TAMILNADU AGRICULTURAL UNIVERSITY

Dr.M.Maheswaran, Ph.D., Coimbatore - 3.
Director of Research (i/c)

No. DR/P7/Release proposal for 2016/2015 dt. 13.8.2015

To
All Deans / Directors
All Heads of Departments
All Heads of Research Stations

Sir,

Sub: Release proposal for 2016 – Variety /Hybrids / Agrl. Implements / Management technology proposals – requesting – regarding.

Kindly send 12 copies of the release proposal of the technology identified during Crop Scientists Meet in the prescribed proforma enclosed **on or before 4.9.2015.** The proposal should contain detailed data (seasonwise / OFT /ART / MLT / station trials etc., pest and disease reactions besides other special traits) as per the enclosed proforma. Moreover, the entries finalized for release in the respective Crop Scientists Meet may be raised in the respective research stations in a sizable area along with the prevailing national check and the latest release(s) of the station by Kharif / Rabi 2015. Director of Research; Director, TRRI; Director, CPBG and Dean, HC&RI, Coimbatore can be invited for witnessing the potential of the cultures proposed for release. As indicated earlier, non official members of the State Variety Release Committee and Dept. of officials may also be called to the respective stations for witnessing ongoing trials, if any.

The entry being proposed for release must have a yield advantage over the private variety / hybrid of same duration group, not just the local check. Moreover, the agricultural implements should have been evaluated for its efficiency in co-ordination with Agrl. Engineering Department officials. Similarly, the management technologies proposed for release must have been evaluated in a minimum of 20 locations each including the station / farmers location in a sizeable area (atleast in 25-30 cents if it is a field management technology; repeated confirmation of laboratory results across various laboratories if it is a lab generated technology and accordingly for other technologies).

Please ensure that the technology to be proposed for release must have

1. A clear cutting edge over the existing technology of the private company and
2. Sent through the concerned Technical Directors (CPBG / CM / CPPS), Deans (for Horticulture, Forestry, Agrl. Engineering & Home Science) with their endorsement that the proposed technology has been recommended by the concerned scientists meet.

The technology as a wholesome package (including the inputs from the supporting department) alone will be considered if it satisfies the above mentioned criteria.

Encl : Proforma

DIRECTOR OF RESEARCH i/c

CC: TPO to the Vice-Chancellor, TNAU, Coimbatore-3

PROFORMA FOR SUBMISSION OF PROPOSAL FOR RELEASE OF CROP VARIETY / HYBRID

1. Name of the Crop and Species :
2. a. Name of the culture under which it was tested :
   b. Proposed name of the variety :
3. Sponsored by :
4. a. Institution or agency responsible for developing variety (with address) :
   b. Name of persons who helped in the development of variety (in chronological order) :
5. a. Parentage with details of its pedigree :
   b. Source of material in case of introduction :
   c. Breeding method :
   d. Breeding objective :
6. State the varieties which most closely resemble the proposed variety in general characteristics :
7. a. Whether recommended by Seminar / Conference / Workshop / State Seed sub-committee :
   b. If so, its recommendations with specific justification for the release of proposed variety :
   c. Specific areas of its adoption :
8. Recommended ecology :
9. Description of variety / hybrid :
   a. Plant height :
   b. Distinguishing morphological characters (as in Crop Production Guide) :
   c. Maturity (range in number of days) Seeding / Transplanting to flowering, Seed to seed :
   d. Maturity group (early, medium and late- Wherever such classification exists) :
   e. Reaction to major disease under field and controlled conditions (reaction to physiological strains / races/bio-types to be indicated wherever possible) :
   f. Reactions to major pests (under field and controlled conditions including store pests) :
   g. Agronomic features (e.g) resistance to lodging, shattering; fertilizer responsiveness; suitability for early or late sown conditions, seed rate etc. :
   h. Quality of produce of grain, forage/fibre including nutritive value, where ever relevant :
   i. Reaction to stresses :

10.	Description of parents of the hybrid	:	**Female**	**male**
	a. Plant height	:		
	b. Distinguishing morphological characters (as in Crop Production Guide)	:		
	c. Days to 50% flowering	:		
	d. Maturity (range in number of days from seed to seed)	:		
	e. Is there any problem of synchronization? If yes, methods to overcome it	:		
	f. Reaction to major pests under field and controlled conditions (reaction to physiological strains/races bio-types to be indicated wherever possible)	:		
	g. Reactions to major pests (under field and controlled conditions including store-pests)	:		
	h. Agronomic features (e.g) resistance to lodging and shattering; fertilizer responsiveness; seed rate etc.	:		
	i. Reaction to stresses	:		
11.	a. Yield data in regional/inter regional/ district trials year wise (levels of fertilizer applications, density of plant population and superiority over local control/standard variety to be indicated)	:		
	b. Yield data from national demonstration/ large scale demonstration	:		
	c. Average yield under normal conditions (Yield in kgs/ha)	:		
	d. Fullest yielding potential of the culture under optimum INM, IPM conditions	:		
12.	a. Agency responsible for maintaining breeder seed	:		
	b. Quantity of breeder seed in stock (in kgs)	:		
13.	Information on the acceptability of the variety by farmers / consumers / industry	:		
14.	Specific recommendations, if any for seed production	:		
15.	Cost of cultivation for the proposed entry & BC ratio	:		
16.	Vivid presentation with the help of photographs of the variety to be submitted by the breeder	:		
17.	Any other pertinent information	:		

Signature of proposing Breeder // Signature of Head of Institution

I. GUIDELINES FOR SENDING VARIETY RELASE PROPOSALS

1.	Variety Release Proposal in the enclosed format	: 12 copies
2.	Sharp photographs indicating the salient features of variety (A4 size)	: 2 Nos. (colour)
3.	Conduct of sufficient ART's as per norms	:
4.	If already presented in the University Variety Technology Release Screening Committee, the Remarks made on the earlier proposal and when it was sent earlier	:
5.	Name of the scientist along with place of work to be invited for presentation	:
6.	Reaction to pests and diseases (latest data) to be enclosed with the proposals	:
7.	List of scientists contributed for the release of the variety / hybrid	:
8.	Research project(s) that had resulted in the identification of this entry, its duration	:

9. One page note both in English and Tamil should be enclosed
10. Morphological characters of the culture should be described fully
11. Rainfed and irrigated yield data should be furnished for station trials, MLT and ART separately
12. Pest and disease score should be included for all proposal
13. Quality parameters like amylose content, protein content, gelatinisation temperature and other cooking quality trails for rice, oil fractionation studies, oil content for oilseeds and similar pertinent studies for other crops etc. should be furnished
14. All the scientists contributed in the release of the technology should be included in the proposals.
15. For location specific varieties, conduct of atleast a minimum of 40 trials and for the whole Tamil Nadu, more than 100 trials representing each district where it is to be popularised must have been accomplished.

PROFORMA FOR SUBMISSION OF RELEASE PROPOSAL OF MANAGEMENT TECHNOLOGY

1. Title of the Technology :
2. Directorate responsible for developing the technology :
3. Dept. / Res. Station responsible for developing the technology :
4. Scientist(s) responsible for developing the technology (in chronological order) :
5. Background / Justification :
6. Is it an improvement of the existing technology or a new technology? :

   If an improvement, a brief outline of the existing one indicating the deficiency in it :
7. University research project from which the technology has been generated
   a. Date of start of the project
   b. Project No.
   c. Date of Closure
8. a. Whether the technology was recommended by Seminar /Conf./Workshop/Crop Scientist Meet etc. :
   b. If so, its recommendations with specific justification for the release of the technology :
9. Specific areas of its adoption :
10. a. Description of the technology :
    b. Experimental details :
    c. Results (in the concerned station) :
    d. Test verified data in different Research Stations (MLT) :
    e. On-farm testing (in farmers field) / ART details :
    f. Plot size or demonstration area :
    g. Cost effectiveness :
11. Information on the acceptability of the technology by farmers / industry / impact analysis :
12. Specific description of the technology (including diagram, photos etc.) in a form to be released and incorporated in Crop Production Guide. :
13. Indirect benefits derived, if any, like safety to natural enemies, safety to environment should be mentioned with full justification. :
14. Any other pertinent information :

Signature of proposing Scientist // Signature of Head of Institution

GUIDELINES FOR RELEASE OF MANAGEMENT TECHNOLOGIES

- Any technology developed should be cost effective, ecologically viable and should keep pest / disease below Economic Threshold Level (ETL).
- The economics of adoption of new technologies may be made through partial budgeting indicating added cost, added returns or cost savings so that the information are self explanatory. This will also explicitly indicate actual additional cost and additional returns which the Benefit Cost Ratios do not reveal.
- Technology developed should be a product or a process useful to the farming community as a whole.
- In case of development of strains of biocontrol agents, it should be available in sufficient quantities for distribution.
- The management technologies like pest management / pest control should be finalized only after testing for permissible levels of residues in the plant parts and particularly in parts of economic importance such as fruits, leaves, tubers etc. as the case may be.
- The technology, if specific to a variety, should be recommended only for the variety.
- Season bound technologies, if recommended should take into consideration of the various agroclimatic zones before being recommended for adoption.
- No. of seasons to be tested in concerned TNAU centres: 3 years, each in 3 seasons (consistently superior in 2 years / seasons).
- No. of location (at different Research Stations) in which technology is to be test verified (MLT) : Minimum 3 locations in the area for which recommended and consecutively for a minimum of 3 years.
- No. of OFT in farmers field in the areas of adoption (location specific / entire state) for which the technology is developed minimum of 20 (involving Dept. of Officials / progressive farmers / NGO's)
- The technology recommended should have a minimum of 10 per cent increase in yield / net profit / any other indirect benefits than the existing practice.
- Rainfed and irrigated data should be furnished separately.
- One page note both in English and Tamil should be enclosed.
- Sharp photographs (colour) indicating the salient feature of technology should be enclosed.
- For food processing technology, different process parameters and the optimum level in the process is to be given for easy adoption.
- Name of the Scientist and Place now working may be indicated so as to invite him/ her for presenting the proposals before University Technology Release Screening Committee.
- All the scientists contributed in the release of the technology should be included in the proposals.

PROFORMA FOR SUBMISSION OF RELEASE PROPOSAL OF FARM IMPLEMENTS / EQUIPMENTS

1. Name of the Implement / Equipment
2. Specification of the Implement / Equipment
3. Purpose
4. Department / Source responsible for the development
5. Name of the scientists involved development of implement / equipment (in chronological order)
6. University research project from which the technology has been generated
   a) Date of start of the project
   b) Project No.
   c) Date of Closure
7. Number of trials conducted in the Farmer fields / Research stations (Enclose detailed trials reports)
8. a) Cost of the operation , Rs./ha
   b) Comparative savings in time and labour
   c) Coverage
9. Cost of implement / equipment
10. Enclose the following
    a) One page write up in English
    b) One page write up in Tamil
    c) Details of trials conducted and the results obtained
    d) Photographs of the unit and in its working condition
    e) Opinion of the Farmers / Scientists / Industrialist / Users / Dept. of AED
11. Details of patent applied
12. Any other pertinent information

Signature of the Scientist // Signature of the Head of Department

GUIDELINES FOR RELEASE OF FARM IMPLEMENTS

1. The economics of adoption of new technologies may be made through partial budgeting indicating added cost, added returns or cost savings so that the information are self explanatory. This will also explicitly indicate actual additional cost and additional returns which the Benefit Cost Ratios do not reveal.
2. Technology developed should be a product or a process useful to the farming community as a whole.
3. No. of seasons to be tested in concerned TNAU centres: 3 years, each in 3 seasons (consistently superior in 2 years / seasons).
4. No. of location (at different Research Stations) in which technology is to be test verified (MLT) : Minimum 3 locations in the area for which recommended and consecutively for a minimum of 3 years.
5. No. of OFT in farmers field in the areas of adoption (location specific / entire state) for which the technology is developed should be a minimum of 20 (involving Dept. of Officials / progressive farmers / NGO's)
6. The technology recommended should have a minimum of 10 per cent increase in yield / net profit / any other direct / indirect benefits than the existing practice.
7. One page note both in English and Tamil should be enclosed.
8. Sharp photographs (colour) indicating the salient feature of technology should be enclosed.
9. Name of the Scientist and Place now working may be indicated so as to invite him/ her for presenting the proposals before University Variety Technology Release Screening Committee.
10. All the scientists contributed in the release of the technology should be included in the proposals.