

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_103815
Title of the Manuscript:	Screening of Resistance Gene Analogue Marker(S) in Indian Bean [Lablab purpureus (L.) Sweet] against Yellow Mosaic Disease
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p>	<ul style="list-style-type: none"> • The beans are certainly high in minerals including calcium, phosphorus, and iron as well as carbs, proteins, fats, and fiber. • <i>Lablab purpureus</i> (L.) Sweet, is a plant belonging to the <i>Fabaceae</i> subfamily Leguminosae with a variable number of chromosomes was carried to Africa from Southeast Asia where it had its beginning. • Legumes are tremendously suitable for amending soil fertility, preventing soil erosion, and resolving nutritional imbalances in animals. • More than 10 distinct diseases are caused by many pathogens such as viruses, nematodes, bacteria, and fungi that affect and infect the Indian bean crop. <ul style="list-style-type: none"> ○ Yes, the title of the manuscript is suitable/ appropriate enough. ○ Yes, the abstract written is comprehensive. • Yes, they are appropriate enough illustrating the general sub-sections viz., Abstract, Introduction, Materials and Methods, Results and Discussion and Conclusion as well. • The YMV specific coat protein (CP) primers designed using different coat protein sequences [GQ387509.1, DQ389148.1 (MYMIV), DQ389146.1 (MYMV), GU591170.1, KT282129.1 (DYMV)] and for the amplification of the coat protein gene of YMV, the Primer3 tool (https://bioinfo.ut.ee/primer3-0.4.0/) has been tersely executed. • The figures shown are exemplary and admirable. The data has been concisely documented in the tabular forms in a persuasive manner.. • It has been chronicled that yellow mosaic disease, has been linked to ruining many types of legumes across the country, thus impeding the production of majority of essential legume crops in the Indian subcontinent. • Moreover, the vilest effects of YMD has been reported in crops viz., urdbean, mungbean, pigeon pea, horse gram, French bean, cowpea, moth bean, and soybean. • Despite the grave damage that YMD causes, conventional breeding has been incapable to produce a cultivar that is YMD resistant that is feasible. • Thus, based on genetic analysis, the study has elucidated that RGAs are frequently connected to well-known disease resistance loci, where they typically exist in clusters. • Ultimately, applications for these RGA markers include linkage mapping, QTL mapping, cloning of plant resistance genes, and resistance breeding in genomics and bioinformatics. 	

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<p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ul style="list-style-type: none"> The references cited are adequate and recent enough. 	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<ul style="list-style-type: none"> Introduction, 1st line: <i>Lablab purpureus</i> (L.) Sweet-Italicize the scientific name, as per binomial nomenclature. Pg. no.2, 7th line: and <i>fungi</i>- fix the agreement mistake. Pg. no.2, 3rd paragraph, 10th line: to genetic analysis-remove the article "a". In sub-heading 2.2, maintain uniformity in font style and font size. The usage of the English language is appropriate and well suitable for scholarly communications. 	
<p>Optional/General comments</p>	<ul style="list-style-type: none"> Overall, the manuscript has been laconically inscribed, remarkable, amazing and excellently presented. The figures are richly elegant and notable. The data has been documented concisely in the form of various fine Tabular forms. 	

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

<p>Name:</p>	<p>Asma Jabeen</p>
<p>Department, University & Country</p>	<p>Indian Institute of Rice Research, Osmania University, India</p>