

**Annexure -I**

**Proforma for submission of proposals for release of crop varieties/Hybrids**

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| 1.  | <b>Name of the crop and species.</b>  |  |
| 2.  | (a) Name of the variety under which tested in AICRIP trials.  |  |
|     | (b) Proposed name of the variety.   |  |
| 3.  | <b>Sponsored by (Institute)</b>   |  |
| 4.  | (a) Institution or Agency responsible for developing variety (with full address).                                     |  |
|     | (b) <b>Name of the person who helped in the development of the variety:</b>   |  |
|     | Developers:   |  |
|     | Collaborators:  |  |
| (5) | (a) Parentage (with details of its pedigree including source from which variety/hybrid has been development.          |  |
|     | (b) Source of material in case of introduction  |  |
|     | (c) DNA Profile of the variety/ vis-à-vis check variety line.   |  |
|     | (d) Breeding methods used.  |  |
|     | (e) Breeding objective.   |  |
| (6) | State the varieties which are most closely resemble the proposed variety in general characters.                       |  |
| (7) | Recommended productions ecology (Rainfed/Irrigated; high / low fertility; season).                                    |  |
| (8) | Specific area of its adaptation (zones and states for which variety is proposed) and recommended productions ecology. |  |
| (9) | <b>Description of hybrid/variety</b>  |  |

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|      | (a) Plant height  |  |
|      | (b) Distinguishing morphological characters.  |  |
|      | (c) Maturity (range in number of days) from seedling/ transplanting to flowering, seed to seed)   |  |
|      | (d) Maturity group (early, medium and late wherever such classification exists).  |  |
|      | (e) Reaction to major diseases under field and controlled conditions reaction to physiological strains/races/pathotypes/bio-types to be indicated wherever possible). |  |
|      | (f) Reaction to major pests (under field and controlled condition including store pests).   |  |
|      | (g) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed rate etc.)              |  |
|      | <b>(h) Quality of produce</b>   |  |
|      | Grain quality   |  |
|      | Fodder quality  |  |
|      | (i) Reaction to stresses  |  |
| (10) | <b>Description of the parents of the hybrid</b>   |  |
|      | (a) Plant height (cm)   |  |
|      | (b) Distinguishing morphological characters   |  |
|      | (c) Days to flowering   |  |
|      | (d) Days to maturity (range in number of days-from seed to seed)  |  |
|      | (e) Is there any problem of synchronization? If yes, method to overcome it.   |  |

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|      | (f) Reaction to major diseases (under field and controlled conditions, reaction to physiological strains/ races/ bio-types/ pathotypes to be indicated wherever possible   |  |
|      | (g) Reaction to major pests (under field and controlled conditions including store pests).   |  |
|      | (h) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed conditions, seed rate etc.)  |  |
|      | (i) Reaction to stresses.  |  |
| (11) | (a) Yield data in coordinated trials (breeding, agronomy, pathology, entomology, quality etc) regional/inter regional district year wise (level or fertilizer application, density of plant population and superiority over local control/ standard variety to be indicated. |  |
|      | (b) Yield data from national, demonstration/large scale demonstrations.  |  |
| (12) | (a) Agency responsible for maintaining breeder seed.   |  |
|      | (b) Quantity of breeder seed in stock (kg)   |  |
|      | Variety  |  |
|      | A line   |  |
|      | B Line   |  |
|      | R line   |  |
|      | Hybrid   |  |
| (13) | Specific recommendations, if any for seed production 9e.g. staggered sowing, planting  |  |

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|      | ration of parental lines of hybrids in foundation and certified seed production, probable area of seed production).          |  |
| (14) | Vivid presentation (field view, close-up of single plant and seed/economic parts).   |  |
| (15) | (a) Whether recommended by any workshop, seminar, conference, state seed committee etc.                                      |  |
|      | (b) If so, its recommendations with specific justifications for the release of proposed variety.                             |  |
| (16) | Specific area of its adaptation  |  |
| (17) | Acknowledgement of submission of seed sample of variety/hybrid/inbred/ A, B and R lines of hybrid from NBPGR and IC numbers. |  |
| (18) | Package of Practices along with attainable yield levels.   |  |
| (19) | Information on acceptability of the variety by farmers/consumers/industries.   |  |
| (20) | Any other pertinent information.   |  |

**Checklist for submission of proposals for release of crop-variety to Central Sub-Committee on Crop Standards Notification and Release of Varieties.**

**Details/document**

1. Parentage with details of its pedigree including source from which variety/Inbred/ A, B and R line of hybrids has been developed.
2. Source of material in case of introduction (IC/EC number provided by NBPGR).
3. Flow chart of details of development of variety/parental lines of hybrids.
4. Molecular/DNA profile of variety/hybrid/A,B, R line hybrid visa-a-vis check variety/line (detail of unique amplicons that distinguishing markers along with photographs).
5. Detailed description of hybrid/variety.
6. Detailed description of the parental line of hybrid.
7. Yield data and other data on disease, insect-pest, quality etc. from coordinated trials.
8. Yield data from national, demonstration/large scale demonstrations.
9. Special recommendations, if any, for seed production.
10. Vivid presentations (Field view, close-up of single plant and seed) with the help of photographs of the variety.
11. Recommendation of workshop/ conference/ SVRC/ identification committee.
12. Acknowledgement of submission of in vitro cultures of variety submitted to NBPGR.
13. Package of practices.
14. Package signed by all co-authors and Head of Organization.
15. Any other pertinent information.