

**Publications of KVK Khowai during 2022- 23 to 2024- 25**

Sl. No	Author name	Topic	Year	NAAS Rating	Journalname, volume & page no.
1	Dey, D.; Kundu, M.C. & Sen, D.	Productivity of groundnut as influenced by integrated use of lime, organics, in organic fertilizers & biofertilizers in acidic soils of Tripura	2022	5.07	International Journal of Plant & Soil Science. 34(2): 1-5
2	Sachan, M.S.; Dey, D.; Michui, P.; Sachan, S.K.	Allelopathic effects of <i>Schima khasiana</i> & <i>Michelia Champaca</i> on germination & growth of some legume & cereal crops of NEH region	2022	5.07	Intn. J. of Plant & Soil Sci. 34(24): 179- 186; 2022.
3	Biswas SC; Bora A; Mudoi P; Misra TK and Das S	Evaluation of nutritional value, antioxidant activity, and phenolic content of <i>Protium serratum</i> Engl and <i>Artocarpus chama</i> Buch.- Ham, Wild edible fruits available in Tripura, a North- Eastern state of India	2022	6.80	Current Nutrition and Food Science, 2022, 18, 589- 596.
4	Biswas SC; Kumar P; Kumar R; Das S; Mishra TK; Dey D	Nutritional Composition and antioxidant properties of the wild edible fruits of Tripura, Northeast India	2022	9.80	Sustainability. Volume 14, Page 12194.
5	Sachan, M.S.; Michui, P.; Mezhatu, R.	Allelopathic effects of some fruit plant species with weeds	2022	5.16	Intn. J. of Environment & Climate Change. 12(12): 856- 859.
6	Saha B; Saha N; Mukherjee S; Basak JS; Datta S; Dey D; Dey P	Selection of an extraction method for estimating potentially available phosphorus under organic production system of new alluvial zone of the lower Gangatic Plan of India	2023	9.61	Jr. of Soil Science & Plant Nutrition. 10.10 07/s42729-023- 01193- 8
7	Sachan MS, Chakraborty A, Dey D, Shil S, Das R, Biswas SC	Yield Gap Analysis of Field Pea ( <i>Pisum sativum</i> L.) through Cluster Frontline Demonstration under NFSM Pulses Scheme in Khowai District, Tripura, India	2023	5.16	International Journal of Environment and Climate Change, 13(11): 4733- 4740.
8	Sachan MS, Dey D, Chakraborty A, Shil S, Das R, Islam N, Biswas SC, Reang P	Yield Gap Analysis and Impact Assessment of Rapeseed- Mustard through Cluster Frontline Demonstration in Khowai District of Tripura, India	2023	5.07	International Journal of Plant & Soil Science, 35(24): 235- 243.
9	D Dey, MC Kundu, D Sen, MS Sachan	Conjoint Application of Lime, Organic, Inorganic Fertilizers and Bio-Fertilizers Increase Groundnut	2024	5.07	International Journal of Plant & Soil Science, 36(4): 110-

		Productivity, Available and Microbial Biomass Phosphorus in Acidic Soils of Tripura, India			117.
10	Biswas SC; Dutta P; Barua P; Misra TK; Das S	Ethnobotanical study of underutilized wild edible fruits and their antibacterial activity against human pathogens	2022	6.80	Jr. of Pure Applied Microbiology, 15(4): 1976- 1986
11	Das R; Dey D; SachanMS; Mohanty AK; ChakrabortyA; ShilS; SinghaAK	Impact of Soil Health Cards on SoilFertility, Crop Yields, Forecasting andAdoption Challenges in Khowai District of Tripura, India	2025	5.14	Journal of Experimental Agriculture International 47(6), 576-588.

#### Citation of 20 most important publications

Sl. No	Type of publication	Author name	Topic	Year	Citation/ Journal/ publisher name, publication/ volume & page number
1	Book	Sachan, M.S. and Dey, D.	Adaption of resilient technologies to mitigate climate change in farming practices under Khowai district of Tripura	2022	ISBN 978-93-94375-19-2 Scripown Publications
2	Book chapter	S. Shil, P. Adhikari & M.S. Sachan	Overview of Mulching in Agriculture	2022	Mulching for increasing productivity and profitability. Published by Scripown Publications- Delhi. Editor- D. Borah, pp- 89- 104. (ISBN 978-93-94375-02-4)
3	Book chapter	Ardhendu Chakraborty and J. Alice R. P. Sujeetha	Ecofriendly Novel Tactics for Managing Stored Grain Pests	2022	ISBN 978-81-947739-5-5 BIOTICA Publications
4	E- Book	KVK Khowai	Documentation and validation of 109 DFI Success Story	2022	DFI: ICAR Salutes Success of 75000 Farmer (Contributors- Experts of 731 KVKs), E Book Design & Produced by ICAR- Directorate of Knowledge Management in Agriculture, New Delhi
5	Article	Shil, S, Adhikary, P and Mondal, J.	Health benefit of Lutein	2022	Frontiers in Crop Improvement, 10(6): 2930-2934.
6	Review article	Subhra, S.; Adhikari, P. and Sachan, M.S.	Seaweed Extract Application in Indian Agriculture: A Review	2023	Frontiers in Crop Improvement, 11(1): 521-525.
7	Training Manual	Sachan, MS and Dey, D.	Certificate course on Integrated Nutrient Management for	2023	KVK- Khowai/2023/01

			fertilizers dealers		
8	Training Manual	Islam, N. Sachan, MS, Reang, P. and Rudra Paul, P.	Pig Rearing and Management	2023	DKVK/Pub.-TM/ 228/2023
9	Training Manual	Dey, D, Sachan, MS, Reang, P.; Rudra Paul, P.	Vermicomposting	2023	DKVK/Pub.-TM/ 229/2023
10	Leaflet	Dey, D.; Sachan, M.S. and Chakraborty, A.	Package and practices for cultivation of Black Gram var. Tripura Mush Kolai- 1	2023	S.S. & Head, KVK Khowai (Divyodaya); DKV/ Pub-EB/231/2023.
11	Leaflet	D Dey; MS Sachan; SC Biswas; P Reang	A Climate Resilient Super Crop	2023	DKVK/Pub-EB/232/2023- 24
12	Leaflet	Chakraborty& M.S. Sachan	Revolutionizing Indian Agriculture: The Role of Kisan Drone	2024	DKVK/Pub/233/2024
13	Training Manual	Chakraborty, A.; Sachan, MS, Reang, P.	Production of Bio-Pesticides	2024	DKVK/2024/239; ISBN: 978-81- 980121- 0- 4
14	Training manual	Islam N; Sachan MS; Reang P; Rudra Paul P	Training manual for Integrated Dairy Management	2024	SS- cum Head, KVK Khowai. DKVK/ Pub-TM/ 236/ 2024 pp.42
15	Training manual	Islam N; Sachan MS; Reang P; Rudra Paul P	Training manual for Goat Rearing and Management	2024	SS- cum Head, KVK Khowai. DKVK/ Pub-TM/ 237/ 2024 pp.20
16	Popular article	Chapke, RP; SatyaHyndavi, AV; Priya Raj AN; Sonowal S; Dey D	Bioplastics: The future of eco- friendly packaging materials	2024	New Era Agriculture Magazine, 3(5) October, 2024
17	Case Studies	Michui P; Mezhatu R; Sachan MS	Feeding practices in deshi bird and available feed resources	2024	International Journal of Agriculture Sciences, 16(1), 12923- 12925.
18	Training manual	Biswas SC; Dey D; Sachan MS; Mohanty AK; Singha AK	Training manual on Fruit Processing and Value Addition	2025	SS- cum Head, KVK Khowai. DKVK/ Pub-TM/ 238/ 2025 pp.25
19	Training manual	Chakraborty A and Sachan MS	Training manual on Beekeeping- Unlocking Entrepreneurial Opportunities	2025	KVK Khowai. DKVK/ Pub-TM/ 239/ 2025 pp.55
20	Book Chapter	Chakraborty A; Sachan MS & Dutta P.	Host plant resistance in Crop Protection: An Integrated Approach	2025	IPM for Key Crops. Sehgal <i>et al</i> (eds.), Biotica Publications, India. Pp. 126- 143.