



CFI Research Grant Planning Workshop

16-18 June 2026
Jain Hills, Jalgaon

Presenter: Kuldeep Singh

Date: 16/06/2026

1. Project Snapshot

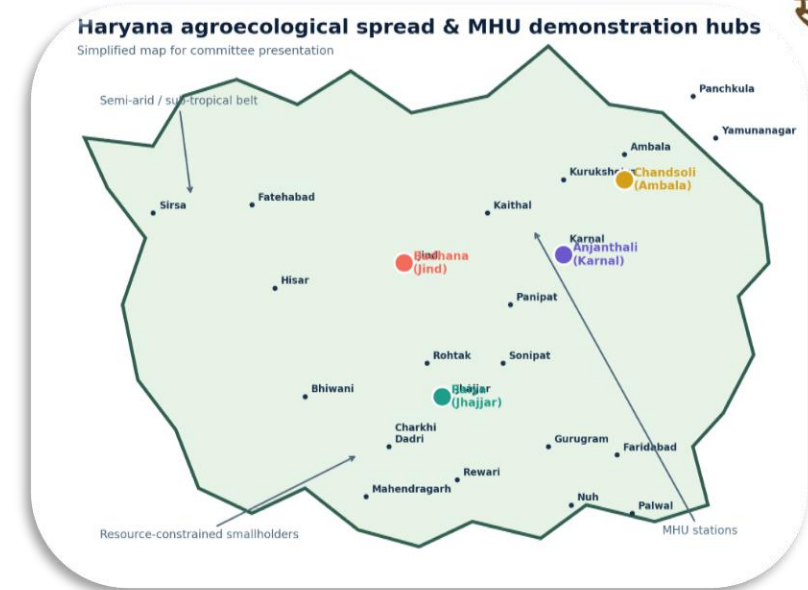


- **Project title:** Promotion of Climate-Resilient Underutilized Fruit-Based Systems for Nutrition Security and Livelihood Enhancement in Haryana through Demonstration, Capacity Building and Knowledge Support.
- **Institution:** Maharana Pratap Horticultural University, Karnal
- **Principal Investigator:** Dr. Surender Singh, Prof. & Head (Fruit Science)
Co-PI: Dr Vijay, Dr Kuldeep Singh, Dr Gagan Mehta & Dr Shahroon Khan
- **Project duration:** July 2026 – June 2028 | **Year-1: July 2026 – June 2027**
- **Budget:** ₹30 lakh | **Year-1: ₹ 17.55 lakh**
- **Project locations:** HRS Anjanthali (Karnal), HRC, Chandsoli (Ambala), HRC, Raiya (Jhajjar), HRC, Badhana (Jind).

2. Landscape, problem statement & target communities



- **Agroecological context:** 4 sites, from semi-arid to sub-tropical Haryana; alluvial to sandy loam soils; small & marginal holdings.
- **Key challenges being addressed:** Cereal-dominant systems, limited diversification, **low fruit intake**, climate variability and poor soil condition.
- **Target beneficiaries:** 200-500 smallholder farmers; approx. 30% women; inclusion of rural youth, FPOs, SHGs and marginal households.
- **Project landscape:** HRS, Anjanthali (Karnal), HRC, Chandsoli (Ambala), HRC, Raiya (Jhajjar), HRC, Badhana (Jind).



HRC, MHU	Soil pH	EC (dS m ⁻¹)
HRC Anjanthali, Karnal	8.27	0.55
HRC Raiya, Jhajjar	7.50	0.05
HRC Badhana, Jind	8.67	0.58
HRC Chandsoli, Ambala	9.29	0.25

3. Year-1 Implementation plan



Establish four demonstration orchards

At HRS, Anjanthali, HRC, Chandsoli, HRC, Raiya and HRC, Badhana.

Build farmer capacity

200 - 500 farmers through trainings and advisories.

Improve nutrition awareness

Village-level outreach and IEC materials.

Create knowledge products

Technical notes, case studies, bulletins.

Deliverables by June 2027

- Baseline assessment
- Selection of suitable fruit species and orchard planning
- Establishment of climate resilient fruit based demonstration units.
- Farmer training and capacity building
- Monitoring and survival assessment
- Nutrition awareness and outreach programmes

4. Fruit Species and production models



HRC Badhana, Jind

Jamun • Jackfruit • Guava • Moringa

Production model:
Low-input demonstration orchard with farmer learning.

HRC Raiya, Jhajjar

Fig • Kamlam • Ber • Pomegranate • Phalsa

Production model:
Low-input demonstration orchard with farmer learning.

HRC Chandsoli, Ambala

Jamun • Mulberry • Fig • Moringa

Production model:
Low-input demonstration orchard with farmer learning.

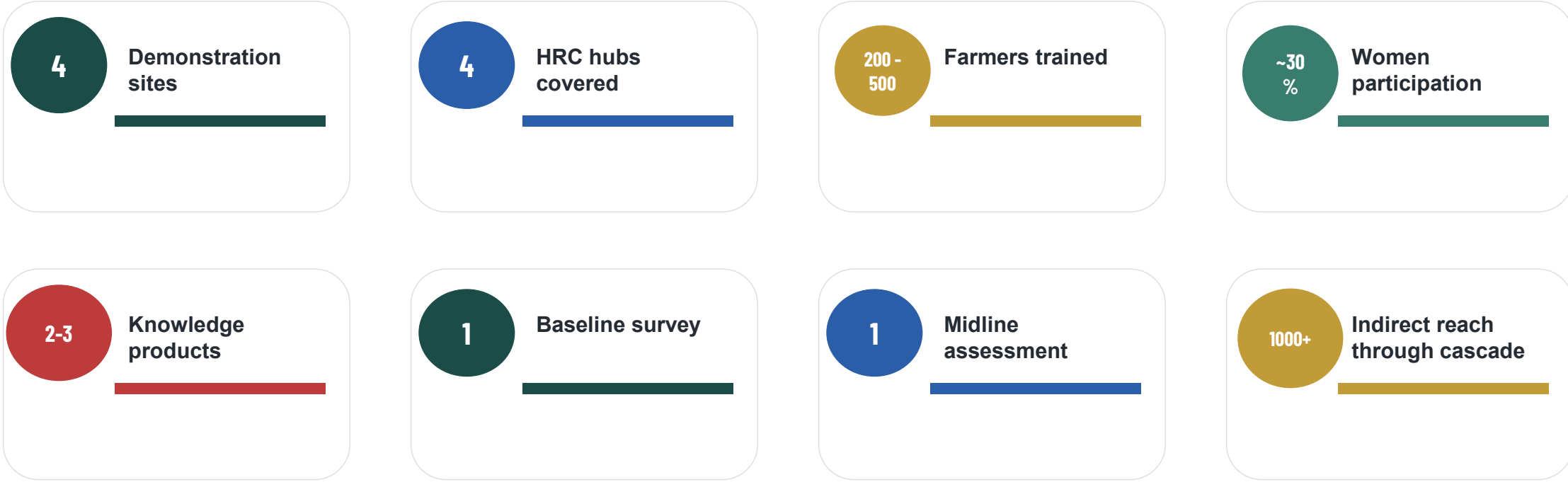
HRC Anjanthali, Karnal

Kamlam • Fig • Aonla

Production model:
Low-input demonstration orchard with farmer learning.

Core fruit basket: Bael, Ber, Aonla, Jamun, Karonda, Guava and Phalsa, with local flexibility by site.

5. Year-1 Targets and deliverables :



Expected deliverables by June 2027

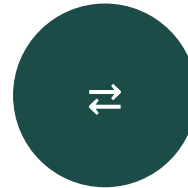
Baseline database • Site-specific orchard layouts • Technical guidelines and training materials • Plant survival assessment • Training records and outreach documentation

6. Collaboration Opportunities (Offer and Ask)



What we can offer

- Fruit science expertise and location-specific orchard protocols
- Demonstration sites at four MHU research stations
- Field demonstrations
- Technical notes, case studies and IEC materials
- Support for baseline, monitoring and data sharing



Partnership

Support we need

- Communication, documentation and visibility support.

Goal: strengthen a CFI community of practice for fruit-based nutrition security and resilient livelihoods.

7. Baseline, MEL and Next Steps :



Baseline → MEL → Learning loop

- 1 Baseline (Jul–Sep 2026)**
Demonstration site selection, fruit species, fruit consumption and awareness baseline.
- 2 Routine monitoring (Oct 2026–Jun 2027)**
Plant establishment, survival checks, corrective actions, field visits, photography.
- 3 Midline (Apr–Jun 2027)**
Review of orchard establishment, training participation, and initial knowledge change.

Key MEL indicators

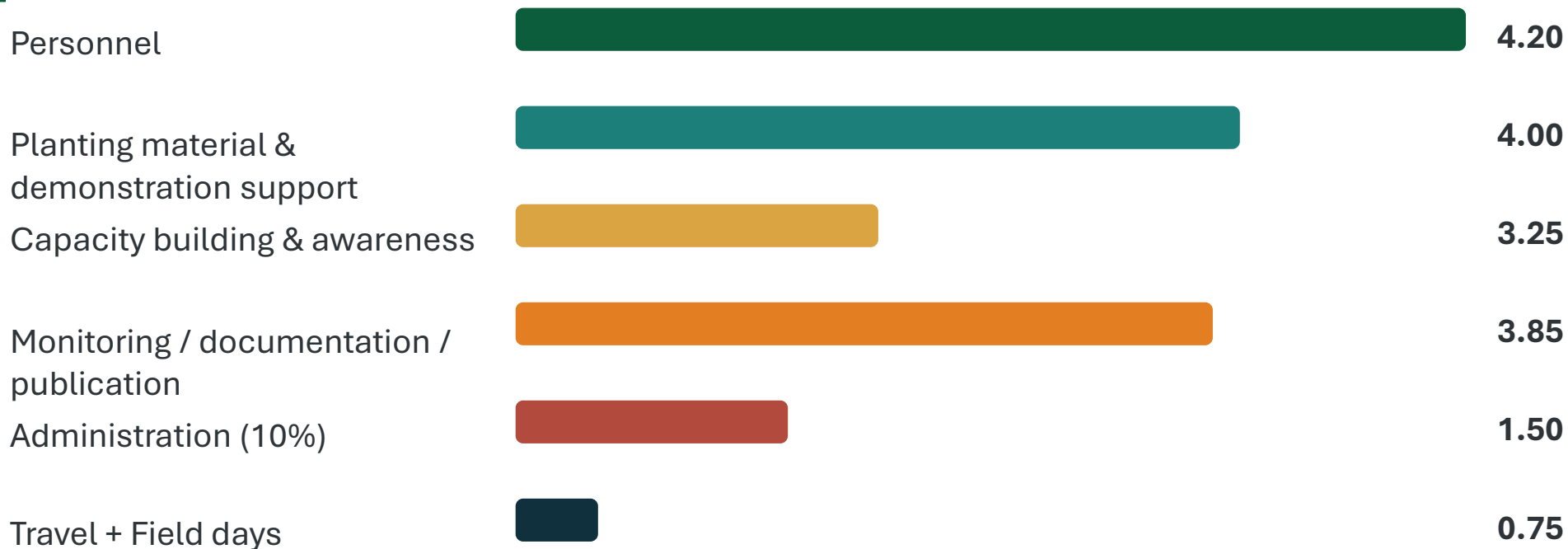
- ✓ 4 demonstration sites establishment
- ✓ 200–500 farmers training
- ✓ 2-3 knowledge products development
- ✓ Improved awareness among participating farmers
- ✓ Plant survival and corrective actions tracked

Immediate next steps

Finalize sites • complete baseline • issue planting plan • procure quality planting material • launch first orchard establishment

8. Budget summary, risk & mitigation strategy:

Year-1 total: ₹17.55 lakh



Key risks and mitigation

Delayed planting material

Pre-book with validated nurseries; maintain backup suppliers.

Gradual adoption

Cascade training, field days, farmer-to-farmer learning and advisories.

Plant mortality / water stress

Mulching, moisture conservation, gap filling and site-wise care.

Budget shortage

Expense above allocated budget shall be met through university budget.



Thanks