

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
Kiribati	Garbage Truck	Specification	Collection of garbage from communities on Tarawa
		Make/Model	
		Drive	
		Configuration	
		Size	
		Gross Vehicle Weight (GVW)	
		Wheelbase	
		Engine Type	
		Engine Power	
		Engine Torque	
		Transmission	
		Fuel Tank Capacity	
		Suspension	
		Brakes	
		Tyres	
		Power Take-Off (PTO)	
		Compaction Type	
		Body Capacity	
		Hopper Capacity	
		Compaction Ratio	
		Hydraulic System	



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Country	Equipment	Specifications		Proposed Use																											
		Cycle Time Loading Ejection System Leachate Tank Safety Features Finish / Protection Warranty Additional Requirements	≤ 30 seconds per full compaction cycle Rear hopper compatible with 240L, 660L, 1,100L bins Hydraulically actuated ejector blade Minimum 200 litres with drain system Emergency stop, interlocks, reverse buzzer and camera Anti-corrosion primer + enamel paint, suitable for tropical/coastal environment Minimum 2 years or 50,000 km (chassis + compaction system) Operator training and maintenance manual in English																												
	Scrap metal/e-waste baler	<table><tr><th>Specification</th><th>Requirement</th></tr><tr><td>Machine Type</td><td>Horizontal hydraulic baler for scrap metal and e-waste</td></tr><tr><td>Frame/Chassis Construction</td><td>Heavy-duty welded steel frame, reinforced for high compression forces</td></tr><tr><td>Operating Weight</td><td>100 tonnes (depending on capacity)</td></tr><tr><td>Motor Type</td><td>30 - 40 kW 3-phase electric motor (400/415V, 50Hz)</td></tr><tr><td>Hydraulic System</td><td>Industrial-grade axial piston pump, pressure rating 180–250 bar</td></tr><tr><td>Compression Force</td><td>≥100 tonnes</td></tr><tr><td>Bale Size (approx.)</td><td>800 × 600 × 500 mm (adjustable depending on material)</td></tr><tr><td>Bale Weight</td><td>100 – 300 kg (depending on density of scrap metal/e-waste)</td></tr><tr><td>Cycle Time</td><td>≤ 60 seconds per compression cycle</td></tr><tr><td>Control System</td><td>PLC or push-button control with emergency stop</td></tr><tr><td>Safety Features</td><td>Interlocking doors, pressure relief valves, emergency stop button, safety cage</td></tr><tr><td>Mobility</td><td>Stationary; optionally designed with forklift slots for relocation</td></tr><tr><td>Finish</td><td>Anti-corrosion primer + powder coat paint, suitable for tropical/coastal conditions</td></tr></table>	Specification	Requirement	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	Compressing metals, small electronics, and other e-waste into compact bales.
Specification	Requirement																														
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)																														
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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 Machine Type Operating Weight Rated Operating Capacity Tipping Load Chassis Frame Drive System Engine Make/Type Engine Power Engine Torque Fuel Tank Capacity Transmission Travel Speed Hydraulic Pump Flow Tyres Steering System Quick Attachment System Operator Cabin Safety Features	Requirement Skid Steer Loader (compact loader, Bobcat or equivalent) 2,500 – 3,500 kg 800 – 1,200 kg (ISO standard 14397-1) Minimum 1,600 – 2,400 kg Heavy-duty welded steel, suitable for rough terrain operations 4-wheel drive, hydrostatic transmission Diesel, 4-cylinder, water-cooled, Tier 3 / EU Stage IIIA or higher compliant Minimum 45 – 60 HP (34 – 45 kW) Minimum 150 – 200 Nm 70 – 100 litres Hydrostatic, infinitely variable speed, forward and reverse 10 – 12 km/h 60 – 80 L/min @ 200 bar (sufficient for loader and fork operations) 10×16.5 heavy-duty pneumatic or solid tyres (with spare set optional) Skid steer (zero-radius turning) Universal quick coupler for bucket, pallet forks, and other standard attachments ROPS/FOPS certified, enclosed with air-conditioning Seat belt, reverse alarm, beacon light, emergency stop, hydraulic lockout system	To handle pallets (ULAB, Cans, PET, scrap), shredded green waste, compost, bulk materials
	Scrap/Aluminum can baler	Specification Frame/Chassis Construction Machine Type Motor	Requirement Heavy-duty welded steel, reinforced for high compaction loads Vertical or Horizontal baler (to be specified by supplier, depending on available space and operations) 7.5 – 15 kW 3-phase electric motor (400/415V, 50Hz)	

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Country	Equipment	Specifications		Proposed Use
		Power Supply Hydraulic System Compression Force Bale Size (W × H × L) Bale Weight Cycle Time Control System Safety Features Mobility Finish	3-phase, 50 Hz (adaptable to Pacific Island grid standards) Industrial-grade hydraulic pump, pressure rating 120–160 bar 20 – 40 tonnes (suitable for aluminum cans and light recyclables) Approx. 600 × 400 × 300 mm (customizable) 25 – 35 kg (depending on material density) ≤ 30 seconds per compaction cycle PLC or push-button control with emergency stop Interlocking doors, pressure relief valve, emergency stop button Fixed installation, with provision for forklift slots or castor wheels (if portable) Anti-corrosion primer + powder coat paint (suitable for tropical, coastal environment)	
	Car Baler	Specification Machine Type Chassis Frame Mobility Operating Weight Chamber Size (L×W×H) Compression Force Bale Size (approx.) Bale Density Cycle Time Engine Type	Requirement Hydraulic baler 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)	

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Country	Equipment	Specifications	Proposed Use
		Diesel Engine Rating Electric Motor Option Hydraulic System Hydraulic Oil Tank Controls Safety Features Operator Cabin (mobile) Paint/Finish	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)
	Medium-duty stationary hydraulic baler	Specification Machine Type Frame/Chassis Construction Operating Weight Motor Type Hydraulic System Compression Force Bale Size (approx.) Bale Weight Cycle Time Control System Safety Features Mobility Finish	Requirement Vertical or horizontal baler (suitable for PET bottles and cardboard) Heavy-duty welded steel frame, reinforced to withstand repeated hydraulic compression 1,200 – 2,500 kg (depending on baler size) 5 – 15 kW 3-phase electric motor (400/415V, 50Hz) Industrial-grade hydraulic pump, pressure rating 120–160 bar 15 – 40 tonnes (depending on model and material) 600 × 400 × 300 mm (adjustable depending on material) 20 – 35 kg (typical for PET bottles and cardboard) ≤ 30 seconds per compaction cycle Push-button or PLC control with emergency stop Interlocking doors, pressure relief valves, emergency stop button Fixed installation; optional forklift slots or castor wheels for repositioning 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
Niue	Car Baler (ELV)	Specification	Requirement	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.
		Machine Type	Hydraulic baler/crusher 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)	
		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	800 – 1,000 litres with filtration system	
		Controls	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)	

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

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		Output Size Safety Features Mobility Noise Level Maintenance Warranty Finish Documentation	10 – 30 mm crushed glass (adjustable depending on requirement) Emergency stop, safety guards, overload protection, dust containment, complies with occupational safety standards Stationary or mobile unit (wheels or skid-mounted for transport between sites) ≤85 dB, compliant with occupational noise regulations Easy access for cleaning and replacement of hammers/blades; minimal downtime; spare parts readily available Minimum 12 months covering manufacturing defects and motor performance Anti-corrosion primer + powder coat paint suitable for tropical, coastal environment User manual, maintenance guide, and spare parts list (in English or local language)	
	Organic Shredder	Specification Frame/Chassis Construction Machine Type Motor Power Supply Cutting Mechanism Hopper Size Discharge Capacity Safety Features Mobility Noise Level Maintenance Finish	Requirement Heavy-duty welded steel, reinforced to withstand vibration and high loads during shredding Organic shredder for green waste, food waste, and other organic materials 5 – 15 kW electric or diesel engine (depending on site availability) 3-phase, 50 Hz electric supply or diesel fuel (adaptable to Pacific Island standards) Rotor with hardened steel blades, capable of shredding branches up to 50 mm diameter; blades replaceable Minimum 500 L, wide opening for easy loading Conveyor or chute for efficient ejection of shredded material 200 – 500 kg/hour, depending on material type and moisture content Emergency stop, safety guards, overload protection, complies with occupational safety standards Stationary or mobile unit (wheels or skid-mounted for transport between sites) ≤85 dB, compliant with occupational noise regulations Easy access for cleaning and blade replacement; minimal downtime; spare parts readily available Anti-corrosion primer + powder coat paint suitable for tropical, coastal environment	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
		<div><div>Machine Type</div><div>Chassis Frame</div><div>Mobility</div><div>Operating Weight</div><div>Chamber Size (L×W×H)</div><div>Compression Force</div><div>Bale Size (approx.)</div><div>Bale Density</div><div>Cycle Time</div><div>Engine Type</div><div>Diesel Engine Rating</div><div>Electric Motor Option</div><div>Hydraulic System</div><div>Hydraulic Oil Tank</div><div>Controls</div><div>Safety Features</div><div>Operator Cabin (mobile)</div><div>Paint/Finish</div></div> <div>Hydraulic baler for End-of-Life Vehicles (car bodies, light trucks, metal scrap)</div> <div>Heavy-duty welded steel frame, reinforced to withstand >100 tonnes compression force</div> <div>Stationary installation OR mobile (trailer-mounted) depending on supplier offering</div> <div>18,000 – 25,000 kg</div> <div>Minimum 5,000 × 2,000 × 800 mm (suitable for full car body)</div> <div>120 – 150 tonnes minimum</div> <div>1,000 × 800 × 600 mm (depending on chamber design)</div> <div>1.2 – 1.5 t/m³ (for vehicle scrap and light metals)</div> <div>≤ 120 seconds (full compression cycle)</div> <div>Diesel engine (for mobile unit) OR Electric motor (for stationary unit)</div> <div>100 – 150 HP, water-cooled, turbocharged</div> <div>30 – 45 kW, 3-phase, 400/415V, 50Hz</div> <div>Heavy-duty axial piston pump, pressure rating 250 – 300 bar</div> <div>800 – 1,000 litres with filtration system</div> <div>PLC or manual lever operation with safety interlocks</div> <div>Emergency stop switches, hydraulic overload relief, interlocking doors, safety cages</div> <div>ROPS/FOPS certified, air-conditioned, with full control console</div> <div>Anti-corrosion primer with industrial enamel finish (suitable for coastal/tropical climate)</div>	handling, efficient storage, and transport for recycling or disposal.

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