Government Project Proposal for ***"Establishment of Hi-Tech Custom Hiring Center (CHC) for Precision Farming & Drone Services."***

Client: ABC Farmers Producer Company Ltd. (FPO)

Location: Nashik District, Maharashtra

Target Scheme: Agriculture Infrastructure Fund (AIF) and NABARD

Background: An FPO representing 500+ small-holder farmers cultivating grapes and onions. They wish to modernize their operations but lack capital. They identified the Agriculture Infrastructure Fund (AIF), a Central Sector Scheme providing medium-long term debt financing for post-harvest management infrastructure and community farming assets. They specifically want to establish a "Hi-Tech Custom Hiring Center (CHC)" equipped with agricultural drones for spraying and multispectral imaging for crop health monitoring.

Prepared by: Temkars Agri-Tech & Geospatial Consultancy, Pune

Email: contact@temkars.in Contact: +91 9028541024 www.temkars.in

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"Establishment of Hi-Tech Custom Hiring Center (CHC) for Precision Farming & Drone Services"

1.0 EXECUTIVE SUMMARY

1.1 Project Title:

Hi-Tech Custom Hiring Center: Integrating Drones & Geospatial Technology for Precision Farming

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1.2 Applicant:

ABC Farmers Producer Company Ltd. (FPO)

Attribute	Details
Legal Status	Producer Company under Companies Act 2013 (Section 465)
CIN / Registration Number	[Insert CIN]
Date of Incorporation	[DD/MM/YYYY]
Registered Office	[Full postal address, Nashik, Maharashtra]
Membership Base	500+ small and marginal farmers
Key Crops	Grapes (1,200 acres), Onions (400 acres), Vegetables (400 acres)

Figure 1. FPO Membership Distribution by Crop Type [Insert pie chart: Grapes 60%, Onions 20%, Vegetables 20%]

1.3 Location

Project Location: Nashik District, Maharashtra

Location Advantages:

Parameter	Details
Proximity to Member Farms	2,000+ acres within 10–15 km radius
Connectivity	State Highway 10 & NH 60 for easy logistics
Access to Vendors	DGCA-certified drone manufacturers and GIS software vendors within 100 km
Power & Infrastructure	Reliable electricity; site suitable for drone charging hub and office setup

Figure 2. Proposed CHC Location Map [Insert schematic showing CHC center, nearby farms, transport routes]

1.4 Key Project Components

Component	Quantity	Description & Purpose
Agricultural Drones	2 Units	DGCA Type-Certified, 10L & 16L payload, GPS-guided, collision avoidance radar
Multispectral Imaging Sensors	2 Units	NDVI/NDRE capable, for crop health monitoring & stress detection
GIS Data Lab	1 Unit	PC workstation with GIS & drone analytics software, flight planning, and precision mapping
Transport Vehicle	1 Unit	Customized for drone storage, field deployment, and battery logistics
Charging Hub & Generator	1 Unit	Ensures uninterrupted drone operations in remote fields
Pilot Training & Licensing	6 persons	Certified Drone Pilots for operational deployment

Figure 3. CHC Infrastructure Schematic [Insert diagram showing drones, sensors, GIS lab, vehicle, and charging hub layout]

1.5 Financial Overview

Particulars	Amount (₹ Lakhs)	Remarks
Total Project Cost	25.00	Includes machinery, infrastructure, vehicle, working capital, and contingency
Bank Loan (AIF/NABARD)	22.50	90% of total cost; eligible for 3% interest subvention
Promoter Contribution	2.50	10% of total project cost from FPO members

Figure 4. Project Cost Distribution [Insert pie chart: Machinery 64%, Infrastructure 16%, Vehicle 12%, Contingency & Working Capital 8%]

Cost Breakdown Details:

Component	Cost (₹ Lakhs)	% of Total Cost
Machinery (Drones & Sensors)	16.00	64%
Infrastructure (Charging Hub & Office)	4.00	16%
Vehicle (Modifications for Drone Transport)	3.00	12%
Contingency & Working Capital	2.00	8%
Total	25.00	100%

1.6 Expected Outcomes

1. Cost Reduction:
    - Precision spraying reduces input wastage; estimated 20% reduction in labor and input cost per acre.
2. Operational Efficiency:
    - 1 Drone covers 20 acres/day, compared to 2 acres/day manually.
    - Faster spraying ensures timely interventions, improving yield and quality.
3. Skill Development & Employment Generation:
    - 6 trained drone pilots and 2 GIS analysts employed locally.
    - Upskilling rural youth, enhancing technical literacy in precision agriculture.
4. Environmental Sustainability:
    - Reduced chemical overuse; better soil & water protection.
    - Data-driven monitoring supports sustainable agriculture practices.
5. Replicability & Scalability:
    - CHC model can be extended to nearby clusters, benefiting 5,000+ acres over time.

Figure 5. Expected Benefits from CHC Project [Insert flow diagram showing Cost Reduction → Efficiency → Employment → Sustainability → Scalability]

1.7 Strategic Highlights

Feature	Bank / NABARD Relevance
Addresses Technical Gap	Provides high-cost technology to small/marginal farmers via shared CHC model
Ensures Economic Viability	DSCR projected at 1.65 (>1.25 required), IRR 24%, Break-even at 38% capacity utilization
Aligns with National Goals	Promotes Modernization of Agriculture, Community Farming Assets, and Sustainable Practices
Financially Bankable	Strong promoter contribution, clean credit record, and verified operational data
Employment & Skill Creation	Aligns with rural employment and technology adoption initiatives

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Key Message for Reviewers:

The proposed Hi-Tech CHC addresses labor shortages, health risks, high input costs, and lack of scientific crop monitoring for smallholder farmers in Nashik. With a bankable financial model, replicable technology platform, and community-oriented structure, the project is fully aligned with the AIF Community Farming Assets mandate and is suitable for NABARD grant and loan support.

2.0 Applicant Profile (The Borrower)

2.1 Entity Details

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