ICARDA
Science for resilient livelihoods in dry areas

Request for Proposal (RFP)
for
[Construction of Farm Shed/ Covered Machinery Shed with Rodent Proof Compartment]

Ref.: ICARDA/RFP/FLRPFARMSHED/2026-27

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About ICARDA

The International Centre for Agricultural Research in the Dry Areas (ICARDA, or the Centre) is a global research-for-development organization with a not-for-profit business model. We envision thriving and resilient livelihoods in dryland communities of the developing world coming with robust incomes, secure access to food, markets, nutrition and health and the capacity to manage natural resources in equitable, sustainable and innovative ways. Since its establishment in 1975 as a treaty-based international organization, founded by the World Bank (IBRD), FAO, UNDP and IDRC, ICARDA has implemented research for development programs in more than 50 countries in the world's dry areas, spanning from Morocco in North Africa to Bangladesh in South Asia.

ICARDA is one of 15 CGIAR Research Centres. CGIAR Research works to create a better future for the world's poor. As the world's largest global agricultural innovation network, CGIAR brings evidence to policy makers, innovation to partners, and new tools to harness the economic, environmental and nutritional power of agriculture. Information about the CGIAR can be obtained from www.cgiar.org. ICARDA works through a network of partnerships with national, regional and international institutions, universities, non-governmental organizations and governments in the developing world, and advanced research institutes in industrialized countries.

ICARDA operates a decentralized business model, using information systems deployed in the cloud and accessible by all locations, with oversight and management support, finance, human resource, procurement and information technology and communications provided from Cairo, Egypt. ICARDA's temporary headquarters are in Beirut, Lebanon. Additionally, it has entered into hosting agreements with the countries where it operates, including Afghanistan, Egypt, Ethiopia, India, Jordan, Lebanon, Morocco, Pakistan, Sudan, Tunisia, Turkey, United Arab Emirates and Uzbekistan. More information about the operations of ICARDA can be obtained from www.icarda.org

Description of Services

Background

ICARDA-India operates a research farm at Amlaha, District-Sehore, M.P. that requires a covered shelter for the safe parking, movement, and maintenance of existing and future farm machinery, implements, and vehicles. The site is currently low-lying and must be raised and compacted before construction. A section of the shed must also be protected against rodents so that high-value equipment, particularly the combine harvester, which contains extensive wiring and electronics, is not damaged.

The objective of this TOR is to engage a qualified contractor to design, supply, construct, and hand over the shed on a turnkey basis.

Work to be performed and deliverables

Scope of Work

The contractor shall carry out all design, materials, labour, equipment, testing, and handover required for the following:

1. Construction of a dome-shaped covered shelter of approximately **25 m × 35 m (875 m²)** with a height of **6 m** at [ridge / eaves].
2. Earth filling with muram to raise the ground level by **50–70 cm**, followed by proper compaction.
3. Reinforced concrete flooring of **150 mm (6 inch)** over the entire floor area.
4. Roofing on an MS pipe structural frame, using either GI sheets or tensile fabric (see Section 4.5).
5. Electrical installation, including lighting, fans, power points, and sockets, wherever required.
6. Roof drainage with gutters, downspouts, and a perimeter drain.
7. Rodent-proof compartments.
8. Handover with drawings, test certificates, and warranties.

The contractor may propose an optimized design and specifications, provided all functional and minimum technical requirements in this TOR are met or exceeded, and every deviation is stated in writing (Section 8).

Site Information

Item	Detail
Site address	
Shed footprint	25 m × 35 m; the [25 m / 35 m] side is the clear span
Front (open side) faces	[Direction]
Existing ground condition	Low-lying; requires raising by 50–70 cm
Access to site	[Road type, restrictions for heavy vehicles]
Water and power for construction	[Provided by owner / contractor's responsibility]
Largest machine to be housed	Combine harvester, approx. [L × W × H] m

Note- Bidders may inspect the site at their own cost (with prior permission from ICARDA) or may write technical queries to satisfy themselves of site conditions, access, soil, and drainage, before quoting.

Technical Specifications

Structure and Layout

- Dome (curved profile) shed, **enclosed on both sides and the rear, with the front side fully open** for machinery and vehicle movement.
- Adequate ventilation openings on both sides and the rear for air circulation, fitted with bird/insect mesh where required, without compromising protection from rain and wind.
- Clear internal height and span sufficient for the largest existing machine, plus future machinery, with working clearance of at least [1.0] m around it.
- Because one side is open, the design must explicitly account for wind uplift and internal pressure for a partially open structure.

Design Basis and Structural Framework

- Frame of MS pipes/sections conforming to IS 1161 / IS 4923 or equivalent.
- Corrosion protection: hot-dip galvanizing, or one coat of epoxy primer plus two coats of synthetic enamel paint, minimum dry film.
- Design in accordance with relevant Indian Standards, including IS 800 (steel design), IS 875 Part 1, 2 and 3 (loads, including wind), and IS 1893 (seismic), using the basic wind speed for [Amlaha ,MP].
- Foundations designed for the site's soil conditions, with anchor bolts and base plates. A soil test/bearing capacity report shall be [provided by owner / arranged by contractor].
- Before starting work, the contractor shall submit General Arrangement drawings, structural calculations, and a **stability certificate signed by a qualified structural engineer**.

Earthwork (Filling and Compaction)

- Raise the ground by **50–70 cm** using good-quality muram, free from organic matter, clay lumps, and debris.
- Spread in layers of 150–200 mm, with moisture control and mechanical compaction to at least **95% of maximum dry density** (Standard Proctor). Field density tests shall be carried out at the locations per layer and the results shared with the owner.
- Extend the filled platform at least [1.0] m beyond the shed footprint on all sides, with a slope of away from the shed.
- Slope protection or edge retention as required to prevent erosion.

Flooring

- **150 mm (6 inch)** thick cement concrete floor, minimum grade **M25**, over a compacted base with polythene sheet moisture barrier.
- Reinforcement placed at mid-depth.
- Floor designed for heavy farm machinery, and point loads from jacks and stands during maintenance.
- Construction joints, contraction joints, and expansion joints at suitable intervals, sealed as required.
- Power-floated, non-slip finish; curing for at least 14 days; floor level tolerance of [±5 mm in 3 m].
- Minimum [150] mm floor-level rise above surrounding finished ground.

Roofing

Bidders shall quote **both options separately**.

Parameter	Option A: GI Sheet	Option B: Tensile Fabric
Material	Colour-coated GI/GL sheet	PVC/PVDF-coated polyester tensile fabric
Minimum specification	[0.5] mm thickness; [120–275] GSM zinc/Al-Zn coating	UV-stabilized, fire-retardant, anti-fungal
Fixing	Self-drilling screws with sealing washers; ridge and flashing	Cable/pipe tensioning system with galvanized fittings
Warranty	Minimum [10] years against corrosion and colour fade	Minimum [10] years against UV degradation and tearing

The roof must be watertight and designed for strong winds and heavy rainfall. Translucent sheets/panels for natural daylight may be proposed.

Drainage

- Roof gutters and downspouts of adequate size for the local peak rainfall with leaf guards.
- Downspouts connected to a perimeter drain or soak pit, with a defined discharge point away from the shed so that no water collects around the structure.

Electrical Installation

- Work shall comply with the Indian Electricity Rules and relevant IS codes. All materials shall be ISI-marked (wires, switches, MCBs, conduits) from reputed makes.
- Concealed or surface conduit wiring with copper conductors; distribution board with MCBs, RCCB, and surge protection.
- LED lighting for an average of at least [100–150] lux on the floor, plus external lighting at the open front.
- **Ceiling/wall fans (industrial type),** single-phase socket points, and three-phase industrial socket points for tools and welding.
- Proper earthing as per IS 3043, and lightning protection as per IS/IEC 62305 wherever required.
- Fixtures and sockets with a suitable IP rating for dusty and humid conditions.
- A separate lighting and socket circuit for the rodent-proof compartment.
- Electrical load calculation, single-line diagram, and test reports (insulation resistance, earth resistance) to be submitted.

Rodent-Proof Compartments (2)

- Each with a depth of 10 meters and a width of 4.5 meters. The height should match the existing shed height. The compartments should be constructed with plain iron sheets on the lower two-thirds portion and steel mesh sheets on the upper one-third portion to ensure proper ventilation. Each compartment should also be provided with a suitable gate for secure access
- All ventilation openings covered with galvanized mesh of 6 mm opening or finer. Roof-to-wall joints, sheet overlaps, and conduit and wiring penetrations shall be sealed with metal flashing or rodent-resistant sealant.
- Interior lighting and sockets as per Section 4.7.

Deliverables

1. Site mobilization plan and construction schedule.
2. General Arrangement and structural drawings, structural calculations, and engineer's stability certificate.
3. Material approval submittals (steel, roofing, cement, electrical items).
4. Soil/compaction and concrete test reports (cube tests, field density tests).
5. Completed shed, flooring, drainage, electrical, and rodent-proof compartment as per this TOR.
6. As-built drawings, electrical test reports, warranty certificates, and operation and maintenance guidelines.

Timeline

Milestone	Timeline
Mobilization and submittal of drawings	Within 5 days of award
Earthwork and compaction completed	Within 15 days of drawings approval
Structure and roof erected	Within 30 days of award
Flooring, electrical, drainage, rodent-proof compartment	Within 45 days of award
Completion and handover	**Maximum 60 days from date of award**

The contractor shall account for the monsoon season and local weather in the schedule. Delay beyond the agreed completion date is subject to liquidated damages of [0.5]% of contract value per week, up to a maximum of [10]%.

Warranty and Defect Liability

- Defect liability period of **[12–24] months** from handover, during which the contractor shall rectify defects at its own cost.
- Structural warranty of minimum 5 years; roofing and coating warranties as per OEM.

Health, Safety, and Environment

- Contractor shall follow all applicable safety norms, provide PPE to workers, and ensure safe working at height and during excavation, welding, and electrical work.
- Contractor is responsible for site safety, workers' insurance, and third-party liability insurance.
- No child labour or forced labour. Compliance with applicable labour laws and the organisation's code of conduct, including its policies on [fraud, corruption, and sexual exploitation and abuse.
- Construction debris and surplus materials shall be removed, and the site left clean on completion.

Bid Data Sheet

No	Data	Specific Instructions
1	Language of the Proposal	English
2	Proposal Validity Period	90 Days
3	Currency of Proposal	INR
5	Deadline for Proposal Submission	17-11-2026

6	Contact Details for submitting clarifications/questions	E-mail: d.sharma@cgiar.org
7	Contact Details for Proposal Submission	ICARDA Purchase & Supply Department E-mail: d.sharma@cgiar.org
8	Manner of Submitting Proposals	Electronic (by email) only
9	Electronic submission requirements	Format: PDF files only Pages must be numbered Subject of email: RFP: NO.
10	Evaluation Method for the Award of Contract	Technical & Financial
11	Maximum expected duration of contract	60 days
12	ICARDA will award the contract to:	Highest Scorer

Submission of proposals

Proposals should follow the template provided below and comply with the Bid Data Sheet instructions. Failure to follow the proposal structure or to comply with the instructions in this Request for Proposal and the Bid Data Sheet will be at the bidder's risk and may affect the evaluation of the proposal**.**

Cost of preparation and submission of the proposal

The bidder shall bear all costs associated with the preparation and submission of the proposal, including but not limited to the possible cost of discussing the proposal with ICARDA and negotiating a contract. ICARDA will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the selection process.

Selection of bidders

Bidders are requested to provide the most appropriate and most cost-effective solution to meet the requirements.

Selection Criteria:

Criterion	Weight
Technical compliance and quality of design and material	50%
Relevant experience and past performance	
Work plan and timeline	
Financial offer	50%
Total	**100%**

Bid Submission Template

Bidders must submit their proposal following the template below:

1. Disclosure form
2. Profile of the bidder
3. Technical proposal
4. Financial proposal

Technical Proposal

- Company profile, registrations, and experience certificates.
- Client References (with email and contact details).
- Proposed design, drawings, and material specifications for both roofing options.
- Methodology, work plan, and manpower deployment.
- Compliance statement against this TOR, clause by clause, listing all deviations or proposed optimizations.
- Identified Risks & Plan of Mitigation
- Site visit confirmation.

Financial Proposal (sample available on last page of this document)

- Sample Financial Templet Financial_Bid_Template_Machinery_Shed (1).xlsx

Disclosure Form

To be completed by a duly authorized representative of the Bidder:

On behalf of (_____) (referred to in this document as "the Bidder"), I (_____) confirm that I am a duly authorized representative of the Bidder and hereby submit this proposal in response to ICARDA's Request for Proposal **RFP No. ICARDA/RFP/FLRPFARMSHED/2026-27** I confirm that I AM NOT aware of any relationship between the Bidder and an ICARDA employee which could result in potential personal gain for the ICARDA employee or which could enable the ICARDA employee to influence the Bidder relationship for perceived personal gain. I confirm that all statements and representations made in the proposal are true and correct.

Date submitted: _____

Submitted by: _____

Name and Title of Authorized Representative: _____

Date: _____

Signature

FINANCIAL BID TAMPLATE

Construction of Covered Farm Machinery Shed (approx. 25 m x 35 m, dome type, open front) with Two Rodent-Proof Compartments – Amlaha, MP

Name of Bidder	
Address / Contact	
GSTIN	
Bid Reference No. / Date	ICARDA/RFP/FLRPFARMSHED/2026-27 (15-10-2026)
Bid Validity (days)	90

S.No	Description of Work	Unit	Qty	Unit Rate (INR)	Amount (INR)	Remarks / Bidder Notes
A. COMMON WORKS (applicable to both roofing options)						
1	Design, GA drawings, structural calculations and stability certificate by qualified structural engineer (IS 800, IS 875 Pt 1-3, IS 1893)	LS	1.00		0.00	
2	Earthwork: supply, filling and compaction of muram, 50–70 cm raise, in 150–200 mm layers to 95% MDD, incl. density tests; platform extended 1.0 m beyond footprint	Cum	1.00		0.00	
3	Foundations: excavation, PCC, footings, anchor bolts and base plates	LS	1.00	1.00	1.00	
4	Supply, fabrication and erection of MS pipe/section frame (IS 1161 / IS 4923) with hot-dip galvanizing or epoxy primer + 2 coats enamel	LS	1.00		0.00	
5	150 mm thick M25 CC floor with polythene sheet, mid-depth reinforcement, joints, power-floated non-slip finish, 14-day curing	Sqm	1.00	1.00	1.00	
6	Roof drainage: gutters, downspouts, leaf guards, perimeter drain / soak pit	LS	1.00	1.00	1.00	
7	Electrical installation: wiring, DB with MCB/RCCB/SPD, LED lighting, fans, 1-ph and 3-ph sockets, earthing, lightning protection, load calc, SLD, test reports	LS	1.00	1.00	1.00	
8	2 Rodent-proof compartments: 10 m x 4.5 m each, plain iron sheet (lower 2/3) + steel mesh (upper 1/3), gate, 6 mm GI mesh, sealing, separate lighting/socket circuit	Nos	1.00	1.00	1.00	
	Sub-Total A (Common Works)				**5.00**	
B. ROOFING – OPTION 1: Colour-coated GI/GL Sheet						
B1	Supply and fixing of colour-coated GI/GL roofing: min 0.5 mm, zinc/Al-Zn coating, self-drilling screws with sealing washers, ridge, flashing; 10-yr warranty	Sqm	1.00		0.00	Qty = plan area; bidder to confirm developed roof area, any translucent panels
	Sub-Total B (Option 1)				**0.00**	
C. ROOFING – OPTION 2: PVC/PVDF-coated Tensile Fabric						
C1	Supply and fixing of UV-stabilized, fire-retardant, anti-fungal tensile fabric roof with cable/pipe tensioning system and galvanized fittings; 10-yr warranty	Sqm	1.00		0.00	Qty = plan area; bidder to confirm developed roof area
	Sub-Total C (Option 2)				**0.00**	
D. BID SUMMARY						
	GST rate (%)			18		Edit if applicable rate differs
	Summary			**Option 1 (GI Sheet)**	**Option 2 (Tensile Fabric)**	
	Common Works (A)			5.00	5.00	
	Roofing			0.00	0.00	
	Total before GST			**5.00**	**5.00**	
	GST			0.90	0.90	
	TOTAL BID PRICE incl. GST (INR)			**5.90**	**5.90**	
	Total in words (Option 1):					
	Total in words (Option 2):					

Declaration

- Rates are firm, in INR, and inclusive of all materials, labour, equipment, taxes (excl. GST shown above), transport, and incidentals.
- Any item not priced is deemed included in other rates. Unit rates and amounts must be filled for every item; do not alter the format.
- The bid is valid for the period stated above and prices are fixed during the contract period.

Authorized Signatory:

Name & Designation:

Date / Place:

Company Seal:

Legend: yellow cells = bidder to fill; blue text = inputs (Qty pre-filled by owner, editable). Amounts and totals are formulas.