ICAR-National Institute of natural Fibre Engineering & Technology
12, Regent Park, Kolkata-700040

PROFILE

1. Full Name : **Er. Haokhothang Baite**
2. Educational Qualification : **M. Tech**
3. Designation : **Scientist**
4. ARS Discipline : **Agricultural Structure & Process Engineering**
5. Date of joining in ICAR : **05.07.2017**
6. Date of Joining in ICAR-NINFET : **16.10.2017**
7. Working experiences (in years)
    a. Research : **6 years**
    b. Teaching :
    c. Industry :
8. Area of work (Five areas only)

    Extraction and Processing of natural fibres, Natural fibre as packaging materials, agro-textile mulch, building materials and bag development, Popularization and transfer of institute developed technologies.

9. Contact details
    a. Mobile No : 9776309963
    b. Email : **hthangneobaite@gmail.com**, **hkt.baite@icar.gov.in**
10. Number of project completed
    a. As Co-PI completed -05
11. Professional Achievements (Awards / Best Papers/Appreciation)
    a. Awarded 2nd Prize in Essay Competition on the topic "Cleanliness in office Premises is more Important for Employee's Performance" at ICAR-NIRJAFT on 22nd September, 2018.
    b. Awarded Bronze medal in Javelin throw at ICAR-Zonal Sports Tournaments 2018 held at ICAR- IINRG, Ranchi from 4-8th October, 2018.
    c. Recieved appreciation technology certificate from Indian Council of Agricultural Research for developing a product on "**Manufacturing of high value products from Yak fibre**" as an associate developer.
    d. Received appreciation technology certificate from Indian Council of Agricultural Research for developing a technology "**Technology for the Processing Indian Nettle Fibre in Modified Jute Spinning System**" as an associate developer.
    e. Received appreciation technology certificate from Indian Council of Agricultural Research for developing a technology "**System for Extraction of Fibre from Flax Stalk**" as an associate developer.
    f. External Examiner for B.Sc Agriculture 6th Semester at School of Agriculture & Allied Science, The Neotia University, Sarisa, West Bengal.
    g. Awarded a certificate for runners up in Football game at ICAR-Eastern Zonal Sports meet at ICAR-IVRI, Izzatnagar, Bareilly.
12. List of publication (Both first and Co-author)
    a. Research papers in National journal (NAAS rated) : 01

b. Research papers in International journal (NAAS rated) : 04

c. Popular articles : 10

d. Book Chapter : 05

e. Books Edited : 01

f. Seminar Papers : 11

g. Bulletin : 02

13. Seminar presentation (Both first and Co-author)

a. Invited papers :02

b. Research papers : 07

14. Patents Applied (Numbers only) : 01 (As Co-PI)

15. Patents Granted (Details) : Nil

16. Technology Commercialised (as Co-developer) : 03

a) Licensing for technology transfer of "Manufacture of High Value Products from Yak Fibre" to Poly Industries.

b) Licensing for technology transfer of "Manufacture of High Value Products from Yak Fibre" to It's All Folk Pvt. Ltd.

c) Licensing for technology transfer of "Manufacture of High Value Products from Yak Fibre" to M/s Sonam Tsomu Enterprises.

17. List the five major achievements in the career

a. Obtained MHRD Fellowship for pursuing M.Tech through GATE qualification

b. Qualified ICAR-National Eligibility Test (NET)

c. Appointed as ICAR Scientist through ARS 2015 examination, conducted by ASRB, ICAR, New Delhi.

h. Recieved technology certificate from Indian Council of Agricultural Research & ICAR-NINFET for developing a product/technology on *Manufacturing of high value products from Yak fibre*, on *System for Extraction of Fibre from Flax Stalk* and a *Technology for the Processing Indian Nettle Fibre in Modified Jute Spinning System* as an associate developer.

i. Licensing of Technologies as co-developer i.e., *A system for Extraction of Fibre from Flax Stalk* to M/s Paul Engineering Works, Nadia, West Bengal and *Manufacture of High Value Products from Yak Fibre*" to M/s Sonam Tsomu Enterprises, Poly Industries and It's All Folk Pvt. Ltd.

j.

18. List the 10 best publications in the whole career (Details)

(a) Kambhampati V, Singh S, Ritesh W, Soberly M, Baby Z, **Baite H**, Mishra S, and Pradhan RC**. (2019).** A Review on Postharvest Management and Advances in the Minimal Processing of Fresh-Cut Fruits and Vegetables, *Journal of Microbiology, Biotechnology and Food Sciences, 8*(5): 1178-1187.

(b) Samanta, K.K., Roy, A.N., **Baite, H**., Debnath, S., Ammayappan, L., Nayak, L.K., Singha, A. and Kundu, T.K. (2021).Application of nettle fibre in Textile: A brief Review, *International Journal of Bioresource Science,* 08(01): 39-45.

(c) Nayak, L.K., Debnath, S., Shambhu, V.B., Swain, K.C., **Baite, H**. and Kundu, T.K. (2021). Extraction of Flax and Sisal Fibre through Improved Extractor and Their Chemical Characterization, *Journal of Indian Society Coastal Agriculture Research*, 39(1):102-109.

(d) **Baite, H.,** Samanta, A.K., Bhaumik, N.S., Mallick, P. and Samanta, K.K. (2019). Study on the Effect of Dyeing Process Variables on Soyabean treated Jute Fabric, *Indian Journal of Natural Fibre,* **5** (2): 23-29.

(e) **Baite, H.,** Nayak, L.K. and Ammayappan, L. (2019). Review on Mechanical Extraction of Banana Fibers, Indian Journal of Natural Fibers, 6(2):7-14.

(f) Bhowmick, M., Debnath, S., Singha, A., **Baite, H.,** Mridha, N. and Karmakar, S.(2019). Performance of Nonwoven Mulch Material from Jute at Farmer's Field, *Indian Journal of Natural Fibers*, 6(2):1-5.

(g) **Baite, H**., A.K.Samanta, N.S.Bhaumik, P. Mallick (2022). Optimization of dyeing process variables to improve dyeability of cotton fabric, *Indian Journal of Natural Fibres*, *8***(2):59-64.**

(h) Samanta, K.K., Roy, A.N., **Baite, H**., Debnath, S., Ammayappan, L., Nayak, L.K., Singha, A. and Kundu, T.K.(2023). Properties of Himalayan Nettle Fiber and Development of Nettle/Viscose Blended Apparel Textiles, *Journal of Natural Fibres, 20(1):2183924. https://doi.org/10.1080/15440478.2023.2183924.*

(i) Ammayappan,L, Roy, A.N., Samanta, K.K., Nayak, L.K., Debnath, S., Singha, A., **Baite, H**., and Bhowmick, S. (2023). Development of a composite product from fibre yielding crop residues, *Industrial Crops & Products 202(2023) 116986. https://doi.org/10.1016/j.indcrop.2023.116986.*

(j) Murmu, S. B., Nayak, L. K., Lakhmanan, A., **Baite, H.,** Nayak, D., & Huirem, B.(2024). Constraints on industrial-scale application of lignocellulosic fber and biomass in food packaging, *Iranian Polymer Journal*, 1-21. *https://doi.org/10.1007/s13726-024-01288-8.*

19. Training program attended 08
20. Training program organized 06

21. Professional Affiliations

    a. Life Member of Indian Society of Agricultural Engineers (LM-11781), New Delhi, India

    b. Life Member of The Indian Natural Fibre Society (TINFS/LM-319/0118), Kolkata, West Bengal.

    c. Life Member Agricultural Research Service Scientific Forum (ARSSF No. 4258), New Delhi