



CFI Research Grant Planning Workshop

16-18 June 2026
Jain Hills, Jalgaon

Presenter: Dr. Rajeev Kumar Narolia

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1. Project Snapshot

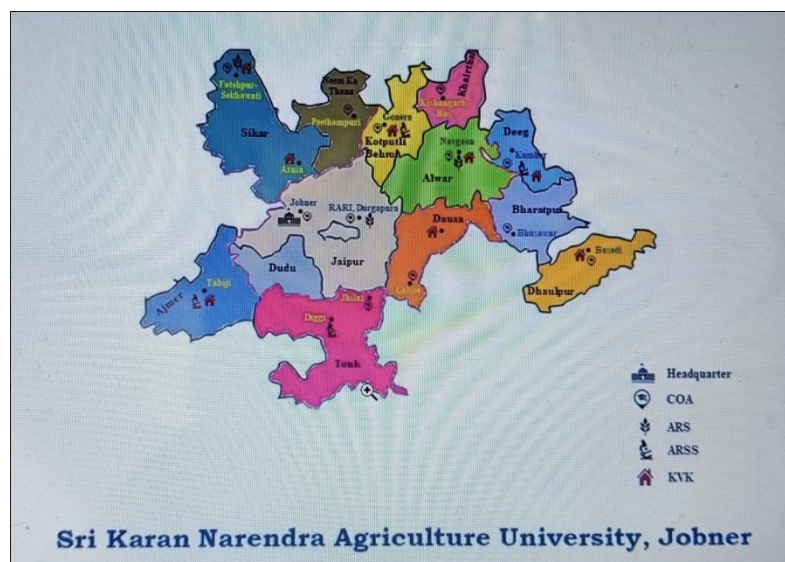


- **Project title:** *Promotion of fruit-based agroforestry for efficient land use, nutrition and value addition in semi-arid Rajasthan*
- **Institution:** Sri Karan Narendra Agriculture University, Jobner-Jaipur (Rajasthan)
- **Principal Investigator:** Dr. R. K. Narolia
- **Project duration:** 2 Years (2026-27 & 2027-28)
- **Budget:** INR 20,00,000 / 21,978 USD
- **Project location(s):** Rajasthan, Districts-Jaipur & Alwar

2. Landscape, problem statement & target communities



- **Agroecological context:** Semi-arid region of Rajasthan (rainfed, focused on millet and pulses, with declining groundwater and increasing salinity issues)
- **Key challenges being addressed:** High salinity, land degradation, limited tree cover, nutrient deficiencies, less availability of quality planting materials, lack of fruit nutrition values awareness and post harvest management of fruits
- **Target beneficiaries:** Approx. 250 households families (including women, youth, SC/ST communities)
- **Project landscape:**



3. Year-1 Implementation plan

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



- **Site establishment:** Fruit based agro-forestry model at KVK Navgaon, Alwar
Fruit plantation programs/promotional campaign at surrounding of the Sambhar Lake-Ramsar site
- **Nursery development activities:** Strengthens to Nursery Unit at SKN COA, Jobner for frequent availability of quality planting materials.
- **Demonstrations sites:** Distribution of quality planting materials, Training programs, nutrition awareness campaigns, Field days, Technical guidance, Literature distribution
- **Capacity building programme planned:** Nursery and orchard management, Fruit production, Post harvest management etc.
- **Target community engagement:** Maintenance of orchards

4. Fruit Species and production models



- **Key fruit species promoted:** Ber (*Ziziphus mauritiana*), Karonda (*Carissa carandus*), Lasoda (*Cordia myxa*), Lime (*Citrus aurantifolia*), Lemon (*Citrus limon*), Jamun (*Syzygium cumini* L.), Pomegranate (*Punica granatum*), Papaya (*Carica papaya*), Ker (*Capparis decidua*), Phalsa (*Grewia asiatica*), Aonla (*Emblica officinalis*), Bael (*Aegle marmelos*), Fig (*Ficus racemose*), Guava (*Psidium guajava*), Mango (*Mangifera indica*), Sahjan (*Moringa oleifera*), Dragon fruit (*Selenicereus undatus*), Khejri (*Prosopis cineraria*) and Pilu (*Salvadora oleoides*).
- **Production systems to be demonstrated:** Fruit based Agro-forestry systems, Homestead orchards, School gardens

5. Year-1 Targets and deliverables :



Key Performance Indicator	Target (Absolute number)
Villages covered	5
Households reached	150
Women beneficiaries	>60 % participants
Youth beneficiaries	> 50 % participants
Trees planted	1500-2000
Fruit species promoted	18
Trainings planned	05
Nurseries established	01

6. Collaboration Opportunities (Offer and Ask)



What we can offer	Support we need
Established nursery	Maintenance support
Land for fruits based Agro-forestry system	Species identification
Polyhouses/Net houses	Repairing cost
Planting materials	Maintenance cost
Collected germplasm /varieties	Technical guidance
Training hall/facilities	Market linkage
Scientific/Technical expertise	Nutrition monitoring
Nursery protocols	Documentation support
Community mobilization	MEL support
Communication support	Baseline methodologies

7. Baseline, MEL and Next Steps :

- ✓ A **baseline survey** already conducted in the project villages by the organization and Gram Chetna Kendra.
- ✓ A **midline assessment** will be conducted at the end of year to review progress (through sample family surveys, focus group discussions, and field observations) in fruit plantation survival, model adoption, and changes in family fruit consumption etc.
- ✓ The **endline evaluation** will take place in the last quarter of second year to measure overall outcomes.
- ✓ Documentation to capture field experiences and generate evidence on how fruit-based agroforestry interventions can improve nutrition, livelihoods, and ecological health in villages.



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	Gender sensitization; flexible schedules; incentives and childcare support
Operational	Delays in procurement, planting material supply or data collection	Low	Nursery buffer stock; recruit local enumerators, Help from AICRP on AFZ
Market/Economic	Low fruit prices or lack of buyers for surplus fruits	Low	Market assessment; value addition training; link with local vendors and institutional buyers

9. Budget summary

Cost Description	Total Cost (USD)	2026 (USD)	2026 (INR)
Personnel	7,500	3000.00	285540.00
Supplies & Services, including Planting material and field trials	7,080	2832.00	269549.76
Travel (only project related)	1,200	480.00	45686.40
Monitoring, documentation and publication	700	280.00	26650.40
Training & awareness Workshops	2,100	840.00	79951.20
Equipment, including irrigation structures	0.00	0.00	0.00
Field days	1,400	560.00	53300.80
Overhead/Administration charges (10%)	1,998	799.20	76067.86
Total	21,978	8791.20	836746.42



Thanks