

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.

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## **“Establishment of Hi-Tech Custom Hiring Center (CHC) for Precision Farming & Drone Services”**

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## 1.0 EXECUTIVE SUMMARY

### 1.1 Project Title:

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

### 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%
<b>Total</b>	<b>25.00</b>	<b>100%</b>

## 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

<b>Feature</b>	<b>Bank / NABARD Relevance</b>
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.

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## **2.0 Applicant Profile (The Borrower)**

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### **2.1 Entity Details**

*Temkars Agri-Tech & Geospatial Consultancy*

***Contact us for Full Report....***