



Unsung Heroes
Ventures For Humanity

Unsung Heroes - Global Education Mentorship Programme

#ConnectForGlobalChange



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PROPOSAL OF THE SOLUTION

PROPOSAL OF THE SOLUTION includes

1. diagnosis of the problem,
2. verification of the target group,
3. description of the idea, for example an educational initiative, digital tool, or social action,
4. expected social impact,
5. implementation potential and the resources needed to carry it out.



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GROUP 2

COUNTRY

TYPE OF PROJECT

MAIN FOCUS

Bangladesh

TECH start-up

Agro-Tech &
Education



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The Challenge



885,000

University Graduates Unemployed

The Graduate Unemployment Trap

Nearly 0.9 million educated young people remain jobless (BBS Labour Force Survey 2024), creating severe anxiety among students and families about the value of continuing education.



1.0 Million+

Students at Dropout Risk

Poverty-Driven School Dropouts

Over 1 million high school students (aged 12–18) from low-income families face imminent educational disruption due to extreme financial hardship, forcing many into low-wage daily labor.

Introduction

What is Agro Tech Smart Village?

Agro Tech Smart Village is a community-based social enterprise operating in a rural village of Bangladesh, focused on eliminating educated unemployment and poverty-driven school dropout by transforming vulnerable households into self-sustaining micro-farming units. It keeps students aged 12–18 enrolled in school by creating sustainable agro-tech income for their families.



Education First

Keeps students aged 12-18 enrolled by relieving household financial pressure through agro-tech income generation.



Household Enterprise

Equips underprivileged families with tools, training and starter materials across three farming tracks.



Community Resilience

Builds a replicable, scalable model that improves local food security and reduces youth vulnerability across rural Bangladesh.

Materials distributed only when parent AND student complete training together — forming a resilient economic safety net at home.

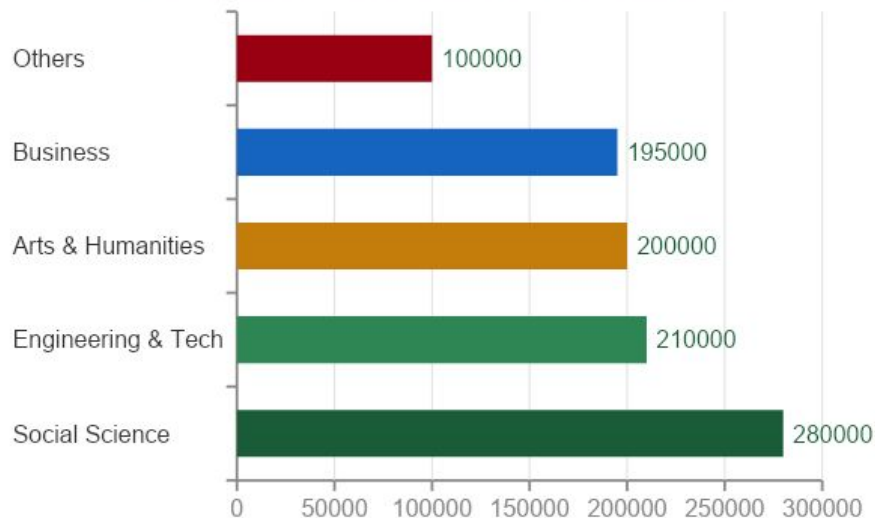
Diagnosis of the Problem

Key Facts

- According to BBS Labour Force Survey 2024, approximately 885,000 university graduates are unemployed — nearly 0.9 million educated young people with degrees but no jobs.
- Root Cause 1: Book-centred education produces graduates with theoretical knowledge but no practical, market-ready skills.
- Root Cause 2: Formal job market lacks absorptive capacity — especially outside Dhaka city.
- Root Cause 3: Rural families rely on outdated farming methods, limiting income and food security.
- Root Cause 4: No culture of self-employment or entrepreneurship in current educational framework.
- Root Cause 5: Gender barriers compound unemployment for educated women in rural communities.

Source: BBS Labour Force Survey 2024

Graduate Unemployment – Bangladesh 2024



Verification of the Target Group

The Student Pivot

Primary Eligibility Criteria

- Actively enrolled in high school (Classes 8–10) (Ages 12–18)
- High dropout risk: absenteeism, delayed fees, or pressure to leave for wage labour
- Classified as underprivileged by school management committee

Parent–Student Unit

- Joint commitment to co-manage the farm
- Parents must be underemployed or lack stable income

Agricultural Feasibility

Field visit verifies which farming track fits each household

Agriculture Farming

homestead plot / leased land, quality soil & sunlight

Poultry Farming

Secure area for shed/micro-coop with ventilation

Fish Farming

Homestead pond, community water body, or aquaculture tank

Agro Tech Smart Village

Objectives of Three Targeted Agro-Tech Tracks: Agriculture Farming, Poultry Rearing, and pond fish cultivation

- **Improved nutritional status of households**
- **Enhanced household food security**
- **Increased employment and income opportunities**
- **Strengthened social and economic empowerment of women and communities**

Materials distributed only when parent AND student complete training together — forming a resilient economic safety net at home.

Agro Tech Smart Village

Objectives & Intervention — Three Targeted Agro-Tech Tracks



A. Agriculture Farming

Homestead/ Leased Land

Homestead Food Production:

- Nutrient-dense vegetable production
- Innovative and high-value crop cultivation using agricultural good practices.
- Students (aged 12-18) manage tech application and tracking while parents handle daily cultivation techniques.
- Introduce climate-smart agriculture
- Safe food production.
- Using mobile apps and digital platforms
- Water and soil management. Pest control-IPM
- Organic fertilizer –vermicompost
- Collaboration with govt.(DAE) and private inputs seller
- Business plan and record keeping



B. Poultry Farming

Micro-Coop Setup

- Small-scale duck and local chicken rearing for meat and egg production.
- Introduce improved poultry rearing practices.
- Shed and feed management
- Create Community/Local Service Providers-LSP to ensure vaccine and disease control
- Collaboration with govt. (DLS) and the private sectors
- Parents manage daily feeding and biosecurity; students maintain stock inventory and health monitoring.



C. Fish Farming

Homestead Pond / Aquaculture Tank

- Aquaculture setups for local species using homestead ponds or tanks.
- Pond or tank preparation
- Fingerlings add to the pond/tank
- Parents handle water quality and netting; students manage feeding schedules and weight tracking.
- Fingerling stocking and feeding management.
- Harvesting
- Business plan and record keeping
- Collaboration with govt. and the private sectors

Materials distributed only when parent AND student complete training together — forming a resilient economic safety net at home.

Training Curriculum-revised completely

5-Day Intensive Agro-Tech Programme | Target: Students aged 12-18 | 9:00 AM – 4:00 PM daily

Day	Focus Area	Key Topics Covered	Method
Day 1	Homestead Vegetable and high value crops Production	Introduction to Homestead Vegetable and High-Value Crop Production Crop Selection, Production Planning, and Homestead Garden Design Land Preparation, Soil Fertility, and Crop Establishment. Climate smart ag practices.	Lecture + Demo + Hands-on
Day 2	Continue production techniques, soil, and water management, IPM, business plan and marketing	Water Management and Integrated Pest management (IPM), high-Value Vegetables production and harvesting, Post-Harvest Handling, Storage, and Value Addition Marketing, Farm Business Management, and Record Keeping, Practical Demonstration, and Action Planning	Lecture + Demo + Hands-on
Day 3	Duck and chicken rearing	Introduction to Duck and Chicken Rearing and Enterprise Planning Selection of Suitable local Breeds and Chick/Duckling Management Housing Design, Biosecurity, and Water Management Brooding	Lecture + Discussion + Practical
Day 4	Continue improved production practices, Shed and feed management, vaccination, bio-security , business plan and marketing	Disease Prevention, Vaccination, and Egg Production, and Hatchability Management, Environmental Hygiene, and Climate-Resilient Poultry Practices Marketing, Farm Business Management, and Record Keeping Practical Demonstrations, and Action Planning	Lecture + Demo + Practical
Day 5	Pond fish farming , feed, fingerlings and water quality management	Pond Preparation, Site Selection, and Stocking of Quality Fingerlings Water Quality, Pond Fertilization, and Natural Feed Management, Fish Feed, Feeding Practices, and Fish Health, Disease Prevention, and Climate-Resilient Pond Management Harvesting, Post-Harvest Handling, Marketing, and Farm Record Keeping, Action planning	Lecture + Demo + Practical

Implementation Plan — 5-Step Process

Phase 1 | 12-Month Timeline

1

Assessment

Days 1–20

Baseline study, community mapping, school & family profiling, dropout risk surveys.

2

Material Preparation

Month 1

Develop training curriculum, prepare agro-tech toolkits and starter kits.

3

Sharing Meeting

Month 1 (Late)

Community awareness, parent engagement, govt. dept. coordination.

4

Training

Month 2

12-week agro-tech sessions for students & parents across all three tracks.

5

Implementation

Months 3–12

Farm launch, micro-investment, M&E, SDG alignment reporting.



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Expected Social Impact

Stabilizing family income removes the pressure on children to work — directly enabling academic continuity.



Minimized Dropout Rates

Vulnerable secondary students (aged 12–18) remain consistently enrolled, safely completing their high school certificates.



Immediate Poverty Alleviation

Underutilized household space and labor converted into active micro-enterprises, reducing income volatility.



Youth Entrepreneurship and Economic Development

Students acquire robust agribusiness skills — a reliable economic safety net beyond future graduate job markets. That will increase economic and social acceptance.



Food Security

Steady supply of fresh vegetables, eggs, and fish improves dietary health for families and local neighborhoods.



Women Empowerment

SDG Alignment:

SDG 1

SDG 4

SDG 5

SDG 8

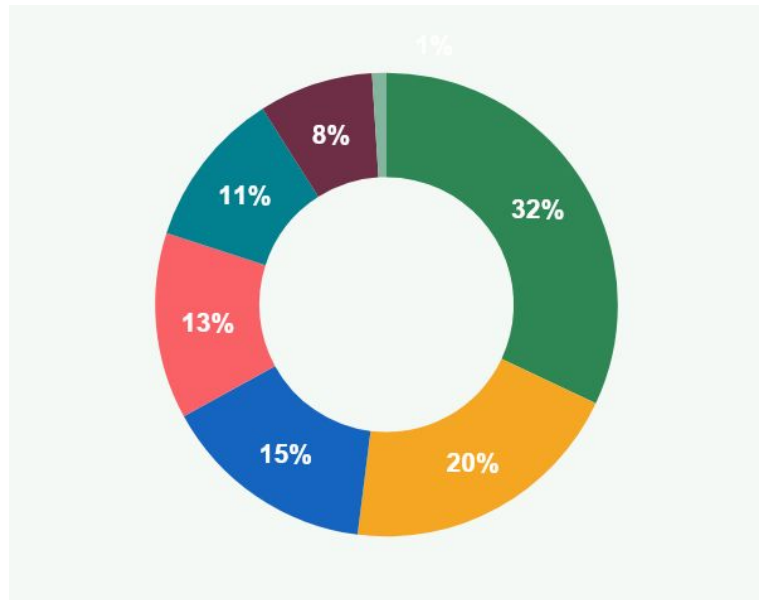
SDG 10

SDG 17



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Budget Allocation — Phase 1



	Agro-Tech Starter Kits	32%
	Capacity Building & Training	20%
	Monitoring & Field Operations	15%
	Energy & Transport Support	13%
	Health Access Programme	11%
	Administrative & Contingencies	8%
	Stationeries & Finance Charges	1%

Total: EUR 10,000 | Phase 1 | 12 Months

People in the Project

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