***Hummaira Qudsia Yousaf***

***(***2BE2-611***)***

***I have completed my PhD under the Supervision of Prof.Dr. Sikandar Khan)***

I Hummaira Qudsia Yousaf blessed to born in educated family. My family is . My family has a modest rural background, whereby my father was self-employed. He had a small piece of land which he toiled to

make living. I have five siblings, and all of us were fortunate enough to have access to education.

There was only one girl’s school in my area and that too was located at a distance of one kilometer

from my house. I received my initial schooling from Govt. Girls High School,

Nowshehra, where Urdu was the medium of education.

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| **Degree / Certificate with year of passing** | **Institution, City, Country** | **Group / Specialization** | **% age** | **CGPA** | **Any Distinction in academics** |
| SSC or Equivalent, 1987 | Govt. High School, Khanpur | Science | 76 | NA | First in Division |
| HSSC or Equivalent, 1989 | Govt. T.T. College, Khanpur | Pre-Engineering | 75 | NA | First in Division |
| BE or B.Sc (Engg.)  1997 | U.A.F, Faisalbad | BSc. Agricultural Engineering | 70.54 | 3.27 | First in Division |
| M.Sc (Eng.), 1999 | PIEAS, QAU, Islamabad | MSc Nuclear Engineering | 69.76 | NA | First in Division/Under scholarship |
| PhD (Eng), 2010 | OVGU, Magdeburg, Germany | Engineering Design (Composite) | NA | NA | Good/Under HEC Scholarship |

I can not claim to be the first educated person of my family, but definitely I am the first female engineer of my entire family and also the first in my village. During my stay at UET Peshawar, I participated in various co-curricular activities like debates and sports. I have won multiple national level prizes in debates, as well

Having a rural background, I am much more passionate about further improving my education. I have worked in textile sector for about two years, prior to applying for HEC scholarship. The selection process was a rigorous process starting from a GRE-based test. After being short listed by HEC, I appeared before an interviewing panel, comprising of foreign faculty members. After the interviews the successful applicants were advised to formally apply for admission, in the South Korean University, identified by HEC. When my admission was confirmed in a South Korean University in the MS-Engineering program, I was offered scholarship by HEC. It was a moment of great pride for me and my family. It was not an ordinary feast for a girl of a small village to have won a prestigious Government scholarship, which was contested by thousands.

The opportunity of studying in a multi-cultural and multi-ethnic environment in South Korea, which is the 12th biggest economy of the world, broadened my horizon. I was introduced to new vistas of knowledge and recent advancements in field of my interest. I learnt different ways of tackling a complex situation. My problem solving skills improved a lot and this personality development actually enhanced my self-confidence. Higher studies is not all about memorizing books or understanding existing knowledge. It extends beyond that, i.e you struggle to bring innovation in your thinking pattern. I was provided with ample guidance by the world class faculty in Korea who were always there to help me broaden my frontiers of knowledge.

During the course of my MS (Engineering) studies in South Korea, I have published two papers in IEEE journals and have done an international conference presentations details of which are presented below:

**Publications:**

* A.Rehan, K. H. Grote, C. Beyer, Strength Scaling in composite Laminate Design,2008, Schriftenreihe Produktentwicklung und Konstruktionsmethodik Aachen, Germany ISBN:978-3-8322-7544-0 Vol. 5, 251-261
* A.Rehan, K. H. Grote, Composite Strength Scaling Effect using Progressive Degradation Model 2009 IEEE, World Congress on Computer Science & Information Engineering , CSIE2009, Los Angeles, USA ISBN: 978-0-7695-3507-4
* A.Rehan, K. H. Grote, "Strength scaling simulation in fibre reinforced composites using ANSYS"2009, ANSYS Conference & 27th CADFEM User's Meeting 2009, Leipzig, Germany ISBN: 3-937523-06-5

My core expertise is in the field of weaving and my focused area of research is xxxxxxxxxxxxxxxxxxx. This field is more relevant to textile production units. Pakistan is a major cotton producing country of the world and I want to see my country being acknowledged as a major and superb textile manufacturer and exporter in the world. In the value cahin of textile manufacturing, I am confident to add value, by sharing my expertise gained in an industrially advanced country of the world. This field has a great potential for local consumption as well as for foreign exports. I wish to see the complete supply chain of cotton products in Pakistan, starting from raw cotton to yarn, to fabric to apparel with established brand names. This is not an un-attainable target, for I know, that every accomplishment begins with a clear vision of the future. We have the right ingredients to make our country prosper in every field.

**Achievements** (If you have won any distinction award of your research work, any medal of your PhD work from a renowned national or international organization or platform, newspaper publication of your PhD research work, any sort of high level achievement or appreciation published in Print/electronic or voice media.) Or presented your research work in international conference and won any prize or award.

Please also attach necessary documents, Pictures, materials in recognition of your achievements.