahzada**, Kaffayatullah Khan, Fazal E. Jalal, and Muhammad Ghulam Qadir. "Mechanical and microstructural performance of concrete containing high-volume of bagasse ash and silica fume." Scientific Reports 12, no. 1 (2022): 1-21.
5. Irfan Ahmed Khan, Rashid Rehan, **Khan Shahzada**, Muhammad Imran Ahmad, Attaullah Shah, 2022 "Critical Analysis of Multi Sectoral Policies related to Marble Industry in Pakistan" Mehran University Research Journal of Engineering and Technology Vol. 41, No. 1, 180 - 194, January 2022 DOI: <https://doi.org/10.22581/muet1982.2201.18>
6. Muhammad Nasir Amin, Muhammad Armaghan Siffat, **Khan Shahzada**, and Kaffayatullah Khan. "Influence of Fineness of Wheat Straw Ash on Autogenous Shrinkage and Mechanical Properties of Green Concrete." Crystals 12, no. 5 (2022): 588.sil
7. Kaffayatullah Khan, Muhammad Ishfaq, Muhammad Nasir Amin, **Khan Shahzada**, Nauman Wahab, and Muhammad Iftikhar Faraz. "Evaluation of Mechanical and Microstructural Properties and Global Warming Potential of Green Concrete with Wheat Straw Ash and Silica Fume." Materials 15, no. 9 (2022): 3177
8. Akhtar Gul, Bashir Alam, Inayat Ullah Khan, **Khan Shahzada**. "Experimental assessment of diagonal shear parameters of dry stacked block masonry built with self-interlocking compressed earth blocks", International Journal of Masonry Research and Innovation, DOI: [10.1504/IJMRI.2022.10048224](https://doi.org/10.1504/IJMRI.2022.10048224)
9. Fasih Ahmed Khan, Sajjad Wali Khan, **Khan Shahzada**, Shake-Table tests on moment-resisting frames by introducing engineered cementitious composite in plastic hinge length, 2022, Earthquakes and Structures 23(1):23-34, DOI: 10.12989/eas.2022.23.1.023
10. Syed Azmat Ali Shah, **Khan Shahzada**, Bora Gencturk, Qazi Sami Ullah, Zawar Hussain, and Muhammad Javed. "In-plane Quasi-static Cyclic Load Tests on

- Reinforced Concrete Frame Panels with and without Brick Masonry Infill Walls." *Journal of Earthquake Engineering* (2021): 1-25.
11. Muhammad Ishfaq, Azmat Ullah, Awais Ahmed, Sarfraz Ali, Syed Muhammad Ali, Marjan Uddin, **Khan Shahzada**, 2021 "Numerical Approximation of Blast Loads on Confined Dry-Stacked Masonry Wall", *Mathematical Problems in Engineering*, vol. 2021, Article ID 2394931, 13 pages, 2021.
<https://doi.org/10.1155/2021/2394931>
 12. Nasar Khan, M. Awais, Muhammad Ejaz Siddiqui, Khan Shahzada, Jawad Khan, Feasibility study of Weir Site of the Koto Hydropower Project, District Lower Dir, Khyber Pakhtunkhwa, Pakistan: Geological and geotechnical approach" April 2022, *Himalayan Geology* 43(3):397-405
 13. Asfandiyar Ahmed, Abdul Sadiq, and **Khan Shahzada**. "Confined hollow concrete block masonry buildings: An experimental approach for vulnerability assessment." *Composites and Advanced Materials* 31 (2022): 26349833221091290.
 14. Muhammad Abid, Haytham F. Isleem, **Khan Shahzada**, Afed U. Khan, Muhammad Kamal Shah, Salman Saeed, and Fahid Aslam. 2021. "Seismic Hazard Assessment of Shigo Kas Hydro-Power Project (Khyber Pakhtunkhwa, Pakistan)" *Buildings* 11, no. 8: 349. <https://doi.org/10.3390/buildings11080349>.
 15. Zeeshan Khan, Akhtar Gul, Syed Azmat Ali Shah, Qazi Samiullah, Wahab Nauman, Eid Badshah, Muhammad Tayyab Naqash, **Khan Shahzada**, 2021 "Utilization of Marble Wastes in Clay Bricks: A Step towards Lightweight Energy Efficient Construction Materials" *Civil Engineering Journal* Vol 7, No 9 (2021) Pages 1488-1500.
 16. H. Asfandiyar Ahmed, **Khan Shahzada**, Muhammad Fahad, 2021 "Performance-based seismic assessment of capacity enhancement of building infrastructure and its cost-benefit evaluation", *International Journal of Disaster Risk Reduction*, ISSN 2212-4209, <https://doi.org/10.1016/j.ijdr.2021.102341>
 17. Izzat Khan, **Khan Shahzada**, Tayyaba Bibi, Asfandiyar Ahmed, Hanif Ullah, Seismic performance evaluation of crumb rubber concrete frame structure using shake table test, *Structures*, Volume 30, 2021, Pages 41-49, ISSN 2352-0124, <https://doi.org/10.1016/j.istruc.2021.01.003>
 18. Zeeshan Umar, Syed Azmat Ali Shah, Tayyaba Bibi, **Khan Shahzada**, Asfandiyar Ahmad, 2021 "Innovative seismic isolation of masonry infills using cellular material at the interface with the surrounding RC frame", *Journal of Building Engineering*, ISSN 2352-7102, <https://doi.org/10.1016/j.job.2021.102736>
 19. Syed Azmat Ali Shah, Asfandiyar Ahmed, **Khan Shahzada**, Syed Muhammad Ali, Akhtar Naeem Khan and Akhter Gul. 2021 "Experimental and Numerical Assessment of Masonry Infill on Seismic Performance of RC Frame Structure" *Journal of Engineering and Applied Sciences*, Vol. 40, Iss. 1, pp. 24-36
 20. Asfandiyar Ahmed, **Khan Shahzada**, 2020"Seismic vulnerability assessment of confined masonry structures by macro-modeling approach", *Structures*, Volume 27, Pages 639-649, ISSN 2352-0124, <https://doi.org/10.1016/j.istruc.2020.06.007>

21. Akhtar Gul, Bashir Alam, Wisal Ahmed, Nauman Wahab, **Khan Shahzada**, Yasar Irfan Badrashi, Sajjad Wali Khan, Muhammad Nasir Ayaz Khan, 2020 “Strengthening and Characterization of Existing Reinforced Concrete Beams for Flexure by Effective Utilization of External Steel Elements. Advances in Structural Engineering. August 2020. <https://doi.org/10.1177/1369433220950614>
22. Kaffayatullah Khan, Muhammad Fahad Ullah, **Khan Shahzada**, Muhammad Nasir Amin, Tayyaba Bibi, Nauman Wahab, Abdullah Aljaafari, 2020 “Effective use of micro-silica extracted from rice husk ash for the production of high-performance and sustainable cement mortar”, Construction and Building Materials, Volume 258, 2020, 119589, ISSN 0950-0618, <https://doi.org/10.1016/j.conbuildmat.2020.119589>
23. Hafiz Asfandiyar Ahmed , **Khan Shahzada**, 2020 “Numerical modeling of confined brick masonry structures with parametric analysis and energy absorption calculation.” International Journal of Protective Structures. August 2020. doi:10.1177/2041419620947730.
24. Fasih Ahmed Khan, **Khan Shahzada**, Qazi Sami Ullah, Muhammad Fahim, Sajjad Wali Khan, Yasir Irfan Badrashi, 2020 “Development of Environment-Friendly Concrete through Partial Addition of Waste Glass Powder (WGP) as Cement Replacement” Civil Engineering Journal, Volume 6 No. 12 Doi: [10.28991/cej-2020-03091620](https://doi.org/10.28991/cej-2020-03091620)
25. Wajid Ali, Syed Azmat Ali Shah, **Khan Shahzada**, Syed Mohammad Ali and Sajjad Wali Khan, 2020 “Retrofitting of Infilled Frame in Reinforced Concrete Structure” Mehran University Research Journal of Engineering and Technology 39(3):475-488. ISSN 2413-7219. DOI: [10.22581/muet1982.2003.03](https://doi.org/10.22581/muet1982.2003.03)
26. Syed Azmat Ali Shah, **Khan Shahzada**, Qazi Samiullah , 2020 “Influence of Brick Masonry Infilled Wall on Seismic Performance of Reinforced Concrete Frame” NED University Journal of Research XVII(3):15-29. DOI: [10.35453/NEDJR-STMECH-2018-0013](https://doi.org/10.35453/NEDJR-STMECH-2018-0013)
27. Akhtar Gul, **Khan Shahzada**, Bashir Alam, Yasir Irfan Badrashi, Sajjad Wali Khan, Fayaz A. Khan, Abid Ali, and Zahid Ur Rehman, 2020 "Experimental Study on the Structural Behavior of Cast in-situ Hollow Core Concrete Slabs." Civil Engineering Journal 6.10 (2020): 1983-1991.
28. Asmat Ullah, **Khan Shahzada**, Sajjad Wali Khan, Victor Starov, 2020 “Purification of produced water using oscillatory membrane filtration” , Desalination, Volume 491, 2020, 114428, ISSN 0011-9164, <https://doi.org/10.1016/j.desal.2020.114428>.
29. Asfandiyar Ahmed, **Khan Shahzada**, Syed Muhammad Ali, Akhter Naeem Khan, Syed Azmat Ali Shah, 2019 “Confined and unreinforced masonry structures in seismic areas: Validation of macro models and cost analysis”. Engineering Structures. Volume 199, Pages: 1-15, DOI: 10.1016/j.engstruct.2019.109612.
30. Muhammad Adeel Khan, Bazid Khan, **Khan Shahzada**, Sajjad Wali Khan, Nauman wahab, Muhammad Imran Ahmad, 2020”Conversion of Waste Marble powder into a binding material”. Civil Engineering Journal, Volume 6 No. 3 DOI: 10.28991/cej-2020-03091481.

31. Izaz Ahmad, **Khan Shahzada**, Muhammad Imran Ahmad, Fayaz Khan, Yasir Irfan Badrashi, Sajjad Wali Khan, Noor Muhammad, Habib Ahmad, “Densification of Concrete using Barite as Fine Aggregate and its Effect on Concrete Mechanical and Radiation Shielding Properties”. *Journal of Engineering research*. Vol. 7, Issue No.(4) December 2019 pages: 81-95.
32. Farshid Hosseinia, Bora Gencturk , Amit Jaina, and **Khan Shahzada** 2019 “Optimal design of bridge columns constructed with engineered cementitious composites and Cu-Al-Mn superelastic alloys” *Engineering Structures* Volume 198, 1 November 2019, 109531 <https://doi.org/10.1016/j.engstruct.2019.109531>.
33. Syed Azmat Ali Shah, Junaid Shah Khan, Syed Muhammad Ali, **Khan Shahzada**, Waqar Ahmad, and Junaid Shah 2019 “Shake Table Response of Unreinforced Masonry and Reinforced Concrete Elements of Special Moment Resisting Frame,” *Advances in Civil Engineering*, vol. 2019, Article ID 7670813, 17 pages, 2019. <https://doi.org/10.1155/2019/7670813>.
34. Muhammad Nasir Amin, Syed Hissan, **Khan Shahzada**, Kaffayatullah Khan, and Tayyaba Bibi 2019 “Pozzolanic Reactivity and the Influence of Rice Husk Ash on Early-Age Autogenous Shrinkage of Concrete” *Frontier in Materials*, <https://DOI.ORG/10.3389/fmats.2019.00150>.
35. Muhammad Nasir Amin, Tariq Murtaza, **Khan Shahzada**, Kaffayatullah Khan, and Muhammad Adil 2019 “Pozzolanic Potential and Mechanical Performance of Wheat Straw Ash Incorporated Sustainable Concrete” *Sustainability-Sustainable Engineering and Science* DOI: <http://dx.doi.org/10.3390/su11020519> Volume: 11, Issue: 2, Pages 1-20.
36. Zawar. H. Khan, **Khan Shahzada**, T. Aaron Gulliver, Hassan Nasir, A. Rehman, “A macroscopic traffic model based on driver physiological response”. *Journal of Engineering Math*. January 2019. Vol. 115, Page 21-41.
37. Waheed Khan, **Khan Shahzada**, Tayyaba Bibi, Shams Ul Islam and Sajjad Wali Khan 2018 “Performance Evaluation of Khyber Pakhtunkhwa Rice Husk Ash (RHA) in Improving Mechanical Behavior of Cement” ” *Construction & Building Materials* Volume 176, Pages 89-102.
38. Sajjad Wali Khan, Bora Gencturk, **Khan Shahzad**, Asmat Ullah, 2018 “Bending behaviour of axially preloaded multilayered spiral strands”. *Journal of Engineering Mechanics*, ASCE, Vol. No. 144, Issue 12, December 2018, Pages: 1-19.
39. Sajjad Hussain, Zahid Ur Rehman, Noor Muhammad, Muhammad Tahir, **Khan Shahzada**, Sajjad Wali Khan, Muhammad Salman, Mujahid Khan, Akhtar Gul, “Numerical Modeling for Engineering Analysis and Designing of Optimum Support Systems for Headrace Tunnel”. *Advances in Civil Engineering* March 2018. Volume 2018, Article ID 7159873, 10 pages.
40. Syed Mustafa Ali Shah, **Khan Shahzada**, Gencturk Bora, Shazim Ali Memon (2017) “Retrofitting of Full-Scale Confined Masonry Building Using Ferro-Cement Overlay” *Journal of Performance of Constructed Facilities* (DOI.org/10.1061/(ASCE)CF.1943- 5509.0001060) Vol. 31, Issue 5.
41. Asfandyar Ahmad, Imad Ahmad, **Khan Shahzada**, Bashir Alam, Muhammad

- Tayyab Naqash, Muhammad Fahad, Sajjad Wali Khan 2018 “Seismic Capacity Assessment of Confined Brick Masonry Building: An Experimental Approach” Shock and Vibration DOI 10.1155/2018/4756352
42. Muhammad Tufail, **Khan Shahzada**, Gencturk Bora, Jianqiang Wei (2016)“Effect of Elevated Temperature on Mechanical Properties of Limestone, Quartzite and Granite Concrete” International Journal of Concrete Structures and Materials · (DOI: 10.1007/s40069- 016-0175-2).
 43. Muhammad Ejaz Shabab, Khan Shahzada, Bora Gencturk, Muhammad Ashraf Tanoli, and Muhammad Fahad (2015), “Synergistic Effect of Fly Ash and Bentonite as Partial Replacement of Cement in Mass Concrete” Korean Society of Civil Engineers DOI 10.1007/s12205-015-0166-x.
 44. Salman Afzal, **Khan Shahzada**, Muhammad Fahad, Salman Saeed, Muhammad Ashraf, “Assessment of early-age autogenous shrinkage strains in concrete using bentonite clay as internal curing technique” Construction & Building Materials Vol. 66, 2014, pp. 403-409.
 45. Zeeshan Ahmad, **Khan Shahzada**, Gencturk Bora, Akhtar Naeem Khan, Rashid Rehan, Muhammad Fahad, Muhammad Ashraf, and Zaigham Ali “Seismic Capacity Assessment of Unreinforced Concrete Block Masonry Buildings in Pakistan Before and After Retrofitting” Journal of Earthquake Engineering Vol. 19 Issue 3, 2015, pp. 357-382, DOI: 10.1080/13632469.2014.963744.
 46. Arshad Ali, Shahid Iqbal, Anwar Ulhaq Chaudary, Muhammad Naseem Baig, **Khan Shahzada**, Shakir Khan “The Wastes Utility In Concrete” Int. J. Environ. Res., Article 48, Volume 8 issue 4 pages 1323-1328, Autumn 2014.
 47. **Khan Shahzada**, Akhtar Naeem Khan, Amr Elnashai, Mohmmad Ashraf, Muhammad Javed, Amjad Naseer, and Bashir Alam [2012]"Experimental Seismic Performance Evaluation of Unreinforced Brick Masonry Buildings" Earthquake Spectra, Earthquake Engineering Research Institute Volume 28, No.3, Pages 1269-1290, August 2012, (DOI:10.1193/1.4000073).
 48. Asmat Ullah, Muddasar Habib, Sajjad Wali Khan, M. I. Ahmad, **Khan Shahzada**, Victor M Starov “Membrane oscillation and oil drop rejection during produced water purification”, Separation and Purification Technology. 03/2015; DOI: 10.1016/j.seppur.2015.03.009.
 49. **Khan Shahzada** and Tetsuro Goto, “Improvement of Masonry Structures Against Seismic Force” Published in Bulletin of the International Institute of Seismology and Earthquake Engineering Tsukuba, Japan September, 2008. (ISSN: 0074-655X).
 50. Mohammed Javed, Guido Magenes, Bashir Alam, Amjad Naseer, **Khan Shahzada** 2012, “Seismic Performance Evaluation of Unreinforced Brick Masonry Shear Walls Construced in Stone Dust Mortar” Journal of Applied Sciences and Engineering. 06/2012; 31(1):1-12.
 51. Muhammad Abid Khan, **Khan Shahzada**, Bashir Alam, Akhtar Naeem Khan, Muhammad Javed “Slope Stability Hazard Evaluation and Mitigation Scheme for Sohbat Charra Slide Zone District Battagram”, Journal of Himalayan Earth Sciences 03/2014; 47(1):131-140.

52. Tabinda Masud, Amjad Ali, Hazrat Hussain, **Khan Shahzada**, Noreema Masud, Muhammad Rizwan “Estimation of groundwater balance for Pabbi region, Khyber Pakhtunkhwa” Journal of Himalayan Earth Sciences. 12/2013; 46(2):113-119.
53. **Khan Shahzada**, Tetsuro Goto, Bahsir Alam, Muhammad Javed, Amjad Naseer, Muhammad Fahad, 2012 “Capacity assessment of masonry walls strengthened with indigenous materials” Journal of Applied Sciences and Engineering. 06/2012; 31(1):1-12.
54. **Khan Shahzada**, Akhtar Naeem Khan, Amr Elnashai, Amjad Naseer, M. Ashraf, M. Javed and Giulio Martire, 2010. “*Dynamic Response of Confined Brick Masonry Building*”, The 13th Japan Earthquake Engineering Conference, 2010. Tsukuba Japan, Page 3958-3965.
55. Muhammad Waseem, Irshad Ahmad, Rawid Khan, Bashir Alam, **Khan Shahzada**, Muhammad Javed “Stability Analysis of Soil Slope in Swabi, Pakistan.” Journal of Engineering and Applied Science Vol. 32 No. 1 (2013) ISSN 1023-862X.
56. Syed Azmat Ali Shah, **Khan Shahzada**, Muhammad Tayyab Naqash “Assessment of safety measures against seismic and fire hazards in the University of Buner” November 2021, Disaster Advances 14(11):37-43, DOI: 10.25303/1411da3743
57. Akhtar Gul, Bashir Alam, Muhammad Junaid Iqbal, Wisal Ahmed, **Khan Shahzada**, Muhammad Haris Javed, and Ezaz Ali Khan. "Impact of length and percent dosage of recycled steel fibers on the mechanical properties of concrete." Civil Engineering Journal 7, no. 10 (2021): 1650-1666.
58. Fasih Ahmed Khan, Sajjad Wali Khan, Muhammad Rashid, Muhammad Rizwan, Muhammad Fahim, **Khan Shahzada**, Naveed Ahmad, Yasir Irfan Badrashi, Samiullah Qazi, and Imad Said. "Evaluation of code compliant/non-compliant ECC-RC IMRF structures." In Structures, vol. 32, pp. 1634-1645. Elsevier, 2021.
59. Irfan Khan, Akhtar Gul, **Khan Shahzada**, Nisar Ali Khan, Faisal Ur Rehman, Qazi Samiullah, and Muhammad Arsalan Khattak. "Computational seismic analysis of dry-stack block masonry wall." Civil Engineering Journal 7, no. 3 (2021): 488-501.
60. Osama Bin Muhammad, Khan Shahzada, Akhtar Gul, Ezaz Ali Khan, Muhammad Ashraf Tanoli, Muhammad Sadiq Khattak “Assessment of ternary blends based on bentonite in mitigating alkali silica reactivity in waste glass substituted mortars” January 2021, International Journal of Structural Engineering 1(1): DOI: 10.1504/IJSTRUCTE.2021.10043275
61. Muhammad Umar, Syed Azmat Ali Shah, **Khan Shahzada**, Muhammad Tayyab Naqash, and Wajid Ali. "Assessment of seismic capacity for reinforced concrete frames with perforated unreinforced brick masonry infill wall." Civil Engineering Journal 6, no. 12 (2020): 2397-2415.
62. Sajjad Hussain, Noor Mohammad, Zahid Ur Rehman, Naseer Muhammad Khan, **Khan Shahzada**, Sarfraz Ali, Muhammad Tahir, and Salim Raza. "Review of the geological strength index (GSI) as an empirical classification and rock mass property estimation tool: origination, modifications, applications, and limitations." Advances in Civil Engineering 2020 (2020).
63. Muhammad Adil, Aftab Khan, Naveed Ahmad, Edward Nicholas Bromhead,

- Muhammad A. Arshad, Muhammad Fahad, Shahid Ullah, and **Khan Shahzada**. "Numerical investigation of the effect of column staggering in flat slabs systems." *Journal of Engineering and Applied Sciences* 39, no. 1 (2020): 57-64.
64. Safi Ur Rehman, Muhammad Yaqub, Tariq Ali, **Khan Shahzada**, Sajjad Wali Khan, and Muhammad Noman. "Durability of mortars modified with calcined montmorillonite clay." *Civil Engineering Journal* 5, no. 7 (2019).
65. Bilal Afridi, **Khan Shahzada**, and Muhammad Tayyab Naqash. "Mechanical properties of polypropylene fibers mixed cement-sand mortar." *Journal of Applied Engineering Science* 17, no. 2 (2019): 116-125.
66. Muhammad Noman, Bashir Alam, Muhammad Fahad, **Khan Shahzada**, and Muhammad Kamal. "Effects of pounding on adjacent buildings of varying heights during earthquake in Pakistan." *Cogent Engineering* 3, no. 1 (2016): 1225878.
67. **Khan Shahzada**, Akhtar Naeem Khan, Amjad Naseer, Mohammad Ashraf, Azmat Ullah, 2009, "*Sustainable Buildings in Dera Ismail Khan and Adjoining Areas: An Experimental Study*" International Disaster Mitigation Conference-2009, Baragali, Pakistan, Page 141- 152.
68. Mohammad Ashraf, Amjad Naseer, Akhtar Naeem Khan, **Khan Shahzada**, 2009. "Seismic Up-gradation of Unreinforced Masonry Buildings as a Part of Disaster Management Policy" International Disaster Mitigation Conference-2009, Baragali, Pakistan, Page 101- 120
69. Amjad Naseer, Akhtar Naeem Khan, Mohammad Ashraf, **Khan Shahzada**, 2009. "Sustainable and Earthquake Resistant Buildings: A Pakistani Perspective" International Disaster Mitigation Conference-2009, Baragali, Pakistan, Page 121-128.
70. Mohammad Ashraf, Akhtar Naeem Khan, Amjad Naseer, **Khan Shahzada**, 2010. "An Analytical Model for the Seismic Performance Evaluation of Unreinforced Masonry Building Reinforced with Wire Mesh", The 13th Japan Earthquake Engineering Conference, 2010. Tsukuba Japan, Page 4099-4105.
71. Muhammad Ayub, Qaisar Ali, **Khan Shahzada**, Amjad Naseer, and Muhammad Shoaib, "Conservation of Islamia College Building in Pakistan" 2nd International Conference on Rehabilitation and Maintenance in Civil Engineering Solo, March 8th-10th, 2012 1877- 7058 © 2013 The Authors. Published by Elsevier Ltd.

BOOKS

1. Translation of "**Field Practicing Manual**" for Engineers and Contractors from Urdu to English language has been made and uploaded on IISEE Japan Website and on EEC, UET Peshawar Website.
https://iisee.kenken.go.jp/net/seismic_design_code/pakistan/field_practicing_manual.pdf
2. "**SEISMIC RISK ASSESSMENT OF BUILDINGS**" by Khan Shahzada, Akhtar Naeem Khan and Muhammad Javed, Pages: 408, Published, April 27, 2012, ISBN-10: 3848443120, ISBN-13: 978-3848443123.

MAJOR RESEARCH PROJECTS

(Research experience as Principal Investigator- responsible for proposal writing, budget utilization, execution and final report submission)

PRINCIPAL INVESTIGATOR:

1. Performance of Confined Dry Stacked Block Masonry against Blast Loading, **Principal Investigator: Khan Shahzada**, Co-Principal Investigator: Brig. Sarfaraz Ali, Higher Education Commission (HEC) Islamabad **(Rs. 13.947 million). Completed**
2. Role of Infilled Walls on Lateral Stability of Reinforced Concrete Frame Structures, **Principal Investigator: Khan Shahzada**, Co- Principal Investigator: Muhammad Javed. Higher Education Commission (HEC) Islamabad **(Rs. 6.01 million). Completed**
3. Design, modeling and assessment of phase change materials (pcm) based energy efficient prototype building, **Principal Investigator: Khan Shahzada**, Co- Principal Investigator: Dr. Khurshid Ahmad. US-AID, Energy Center UET Peshawar **(Rs. 3.0 million). Completed**
4. Seismic Capacity Assessment of Textile Fiber Reinforced Infill Walls in Reinforced Concrete Structures: A Step Towards Affordable Housing, **Principal Investigator: Khan Shahzada**, Co-Principal Investigator: Dr. Hafsa Jamshaid, Higher Education Commission (HEC) Islamabad **(Rs. 6.10 million). In Progress**
5. Seismic Capacity Assessment before & after Retrofitting of Infrastructure unreinforced concrete block masonry building, **Principal Investigator: Khan Shahzada**, Consultant: Bora Gencturk, USA. **Completed**
6. Improvement of Seismic Capacity of Infrastructure (Buildings) **Principal Investigator: Khan Shahzada**, Consultant: Bora Gencturk, USA. **Completed**
7. Hazard Assessment of Sohbat Charra Slide Zone District Battagram (Stability of Infrastructure), **Principal Investigator: Khan Shahzada**, Co-Principal Investigator: Bashir Alam. **Completed**
8. Reuse of Plastic Waste as Pelletized Aggregate for Concrete Infrastructure, **Principal Investigator: Khan Shahzada**, Consultant: Bora Gencturk, USA. **Completed**
9. Development of Seismic Hazard Map for Shami Road Area Peshawar, **Principal Investigator: Khan Shahzada**, Consultant: Muhammad Shafique. **Completed**
10. Seismic Capacity Assessment of Confined Brick Masonry Buildings, **Principal Investigator: Khan Shahzada**, Co-Principal Investigator: Bashir Alam. **Completed**

CO-PRINCIPAL INVESTIGATOR:

1. Effectiveness of locally available SCMs in Reducing Greenhouse Gas emission and their optimization to produce high performance structural concrete, PI: Muhammad Nasir Amin Ghulam Qadir **Co-PI: Khan Shahzada** (King Faisal University KSA Research Grant) (13.603 million). **Completed**
2. Low Cost Seismic Monitoring Network Principal Investigator, PI: Omar Usman Khan (FAST University), **Co-PI: Khan Shahzada**. Higher Education Commission (HEC) Islamabad (Rs. 2.825 million). **Completed**
3. Performance of external beam-column joint of engineered cementitious composite under seismic type loading, PI: Sajjad Wali Khan, **Co-PI: Khan Shahzada**. Higher Education Commission (HEC) Islamabad (Rs. 5.624 million). **In Progress**
4. Seismic Evaluation and Retrofitting of Confined Brick Masonry Buildings with FRP, PI: Qazi Samiullah, **Co-PI: Khan Shahzada**. Higher Education Commission (HEC) Islamabad (Rs. 6.31 million). **In Progress**

PARTICIPATION IN WORKSHOPS, SEMINARS AND CONFERENCES HELD OUTSIDE THE COUNTRY

S. No	Title of workshop, seminar, or conference	Organized By	Role	Country Name	Date
1	Third Country Training Course Program on Disaster Management and Building Disaster Resilient Communities	Turkish Cooperation and Coordination Agency (TIKA)	Participant	Turkey	15 th April 2019 to 1 st May 2019
2	11th Annual Structural Engineering Conference University of Illinois at Urbana-Champaign held on Thursday, April 08, 2010.	University of Illinois at Urbana-Champaign	Participant	USA	2010
3	ACI 2010 Fall Convention held in Pittsburgh, Pennsylvania October 24 -28 2010.	Pittsburgh, Pennsylvania	Participant	USA	2010

4	The 13th Japan Earthquake Engineering Symposium, Tsukuba, Japan held on 17-20 November 2010.	Japan Association for Earthquake Engineering	Presenter	Japan	2010
5	The Structural Engineer Creating Progress in the World of Design December 03, 2010	University of Illinois at Urbana-Campaign	Participant	USA	2010
6	Out-of-Plane Seismic & Wind Performance of Brick Veneer Walls February 15, 2010.	University of Illinois at Urbana-Campaign	Participant	USA	2010
7	Design of Construction Equipment for Tall Concrete Shells March 01, 2010.	University of Illinois at Urbana-Campaign	Participant	USA	2010
8	A Multi-Scale Continuum Approach towards Computational Cardiology March 15, 2010.	University of Illinois at Urbana-Campaign	Participant	USA	2010
9	Assessment and Repair of Timber Structures March 29, 2010.	University of Illinois at Urbana-Campaign	Participant	USA	2010
10	High Impact Damage of Brittle Materials April 30, 2010.	University of Illinois at Urbana-Campaign	Participant	USA	2010
11	Finite Element Modeling of Structures May 15, 2010	University of Illinois at Urbana-Campaign	Participant	USA	2010
12	Heavy Lift Challenges in the Gulf of Mexico November 8, 2010.	University of Illinois at Urbana-Campaign	Participant	USA	2010
13	Project Cycle Management (Participatory Planning)	Japan International Cooperation Agency (JICA)	Participant	Japan	3 rd to 7 th September, 2007

INTERNATIONAL RESEARCH COLLABORATION

1. Collaborative research projects and exchange of MSc and PhD students with Dr. Gencturk Bora, Associate Professor Director, Structures and Materials Research Laboratory (SMRL) Sonny Astani Dept. of Civil and Environmental Engineering University of Southern California, USA.
2. Collaborative research projects and exchange of MSc and PhD students with Prof. Han, Sang Whan Department of Frontier Architectural and Urban Engineering College of Engineering, Hanyang University (SUSB), South Korea.
3. Collaborative research projects and supervision of MSc and PhD students with Dr. Nasir Amin Ghulam Qadir, Engr. Kaffayatullah Khan, King Faisal University of Saudi Arabia.

INTERNATIONAL BODIES MEMBERSHIP

- Member of American Society of Civil Engineers (ASCE), USA
- Member of International Institute of Seismology and Earthquake Engineering, Japan
- Member of Mid America Earthquake Centre University of Illinois Urbana Champaign, USA

EXPERIENCE OF ORGANIZING WORKSHOPS/SEMINARS & CONFERENCES AT INTERNATIONAL LEVEL WITHIN THE COUNTRY

S. No	Title of workshop, seminar, or conference	Sponsored By	Role As	Date
1	British Council PI Training	British Council & Coventry University, UK	Participant	12 th to 16 th September, 2022
2	1 st International Conference on Recent Advances in Civil & Earthquake Engineering (ICCEE-2021)	Department of Civil Engineering, UET Peshawar	Organizer, member technical committee and chair Civil Engineering Materials Session	8 th October, 2021
3	3 rd Conference on Sustainability in Process Industry	Department of Chemical Engineering, UET Peshawar	Organizer	19 th and 20 th October, 2016
4	2 nd International Conference on recent advances in Civil Engineering and Disaster Management	Department of Civil Engineering, UET Peshawar	Convener Organizing Committee and Member Technical Committee	To be held on 15 th and 16 th December, 2022
5	4 th International conference on sustainable energy technologies (ICSET-22)	US-Pakistan Center for Advanced Studies in Energy (USPCAS-E)	Member Technical Committee	To be held on December 5, 2022

6	International Conference on Sustainable Development in Civil Engineering	Department of Civil Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan	Keynote Speaker	To be held on 16 th to 18 th February, 2023
7	International Conference on “Earth Sciences Pakistan 2012”	Baragali	Presenter	23 rd and 24 th June, 2012
8	One-day seminar on Seismic Risk Assessment Buildings in Pakistan	COMSAT Institute of Information Technology, Abbottabad	Head Resource Person	4 th December, 2014
9	CDPM 7 th National Disaster Management Exhibition-2015	University of Peshawar	Potential Exhibitor	2 nd and 3 rd December, 2015
10	5 th Online International Conference on Sustainability in Process Industry (SPI-2020)	UET, Peshawar	Organizer	15 th and 16 th December, 2020
11	Disaster Management Exhibition-2013	Center for Disaster Preparedness and Management (CDPM), University of Peshawar	Potential Exhibitor	20 th and 21 st November, 2013
12	Seismic Risk Assessment of Buildings in Pakistan	Military College of Engineering, Risalpur	Presenter	14 th March, 2012
13	International workshop on Assessment of Earthquakes and Associated Secondary Hazards using advanced Geo-information tools	Karakorum International University, Gilgit, Gilgit-Baltistan	Resource Person	7 th to 15 th September, 2015
14	National Training Course-Earthquake Mitigation 22-24 October 2013, Organized by: National Institute of Disaster Management (NIDM) Islamabad	National Institute of Disaster Management (NIDM) Islamabad	Resource Person	22 nd to 24 th October, 2013
15	Distinction certificate for Best R& D Products/Process in S & T Exhibition	Directorate of Science and Technology, Govt of KP	Product Exhibitor	22 nd and 23 rd April, 2013
16	4-Days PEC PEVs Training on “Outcome Based Program Evaluation”	UET, Peshawar	Participant	8 th to 11 th April, 2019
17	Earthquake Vulnerability Reduction & Preparedness Programme in Muzaffarabad & Mansehra Municipalities	National Disaster Management Authority and UNDP	Participant	1 st February to 15 th Mar, 2008
18	Training Workshop on Proposal Writing for Research Grants	Pakistan Scientific and Technological Information Centre	Participant	16 th February, 2012
19	Five days’ Workshop for improving Quality Education Under the World Bank	HEC Pakistan	Participant as a faculty member	March to June, 2012

	Support for Tertiary Education in Pakistan			
20	National Workshop on Implementation of Building Code of Pakistan (Seismic Provison-2007) and Risk Reduction due to Earthquakes, and other Mega Disasters	Earthquake Reconstruction and Rehabilitation Authority (ERRA)	Participant	30 th May, 2013
21	Seismic Hazard Analysis for Abbottabad and Surrounding	Military College of Engineering, Risalpur	Guest Speaker	November, 2013
22	How to develop strong Linkage between business, Industry and Academia	HEC Pakistan	Potential Exhibitor	6 th August, 2015

NATIONAL BODIES MEMBERSHIPS

1. Lifetime membership Pakistan Engineering Council (PEC) Islamabad.
2. Member of Board of Studies, Department of Civil Engineering, City University of Science and Information Technology (CUSIT), Peshawar.
3. Member of Proposal Research Evaluation Committee (PREC) for MSc and PhD in Structural Engineering in the Department of Civil Engineering, UET Peshawar, Pakistan.
4. Member of Railway Engineering Committee, UET Peshawar.
5. Convener in the affiliation committee to inspect colleges/Institutions seeking affiliation/renewal of affiliation with the UET Peshawar.
6. Member of the Academic Council, UET Peshawar.
7. Member of Public Service Commission Interview Panels as a Subject Specialist.

DEMONSTRATED EXPERIENCE IN LEADERSHIP

1. I have worked and lead the Directorate of Postgraduate Studies in UET Peshawar as a Director, from September 2015 to November 2020. I successfully run the directorate of postgraduate studies for around 22 MSc and PhDs program at UET Peshawar Main Campus, erstwhile Mardan Campus and affiliated colleges with UET Peshawar. I have been involved in MSc and PhD student's admissions and awarding of degrees to MSc and PhD students.
2. Worked as Chief Proctor for three years in UET Peshawar and have led a proctorial board of around 17 faculty members from different Departments of the same University, UET Peshawar. I have managed convocations of UET, Peshawar as a team leader being Chief Proctor.

3. Worked as an In-charge Survey Camp and have led a team of faculty members and supervised the survey camp of around 250 students.
4. I lead a team of UET, Peshawar to commercialize a construction technique i.e. Construction of confined dry stacked block masonry against blast loading and have signed commercial license agreement with Eco Enterprises Islamabad through UET Peshawar.
5. I am leading a team of UET, Peshawar and signed MOU with PAVERCRAFT Private limited, fabricating pavers, concrete blocks, and bricks.
6. Signed an MOU with SIMBRI construction solution Lahore for development of new construction materials and the commercialization process of the product is in progress.
7. Supervised successfully Three (03) PhDs and more than Sixty-Five (65) MSc students as Main supervisor (Leader).
8. Awarded with Best Applied Research Project Award for academic year 2020-2021 by committee constituted by Board of Advance Studies and Research (BOASAR) UET Peshawar.
9. Completed two major projects funded by HEC on time as Team leader and have graduated PhDs and MSc students in these projects (Completion Certificates attached).
10. Currently I am supervising 04 PhD students and 07 MSc Students as Main Supervisor.
11. Completed several other funded research projects as a team leader.
12. Working as a Program Evaluation Team member in Pakistan Engineering Council for Civil Engineering throughout the country and have lead different visits to Universities.
13. Worked as a Member of Public Service Commission Interview Panels as Subject Specialist.
14. Working as member of PSDP Project “Strengthening of Abbottabad Campus” UET, Peshawar
15. Member of the Land Management Committee of UET, Peshawar.
16. Working as a Member of Departmental Purchase Committee for the Earthquake Engineering Center.
17. I am also working as a member in Curriculum Committee for Civil Engineering throughout the country under the umbrella of Pakistan Engineering Council (PEC).

AWARDS

- Awarded with Best Applied Research Project for the Academic Year 2020-21 by UET Peshawar
- Best Paper award for authoring " Evaluation of the Effect of Changes in Axle Loading of Railway Bridges through Numerical Modelling" in 1st International Conference on Recent Advances in Civil and Earthquake Engineering
- Awarded with JICA Fully Funded Scholarship for master's degree in Japan, 2006-07.
- Awarded with scholarship by HEC as visiting Scholar at University of Illinois Urbana Champaign USA for one year in 2010
- Awarded with Distinction Certificates for best R & D product/Process in S& T Exhibition held on 22nd and 23rd April 2013 by Directorate of Science and Technology, Government of Khyber Pakhtunkhwa
- Awarded with certificate in recognition of contribution made to the quality of journal "Construction and Building Material" on May 2017
- Position Awards in second and third year in BSc Civil Engineering from UET Peshawar
- Appreciation letter from "National Institute for Land Infrastructure and Management" Japan on successful completion of Research "Improvement of Masonry Structure against Seismic Forces"
- Nominated for IEP award for Outstanding Engineers
- Certificate of Appreciation in recognition of outstanding performance and teamwork during Convocation Dec 17th, 2013, as Chief Proctor
- My research paper "Role of Concrete Industry as remedy for the plastic waste disaster" got First Best Oral Presentation Award International Conference on "Earth Sciences Pakistan 2012

CONSULTANCY SERVICES AS GEOTECHNICAL CONSULTANT

1. Construction of multipurpose sports gymnasium, Works Directorate of Agriculture University Peshawar
2. Construction of Auqaf Plaza at Adda Nasar Bagh Main GT Road Peshawar, Auqaf Peshawar
3. Construction of Buildings complex in Muzaffarabad, Physical planning housing sector Planning and Development Department Azad Kashmir
4. Construction of Research Farm at NIFA Peshawar, Pakistan Atomic Energy Commission
5. Construction of 12 JCOs Quarters at Kohat Air Base, Pakistan Air force
6. Construction of Fish Hatchery at Dera Ismail Khan, Pak PWD DI Khan
7. Construction of two-story Buildings Swat Scout Peshawar, Pak Associates Consultants
8. Construction of Shaheen Foundation Multi story Plaza Mall Road Peshawar, Gaheez Consultants
9. Construction and Renovation of 35 houses at Kohat, Pak PWD Bannu

10. Construction of 6 story Building in Hayatabad for FATA Headquarter, Building Division Khyber Agency
11. Construction of Girls Hostel Alपुरi District Shangla, Pak PWD Swa
12. Construction of Bacha Khan Medical Complex Sheikh Maltoon Mardan.
13. Construction of Academic Block, Khyber Medical College Peshawar
14. Construction of Food Storage Building at Azad Kashmir
15. Construction of Regional Passport Office Abbottabad, Pak PWD, Abbottabad
16. Construction of Cluster Hostel Building District Battagram Works and Services Department Battagram
17. Construction of four-story plaza near Gul Haji Plaza Peshawar. Gaheez Consultant
18. Construction of Quaid-e-Azam Public School District Swabi. Lala Zar Consultants
19. Construction of Girls Hostel and School Mardan. Contech International Health Consultant
20. Construction of Roads, Causeways and box culverts of Different Roads at Khyber Pakhtunkhwa

CONSULTANCY SERVICES AS STRUCTURAL/EARTHQUAKE ENGINEER

1. Seismic Risk Assessment of Jahanzeb College Building Swat
2. Retrofitting and Rehabilitation of Judicial Complex Bannu
3. Seismic Risk Assessment of Cantonment Board Plaza Mardan
4. Retrofitting and Rehabilitation of Government Degree College Nawagai, Bajaur Agency
5. Retrofitting and Rehabilitation of Government Degree College Barkhalozo Bajaur Agency
6. Retrofitting and Rehabilitation of Governor's House Peshawar
7. Retrofitting and Rehabilitation of Girls Degree College Mansehra
8. Seismic Risk Assessment of Qayum Stadium Structures Peshawar
9. Earthquake Risk Assessment of Secretariat Buildings in Peshawar
10. Seismic Risk Assessment of Secretariat Buildings Azad Kashmir Muzafarabad
11. Seismic Risk Assessment of Bar Room at Judicial Complex Bannu
12. Seismic Capacity assessment of Shahi Mehman Khana Government of Khyber Pakhtunkhwa

REFERENCES

1. Prof. Dr. Akhtar Naeem Khan, (Ex-Dean, UET Peshawar), Fax-Number +92-91-9216775, Cell number: +92-333-9125601, email: drakhtarnaem@uetpeshawar.edu.pk
2. Prof. Dr. Dr. Amr Elnashai, FREng, Fellow of the British Royal Academy of Engineering, Vice President/Vice Chancellor for Research and Technology Transfer at the University of Houston. +1-713-743-5797, Email: elnashai@uh.edu
3. Prof. Dr. Syed Muhammad Ali, Director Earthquake Engineering Center UET Peshawar, Fax-Number +92-91-9216775, Cell number: +92-333-9395265
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