

Welcome to FOSRIN



Organization of the presentation

- Who am I?
- What I am doing?
- What I will be doing?

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Plant Breeding and Genetics



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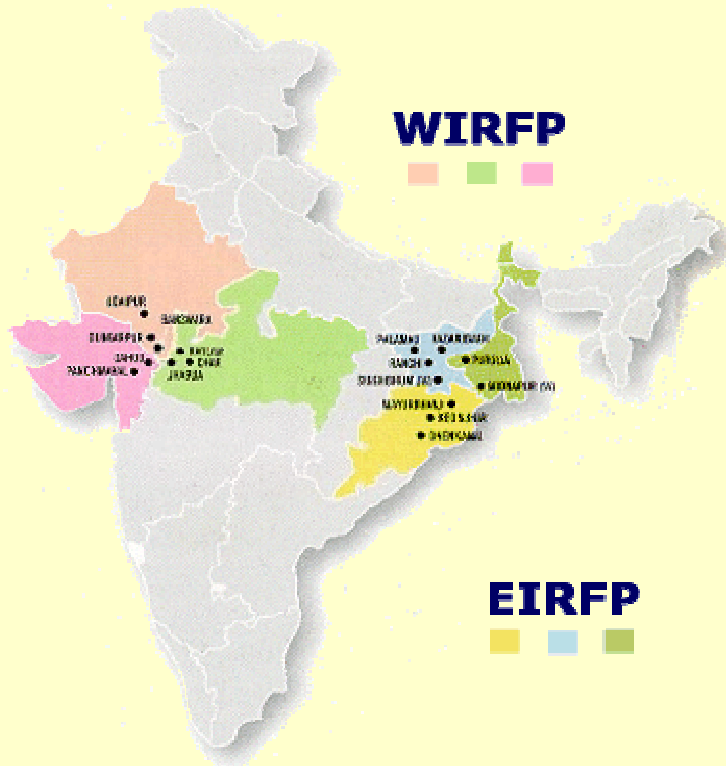
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Experience

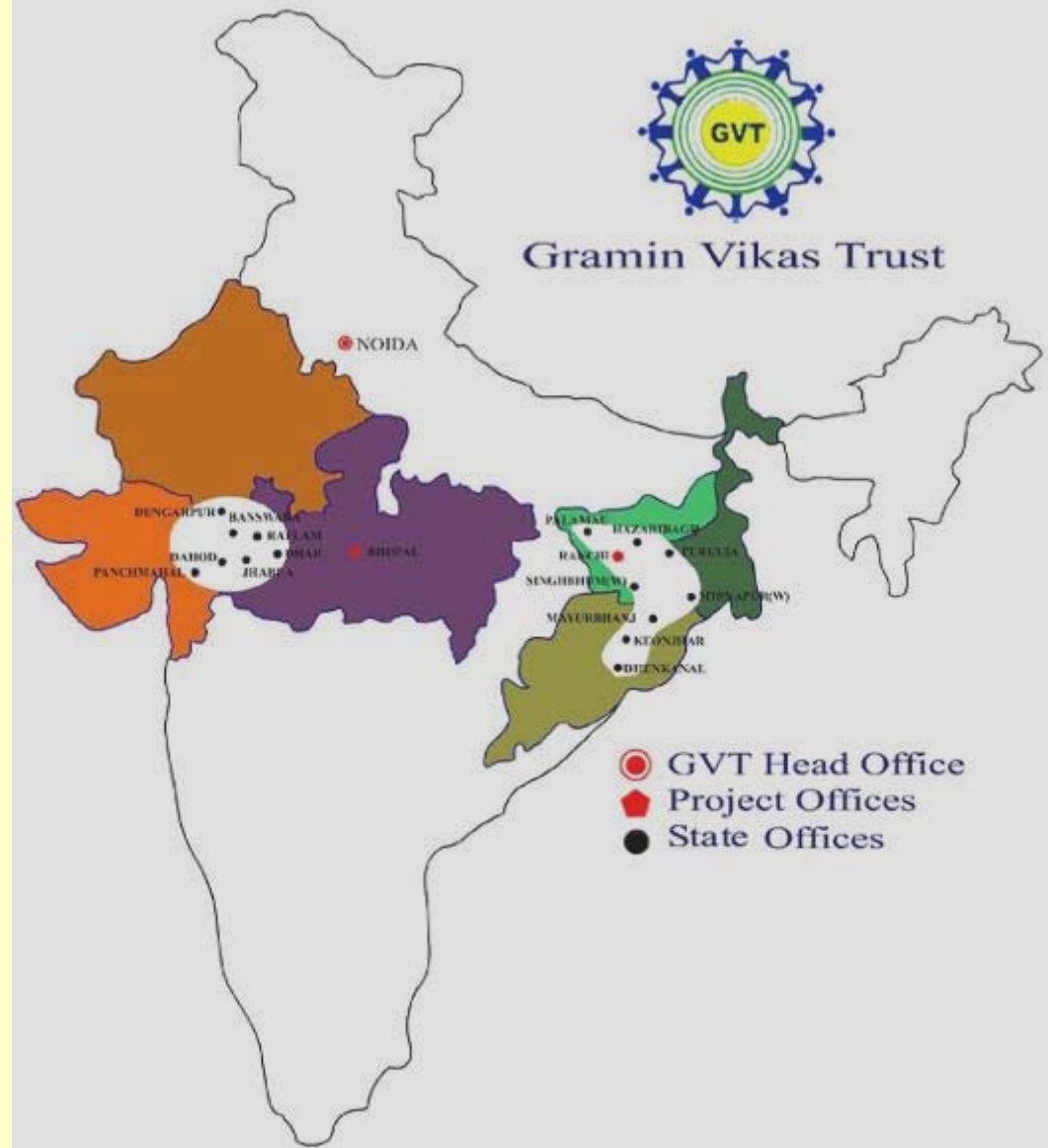
- Research Assistant 6 years Pulses Breeding
- Assistant Professor 6 years Pulses Breeding
- Associate Professor 6 years Pulses Breeding
- Professor and Head 16 years Oilseeds, Rice, Maize, Pulses and Forage crops Breeding
- Coordinator 2.5 years Cereals, Legumes and Oilseeds Breeding



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Contribution of PPB and PVS

Maize	GM-6	Gujarat, Rajasthan, Madhya Pradesh
	IVM 421	MP
Rice	Ashoka 200F	MP,Raj,Guj
	Ashoka 228	MP
Chickpea	Pratap Chana 1	Raj
	KAK -2	Raj
	JG 412	MP
Blackgram	JU-8-6	MP
	JU-486	MP
Horsegram	AK-21, AK-42	Raj, MP, Guj

Present Assignments

- a. Seed multiplication and dissemination project – DFID
- b. Tribal people livelihood enhancement through innovative approaches of agricultural production in western Madhya Pradesh – MPRLP
- c. Agricultural initiatives at GVT's National Livelihoods Resource Centre – KRIBHCO
- d. Food security through rice bean research in India and Nepal – European Community through CAZS-NR



Ricebean in Western India

- Ricebean was a minor legume crop before two decades in eastern MP and western Gujarat.
- No improvement work on this crop in the region.
- Crop is near to extinction because:
 - a. Introduction of soybean cultivation.
 - b. Not suitable for intercropping with maize, cotton and pigeonpea.
 - c. Non-availability of high yielding variety.



Efforts in this project

- Collection of promising genotypes from Assam and Himachal Pradesh.
- Evaluation of promising genotypes at Research station of JNKVV, KVK, Jhabua in formal trial.
- Some accessions were very good in grain production and some very late or no flowering indicated the presence of photo-sensitivity.
- Farmers expressed the keen interest looking to the production potential of the crop.



Ricebean Trial (Kharif 2006), KVK, Jhabua MP, India

SN	Genotype	Characters								
		Days to 50% flowering*	Days to maturity*	No of pod /plant*	Plant height (cm)*	Number of seeds/ pod*	Yield / plant (g)*	Fodder yield kg/ha*	100 seed weight (g)	Grain yield (kg/ha)*
1	BRS-1	34	81	27	49	9	11	1157	4	1057
2	PRR-2	35	81	72	74	8	20	1282	5	1095
3	PRR-I	38	80	103	89	6	24	1237	5	1051
4	RT4	30	76	42	37	8	17	672	4	601
5	VRB-I	35	78	141	84	10	28	1272	5	1130
	Mean	34.46	78.93	76.9	66.7	8.00	19.9	1123.7	4.60	986.87
	S.Em.(±)	0.30	0.83	2.26	1.24	0.19	0.88	21.59	0.97	23.00
	CD at 5%	0.87	2.45	6.65	3.62	0.47	2.58	63.51	2.86	67.64

*Significant at 5% level

Entries did not flower are JCR-250, 253, 255 and 256. Entry-251 matured in 140 days with poor yield.



Seed colour and shape in ricebean



Work Package 1

Supply-chain characterisation and analysis of consumer demand

GVT is the partner with **Kiel** in this activity for objective 1.2 i.e. supply chain characterised in terms of agents, product and information flows which will lead to Market-price based Legumes Trait Value Index (MLTVI).



Work Package 2
Assessment of Genetic diversity and indigenous knowledge
on ricebean.

- GVT will be partner with **CAZS** in this objective for PRAs and germplasm evaluation in the farmers' fields.
- Diversity analysis in relation to socio-economic and biophysical variables.



Work Package 4

To characterise germplasm for suitability for a range of diverse environments and cropping systems.

- **GVT** will act as a leader for this objective basically for the generation of quantitative data along with CSKHPAU, AAU, LI-BIRD and CAZS-NR
- Identification of suitable accessions
- Exchange of germplasm
- Entries for mother and baby trials
- Analysis of data



Work Package 5

Potential impact of enhanced pulse availability on local human nutrition

- GVT will be a partner with **Bergen** for this objective for helping in HH surveys and related aspects.



Work Packages 6 and 7
Coordination, management, integration and synthesis and
dissemination

- Like all partners with CAZS-NR for all of the above activities to achieve the objectives.



Work Package 8
Organizing activities, writing reports and information

- GVT will be a major partner in these activities with **CAZS-NR**



*Best wishes for a successful
ricebean project (FOSRIN) with
everlasting partnerships*



A
PRESENTATION
from



BY
Dr.J.P.YADAVENDRA