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# ReCAMA

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11<sup>th</sup> Member Meeting

Presented By

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President

**Agricultural Machinery Manufacturers Association Bangladesh  
(AMMAB)**





# AMMA-B” at a Glance

The Agricultural Machinery Manufacturers’ Association – Bangladesh (AMMA-B) was established in **2005** to serves as the **sole parent association** for Bangladesh’s agricultural machinery manufacturing industry. It works to promote innovation, quality standards, and sustainable mechanization for Bangladesh agriculture sector.

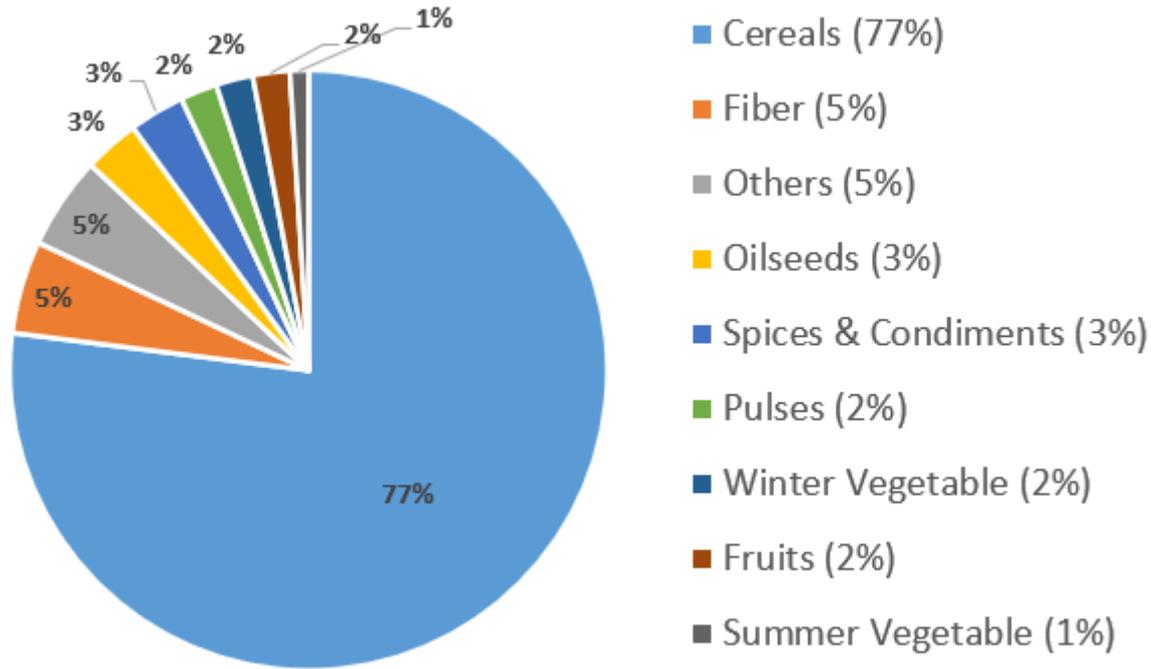


Encouraging the Agricultural Machinery Manufacturing Companies in Bangladesh to manufacture Agricultural Machinery locally.

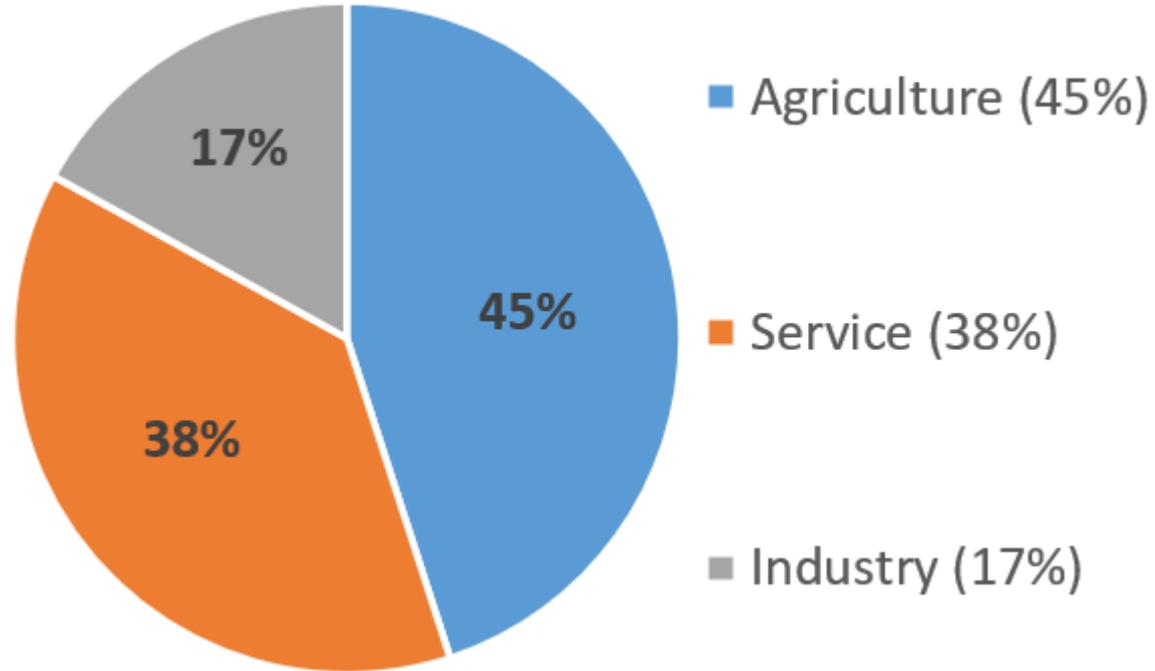


Manufacturing Quality Agricultural Machinery as per the Farmers’ Demand and Conveniences.

# Current Agriculture Scenery

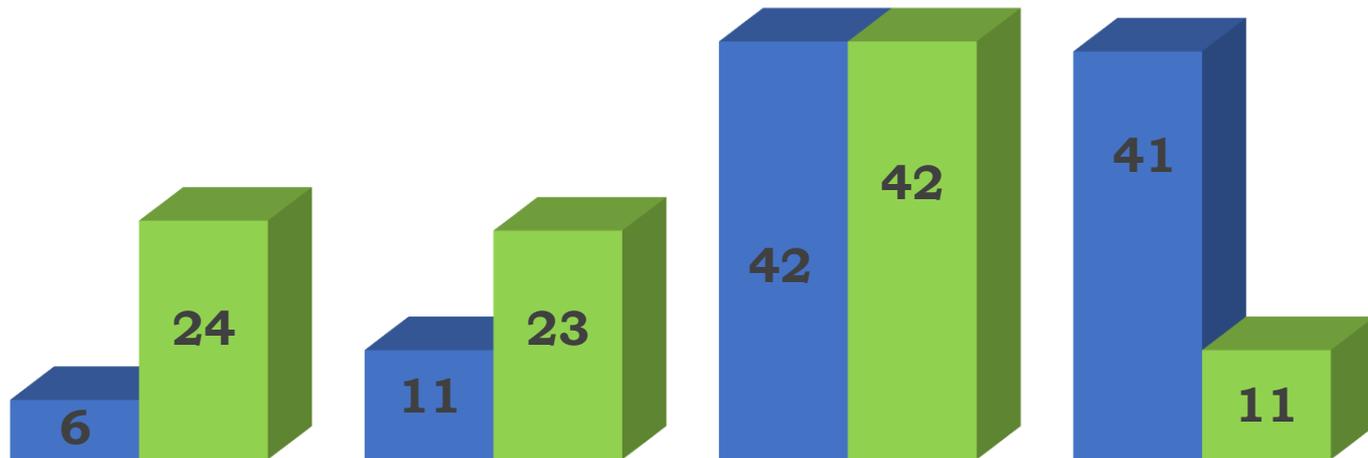


# Sector wise Employment Generation



Source : BBS 2023

# Land Split Among Farmers (Source: IFPRI, 2024)



Large Farmers (2.5 Acres & Above)

Medium Farmers (1.5 - 2.49 Acres)

Small Farmers (0.5 - 1.49 Acres)

Marginal Farmers (Less than 0.5 Acres)

**Farmers**

**Holding Lands**



# Agriculture Mechanization

Operation	% of Mechanization
Land Preparation	95%
Sowing & Planting	15%
Plant Protection	60%
Irrigation	85%
Harvesting	20%
Threshing	100%



# Policies Promoting Cutting-edge Technologies

- Government prioritizes **targeted mechanization** to address field-level needs
- **Agricultural Mechanization Policy 2020** serves as the roadmap for smart mechanization
- Import **duty concessions** on machinery parts and components
- **R&D support** for manufacturers and stronger collaboration with universities and research bodies
- Promotion of **IoT, GPS, AI, and drone technologies** in agriculture



# Key Technological Innovations Adopted

- **Precision Tools:** GPS-guided combine harvesters, tractors, and soil sensors
- **Drones:** Used for spraying, mapping, pest management, and yield estimation
- **Automation:** Rice transplanters and combine harvesters
- **ICT Integration:** Mobile apps and machine-sharing platforms for better access and efficiency
- **Localization:** Development of local manufacturing capacity for parts and components



# R&D and Innovation Priorities

- **Seedling and harvesting machinery** tailored for local conditions
- **Adaptation for small plots and muddy soils** to ensure higher efficiency
- **Energy-efficient and battery-powered units** promoting sustainable mechanization
- **GIS and remote sensing** used for real-time field monitoring and planning
- **Public-private research collaborations** to advance local innovation
- **Promotion of “Made-in-Bangladesh”** small and medium-scale machinery for local farmers



# Case Study : Drone Application for Crop Spraying

- **MoA and startups** introducing agri-drones for crop spraying
- Achieved up to **60% reduction** in chemical use with faster field coverage
- **Collaborative Partners:** DAE, startups, and Chinese technology suppliers
- **Next Steps:** Local drone assembly and operator training programs





# Key Challenges and Constraints

- **High cost** of imported parts and electronic components
- **Shortage of skilled technicians** for maintenance and operation
- **Underdeveloped backward linkage industries** limiting local production
- **Insufficient R&D funding** and **Weak intellectual property protection**
- **Fragmented land holdings** reducing scalability of mechanization



# Thanks!

Do you have any questions?

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