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2025-GEFIS-013 Request for Tender: Supply and Delivery of Waste Management Machinery for Kiribati, Nauru, and Tonga

Annex 1: Minimum Specifications for the equipment to be supplied.

Country	Equipment	Specifications		Proposed Use
		Specification	Requirement	
Kiribati	Garbage Truck	Make/Model HINO 300 Series or equivalent Drive Configuration 4x2, right-hand drive Size 5 - 6m ³ Gross Vehicle Weight (GVW) 8,500 – 10,000 kg minimum Wheelbase 3,400 – 3,800 mm (to suit compactor body) Engine Type Diesel, 4-cylinder, water-cooled, turbocharged Engine Power Minimum 140 – 150 HP Engine Torque Minimum 400 Nm Transmission Manual or Automatic, 5–6 forward + 1 reverse Fuel Tank Capacity Minimum 100 litres Suspension Heavy-duty front and rear leaf springs with shock absorbers Brakes Full air brake system with ABS Tyres 7.50R16 or equivalent, with spare tyre Power Take-Off (PTO) PTO provision for operating hydraulic compactor system Compaction Type Manual Rear-loading hydraulic compactor Body Capacity 8–10 m ³ Hopper Capacity Minimum 1.5 m ³ Compaction Ratio Minimum 3:1 Hydraulic System PTO-driven hydraulic pump, pressure 180–200 bar		Collection of garbage from communities on Tarawa



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Country	Equipment	Specifications		Proposed Use
		Cycle Time ≤ 30 seconds per full compaction cycle Loading Rear hopper compatible with 240L, 660L, 1,100L bins Ejection System Hydraulically actuated ejector blade Leachate Tank Minimum 200 litres with drain system Safety Features Emergency stop, interlocks, reverse buzzer and camera Finish / Protection Anti-corrosion primer + enamel paint, suitable for tropical/coastal environment Warranty Minimum 2 years or 50,000 km (chassis + compaction system) Additional Requirements Operator training and maintenance manual in English		
	Scrap metal/e-waste baler	Specification	Requirement	Compressing metals, small electronics, and other e-waste into compact bales.
		Machine Type Horizontal hydraulic baler for scrap metal and e-waste Frame/Chassis Construction Heavy-duty welded steel frame, reinforced for high compression forces Operating Weight 100 tonnes (depending on capacity) Motor Type 30 - 40 kW 3-phase electric motor (400/415V, 50Hz) Hydraulic System Industrial-grade axial piston pump, pressure rating 180–250 bar Compression Force ≥100 tonnes Bale Size (approx.) 800 × 600 × 500 mm (adjustable depending on material) Bale Weight 100 – 300 kg (depending on density of scrap metal/e-waste) Cycle Time ≤ 60 seconds per compression cycle Control System PLC or push-button control with emergency stop Safety Features Interlocking doors, pressure relief valves, emergency stop button, safety cage Mobility Stationary; optionally designed with forklift slots for relocation Finish Anti-corrosion primer + powder coat paint, suitable for tropical/coastal conditions		



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Country	Equipment	Specifications		Proposed Use
		Additional Requirements	Operator and maintenance manual in English, training for staff	
Nauru	Bobcat-type skid-steer loader chassis & engine specification, with the flexibility to swap attachments — specifically from a front loader bucket to a forklift attachment (pallet forks).	Specification	Requirement	To handle pallets (ULAB, Cans, PET, scrap), shredded green waste, compost, bulk materials
	Scrap/Aluminum can baler	Specification	Requirement	Achieve high bale density for export, enabling for cans collected through ARFD and light scrap

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Country	Equipment	Specifications		Proposed Use
		Power Supply	3-phase, 50 Hz (adaptable to Pacific Island grid standards)	
		Hydraulic System	Industrial-grade hydraulic pump, pressure rating 120–160 bar	
		Compression Force	20 – 40 tonnes (suitable for aluminum cans and light recyclables)	
		Bale Size (W × H × L)	Approx. 600 × 400 × 300 mm (customizable)	
		Bale Weight	25 – 35 kg (depending on material density)	
		Cycle Time	≤ 30 seconds per compaction cycle	
		Control System	PLC or push-button control with emergency stop	
		Safety Features	Interlocking doors, pressure relief valve, emergency stop button	
		Mobility	Fixed installation, with provision for forklift slots or castor wheels (if portable)	
		Finish	Anti-corrosion primer + powder coat paint (suitable for tropical, coastal environment)	
	Car Baler	Specification	Requirement	
		Machine Type	Hydraulic baler for End-of-Life Vehicles (car bodies, light trucks, metal scrap)	
		Chassis Frame	Heavy-duty welded steel frame, reinforced to withstand >100 tonnes compression force	
		Mobility	Stationary installation OR mobile (trailer-mounted) depending on supplier offering	
		Operating Weight	18,000 – 25,000 kg	
		Chamber Size (L×W×H)	Minimum 5,000 × 2,000 × 800 mm (suitable for full car body)	
		Compression Force	120 – 150 tonnes minimum	
		Bale Size (approx.)	1,000 × 800 × 600 mm (depending on chamber design)	
		Bale Density	1.2 – 1.5 t/m ³ (for vehicle scrap and light metals)	
		Cycle Time	≤ 120 seconds (full compression cycle)	
		Engine Type	Diesel engine (for mobile unit) OR Electric motor (for stationary unit)	



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Country	Equipment	Specifications		Proposed Use
		Diesel Engine Rating	100 – 150 HP, water-cooled, turbocharged	
		Electric Motor Option	30 – 45 kW, 3-phase, 400/415V, 50Hz	
		Hydraulic System	Heavy-duty axial piston pump, pressure rating 250 – 300 bar	
		Hydraulic Oil Tank Controls	800 – 1,000 litres with filtration system PLC or manual lever operation with safety interlocks	
		Safety Features	Emergency stop switches, hydraulic overload relief, interlocking doors, safety cages	
		Operator Cabin (mobile)	ROPS/FOPS certified, air-conditioned, with full control console	
		Paint/Finish	Anti-corrosion primer with industrial enamel finish (suitable for coastal/tropical climate)	
	Medium-duty stationary hydraulic baler	Specification	Requirement	
		Machine Type	Vertical or horizontal baler (suitable for PET bottles and cardboard)	
		Frame/Chassis Construction	Heavy-duty welded steel frame, reinforced to withstand repeated hydraulic compression	
		Operating Weight	1,200 – 2,500 kg (depending on baler size)	
		Motor Type	5 – 15 kW 3-phase electric motor (400/415V, 50Hz)	
		Hydraulic System Compression Force	Industrial-grade hydraulic pump, pressure rating 120–160 bar 15 – 40 tonnes (depending on model and material)	
		Bale Size (approx.)	600 × 400 × 300 mm (adjustable depending on material)	
		Bale Weight	20 – 35 kg (typical for PET bottles and cardboard)	
		Cycle Time	≤ 30 seconds per compaction cycle	
		Control System	Push-button or PLC control with emergency stop	
		Safety Features	Interlocking doors, pressure relief valves, emergency stop button	
		Mobility	Fixed installation; optional forklift slots or castor wheels for repositioning	
		Finish	Anti-corrosion primer with powder coat paint, suitable for tropical/coastal conditions	Achieve high bale density for export, enabling for PET collected through ARFD



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Country	Equipment	Specifications		Proposed Use
		Specification	Requirement	
Niue	Car Baler (ELV)	Machine Type Chassis Frame Mobility Operating Weight Chamber Size (L×W×H) Compression Force Bale Size (approx.) Bale Density Cycle Time Engine Type Diesel Engine Rating Electric Motor Option Hydraulic System Hydraulic Oil Tank Controls Safety Features Operator Cabin (mobile) Paint/Finish	Hydraulic baler/crusher for End-of-Life Vehicles (car bodies, light trucks, metal scrap) Heavy-duty welded steel frame, reinforced to withstand >100 tonnes compression force Stationary installation OR mobile (trailer-mounted) depending on supplier offering 18,000 – 25,000 kg Minimum 5,000 × 2,000 × 800 mm (suitable for full car body) 120 – 150 tonnes minimum 1,000 × 800 × 600 mm (depending on chamber design) 1.2 – 1.5 t/m ³ (for vehicle scrap and light metals) ≤ 120 seconds (full compression cycle) Diesel engine (for mobile unit) OR Electric motor (for stationary unit) 100 – 150 HP, water-cooled, turbocharged 30 – 45 kW, 3-phase, 400/415V, 50Hz Heavy-duty axial piston pump, pressure rating 250 – 300 bar 800 – 1,000 litres with filtration system PLC or manual lever operation with safety interlocks Emergency stop switches, hydraulic overload relief, interlocking doors, safety cages ROPS/FOPS certified, air-conditioned, with full control console Anti-corrosion primer with industrial enamel finish (suitable for coastal/tropical climate)	The car baler compacts end-of-life vehicles and large metal scrap into dense bales, facilitating safer handling, storage, transport, and recycling of ferrous materials.



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Country	Equipment	Specifications		Proposed Use
		Specification	Requirement	
	Aluminum Can Crusher	Frame/Chassis Construction	Heavy-duty welded steel, reinforced for high compaction loads	
		Machine Type	Vertical or Horizontal baler (to be specified by supplier, depending on available space and operations)	
		Motor	7.5 – 15 kW 3-phase electric motor (400/415V, 50Hz)	
		Power Supply	3-phase, 50 Hz (adaptable to Pacific Island grid standards)	
		Hydraulic System	Industrial-grade hydraulic pump, pressure rating 120–160 bar	
		Compression Force	20 – 40 tonnes (suitable for aluminum cans and light recyclables)	
		Bale Size (W x H x L)	Approx. 600 x 400 x 300 mm (customizable)	
		Bale Weight	25 – 35 kg (depending on material density)	
		Cycle Time	≤ 30 seconds per compaction cycle	
		Control System	PLC or push-button control with emergency stop	
		Safety Features	Interlocking doors, pressure relief valve, emergency stop button	
		Mobility	Fixed installation, with provision for forklift slots or castor wheels (if portable)	
		Finish	Anti-corrosion primer + powder coat paint (suitable for tropical, coastal environment)	
Niue	Glass Crusher	Specification	Requirement	The glass crusher processes bottles, jars, and container glass into small fragments for safe handling, storage, and recycling, reducing landfill volumes and supporting sustainable waste management.
		Frame/Chassis Construction	Heavy-duty welded steel, reinforced to withstand vibration and impact from glass crushing	
		Machine Type	Glass crusher for bottles, jars, and other container glass	
		Motor	7 – 15 kW electric or diesel engine (depending on site availability)	
		Power Supply	3-phase, 50 Hz electric supply or diesel fuel (adaptable to Pacific Island standards)	
		Crushing Mechanism	Rotor or hammer mill with hardened steel blades or hammers; replaceable components	
		Feed Hopper Size	Minimum 500 L, wide opening for easy loading of glass items	
		Discharge Capacity	Conveyor or chute for crushed glass, with dust suppression system	
			200 – 600 kg/hour, depending on glass size and type	

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Country	Equipment	Specifications		Proposed Use
		Output Size Safety Features Mobility Noise Level Maintenance Warranty Finish Documentation	<p>10 – 30 mm crushed glass (adjustable depending on requirement)</p> <p>Emergency stop, safety guards, overload protection, dust containment, complies with occupational safety standards</p> <p>Stationary or mobile unit (wheels or skid-mounted for transport between sites)</p> <p>≤85 dB, compliant with occupational noise regulations</p> <p>Easy access for cleaning and replacement of hammers/blades; minimal downtime; spare parts readily available</p> <p>Minimum 12 months covering manufacturing defects and motor performance</p> <p>Anti-corrosion primer + powder coat paint suitable for tropical, coastal environment</p> <p>User manual, maintenance guide, and spare parts list (in English or local language)</p>	
	Organic Shredder	Specification Frame/Chassis Construction Machine Type Motor Power Supply Cutting Mechanism Hopper Size Discharge Capacity Safety Features Mobility Noise Level Maintenance Finish	<p>Heavy-duty welded steel, reinforced to withstand vibration and high loads during shredding</p> <p>Organic shredder for green waste, food waste, and other organic materials</p> <p>5 – 15 kW electric or diesel engine (depending on site availability)</p> <p>3-phase, 50 Hz electric supply or diesel fuel (adaptable to Pacific Island standards)</p> <p>Rotor with hardened steel blades, capable of shredding branches up to 50 mm diameter; blades replaceable</p> <p>Minimum 500 L, wide opening for easy loading</p> <p>Conveyor or chute for efficient ejection of shredded material</p> <p>200 – 500 kg/hour, depending on material type and moisture content</p> <p>Emergency stop, safety guards, overload protection, complies with occupational safety standards</p> <p>Stationary or mobile unit (wheels or skid-mounted for transport between sites)</p> <p>≤85 dB, compliant with occupational noise regulations</p> <p>Easy access for cleaning and blade replacement; minimal downtime; spare parts readily available</p> <p>Anti-corrosion primer + powder coat paint suitable for tropical, coastal environment</p>	The organic shredder processes green waste, into smaller, manageable pieces to improve collection, and composting.
Tonga	Car Baler	Specification	Requirement	To reduce the size and volume of scrap metal, facilitating safer

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Country	Equipment	Specifications	Proposed Use
		<p>Machine Type Hydraulic baler for End-of-Life Vehicles (car bodies, light trucks, metal scrap)</p> <p>Chassis Frame Heavy-duty welded steel frame, reinforced to withstand >100 tonnes compression force</p> <p>Mobility Stationary installation OR mobile (trailer-mounted) depending on supplier offering</p> <p>Operating Weight 18,000 – 25,000 kg</p> <p>Chamber Size (L×W×H) Minimum 5,000 × 2,000 × 800 mm (suitable for full car body)</p> <p>Compression Force 120 – 150 tonnes minimum</p> <p>Bale Size (approx.) 1,000 × 800 × 600 mm (depending on chamber design)</p> <p>Bale Density 1.2 – 1.5 t/m³ (for vehicle scrap and light metals)</p> <p>Cycle Time ≤ 120 seconds (full compression cycle)</p> <p>Engine Type Diesel engine (for mobile unit) OR Electric motor (for stationary unit)</p> <p>Diesel Engine Rating 100 – 150 HP, water-cooled, turbocharged</p> <p>Electric Motor Option 30 – 45 kW, 3-phase, 400/415V, 50Hz</p> <p>Hydraulic System Heavy-duty axial piston pump, pressure rating 250 – 300 bar</p> <p>Hydraulic Oil Tank 800 – 1,000 litres with filtration system</p> <p>Controls PLC or manual lever operation with safety interlocks</p> <p>Safety Features Emergency stop switches, hydraulic overload relief, interlocking doors, safety cages</p> <p>Operator Cabin (mobile) ROPS/FOPS certified, air-conditioned, with full control console</p> <p>Paint/Finish Anti-corrosion primer with industrial enamel finish (suitable for coastal/tropical climate)</p>	handling, efficient storage, and transport for recycling or disposal.

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