Dr. BILAL AHMAD WANI

Junior Scientist Technical, Centre of Research for Development (CORD),
University of Kashmir
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EDUCATIONAL QUALIFICATION

Ph.D. (2005-2010**) -** Department of Botany, University of Kashmir, Srinagar-190006

Title of the thesis- Anatomical Survey of Some Woods of Kashmir Himalaya for their Industrial"

Supervisor: Prof. Amina Khan., Department of Botany, University of Kashmir, Srinagar-190006, India

M.Sc. Botany (2004**) -** Department of Botany, University of Kashmir, Srinagar-190006 India

Diploma in Remote Sensing, GIS, and Global Positioning System (2009) Indian Institute of Remote Sensing. Department of Space, Government of India

Advanced Diploma in Computer Applications (1999) from ET&T Corporation Ltd. New Delhi

Research publications: 35

Presentations in Seminar/Symposium/Workshop: 20

Developed e-Content in Botany through Educational Multimedia Research Centre (EMMRC) University of Kashmir for University Grants Commission (UGC) New Delhi: 8

Research Experience: **18** years

Working as Junior scientist Technical since 27/02/21 level 10 of 7th pay commission

Administrative Experience:

(1) Assistant Editor for **Journal of Research for Development**, CORD, KU since 2011

(2) Purchasing of **Chemicals, Glassware** for CORD, KU since 2011

AREA OF INTEREST, Wood science and technology, Bioresources, Medicinal plants, Environmental studies, Biodiversity and conservation

Research specialization/Interest

a) Wood variation and its causes.

b) Wood formation

c) Suitability of different woods for different purposes on the basis of anatomical and physical properties

d) Biodiversity

e) Medicinal Plants

About my Ph.D thesis

Wood is unique among the world's important raw materials virtually used by everyone in diverse ways. It is basically secondary xylem produced by the meristematic activity of cambium and consists of cells or wood elements that have passed through various stages of development. The work contained in this thesis involved the detailed information of within tree variation in physical and anatomical properties of the wood from three sites of five different species of trees viz., ***Parrotiopsis jacquemontiana, Salix alba, Populus nigra, Juglans regia*** **and** ***Robinia pseudoacacia***. The objectives were to study the within tree variation in physical properties, anatomical parameters and ratios with reference to radial and height positions and also due to site variation of the five different species for their use in different wood based industries. Different types of ratios such as Runkel ratio, Luce's shape factor and Slenderness ratio were determined from the respective basic data related to fiber morphology. These ratios are important particularly for determining the suitability of a particular material for pulping and paper making. Throughout the thesis statistical treatments have been given to every parameter right from the data on anatomical and physical parameters and derived properties of wood to that of formation of cambium during different months of year.

Dr. Bilal Ahmad Wani