



CFI Research Grant Planning Workshop

16-18 June 2026
Jain Hills, Jalgaon

Presenter: Dr. A K Srivastava

Date: 16.06.2026

1. Project Snapshot



- **Project title:** Increased availability of bio-diverse fruits among poor and rural people for better household nutritional security, Livelihood, and Sustainable Land Management
- **Institution:** Banda University of Agriculture & Technology, Banda – 210001 (Uttar Pradesh)
- **Principal Investigator:** Dr A K Srivastava
- **Project duration:** 3 Years
- **Budget:** INR 20,00,000 / 21,978 USD
- **Project location(s):** District Chitrakoot in Bundelkhand region of Uttar Pradesh, India

2. Landscape, problem statement & target communities

Key Issues: Agro-climatic zone: Central Plateau & Hills Region, Bundelkhand

Climate: Dry sub-humid to dry-arid, erratic rainfall ~750-800mm

Challenges: Water scarcity, rainfed farming, migration due to crop failure, low industrialization

Land holding: 1.57 Lakh small/marginal farmers out of 1.78 Lakh cultivators.

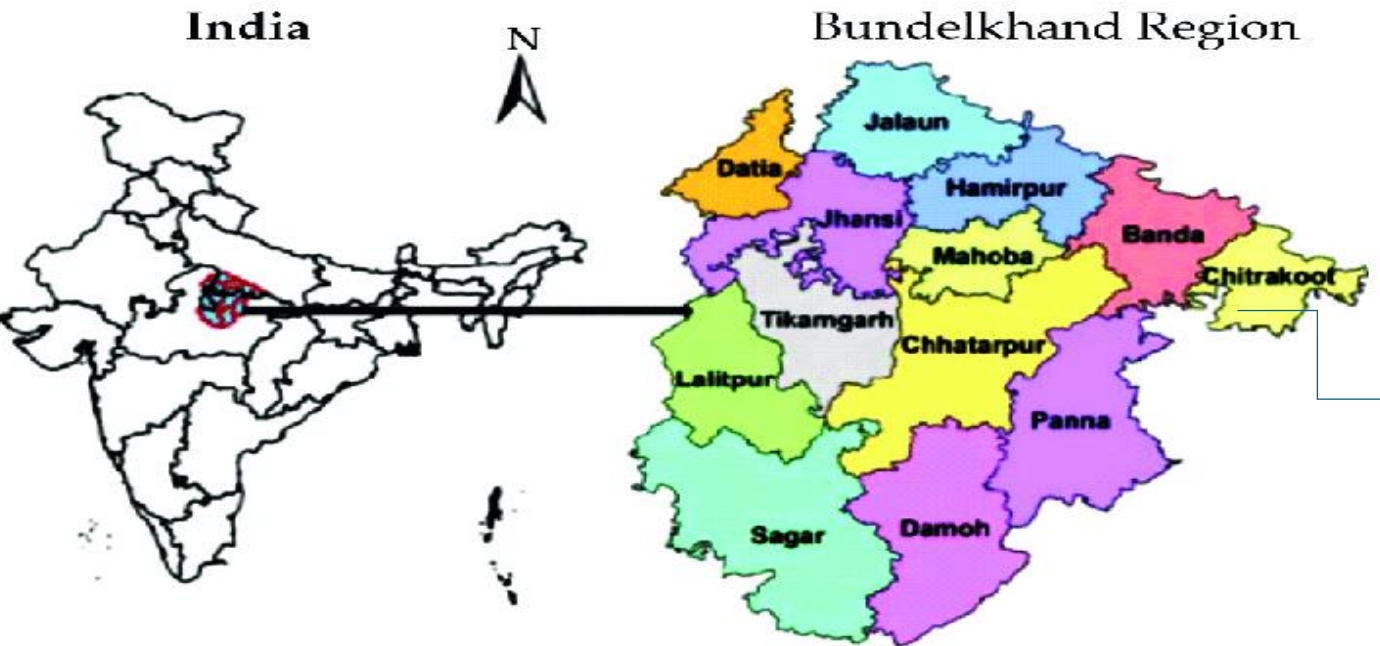
71.44% holdings ≤ 1 ha

Social Structure:

Scheduled Castes: 26.9%

Scheduled Tribes: 0.04%

Literacy Rate: 65.05% overall



3. Year-1 Implementation plan

Summarize key activities planned during Year 1, which will Include:



Training Need Assessment

- 1. Standard and map-based surveys for data collection from stakeholders and community members**
- 2. Community mapping for analyzing and visualizing community assets and resources**
- 3. Workshops and focus group meetings for smaller outreach**
- 4. Individual observations**

Measurement on Knowledge of farmers and community members on Nutri-rich Biodiverse Fruit Species



Methodology

A knowledge test for measuring the knowledge of farmers and community members on **Nutri-rich Biodiverse Fruit will be developed**. Pre-Post Test will be conducted using following criteria:

1. Collection of items
2. Item analysis and pre-testing
3. Calculation of Difficulty Index (P)
4. Calculation of Discrimination Index
5. Final selection of questions/items for the knowledge test
6. Reliability of the knowledge test
7. Validity of knowledge
8. Administration and Scoring of Knowledge Test

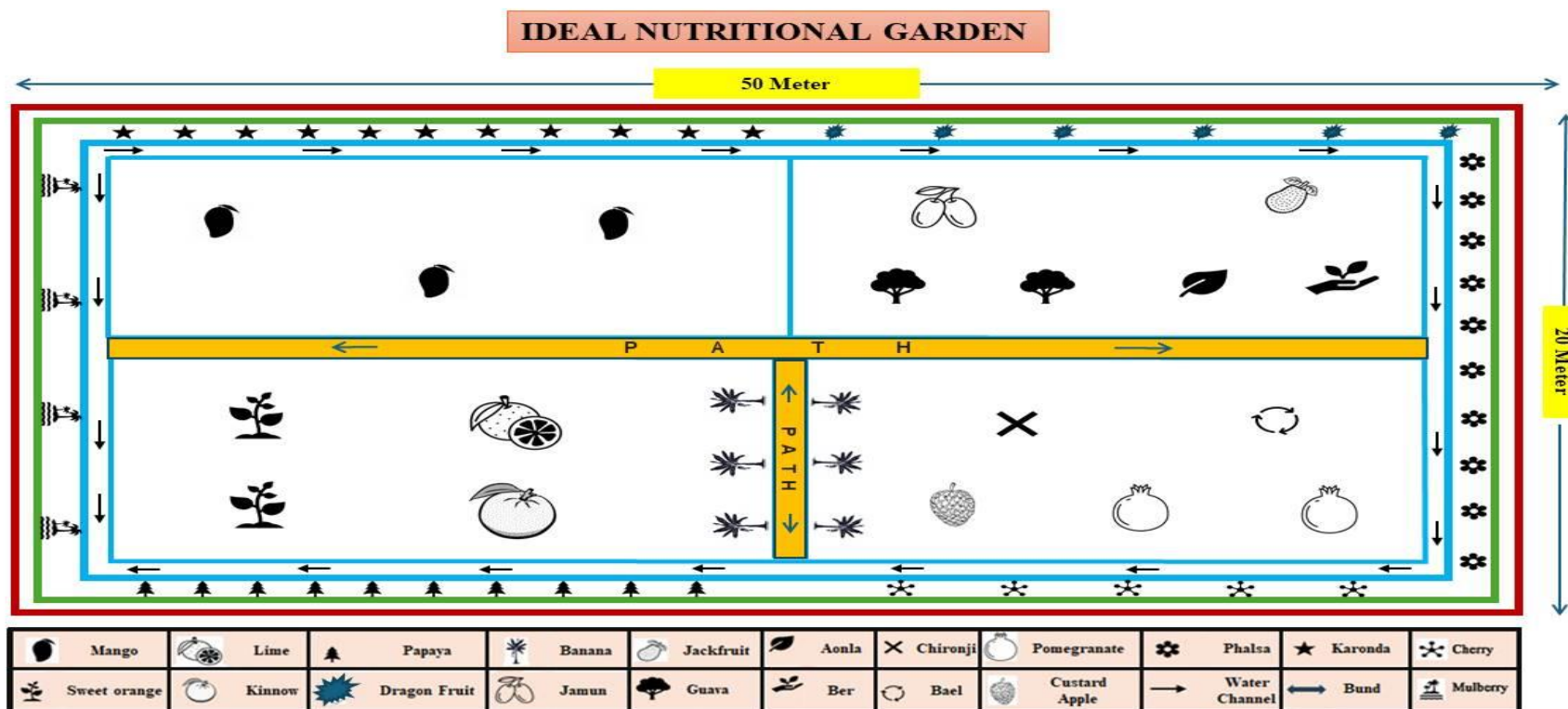


C. Organization of Awareness Camp / Workshop

Two awareness camp / workshop will be conducted under the project. The beneficiaries will be selected from rural farmers / farm women / rural youth and school going children.

D. Establishment of Ideal Nutritional Garden at community land / Farmer's Field

1. Model for Community land / marginal farmer (10 Demonstrations)



IDEAL NUTRITIONAL GARDEN

Area: 50 Meter X 20 Meter

S. N.	Name of Fruit Plant	Planting Distance (M)	No of Plants Accommodated
1	Mango	8X8	03
2	Mosambi	6X6	02
3	Lime	6X6	01
4	Kinnow	6X6	01
5	Guauva	4X4	02
6	Jamun	6X6	01
7	Jackfruit	6X6	01
8	Aonla	6X6	01
9	Ber	6X6	01
10	Chiraunji	6X6	01
11	Custard Apple	5X5	01
12	Bael	6X6	01
13	Pomegrante	4X4	02
14	Dragon Fruit	4X4	06
15	Karonda	2X2	10
16	Cherry	4X4	05
17	Papaya	2X2	10
18	Mulberry	5X5	04
19	Banana	2X2	06
20	Phalsa	2X2	10
		Total	69

Number of Demonstration: 10

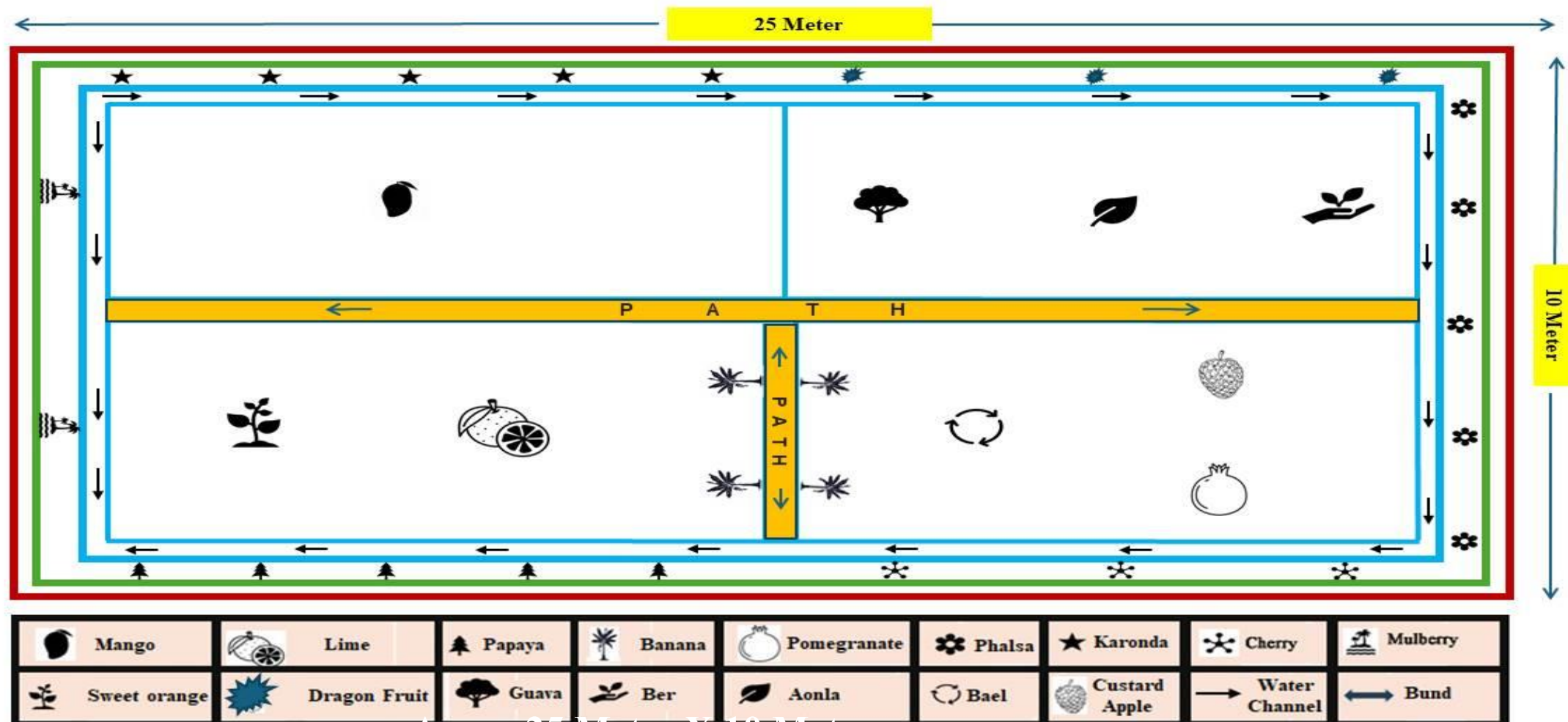
Number

Plants required: 20



2. Model for small farmer (10 Demonstrations)

IDEAL NUTRITIONAL GARDEN



IDEAL NUTRITIONAL GARDEN

Area: 25 Meter X 10 Meter



S. N.	Name of Fruit Plant	Planting Distance (M)	No of Plants Accommodated
1	Mango	10X10	01
2	Mosambi	5X5	01
3	Lime	5X5	01
4	Guava	4X4	01
5	Aonla	4X4	01
6	Ber	4X4	01
7	Custard Apple	3X3	01
8	Bael	6X6	01
9	Pomegranate	3X3	01
10	Dragon Fruit	4X4	03
11	Karonda	2X2	05
12	Cherry	4X4	03
13	Papaya	2X2	05
14	Mulberry	5X5	02
15	Banana	2X2	04
16	Phalsa	2X2	05
		Total	36

Number of Demonstration: 10

Total number of plants required: 360

E. Support to landless poor people for fruit plantation on community land / roadside land and forest fringe areas

Landless farmers will be sensitized to do nutri rich fruit plantation on community / roadside land and forest fringe areas.

Number of beneficiaries: 100

Plants to be distributed

Total number of plants for 100 beneficiaries: 2400 No.

S. N.	Name of Fruit Plant	No of Plants
1	Mango (Seeding)	02
2	Tamarind(Seeding)	02
3	Mulberry	02
4	Lime	02
5	Guava	02
6	Aonla (Seeding)	02
7	Ber	02
8	Sapota	02
9	Bael	02
10	Jamun	02
11	Karonda	02
12	Jackfruit	02
Total		24

Sr.No	Heads	Year			Total (in lakh)
		I st	II nd	III rd	
A.	Manpower (Field Assistant @ Rs. 15000.00/month)	1.80	1.80	1.80	5.40
B.	Recurring contingency				
i.	Operation cost	5.50	0.50	0.50	6.50
i.	Organization of Awareness workshops and capacity building trainings	2.50	2.40	0.00	4.90
i.	T.A./D.A./PoL/Vehicle hiring	1.00	1.00	0.50	2.50
i.	Documentation, publication, publicity, stationery etc. and Miscellaneous expenses	0.20	0.25	0.25	0.70
Grand Total (A+B)		11.00	5.95	3.05	20.00



Collaboration Opportunities (Offer and Ask)



Collaborating Partner	1. Deendayal Research Institute, Chitrakoot 2. Vanvasi Kalyan Kendra, Manikpur
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8.Risk & mitigation strategy:

Risk Category	Risk	Probability	Mitigation Strategy
Climate	Saline water and low rainfall or heatwaves reduce survival and fruiting	Medium	Salt and drought-resilient species selection; mulching; water harvesting; backup irrigation
Social/Gender	Limited participation of women and Schedule caste/tribals due to cultural norms or workload	Medium	Organization of sensitization workshop
Operational	Delays in procurement, planting material supply or data collection	Low	Advance requirement submitted to CISH, Lucknow, CCRI, nagpur and CIAH, Bikaner



Thanks