

PROFORMA FOR SUBMISSION OF RESEARCH PROJECTS
PART -I: GENERAL INFORMATION

200 Project code2001 Institute Code No: **CP 1.1.11**

2002 ICAR Code No:

201 Name of Institute and Division:2011 Name & Address of Institute: Indian Grassland and Fodder Research
Institute (IGFRI), Jhansi 284 003

2012 Name of Division/ Section: Division of Crop Production

2013 Location of Project: CP Division, IGFRI, Jhansi

202 Project Title:

**Effect of long term organic and conventional nutrient management on soil
 fertility and sustainability of cropping system**

203 Priority Area

Intensive forage production under organic nutrition

204 Research Approach:

Applied res	Basic Res	Process/Technology Development	Transfer of Technology
01	02	03	04

205 Specific area**Soil Fertility management for organic nutrition**

2051 Previous projects in this specific area: CP 1.1.7

206 Duration: Five years

2061 Date of Start July 2010

2062 Likely date of completion 2015-14

207 Total cost of the project: Rs. 117.75 lakh

2071 Foreign Exchange Component (if any) Nil

208 Project profile Summary:

Soil organic matter plays important role in sustainable crop production. In intensive crop production system over dependence on chemical fertilizers lead to the decline in soil productivity and resource use efficiency. In recent years, there had been lot of discussion on organics based nutrition of the crops. Several research results showed the amount of the organic matter required for optimum crop production. Changes in SOC are linearly related to gross C input, current management practices and management history of the soil. Long term experiments are primary source of information to determine the effect of cropping systems, continuous cropping and fertilizer and manure application on changes in SOC. For getting meaningful estimates of the rate of the added biomass incorporation into soil organic matter (SOM) and decay rates of the native SOC, it is desirable to have long term field experiment involving organics.

209 Key words:

Organic nutrition, soil fertility, soil enzymes, FYM, guinea grass, cropping system, carbon sequestration, soil health

Part –II: Investigator Profile

210 Principal Investigators

2101 Name: Dr Arvind K. Rai
2102 Designation: Senior Scientist
2103 Division/ Section: Division of Crop Production
2104 Location: IGFRI, Jhansi
2105 Institute Address: Indian Grassland and Fodder Research Institute, Jhansi

211 Co- Investigator

2111 Name : Dr. A. K. Dixit
2112 Designation : Senior Scientist
2113 Division/Section : Division of Crop Production
2114 Location : IGFRI, Jhansi
2115 Institute Address : Indian Grassland & Fodder Research Institute, Jhansi.

