



DBT Inviting Letter of Intent (LoI) for Research & Innovation on "Genome Editing of Crops for Enhanced Attributes"

INSTRUCTIONS TO FOLLOW

@ Each applicant (investigator) can submit only one (1) Letter of Intent (LoI) in this round of competition

@ It is vital that applicant thoroughly understand the CALL TEXT and requirements of participation & funding, and furnish information/data, accordingly

@ We are looking for solutions(s) on an “EASIER” concept model, i.e. a solution must

- *be developed through Engagement with stakeholders;*
- *be Accessible;*
- *be Scalable & replicable;*
- *be Inclusive;*
- *be Economically viable & impactful; and*
- *be Resilient & environment friendly*

@ At this stage, your goal should be to understand a challenges before you. Ask yourself: What is the strategic solution? What you want to achieve through this LoI? What ambition you are looking for? What are the overall goals for the proposal and the chosen area? How your proposal can facilitate the Nation to become one of the global leaders? Your ability to take scientific risks? With whom you want to partner?

@ Before attempting to fill this *proforma*, prudently understand all the requirements and footnotes of this form

@ All fields are mandatory; therefore, all sections of this *proforma* must be completed

@ Each field demands distinct attention and diligent answer; therefore, avoid mere replication of same information at multiple fields

@ You are requested to offer pertinent and precise responses, which facilitate us in pragmatic evaluation

@ We are expecting submission of only such information which is available in open-access and/or in public domain and/or in the published literature. Therefore, refrain from depicting/submitting any confidential or confidential business information (CBI) in this stage of submission.



@ Strictly avoid revealing your identity by any means elsewhere in this online form, except fields where these are explicitly requested.

@ Kindly be considerate that all requirements are being asked with the limit of 'CHARACTERS' rather than 'words' count

@ You may like to accomplish submission of this *proforma* in one go by COPYING-PASTING responses (from prefilled word document), Review and then Submit

@ Lols submission **OPENS on 21.02.2023 (10:00 hrs IST)** and **CLOSES on 27.02.2023 (15:00 hrs IST)**

@ Please be attentive that Lol with erroneous submission and/or misrepresentation and/or submission with distorted facts will tend to get rejected without seeking justification. No follow-up in this regard will be entertained

|| PLEASE DO NOT WAIT FOR SUBMISSION TILL THE LAST DATE; AVOID LAST MINUTE NETWORK CONGESTION ||

1. Your Name*

(NMT 40 Characters) [Provide your First and Last Name only]

Your answer

2. Full name of institution/organization you officially work for; with Name of the State/UT it belongs*

(NMT 100 Characters)

Your answer

3. Reiterate your working email through which we can contact you*

Your answer

4. What is your current designation within the institution/organization you work in? *

(NMT 50 Characters)



Your answer

11/11/2019

5. Are you a REGULAR employee of this institution/organization? *

[Please consider this as one of the important eligibility criteria]

YES	NO

6. Your Date of Superannuation*

[Please use the virtual calendar to provide this information instead of filling it manually]

Date

7. Whether this CONCEPT (or a very similar one) of yours been submitted in past two (2) years to any of the National or International funding agency? *

YES	NO

8. If Answer to the question 7 (mentioned above) is YES, please let us know the outcome of that submission? *

Your answer

11/11/2019

9. How many extramural research projects are currently being carried-out by you as the PRINCIPAL INVESTIGATOR/ CO-PRINCIPAL INVESTIGATOR? *

[Applicant must also count proposals that are at very advance stage of recommendation by the funder(s)]

0	1	2	3	4	5	6	7	8

10. How many of these extramural research projects (as opted in Para 9 above) are driven through formal International Cooperation? *

0	1	2	3	4	5	6	7	8



11. How many of these extramural research projects (as opted in Para 9 above) are of multi-institutional (wherein ≥ 3 independent legal entities are partnering) network in nature? *

0	1	2	3	4	5	6	7	8

12. Lol's Unique Acronym*

(NMT 20 Characters) (Use alpha-numeric and special characters to ensure its uniqueness)

Your answer

13. Select the priority research & innovation (R&I) action you are applying for*

[Please be sure of interventions likely to be made for this proposal. You are requested to opt the priority wisely, as this selection will drive your application's assessment till the end. Each applicant (Investigator) can opt for only one priority in a particular submission.]

> Priority-1: Product development through demonstrated leads available within the country, and are at the advanced stage(s) of development

> Priority-2: Deploying trait specific candidate gene(s) having well established proof-of-concept, into elite commercial cultivar(s)/variety(ies)

> Priority-3: Establishing proof-of-concept for novel candidate gene(s) for trait improvement, over and above the cultivar(s)/variety(ies) currently in use

> Priority-4: Developing novel indigenous tools (vectors, nucleases, etc.), methods, regeneration protocols for recalcitrant crops

> Priority-5: Capacity building through familiarization of R&D tools for Genome Editing

14. Why have you opted for the stated priority? How do you relate with this? Suggest your out-of-the-box thought*

(NMT 1000 Characters)

Your answer



15. Summarize the CONCEPT behind this application in absolute "Laymen" term*

(NMT 1000 Characters) [Explain the challenge and proposed solution through this R&I action in a simple term in a way that could be understood & publicized to a GENERAL AUDIENCE. Please explain the potential impact or wider benefits of your research to the Society. This should also be reflective of crops(s) you are proposing to work]

Your answer

16. Briefly describe your proposed R&I concept*

(NMT 3000 characters) [This requirement should include the most important features (including national & international competitive landscape, deepen knowledge/catalyze development of leading edge technologies/solutions, unmet need being addressed, potential for implementation and scale-up, etc.) of your research plan and place your concept in a broader and ambitious scientific context. Highlight why your approach is novel and deserves special attention]

Your answer

17. Briefly describe work done by YOU in the most relevant research field*

(NMT 1500 characters) While offering clarity on this question, you may also like to briefly highlight possible investigations and/or experiments you plan to carry out/are necessary to attain the stated aims

Your answer



18. Tell us the CURRENT STAGE of your proposed R&I intervention/ solution/ technology on a scale of Readiness Level (RL)*

[You are requested to refer Call Announcement document to get clarity about our understanding of Readiness Levels (RL-0 to RL-9). We are looking for your realistic assessment considering the “EASIER” concept model, as explained in 'Instructions to Follow' mentioned above]

RL-0	1	2	3	4	5	6	7	8	RL-9

19. Provide adequate reasoning to the assessment made above on current state of readiness level of your intervention/ solution/ technology*

(NMT 750 Characters) [You are requested to refer Call Announcement document to get clarity about our understanding of Readiness Levels. We are looking for your realistic assessment considering the “EASIER” concept model]

Your answer

20. Tell us at what STAGE YOUR R&I intervention/ solution/ technology WOULD BE, on completion of proposed R&I action under consideration on a scale of Readiness Level (RL)? *

[You are requested to refer Call Announcement document to get clarity about our understanding of Readiness Levels (RL-0 to RL-9). We are looking for your realistic assessment considering the “EASIER” concept model]

RL-0	1	2	3	4	5	6	7	8	RL-9

21. Provide adequate reasoning to the assessment made above on stage of your intervention/ solution/ technology WOULD BE on a scale of readiness level on completion*



(NMT 750 Characters) [You are requested to refer Call Announcement document to get clarity about our understanding of Readiness Levels. We are looking for your realistic assessment considering the “EASIER” concept model.]

Your answer

22. Briefly describe your COMPETENCE and INTERPERSONAL SKILLS*

(NMT 800 characters) [Each quality criteria must start with a separate heading, separated by pressing an 'ENTER' sign.]

Your answer

23. Provide [UP TO FIVE (5)] valid Digital Object identifier (DOI) of your most relevant publications (concerning the chosen priority) in last three (3) years*

[(NMT 300 Characters), We are looking for publications in the form of Research Article(s) published by you. Avoid offering DOI of Review Article. Each DOI to be ended with “;” (semicolon sign), and shall be separated by pressing an 'ENTER' sign.]

Your answer

24. What R&I outcome/impact do you envisage through this Lol? *

(NMT 1000 characters) [We are looking for direct: indirect, and tangible: intangible outcomes at the end of successful completion of the proposed R&I action. Indicate, how the outcome evaluation is inherent to R&I action? How will you know you've achieved these outcomes?]

Your answer



25. Communicate your Lol through Infographics/SmartArt*

(NMT 50 characters) [Communicate this concept in the form of self-explanatory infographics to plant-biotech@dbt.nic.in as a single PDF file. Refer Call Announcement document to get clarity about the format of this infographics. PASTE only the PDF FILE NAME of this infographics in the short answer text placed below

Please note that we would be circulating this infographic (Strictly NMT two PPT slides, converted to a PDF file) among the group of investigators whose Lols secured clear recommendation and, advanced to Stage-2.

It is obvious that this infographic will become the first channel of your communication with possible future consortium partners (collaborators), therefore you are requested to make an all-out effort to illustrate yours, and Lol's saliency for them.]

Your answer

26. Kindly let us know the bare minimum budgetary requirement to passionately accomplish this ambitious goal within the chosen priority in-time? *

(NMT 7 characters) [INR in Lakhs. Provide your answer in numeric only. Avoid using alphabets]

Your answer

27. Any other information you would like us to know, which may facilitate evaluation of your submission to a greater extent*

(NMT 500 characters)

Your answer

UNDERTAKING: Submission of this Lol shall imply that **a)** information furnished through this Lol is true and correct; **b)** all pre-requisite eligibility conditions and availability of



जैव प्रौद्योगिकी विभाग
Department of Biotechnology
Ministry of Science & Technology
Government of India



*corresponding documentary proofs (as stipulated in Call Announcement) **have been ascertained**; c) the applicant has appropriate prior permission of the competent authorities for this submission; and d) that to the best of his/her knowledge the concept has not been submitted to any other funding agency and it does not duplicate the work of any project (ongoing or completed), funded either by DBT or any other organization. I take full responsibility of the same. If any, content/ information submitted herein is found to be incomplete and/or distorted and/or erroneous, funding agency is free to reject this submission. **

[Kindly note that without your agreement to the above undertaking, the submission of this Lol shall remain unaccomplished]
