TECHNICAL SPECIFICATIONS REQUIRED		TECHNICAL SPECIFICATIONS OFFERED	
		PLEASE FILL OUT **ALL THE SPACES** BELOW TO SPECIFY THE IMPLEMENTATION BEING OFFERED FOR **THE OFFER TO BE VALID**	
Item	**Description and purpose of the item**	**Make/ brand and model of item**	
Mobile living wagon	Mobile residential wagon on wheels with a hybrid solar power station for the needs of livestock farmers on rotational grazing lands.		
Unit	Mobile living wagon		
Total quantity of units required	2 (two)	**Name and address of the manufacturer of the item**	
Country	**Project code**		
Kazakhstan	GCP/KAZ/005/GFF		

1.0	**Technical Specifications:** ***General***	
1.1	Two mobile living wagons of different lengths, suitable for 1–3 herders per unit, for year-round operation, easily transportable by tractor or 4×4 pickup, and equipped with a hybrid solar energy system with battery storage. Unit 1 shall be approximately 6 metres long and Unit 2 approximately 9 metres long.	
1.2	Purpose-built for farms, grazing livestock, and remote operation.	
1.3	Overall dimension (LxWxH): - Unit 1: approx. 6.0 × 2.5 × 2.7 m - Unit 2: approx. 9.0 × 2.5 × 2.7 m	
1.4	Chassis type: Heavy-duty steel tubular frame (galvanized)	
1.5	Axle: Dual-axle off-road suspension	
1.6	Construction: Metal structure with anti-corrosion coating.	
1.7	Mobility: Trailer device enabling transportation by tractor with a power of 45-80 hp or a 4×4 pickup.	
1.8	Levelling: 4 retractable steel stabilizer jacks	
1.9	Body panels: Insulated sandwich panels (40–60 mm)	
1.10	Interior finish: Walls and ceiling finished with durable interior finishing materials with an aesthetic appearance.	
1.11	Floor covered with durable linoleum or equivalent wear-resistant flooring material.	
1.12	Fitted with metal entrance doors.	

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3. All brochures and leaflets submitted **must** be written in the English language or a translation into the English language.

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1.13	Fitted with windows with adequate heat and sound insulation.	
1.14	Fitted with a foldable bed or bunk and a small kitchen unit with gas.	
1.15	Lockable storage cabinets	
1.16	Installed with a solar-powered refrigerator/freezer for food and veterinary drugs.	
1.17	LED interior/exterior lights	
1.18	Metal folding ladder for access.	
2.0	**Technical Specifications:** ***Electricity Supply***	
2.1	Small-scale portable solar station suitable for electric fencing and water pumps.	
2.2	A hybrid solar power station with an installed capacity of 2 kW per unit.	
2.3	Fully wired electrical system including interior lighting, electrical outlets, and circuit breakers.	
2.4	Battery storage: Expandable lithium battery bank with a capacity of 5–10 kWh per unit.	
2.5	Power outlets: 12V DC, 230V AC outputs	
2.6	Electric Fencing Output: 8–12 joules energizer, range 10–25 km	
3.0	**Technical Specifications:** ***Heating system and water supply***	
3.1	Heating system installed, including boiler, radiators, and faucets.	
3.2	Autonomous water supply system including a water tank (200-500 L) and water faucets.	
3.3	Bathroom: Separate cabin with sanitary facilities – water heating system, shower, toilet, sink, wastewater collection system.	
3.4	Ventilation: Air ventilation equipment installed.	
4.0	**Technical Specifications:** ***Marking***	
	The mobile living wagon must be clearly and indelibly marked with the following:	
4.1	Manufacturer's name and/or trademark	
4.2	Model	
4.3	FAO logo with project code	
4.4	Donor logo	
5.0	**Accessories:**	

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5.1	Spare solar charge controller (MPPT)	
5.2	Extra solar panels (Plug-and-Play Modules)	
5.3	Lithium battery module (Spare unit)	
5.4	Spare wheel & tire set (Heavy-duty off-road)	
5.5	Electric fence energizer (Backup Unit)	
5.6	Water pump (Solar or DC backup pump)	
5.7	LED lighting kit (Interior & exterior spares)	
5.8	Tool kit (Multimeter, wire strippers, wrenches)	
5.9	MC4 connectors, cables & fuses.	
5.10	Spare hinges, door locks & weather seals	
6.0	**Manuals:**	
6.1	Operators' handbook (printed or on CD) in English or local language, one for each unit.	
6.2	The cost of the manuals should be included in the DAP/DAT cost of the equipment.	
7.0	**Spare Parts:**	
7.1	A list of the manufacturer's recommended spare parts, sufficient for 2 years of operation, must be submitted for each unit. **The list must be itemised, costed and submitted with your bid.**	
8.0	**After-sales service:**	
8.1	Supply the name, Tel./Fax number and email or postal address of your service agents in Kazakhstan or neighbouring countries.	
8.2	State who will be responsible for undertaking the pre-delivery inspection of your equipment upon arrival.	
8.3	The bid price must include the cost of delivery and installation.	
9.0	**Training**	

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9.1	The supplier must provide training on the operation and maintenance of the mobile living wagons and their equipment before handing them over to the end users.	
	Training needs:	
9.2	Description: Both theory and practical (hands-on) on how to operate, maintain and undertake simple servicing	
9.3	Duration: 1 day	
10.0	**Quality certificate**	
10.1	A copy of the last certificate awarded, confirming the quality of the components of the mobile living wagon offered, should be attached to your bid.	
11.0	**Warranty:**	
11.1	A **full and clear manufacturer's warranty statement, transferable with the ownership of the equipment (FAO or end-user), must be submitted with your bid, detailing the terms and conditions** being offered. The minimum requirement is for a twelve-month warranty period.	
12.0	***Delivery:***	
12.1	Delivery to Aksay rural district, ILI rayon, Farmers' Cooperative, "Aldiyar" Farm Almaty region and Araltogay rural district (Karabutak village) "Rakhat+" Agricultural Production Cooperative, Aitekebi district, Aktobe region, Kazakhstan.	

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Indicative pictures (for reference only):





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