

PROFORMA FOR SUBMISSION OF ANNUAL PROGRESS REPORT OF RESEARCH PROJECTS

RPF – I

PART – I

200 Project Code

2001 Institute Project Code No. CI 3.8

2002 ICAR Project code No

201 Name of Institute and Division

2011 Name and address of Institute Indian Grassland and Fodder Research Institute, Jhansi 284003

2012 Name of Division/Section Crop Improvement Division

2013 Location of Project Indian Grassland and Fodder Research Institute, Jhansi 284003

202 Project Title **Genetic Improvement in fodder Cowpea *Vigna unguiculata* with special reference to resistance to pests.**

203 Priority area

2031 Research Approach	Applied research	Basic Research
	01	02
	√	√

205 Duration of the project 5 years

2051 Date of start of project 2009

2052 Likely date of completion of project 2014

PART II : INVESTIGATOR PROFILE

210 Principal Investigator

2101 Name : Dr. (Mrs.) Gitanjali Sahay

2102 Designation : Scientist

2103 Division/Section : Crop Improvement

2104 Location : IGFRI, Jhansi

2105 Institute Address : Indian Grassland and Fodder Research Institute
Gwalior road, Jhansi 284003, Uttar Pradesh

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- 211** Co-Investigator
- 2111 Name : Dr. U. P. Singh
- 2112 Designation : Principal Scientist
- 2113 Division/Section : Crop Improvement
- 2114 Location : IGFRI, Jhansi
- 2115 Institute Address : Indian Grassland and Fodder Research Institute
Gwalior road, Jhansi 284003, Uttar Pradesh
- 212** Co-Investigator
- 2121 Name : Dr. (Mrs.) Sharmila Roy
- 2122 Designation : Senior Scientist
- 2123 Division/Section : Crop Improvement
- 2124 Location : IGFRI, Jhansi
- 2125 Institute Address : Indian Grassland and Fodder Research Institute
Gwalior road, Jhansi 284003, Uttar Pradesh
- 213** Co-Investigator
- 2131 Name : Dr. R.B. Bhaskar
- 2132 Designation : Senior Scientist
- 2133 Division/Section : Crop Improvement
- 2134 Location : IGFRI, Jhansi
- 2135 Institute Address : Indian Grassland and Fodder Research Institute
Gwalior road, Jhansi 284003, Uttar Pradesh
- 214** Co-Investigator
- 2141 Name : Dr. A.B.Majumdar
- 2142 Designation : Principal Scientist
- 2143 Division/Section : Plant Animal Relation
- 2144 Location : IGFRI, Jhansi
- 2145 Institute Address : Indian Grassland and Fodder Research Institute
Gwalior road, Jhansi 284003, Uttar Pradesh



Conventional Methods

- Pandey and Pawar (2000) conducted a study to develop high yielding, large white seeded varieties of cowpea with determinate growth habit through mutation breeding.
- Nagaraja et al. (2003) studied the segregating populations of two separate sets of material in three crosses of cowpea which were advanced by pedigree, bulk and single seed descent methods of selection.
- Parmar et al. (2003) studied association analysis for grain yield and contributing characters in cowpea. Estimates of the phenotypic and genotypic correlation coefficients, in general exhibited similar trend.
- Misra et.al. (2003) evaluated a set of 740 germplasm accessions of cowpea including both indigenous and exotic, for 25 descriptors, potential donors for major economic traits identified.

221 Project technical profile:

2211 Organization of work element (for each objective and participating investigator giving man months involved)

Investigator	Contribution in the project
1. Mrs. Gitanjali Sahay	Germplasm collection, evaluation, characterization, utilization, documentation and registration.
2. Dr. Sharmila Roy	screening of germplasm for major pests.
3. Dr. U. P. Singh	Germplasm evaluation, documentation and registration.
4. Dr. Bhaskar	Screening germplasm for major diseases.
5. Dr. A.B.majumdar	Quality parameters analysis of selected lines.

Work Plan

1st year	2nd year	3rd year	4th year	5th year
Crossing Programme of elite lines	Carrying forward of hybrids F1	Carrying forward of F2 hybrids, selection	Carrying forward of F3 hybrids, selection	Carrying forward of F4 hybrids, selection
Carrying forward to F5 generation	Testing of elite lines and F6	Station trial	AICRP trial	AICRP trial
Collection and evaluation of new germplasm	2nd year evaluation	Characterization	Characterization	Characterization
Screening for erect plant type and pests in collected germplasm	2nd year screening	Station trial	Station trial	Station trial
Registration of Promising lines	Multiplication of lines to be registered	Documentation	Registration	Registration
Nucleus seed production	Nucleus seed production	Nucleus seed production	Nucleus seed production	Nucleus seed production

2222 Questions attempted to be answered..

2223 Anticipated Process/Product/Technology expected to be evolved by pursuing the project.

2224 Practical Utility of anticipated results.

PART IV : BUDGET ESTIMATES (Rs. In lakhs) (SUMMARY)

230 Budget summary (Recurring)

2301 Salaries:

Scientific
Technical
Supporting
Wages

2302 Consumables:

I Chemicals
II Glassware
III Others

2303 Travel

Miscellaneous



(Others)
Sub total
(Recurring)

Non-recurring
(Equipment)

Signature of the
Principal Investigator:

Gitanjali Sahai

Co- Investigators 1.

[Signature]

2.

Dharmjendra

3.

Up Singh

4.

Shamika

Signature & Comments of the Head of the Division

Appears O.K.

[Signature]
3/4/10

Signature & Comments of the Director

Kadamb

DIRECTOR