

# **Curriculum Vitae**

**Dr. Eng. Hasabelrasool A.Bagi Muhammad  
Ahmed**

**(1) Personal data sssQualification:**

**Name : Hasab Elrasool A.Bagi Muhammad Ahmed.**  
**Place of Birth ; Eldanaglah, 25/05/1954**  
**Nationality : Sudanese**  
**Religion : Muslim**  
**Marital Status : Married**

**(2) Present Adress**

**No. 282/ Block 7, Safia North, Khartoum bahri, Sudan**  
**Tel: Mob. +249 9123 94033**  
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**(3) Pre-Universirty Education**

**Blue Nile High Secondary School, Wad Medani.**

**(4)Qualification sssQualification:**

- **Ph.D. Textile Engineering, 2002,**  
***College of Engineering, Sudan University /Research work carried at Mumbai Insistute of Technology , India.***
- **M.Sc Textile Technology, 1985, New South Wales University, Sydney, (Australia)**
- **Postgraduate Diploma, Textile Industries, 1979, Leeds University, Leed, (U.K).**
- **Associate of Textile Institute, 1985, (U.K).**
- **First Class Diploma, Textile Technology, College of Engineering Studies, Khartoum Polytechnic, 1977, (Sudan).**

**(5) PhD Thesis Title**

**The Standardization of Sudanese Cotton Barakat-90.**

**(6) Area of Specialization**

**Textile Engineering, Textile Material, Hygiene Textiles, Nano Textiles.**

**(7) Professional Experience**

- **Tabarak Marketing Co. Advisor and Manager 1990-1998**
- **Elbakry Absorbent Cotton wool Factory, Manager, 1995-1999**
- **Bader Development Organization (NGO) Executive Manager, 200-2004.**

- **Acala Cotton Company, Advisor, 1998-1999.**
- **Nilecot. Advisor, 1998-2002.**
- **Sevak Export, Mumbai, India, Representative and advisor, 1996- 2004.**
- **Isam Ltd. England, representative and advisor. 1992-1998.**
- **Elbadr Absorbent cotton wool, Technical Advisor 2001-2007.**
- **Elragy Hygiene Textile Products, 2005, Consultant and Executive.**
- **GDM Hygiene Textile Machinery, Advisor, Agent.**
- **Henkel, Dusseldorf, Advisor, Representative.**
- **Dounor Nonwovens, France, Representative.**
- **Tempec Tartas Cellulose, France, Representative.**
- **Investkonsult, Sweden, Representative 2003-2008.**
- **Koester, Lohman Group, GmbH, Co, Kg, Tendorf, Germany.**
- **Consultant, Garment Factory, Police Social Insurance Fund. 2009 todate.**
- **Textile Quality control- 1980, Uster Zellweger, Switzerland.**
- **Machinery Manufacturing, Crosrol Ltd. 1980, Halifax, England.**
- **Knitting Machines, Cirtex Ltd. 1992, Leicester, England.**
- **Sewing and Knitting Machines maintenance, 1993, Isam Ltd. England.**
- **Computer Applications, 1985, NSW University, Sydney.**
- **Machine Manufacturing, Trutzchler Monchengladbach, 1995, Germany.**
- **Cotton Wool Processing, Henkle, Dusseldorf, 1996, Germany.**
- **Machinery Maintenance, ITM Handlesgesellschaft, 1996 Germany.**
- **GDM Textile Hygiene Machinery, 2005, Milano, Italy.**
- **Bezema, Switzerland. 2005.**
- **Small projects finance and management, Social Development corp. Kharoum. 2001.**
- **Projects Monitoring and Evaluation, Intermediate Technology NGO, Khartoum, 2001 Khartoum.**
- **Disaster and Emergency Management, 2002, Sudan Academy of Science, Khartoum.**
- **Total Quality Management (TQM) Sudan Academy of Management Science, 2002.**
- **The Role of Leadership in attaining Good Governance, 2006, Total Quality Management and Excellence Centre.**
- **German Language, Goetae Institute Khartoum, 1980.**
- **Fench Language, La Centre Francais, Khartoum. Level 90.**
- **HR Development, International Center for Quality, Salam Rotana, Khartoum, Sudan, March 2008.**
- **Total Quality management, Total Quality Management and Excellence Centre, Khartoum, Sudan. June, 2008.**

#### **(8) Teaching Experience**

- **Sudan University, 1980 –2009.**
- **University of Khartoum, Faculty of Education, Family Science 1993-1995.**
- **Sudan Academy of science, Coordinator Nanotechnology Msc to date.**
- **Forensic Science Institute, Ministry of Interior, 2006, Khartoum.**
- **University Of Gezira, Post Graduate Students Supervision.**
- **Sudan University, Post Graduate Students Supervision.**
- **Head Textile Production, Dept. 1990-1995.**
- **Bhatiar University and PSG College, South India, Co-Supervision of Post Graduates to date.**
- **Visiting Prof. PSG Institute of Advanced Studies, South India.**
- **Head Department Textile Engineering. 2005-2007.**
- **University Principal assistant, Sudan University 2007-2008.**
- **Consultant and Contract manager, Consultancy and Feasibility Study Center (SUST). 2007-2009.**
- **Projects Manager Africa City of Technology to date.**

#### **(9) Supervision of Post Graduate**

**A) Supervised and examined a number of MSC and PhD Students at Sudan University.**

- **B) Supervised and examined a number of Students at Gezira University,**
- **C) Supervised and examined students at PSG Institute of Advanced Studies and Bhatiar University (South India).**

#### **(10) Research Projects:**

- **Cotton Characteristic and Standards.**
- **Nonwovens, Hygiene Textiles, including baby diapers, lady napkins, Adult Diapers, bandages, gauze, and wipes.**

#### **(11) Administrative Experience:**

- **Sudan University, Head Textile Production Department, and Textiles Engineering Department.**
- **University Principal Assistant.**
- **Consultant and Contract manager, Consultancy and Feasibility Study Center (SUST).**
- **Africa City of Technology Projects Manager and deputy manager to date.**
- **Pan African Network Teleeducation set up and running supervision “ A project donated by Government of India, availing BA, MBA, Diplomas as distance learning through six Universities in India via special satellite at Africa City of Technology”**

#### (12) Professional memberships

- **FeLLow, Sudanese Engineering Society.**
- **Member, Union of Engineers, Sudan.**
- **Member Sudan Engineering Council, (Consultant Engineer)**
- **President and founder Textile Graduate Association, (Sudan).**
- **Member, Sudan Consumer Association.**
- **Member, Sudanese information management.**
- **Member, Total quality management group.**
- **International Society of Fiber Sciences and Engineering.**
- **Head, Textile Committee, Sudan Standards and Metrology Organization (SSMO), (2002 til now)**
- **Head, Cotton and Gin Committee, Sudan Standards and Metrology Organization (SSMO), (2002 til now), (SSMO).**
- **Head, Army and Police Textile Needs Committee (SSMO), Sudan, 2001-2006.**
- **Ministry of Interior, Police Uniform Committee.**
- **Member National Nanotechnology group.**
- **Coordinator Nanotechnology MSc program, Sudan Academy of Science and Technology.**
- **Member, London Institute of Material.**
- **Member, European Disposable and Nonwoven Association (EDANA).**
- **Executive Committee Sudanese Futuristic Studies Organization.**

#### (13) Extra Curricular Activities

- **Bader Development Organization.**
- **Balagam Organization.**
- **Sabeel Organization (NGO)**

(14) Publications

**A) Scientific papers:**

**Peer reviewed Refereed Journals:**

1. R. Rajendran<sup>1</sup>, C. Balakumar<sup>1\*</sup>, Hasabo A. Mohammed Ahmed, S. Jayakumar<sup>3</sup>, K. Vaideki<sup>3</sup>, Use of Zinc Oxide Nano particles for production of antimicrobial textiles, International Journal of Engineering, Science and Technology, Vol. 2, No. 1, 2010, pp. 202-208.
2. C. Balakumar, R. Rejendran, Hasabo Mohamed Ahmed, and S. Jayakumar<sup>1</sup>, R. Rajendran, , S.Jayakumar<sup>3</sup>, R.Radhai<sup>1</sup>, C. Balakumar, PLASMA/ENZYMATIC TREATMENT ON ANTIBACTERIAL ACTIVITY IN COTTON FABRICS, ACT, BRC Journal. Issn 1885-5965, www.act.sd,3/1/ 2011.
3. C. Balakumar, R. Rejendran, Hasabo Mohamed Ahmed, and S. Jayakumar<sup>1</sup>, Size Controlled of MgO Nanoparticles and its Fabrication on Textiles on Microbe Resistance, MACMILLAN Advanced Research series ISBN 978-935-059-047-8 Energy and Eco material (*ICAM 2011*)
4. Rajendra R1., Hasabo A. Mohamed Ahmed , Sundaram S. Karthik DEVELOPMENT OF MICROBIAL CONSORTIUM FOR THE BIODEGRADATION AND BIODECOLORIZATION OF TEXTILE EFFLUENTS, Journal of Urban and Environmental Engineering, ISSN 1982-3932, doi: 10.4090/JUEE 2009.v3n1.001006.
5. Hasabo A Muhammad Ahmed, and R. Rajendran, Lo-Tech and Hi-Tech Baby Diaper Machines Assessment of Performance and Economy, Gezira J. Of Engineering and App. Science, 6(2):59-96 (2011).
6. Hasabo A Muhammad Ahmed, and R. Rajendran , and C. Balakumar, Development of Cotton-Lyocell Blended Antimicrobial Wipes” World Conference on Textile (AUTEX 2011) June, Mulhouse, France, MacMillan Advanced Research Book of Abstracts ISBN 978-2-7466-2858-8, Elixir Online Journal.

7. **Hasabo A Muhammad Ahmed**, The Role of Cotton in Sustaining the Sudanese Rural and Urban Community Life over Decades and future look, Natural Fibres Conference, 14 - 15 Dec 2009, Institute of Materials, Minerals and Mining, London, UK, Selected for Publication in the International Journal of Material Science and Engineering (ISSN1934-8959).
8. Rajendran, R., Radahai R., Balakumar, C., **Hasabo Mohamed Ahmed**, Vigneswaram C., Vaidiki, K., Synthesis and Characterisation of Neem Chitosan Nanocomposites for Development of Antimicrobial Cotton Textiles, Journal of Engineered fibers and Fabrics, Volume 7, Issue 1, 2012, [www.jeffjournal.org](http://www.jeffjournal.org).
9. **Hasabo A Muhammad Ahmed**, R. Rejendran, S. Jayakumar, Plasma Surface Modification of Textiles Substrates, Accepted for Publication Journal of Engineered Fibres and Fabrics, Feb 2012. [www.jeffjournal.org](http://www.jeffjournal.org).
10. **Hasabo Mohamed Ahmed**, R. Rajendran, and C. Balakumar, Nanoherbal coating of Cotton Fabric to enhance antimicrobial durability, Elixir Journal, 45 (2012) 7840-7843 available online: [www.elixirjournal.org](http://www.elixirjournal.org)
11. **Hasabo A Mohamed Ahmed**, R. Rajendran, C. Balakumar, S. Jayakumar, K. Vaidiki, Study of Liquid Penetration, Transport, Strike through, Run-off and Wetback in Nonwoven Topsheet of Baby Diaper, Research Journal of Textile and Apparel, (in Press)
12. **Hasabo A. Muhammad Ahmed**, R. Rajendran, and C. Balakumar Development of Biocidal Cotton Fabrics with Polyalthia longifolia (in Press).

### **International Conferences**

13. **Hasabelrasol Abdelbagi Muhammad Ahmed**, Prediction of Barakat-90 Cotton Grade Using Trash Measurement of HVI . International Conference of Applied Research in Textile © CIRAT-

- 3, 13-16 Nov. 2008 Sousse, Tunisia. See [www.cirat-3.org](http://www.cirat-3.org) (Peer reviewed, Presented and published).
14. **Hasabelrasol Abdelbagi Muhammad Ahmed** Investigation of Barakat-90 Cotton Using HVI Measurements in Relation to Manual Sudan Grading , World Textile Conference, TRD, 4-6 April Cairo, Egypt, 2009 (Peer reviewed, Presented and Published).
  15. **Hasabo Muhammad Ahamed**, R. Rajendran b, C.Balakumar b and S.Jayakumar Prevention of Diaper Dermatitis in Baby Diapers with Nanoencapsulated Natural Extracts c Proceedings of the 4th International Conference on Nanostructures (ICNS4) 12-14 March, 2012, Kish Island, I.R. Iran (Peer reviewed, Presented and published)
  16. **Hasabo A Muhammad Ahmed** R. Rejendran 2 , S. Jayakumar , Plasma Surface Modification of Textiles Substrates, International Conference on Advanced Material, 14-16 Dec. (ICAM 2011), India (Peer reviewed, Presented and published.
  17. R. Rajendrana, **Hasobo Mohammad Ahamed**, R. Radhaia, C. Balakumarar, In Vitro Evaluation of Wound Healing Efficiency of Herbal Nanoparticles Loaded Antimicrobial Wound Dressing, Proceedings of the 4th International Conference on Nanostructures (ICNS4), 12-14 March, 2012, Kish Island, I.R. Iran (Peer reviewed, Presented and published.
  18. **Hasabelrasol A. Muhammad Ahmed** Liquid penetration, retention and distribution as a function of structural parameters of top sheet and acquisition layer in baby diaper, Intelligent Textiles and Mass Customization (ITMC), Casablanca, Morocco, 12-14 Nov. 2009 (accepted).
  19. **Hasabo A Muhammad Ahmed**, R. Rajendran, and 2 C.Balakumar Antimicrobial Functionalization of Cotton Fabric Surfaces by Durable Nanoherbal Coatings, CIRAT-4, 12-14 Dec. 2010. Monastair, Tunisia (Peer reviewed, Presented and published.
  20. R. Rajendran, **Hasabo A. Mohammed Ahammed** S. Karthik Sundaram, Development of Microbial Consortium for the Biodegradation and Biodecolorization of Textile Effluents CIRAT-4, 12-14 Dec. 2010. Monastair, Tunisia (Peer reviewed, Presented and published.
  21. **Hasabelrasol A. Muhammad Ahmed** THE COLOUR PARAMETERS OF ELS SUDANESE COTTON (BARAKAT-90) IN RELATION TO ITS SPINNING INDEX World Conference on Textiles,

**Autex2009 – June 2009, Cecma, Izmir, Turkey (Peer reviewed, Presented and published.**

- 22. Hasab A Muhammad Ahmed, osama A. Rayis, F. T. Abu Shamah, SUDANESE NATIONAL NANOTECHNOLOGY INITIATIVE (SDNNI) International Workshop on NANOTECHNOLOGY In the Edge of Convergence, Malaysia 24-27 November 2011, Centre For Science And Technology of The Non-Aligned And Other Developing Countries. (selected for Publication)**
- 23. Hasab Muhammad Ahmed, International Conference of Biotechnology, Khartoum, Sudan, 23-27 Oct. 2009 (Peer reviewed, Presented and published).**
- 24. Hasabo Mohamed Ahmed, R. Rajendran, C. balakumar, and S, Jayakumar, Enhancement of the lemon Grass oil Trated Mosquito repelent Nylon nets by plasm Pretreatment. OMICS Material Science Conference, 22-24 Oct. Chicago 2012 (Accepted).**
- 25. Hasab Muhammad Ahmed, R. Rajendran and C. Balakumar, Nanofunctional Textiles, Proceedings of the International Conference on Thin Films and Applications (ICTFA-2012) during 15th - 17th of March 2012. (Invited talk, Accepted).**
- 26. R. Rajendran, Hasabo Mohamed Ahmed, C. Balakumar, and S, Jayakumar, Microbial Enzymatic tratment of baby Diaper fron Sheet to Enhance liquid Transport,. OMICS Material Science Conference, 22-24 Oct. Chicago USA 2012 (Accepted).**

### **B/ Books:**

**CONTRIBUTION TO BOOKS AND PROJECTS REPORTS**

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- 1- Textiles in Sudan, Hasabo Adelabgi, Eltayeb Mohamed Eltayeb, , Rashad Mekki. 2011. Reviewed by prof Abbas Y Abu Salma.**
- 2- The Specification of the Sudanese Cotton Barakat-90, 2004/2005 season, Sudan Standard and Metrology Organization, Gezira Board, Sudan Cotton company. (1700 samples from various growing areas tested and reported)**
- 3- The Specification of the Sudanese Cottons Barakat-90, Acala 2005/2006 season, Sudan Standard and Metrology Organization,**

**Gezira Board, Sudan Cotton company (2000 samples from various growing areas tested and reported).**

- 4- The Guide to Sudanese Standards Hasabo A Bagi eviewd by Prof Mhd Saeed Harby Former G. Manager of Sudanese Standards & Metrolgy Org. (in Press).**

### Workshops

- 27. Safety in Engineering Workshops, Hasabo A Bagi.**
- 28. Symposium on organic cotton, 15 June 2009, celebrating the 09 year of natural Fibers.**
- 29. The Sudanese Standards Role in Enhancing the Quality of Sudanese Textiles. 2004.**
- 30. The Standardization of s of the Sudanese Cottons, Wad Medani, Headquarters of Gezira Board, 2005.**

### **(15) Seminars, Conferences and Symposia**

- **International Textile Machinery, Exhibition Fair (ITMA), 1991, Hamburg.**
- **International Plastic Fair, 1993, Dusseldoerf,**
- **International Textile Machinery Exhibition of India, (ITME), 1995, Mumbai, India.**
- **Saudi National Industry exhibition, 1995, Jeddah, Saudi Arabia.**
- **International Appreal Fair, 1996, Jakarta, Indonesia.**
- **International Guahzou Fair, 1996, Gunzhou, China.**
- **International Hosiery Exhibition, 2000, Damascus Syria.**
- **International Tehnical Textile and Nonwoven Fair, 2005, San Paolo, Brasil.**
- **Visit to Various Hygine Hygine Textile Companies Bouda (Austria), Lohman Roacher (Germany), Doutex (France), Visit to Saudi Carpet (Riyadh, Saudi Arabia)**
- **Visited, International Nonwoven Exhibition (Index-08). 2008, Geneve, Switzerand.**
- **Attended 5<sup>th</sup> International Conference of Textile Research Division, NRC, Cairo, Egypt, April 5-7th, 2008.**
- **Attended and participated in the 6th International Conference of Textile Research Division NRC, Cairo, Egypt, April 5 – 7, 2009.**
- **Attended and participated in the International conference of Textile Research Unit (CIRAT-3), Souse Tunisia, 2009.**

- **Attended and participated in the International conference of Textile (AUTEX-10), Izmir, TURKEY, 2009.**
- **Attended and participated in the International conference of Textile Research (CIRAT-4), Sousse Tunisia, Dec. 2010.**
- **Attended and participated in the International conference of Textile e ENSISA (Autex-11), Mulhouse, France, 2011.**
- **Visiting Professor PSG College of Science and Arts, Coimbatore, Tamilnadu, India. Oct.-Nov. 2011.**
- **Clean Room Technology, UNAM, Bilkent University, Turkey, 25/6-8/7/2012.**