

# Dr. Betty Dasgupta

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Indian Institute of Carpet Technology, Bhadohi  
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## Objective

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*With 33 years of experience in the industry and academia, I have handled diverse portfolios of Human Resources Development (HRD), Research & Development (R&D) and Technical Consultancy Services (TCS). I am passionate about textiles and I have dedicated years to studying and researching on uses of organic fibres and sustainable alternatives. With exceptional organization skills, strategic thinking and a participatory leadership style, I have excelled in administrative as well as leadership roles.*

## Education

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**Ph.D (Chemical Engineering and Technology), IIT B.H.U, Varanasi** **2012**

**B.Sc (Tech),Chemical Technology, Textile Chemistry UDCT, Mumbai (now ICT), Maharashtra** **1993.**

**B.Sc (Chemistry), Vimala College, Trichur, University Of Calicut, Kerala** **1990**

Rank holder: 3<sup>rd</sup> Rank across University of Calicut.

## Professional Experience

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**Indian Institute of Carpet Technology (IICT), Bhadohi under Development Commissioner Handicrafts, Ministry of Textiles, GOI,as Assistant Professor** **May, 2003 - To Date**

- Training and Placement for recruitment and internships of B.Tech students.
- Mentoring and teaching of B.Tech students.
- Managing the NABL accredited lab in the capacity of Customer Service Manager.

**Zeba Home Pvt. Ltd, Mirzapur** **February, 1995 - May, 2003**

- Managed production of luxuriant home furnishings.
- Instrumental in conceptualizing and designing Banarasi Silk and Chanderi textiles in a range of home furnishing and décor items.

**Harry Collections, Mumbai** **June, 1993 - June, 1994**

- Worked as Quality Control Officer in the R&D Lab.
- Development of new shades with low liquor ratio of PV suits.



## Technical Consultancy Services (TCS)

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S.N.	Roles	Year
1.	Innovation Cell, Ministry of HRD, GOI, Member Dr Shyama Prasad Mukherjee Post Graduate College, Bhadohi	2021- Till date
2.	IQAC Cell, Dr Shyama Prasad Mukherjee Post Graduate College, Bhadohi	2021- Till date
3.	Innovation Cell, Ministry of HRD, GOI Offered expert advise in the Institution Innovation Council of KNPG College, Gyanpur.	2018
4.	National Centre For Vocational Training, Directorate General Of Employment And Training, Ministry Of Labour, Authored modules on carpet manufacture.	2012
5.	Sahara KasturiHandicrafts, Lucknow Worked as main instructor for skill upgradation of employees.	2007-08

## Skills

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- Interpersonal Skills: Communication, Creative and Technical Writing, Public Speaking.
- Management Skills: Time and People Management.
- Computer Skills: Proficient in MS Office
- Language Skills: Proficient in Malayalam, English, Hindi, Bengali.

## Selected Achievements

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- Core member in the project of Laboratory upgradation in the institute, with a project cost of Rs 5.4 Crores (Implementation stage)
- Performed as Coordinator in a Faculty Development Programme ATAL FDP of AICTE in May 2021



- Worked as a key committee member for distribution of hand-knotted looms for artisans trained under Integrated Skill Development Scheme (ISDS) and Comprehensive Handloom Cluster Development Scheme (CHCDS) for project worth Rs. 20 crores, 2019 – ongoing.
- Worked as a key committee member for distribution of solar inverters for artisans working in carpet industry for project worth Rs. 16 crores, 2019 – ongoing.
- Selected for AICTE-UK India Education Research Initiative (UKIERI) Technical Leadership Development Programme, 2019-2020 conducted by Dudley College of Technology, UK and got CMI Level 5 certificate from UK.
- Made the Pipris Campus (2<sup>nd</sup> Campus of IICT) functional and established the Carpet Manufacturing Workshop in 2017.
- Selected to represent a cohort of IICT students for training on wool industry in Canesis, New Zealand in 2004.

## Training & Extension Activities

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### i. International Collaborations

S.N.	Project Name (Year)	Details	Sponsorer and Amount Sponsored
1.	Carpet Cleaning and Maintenance By Woolsafe Academy, UK (2015)	Co-ordinator in organizing a 7-day workshop on cleaning and maintenance of carpets. Trained industry personnel, research scholars and shortlisted undergraduate students.	Office of Development Commissioner (Handicrafts) [DCHC], Ministry of Textiles 20 Lakhs
2.	Study of 5 students and one faculty at WRONZ, New Zealand (2004-05)	Participated along with 5 students in a 4-week training on natural fibres with special focus on wool and wool Industry.	DCHC, MOT 25 lakhs

### ii. As Principal Investigator

S.N.	Project Name (Year)	Details	Sponsorer and
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			Amount Sponsored
1.	<i>Development and implementation of Woollen Kaleen mark</i>	<i>Principal Investigator</i>	CWDB, Jodhpur 1.29 Cr
2.	Study of Constructional and Performance Requirements for Handmade Wool Blended Carpet Used in Floor Covering Applications and Packaging Practices of Carpets	<i>Principal Investigator</i>	BIS, New Delhi 7.9 L
3	Design & Technical Development workshop in printing on pile carpets (2017-18)	Co-ordinated and conducted a 3-day workshop for training and skill upgradation of SC candidates of the State.	DCHC, MOT 4.30 lakhs
4	Design & Technical Development workshop in Jacquard design on handloom pile carpets. (2017-18)	Co-ordinated and conducted a 3-day workshop for training and skill upgradation of SC candidates of the State.	DCHC, MOT 4.30 lakhs
5	Design & Technical Development workshop in Jacquard design on dhurry. (2017-18)	Co-ordinated and conducted a 3-day workshop for training and skill upgradation of SC candidates of the State.	DCHC, MOT 4.30 lakhs
6	Workshop/seminar on DHURRY making craft for SC youth (2016-17)	Co-ordinated and conducted a 3-day workshop for training and skill upgradation of SC candidates of the State.	DCHC, MOT 4.46 lakhs
7	Workshop/seminar on tufted carpet making craft for SC youth (2016-17)	Co-ordinated and conducted a 3-day workshop for training and skill upgradation of SC candidates of the State.	DCHC, MOT 3.12 lakhs
8	Entrepreneurship workshop for SC youth with special reference to the export procedures related to carpet trade (2016-17)	Co-ordinated and conducted a 3-day workshop for training and skill upgradation of SC candidates of the State.	DCHC, MOT 3.69 lakhs
9	Base woven Fabrics Manufacturing Skills Workshop (2015)	Co-ordinated and conducted a 3-month workshop for training and skill upgradation of SC	DCHC, MOT 8.45 Lakhs



		candidates of the State.	
10	Integrated Skill Development Scheme (ISDS) 2013-14	Upgrading skills of artisans in hand-knotted carpet making.	DCHC, MOT 8 Lakhs
11	Workshop and Training for Master craftsmen/Designer Person On Natural Fibres at Bhadohi, Mirzapur, Varanasi, Panipat (2004-05)	Demonstrated the manufacturing of carpets using natural fibres such as jute, hemp and sisal.	DCHC, MOT 7.90 Lakhs

iii. As Co-Principal Investigator in DCD

S.N.	Project Name (Year)	Details	Sponsorer and Amount Sponsored
1.	Integrated Carpet Design And Skill Development Project at Mirzapur, Varanasi, Bhadohi, Jaipur (2006-07)	Organized a workshop for upgradation of Computer Aided Design (CAD) knowledge of carpet industry workers.	DCHC, MOT 32 Lakhs
2.	Integrated Wool Improvement Programme at Bikaner, Rajasthan (2005-06)	Tried and tested different types of local wool available in Rajasthan for carpet marketing	MOT 10 Lakhs
3.	Integrated Carpet Design Development Project at Mirzapur (2004-05)	Pioneered in conducting one of the first workshops in dissemination of Computer Aided Design (CAD) knowledge.	DCHC, MOT 4 lakhs

## Placement Activities

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- Succeeded in 100% placement for a record number of 11 consecutive years.
- Instrumental in recruitment of undergraduate students in reputed carpet-manufacturing companies like Standard Carpets, Dubai, Oriental Weavers, Egypt, Obetee, India, Welspun, among over 100 others.



- Organized workshops and lecture series for personality and soft skill development of undergraduate students for internship and recruitment.
- Facilitated signing of MOUs between IICT and key industry players to increase the practical knowledge and industry exposure of students.
- Initiated Industry-Institute Interaction Meet for collaboration of carpet and textile companies for knowledge exchange and placement of students.
- Initiated Alumni Konnect – a lecture series of alumni interacting with students of IICT

### Society Memberships

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- Lifelong Member, Society of Dyers and Colourists, UK
- Chartered Engineer, The Institution of Engineers, India
- Member, The Indian Natural Fibre Society

### Certifications

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- Internal Auditor of ISO 9000 accredited by Textiles Committee, Ministry of Textiles in 2005.
- Laboratory Management and Internal Audit as per ISO/IEC 17025:2017.

### International Journal Publications

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- S. K. Gupta and B. Dasgupta, Performance of Hand Tufted Woollen Carpets, *Journal of the Institution of Engineers (India): Series E*, 2021, <https://doi.org/10.1007/s40034-021-00221-5>
- Dasgupta, B. and Mondal, M.K., "Municipal solid waste generation and management practices in Varanasi, India", *Waste Management*, 32(2012), 1045-1049
- Dasgupta, B. et al, "Composition and characterisation of simulated putrescible organic fraction", *Biomass and Bioenergy*, 35(2011), 4376-4380
- Dasgupta, B. et al, "Bioenergy conversion of organic fraction of municipal solid waste of Varanasi", *Energy Procedia* 14(2012), 1931-1938
- Dasgupta, B. et al, "Seasonal characterization and present status of municipal solid waste (MSW) management in Varanasi, India" *Advances in Environmental Research*, 2(2013), 51-60
- Mondal, M.K., **Dasgupta, B.V.**, "EIA of Municipal solid waste disposal site in Varanasi using RIAM analysis", *Resources, Conservation and Recycling*, 54(9)(2010), 541-546.
- Mondal, M.K., **Dasgupta, B.**, "Removal of Orange G from aqueous solution by hematite: Isotherm and mass transfer studies", *Korean Journal of Chemical Engineering*, 27(6) (2010), 1811-1815(5)



### **National Journals**

- Shravan Kumar Gupta and Betty Dasgupta, A Study on Thickness Loss of Hand Tufted Carpets after Dynamic Loading, *Indian Journal of Natural Fibres*, 9/2, January 2023, 64-72.

### **Book Chapters Authored**

- Chapter 9 "Digital Printing of Textiles" of book titled "Recent Advances in Clothing and Textiles" edited by Dr. Neeta Singh and Dr. Madhu, Kripa Drishti Publications, Pune, June 2022
- Chapter 10 "Smart Textiles" of book titled "Recent Advances in Clothing and Textiles" edited by Dr. Neeta Singh and Dr. Madhu, Kripa Drishti Publications, Pune, June 2022

### **Conference Paper Presentation**

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- Dasgupta, B.V. and Mondal, M.K, "Effect of ferrous sulphate on biomethanation and acceleration of biogas production from organic fraction of municipal solid waste" at *Proceedings of the International conference on Solid waste 2011-Moving towards sustainable resource management, Hong Kong, China, 2-6 May 2011.*
- Dasgupta, B.V. and Mondal, M.K, "Bioenergy conversion of organic fraction of municipal solid waste of Varanasi" at *2nd International Conference on Advances in Energy Engineering (ICAEE 2011), Bangkok, Thailand December, 27-28, 2011, .*
- M.K. Mondal and B.V. Dasgupta, "Separation of various fractions present in MSW at Varanasi" at *Proceedings of International Conference on Separation Processes (ISBN: 978-81-8424-499-1); 422-428. IT, BHU, Varanasi.*
- M.K. Mondal and B.V. Dasgupta, "Agricultural waste as low cost adsorbent for heavy metal removal- A Review" at *Proceedings of International Conference on Separation Processes (ISBN: 978-81-8424-499-1); 28-34. IT, BHU, Varanasi.*
- M.K. Mondal and B. Dasgupta, "Alkaline pretreatment of organic fraction of municipal solid waste at Varanasi, India" at *Proceedings of the 99<sup>th</sup> Session of the Indian Science Congress, January 3-7, 2012, Bhubaneswar, India, 168-169.*

### **Workshops/Courses Attended**

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Workshops:

- Ecofriendly Chemicals –Rossari Biotech, 2020.
- New Dyes for Carpet – Archroma, 2018.
- Developments in Chemicals and Auxillaries – Clariant, 2017.



- Certification for wool products – The Woolmark, 2008.
- Dyes for Wool and Wool Blends – Clariant, 2007.
- CEPC Conference on Carpets, 2007, 2005 and 2004.
- First World Conference on Handmade Carpets, 2003.

#### Courses:

- Refresher Course on Gender Sensitization by UGC at ASC-BHU, 2018
- Refresher Course on Environmental Sciences by UGC at ASC-Pondicherry University, 2018
- Short Term Course on Research Methodology at ASC-Pondicherry University, 2016

### **Positions of Responsibility**

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- Member, Sectional Committee on Wool Products and Textile Floor Coverings, Bureau of Indian Standards, since November, 2018
- Chairperson, Internal Complaints Committee under POSH Act of 2013 – since November, 2016
- Training and Placement Officer, Training and Placement Cell - since September, 2013
- Customer Service Manager, NABL Accredited Lab of IICT – since September, 2013
- Course Coordinator for Woolmark Company Australia, IICT Bhadohi – since December, 2018
- Coordinator, Alumni Cell of IICT – July, 2019 - To Date
- Coordinator, International Distance Learning Programme by Canesis New Zealand –May, 2003 to May, 2008
- Member, Sectional Committee on Wool Products and Textile Floor Coverings, Bureau of Indian Standards – May, 2003 to May, 2008
- Warden of Girls Hostel, IICT – May, 2003 to May, 2008