

RPF I

PROFORMA FOR SUBMISSION OF RESEARCH PROJECTS

PART-I: GENERAL INFORMATION

- 200 Project Code
- 2001 Institute code No. CP-2.1.13
- 2002 ICAR Code No.
- 201 Name of the Institute and Division
- 2011 Name and address of Institute Indian Grassland and Fodder Research Institute,
Jhansi-284003 (UP)
- 2012 Name of Division/ Section Crop Production Division
- 2013 Location of project Research Farm of Crop Production Division
- 202 Project Title **Fodder Based Contingent Crop Planning
Modules for Rainfed Semi-Arid Region.**
- 203 Priority Area Rainfed Production System
- | | | | | | |
|------|-------------------|------------------|----------------|--------------------------------|------------------------|
| 2031 | Research approach | Applied Research | Basic Research | Process/Technology Development | Transfer of Technology |
| | | 01√ | 02 | 03 | 04 |
- 204 Specific Area **Efficient Utilization of Farm Resources in
Fodder based Contingent Crop Planning**
- 2041 Previous project/projects in this specific area (Year, type of funding, cost etc.) None in the Institute
- 205 Duration 5 years
- 2051 Date of start *Kharif, 2010*
- 2052 Likely date of completion *Rabi, 2014-15*
- 206 Total cost of the project Rs. 45.06 lakh
- 2061 Foreign exchange component (if any) Nil

207 **Project profile summary**

Rainfed region serve as a vital source of food and fodder for half of human and nearly 65 per cent of the livestock population in the country. Water scarcity, poor input use efficiency and resource degradation are the major constraint of *rainfed* agriculture. Rainfed areas of semi-arid region are characterized by low and highly uncertain yields which are mainly due to inadequate and uneven distribution of rainfall, late onset and early cessation of rains, prolonged dry spells during the crop period, low moisture retention capacity and low fertility of soils, etc. The crop yield under semi-arid region has been estimated at 0.6 t/ha against the potential of 1.9 t/ha. To avoid crop failure/poor yields, the risk management is most important through introduction of short duration drought resistant varieties, efficient crop planning and integrated crop management package (ICMP).

In *rainfed* semi arid region of country, contingency of growing another crop in place of normally grown crop arises due to delay in the onset of monsoon, frequent intermittent dry spell and early cessation of monsoon. Under water stress, improper selection of crops or variety may lead to either failure of crop or poor yield response to added inputs. The desired Integrated crop management package (ICMP) for optimizing crop productivity in the rainfed region under extreme weather conditions is land management, proper planting, INM, water harvesting and use of short duration drought resistant varieties.

208 **Key words:** Fodder, Contingent crop planning, rainfed, semi arid region, ICMP.

PART – II: INVESTIGATORS PROFILE

210 Principal Investigator

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2102 Designation	Senior Scientist (Agronomy)
2103 Division/Section	Crop Production Division
2104 Location	Institute Campus
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211 Co- Principal Investigator

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