

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_125246
Title of the Manuscript:	Influence of Natural Dyes on the qualitative and quantitative parameters of Bivoltine Silkworm Breeds under Sub-tropical Conditions of Poonch District, Jammu and Kashmir
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (<i>Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i>)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>Comments:</p> <p>I have briefly reviewed the research article. The research paper captioned Influence of Natural Dyes on the Qualitative and Quantitative Parameters of Bivoltine Silkworm Breeds under Sub-tropical Conditions of Poonch District, Jammu and Kashmir, is a well-written manuscript. A few minor changes may make it better. We find that the manuscript is based on impressive empirical evidence and makes an original contribution. References are taken from 56 sources, which indicates the researchers have consulted significantly about the subject they opted to study.</p> <p>He followed an experimental design that involved standard sericulture practices, both natural and modified diets. The modified diets were chosen with the intention of finding practically applicable ways to promote Silk colours that are based on natural dyes. The subject is an important domain of research that is becoming more and more relevant when the global community has been trying to pursue sustainable development, living in the realm of nature.</p> <p>I would love to advise the researcher to gather information on this subject from the Assam/North East Region, India case. For more information, I quote some of my research work on a similar subject below.</p> <p>Assam has the monopoly in the world with respect to Muga, the Golden Silk, production, as more than 97 per cent of it is produced in Assam. The state has also achieved the right to use the Geographical Indicator for the Muga thread. The state produces about 56 per cent of Eri Silk in the country. This woolly Vegan silk also known as Ahimsa (Peace) silk, is processed without harming the silkworm. The staple fibre, coarse, fine and dense in texture, makes it durable and strong. It has thermal properties, which are warm in winter and cool in summer. It is organic, natural and eco-friendly. This silk is found mainly in North East India and some parts of Japan, China and Thailand. The name derives from the Assamese word "Era", which means "castor", as silkworms feed on castor plants.</p> <p>Assam is blessed with rich fauna and flora for producing all three silk varieties: Eri, Mulberry, and Muga. It is said that the Bodo indigenous people, a tribe in Assam, introduced the art of Eri silkworm rearing, spinning, and weaving. Eri sericulture is a land-based labour-intensive activity with the potential for generating productive employment on a large scale, especially for tribal women. The total area under Silkworm Food Plants increased to 33790 hectares in 2013-14 from 26826.5 hectares during 2012-13. The production of Silk in the state was 2700 MT, and Eri raw Silk was 2545.6 MT during 2013-14. As per a report, the State Department of Handloom and Textiles covers 13576 villages (total villages 26395) under its 209 Handloom Demonstration Circles with 1316163 weavers for its Handloom activities. The 98 Weavers Extension units and 20 Production Centres produced 65.3 thousand metres of Handloom fabrics during 2013-14 (Economic Survey of Assam 2014-15).</p> <p>The Muga culture, though, has been thought to have migrated along with the Tai Ahoms in 1228 AD from the "Punj Kong" village of Northern Burma belonging to the Shan state of Mungur from where the name Muga has been derived (Phukan, 1998). Still, nothing is known of the status of Muga culture there today. Muga culture was patronised in Assam by the Tai Dynasty (Ahom). The Muga culture is as old as 700 years and, over the years, has become an indigenous practice in Assam and NER. Muga silk is the costliest silk variety, with unique characteristics such as a natural golden yellow colour that is resistant to acid, has a durability of more than 50 years, and has high UV ray absorption and strength.</p> <p>In my previous job at KVIC, Government of India, we took a project in collaboration with NIFT, Shillong, and the project called "Centre of Excellence for Khadi (hand-spun hand-woven textile). We encourage the scholars to find ways to reduce the drudgery and increase the production capacity in the natural dyeing of the artisans. Can we design/innovate a dyeing machine that can be efficiently introduced? The machine enhances work efficiency and quality of dyeing.</p> <p>(I am perhaps writing the above two paragraphs not as the reviewer's comment but to share some information).</p> <p>I thoroughly enjoyed reviewing this manuscript. Some minor corrections may be needed in the sentence formation to be more effective. The researcher may also check "writing a citation".</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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