

## 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	<b>Specification</b>	<b>Requirement</b>
		<b>Make/Model</b>	HINO 300 Series or equivalent
		<b>Drive</b>	4x2, right-hand drive
		<b>Configuration</b>	
		<b>Gross Vehicle Weight (GVW)</b>	8,500 – 10,000 kg minimum
		<b>Wheelbase</b>	3,400 – 3,800 mm (to suit compactor body)
		<b>Engine Type</b>	Diesel, 4-cylinder, water-cooled, turbocharged
		<b>Engine Power</b>	Minimum 140 – 150 HP
		<b>Engine Torque</b>	Minimum 400 Nm
		<b>Transmission</b>	Manual or Automatic, 5–6 forward + 1 reverse
		<b>Fuel Tank Capacity</b>	Minimum 100 litres
		<b>Suspension</b>	Heavy-duty front and rear leaf springs with shock absorbers
		<b>Brakes</b>	Full air brake system with ABS
		<b>Tyres</b>	7.50R16 or equivalent, with spare tyre
<b>Power Take-Off (PTO)</b>	PTO provision for operating hydraulic compactor system		
<b>Compaction Type</b>	Rear-loading hydraulic compactor		
<b>Body Capacity</b>	8–10 m <sup>3</sup>		
<b>Hopper Capacity</b>	Minimum 1.5 m <sup>3</sup>		
<b>Compaction Ratio</b>	Minimum 3:1		
<b>Hydraulic System</b>	PTO-driven hydraulic pump, pressure 180–200 bar		
<b>Cycle Time</b>	≤ 30 seconds per full compaction cycle		
			Collection of garbage from communities on Tarawa



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		<p><b>Loading</b>  <b>Ejection System</b>  <b>Leachate Tank</b>  <b>Safety Features</b>  <b>Finish / Protection</b>  <b>Warranty</b>  <b>Additional Requirements</b></p>	<p>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</p>	
	Scrap metal/e-waste baler	<p><b>Specification</b></p> <p><b>Machine Type</b>  <b>Frame/Chassis</b>  <b>Construction</b>  <b>Operating Weight</b>  <b>Motor Type</b>  <b>Hydraulic System</b>  <b>Compression Force</b>  <b>Bale Size (approx.)</b>  <b>Bale Weight</b>  <b>Cycle Time</b>  <b>Control System</b>  <b>Safety Features</b>  <b>Mobility</b>  <b>Finish</b>  <b>Additional Requirements</b></p>	<p><b>Requirement</b></p> <p>Vertical or horizontal hydraulic baler for scrap metal and e-waste            Heavy-duty welded steel frame, reinforced for high compression forces            3,000 – 6,000 kg (depending on capacity)            15 – 30 kW 3-phase electric motor (400/415V, 50Hz)            Industrial-grade axial piston pump, pressure rating 180–250 bar            30 – 60 tonnes            800 × 600 × 500 mm (adjustable depending on material)            100 – 300 kg (depending on density of scrap metal/e-waste)            ≤ 60 seconds per compression cycle            PLC or push-button control with emergency stop            Interlocking doors, pressure relief valves, emergency stop button, safety cage            Stationary; optionally designed with forklift slots for relocation            Anti-corrosion primer + powder coat paint, suitable for tropical/coastal conditions            Operator and maintenance manual in English, training for staff</p>	Compressing metals, small electronics, and other e-waste into compact bales.



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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).	<table border="1"> <thead> <tr> <th>Specification</th> <th>Requirement</th> </tr> </thead> <tbody> <tr> <td><b>Machine Type</b></td> <td>Skid Steer Loader (compact loader, Bobcat or equivalent)</td> </tr> <tr> <td><b>Operating Weight</b></td> <td>2,500 – 3,500 kg</td> </tr> <tr> <td><b>Rated Operating Capacity</b></td> <td>800 – 1,200 kg (ISO standard 14397-1)</td> </tr> <tr> <td><b>Tipping Load</b></td> <td>Minimum 1,600 – 2,400 kg</td> </tr> <tr> <td><b>Chassis Frame</b></td> <td>Heavy-duty welded steel, suitable for rough terrain operations</td> </tr> <tr> <td><b>Drive System</b></td> <td>4-wheel drive, hydrostatic transmission</td> </tr> <tr> <td><b>Engine</b></td> <td>Diesel, 4-cylinder, water-cooled, Tier 3 / EU Stage IIIA or higher compliant</td> </tr> <tr> <td><b>Make/Type</b></td> <td></td> </tr> <tr> <td><b>Engine Power</b></td> <td>Minimum 45 – 60 HP (34 – 45 kW)</td> </tr> <tr> <td><b>Engine Torque</b></td> <td>Minimum 150 – 200 Nm</td> </tr> <tr> <td><b>Fuel Tank Capacity</b></td> <td>70 – 100 litres</td> </tr> <tr> <td><b>Transmission</b></td> <td>Hydrostatic, infinitely variable speed, forward and reverse</td> </tr> <tr> <td><b>Travel Speed</b></td> <td>10 – 12 km/h</td> </tr> <tr> <td><b>Hydraulic Pump Flow</b></td> <td>60 – 80 L/min @ 200 bar (sufficient for loader and fork operations)</td> </tr> <tr> <td><b>Tyres</b></td> <td>10×16.5 heavy-duty pneumatic or solid tyres (with spare set optional)</td> </tr> <tr> <td><b>Steering System</b></td> <td>Skid steer (zero-radius turning)</td> </tr> <tr> <td><b>Quick Attachment System</b></td> <td>Universal quick coupler for bucket, pallet forks, and other standard attachments</td> </tr> <tr> <td><b>Operator Cabin</b></td> <td>ROPS/FOPS certified, enclosed with air-conditioning</td> </tr> <tr> <td><b>Safety Features</b></td> <td>Seat belt, reverse alarm, beacon light, emergency stop, hydraulic lockout system</td> </tr> </tbody> </table>	Specification	Requirement	<b>Machine Type</b>	Skid Steer Loader (compact loader, Bobcat or equivalent)	<b>Operating Weight</b>	2,500 – 3,500 kg	<b>Rated Operating Capacity</b>	800 – 1,200 kg (ISO standard 14397-1)	<b>Tipping Load</b>	Minimum 1,600 – 2,400 kg	<b>Chassis Frame</b>	Heavy-duty welded steel, suitable for rough terrain operations	<b>Drive System</b>	4-wheel drive, hydrostatic transmission	<b>Engine</b>	Diesel, 4-cylinder, water-cooled, Tier 3 / EU Stage IIIA or higher compliant	<b>Make/Type</b>		<b>Engine Power</b>	Minimum 45 – 60 HP (34 – 45 kW)	<b>Engine Torque</b>	Minimum 150 – 200 Nm	<b>Fuel Tank Capacity</b>	70 – 100 litres	<b>Transmission</b>	Hydrostatic, infinitely variable speed, forward and reverse	<b>Travel Speed</b>	10 – 12 km/h	<b>Hydraulic Pump Flow</b>	60 – 80 L/min @ 200 bar (sufficient for loader and fork operations)	<b>Tyres</b>	10×16.5 heavy-duty pneumatic or solid tyres (with spare set optional)	<b>Steering System</b>	Skid steer (zero-radius turning)	<b>Quick Attachment System</b>	Universal quick coupler for bucket, pallet forks, and other standard attachments	<b>Operator Cabin</b>	ROPS/FOPS certified, enclosed with air-conditioning	<b>Safety Features</b>	Seat belt, reverse alarm, beacon light, emergency stop, hydraulic lockout system	To handle pallets (ULAB, Cans, PET, scrap), shredded green waste, compost, bulk materials
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		<p><b>Hydraulic System</b> Industrial-grade hydraulic pump, pressure rating 120–160 bar</p> <p><b>Compression Force</b> 20 – 40 tonnes (suitable for aluminum cans and light recyclables)</p> <p><b>Bale Size (W × H × L)</b> Approx. 600 × 400 × 300 mm (customizable)</p> <p><b>Bale Weight</b> 25 – 35 kg (depending on material density)</p> <p><b>Cycle Time</b> ≤ 30 seconds per compaction cycle</p> <p><b>Control System</b> PLC or push-button control with emergency stop</p> <p><b>Safety Features</b> Interlocking doors, pressure relief valve, emergency stop button</p> <p><b>Mobility</b> Fixed installation, with provision for forklift slots or castor wheels (if portable)</p> <p><b>Finish</b> Anti-corrosion primer + powder coat paint (suitable for tropical, coastal environment)</p>																							
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		<p><b>Diesel Engine</b> 100 – 150 HP, water-cooled, turbocharged</p> <p><b>Rating</b></p> <p><b>Electric Motor</b> 30 – 45 kW, 3-phase, 400/415V, 50Hz</p> <p><b>Option</b></p> <p><b>Hydraulic System</b> Heavy-duty axial piston pump, pressure rating 250 – 300 bar</p> <p><b>Hydraulic Oil Tank</b> 800 – 1,000 litres with filtration system</p> <p><b>Controls</b> PLC or manual lever operation with safety interlocks</p> <p><b>Safety Features</b> Emergency stop switches, hydraulic overload relief, interlocking doors, safety cages</p> <p><b>Operator Cabin (mobile)</b> ROPS/FOPS certified, air-conditioned, with full control console</p> <p><b>Paint/Finish</b> Anti-corrosion primer with industrial enamel finish (suitable for coastal/tropical climate)</p>	
	Medium-duty stationary hydraulic baler	<p><b>Specification Requirement</b></p> <p><b>Machine Type</b> Vertical or horizontal baler (suitable for PET bottles and cardboard)</p> <p><b>Frame/Chassis Construction</b> Heavy-duty welded steel frame, reinforced to withstand repeated hydraulic compression</p> <p><b>Operating Weight</b> 1,200 – 2,500 kg (depending on baler size)</p> <p><b>Motor Type</b> 5 – 15 kW 3-phase electric motor (400/415V, 50Hz)</p> <p><b>Hydraulic System</b> Industrial-grade hydraulic pump, pressure rating 120–160 bar</p> <p><b>Compression Force</b> 15 – 40 tonnes (depending on model and material)</p> <p><b>Bale Size (approx.)</b> 600 × 400 × 300 mm (adjustable depending on material)</p> <p><b>Bale Weight</b> 20 – 35 kg (typical for PET bottles and cardboard)</p> <p><b>Cycle Time</b> ≤ 30 seconds per compaction cycle</p> <p><b>Control System</b> Push-button or PLC control with emergency stop</p> <p><b>Safety Features</b> Interlocking doors, pressure relief valves, emergency stop button</p> <p><b>Mobility</b> Fixed installation; optional forklift slots or castor wheels for repositioning</p> <p><b>Finish</b> Anti-corrosion primer with powder coat paint, suitable for tropical/coastal conditions</p>	Achieve high bale density for export, enabling for PET collected through ARFD



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	Aluminum Can Crusher	<table border="1"> <thead> <tr> <th>Specification</th> <th>Requirement</th> </tr> </thead> <tbody> <tr> <td><b>Frame/Chassis Construction</b></td> <td>Heavy-duty welded steel, reinforced for high compaction loads</td> </tr> <tr> <td><b>Machine Type</b></td> <td>Vertical or Horizontal baler (to be specified by supplier, depending on available space and operations)</td> </tr> <tr> <td><b>Motor</b></td> <td>7.5 – 15 kW 3-phase electric motor (400/415V, 50Hz)</td> </tr> <tr> <td><b>Power Supply</b></td> <td>3-phase, 50 Hz (adaptable to Pacific Island grid standards)</td> </tr> <tr> <td><b>Hydraulic System</b></td> <td>Industrial-grade hydraulic pump, pressure rating 120–160 bar</td> </tr> <tr> <td><b>Compression Force</b></td> <td>20 – 40 tonnes (suitable for aluminum cans and light recyclables)</td> </tr> <tr> <td><b>Bale Size (W × H × L)</b></td> <td>Approx. 600 × 400 × 300 mm (customizable)</td> </tr> <tr> <td><b>Bale Weight</b></td> <td>25 – 35 kg (depending on material density)</td> </tr> <tr> <td><b>Cycle Time</b></td> <td>≤ 30 seconds per compaction cycle</td> </tr> <tr> <td><b>Control System</b></td> <td>PLC or push-button control with emergency stop</td> </tr> <tr> <td><b>Safety Features</b></td> <td>Interlocking doors, pressure relief valve, emergency stop button</td> </tr> <tr> <td><b>Mobility</b></td> <td>Fixed installation, with provision for forklift slots or castor wheels (if portable)</td> </tr> <tr> <td><b>Finish</b></td> <td>Anti-corrosion primer + powder coat paint (suitable for tropical, coastal environment)</td> </tr> </tbody> </table>	Specification	Requirement	<b>Frame/Chassis Construction</b>	Heavy-duty welded steel, reinforced for high compaction loads	<b>Machine Type</b>	Vertical or Horizontal baler (to be specified by supplier, depending on available space and operations)	<b>Motor</b>	7.5 – 15 kW 3-phase electric motor (400/415V, 50Hz)	<b>Power Supply</b>	3-phase, 50 Hz (adaptable to Pacific Island grid standards)	<b>Hydraulic System</b>	Industrial-grade hydraulic pump, pressure rating 120–160 bar	<b>Compression Force</b>	20 – 40 tonnes (suitable for aluminum cans and light recyclables)	<b>Bale Size (W × H × L)</b>	Approx. 600 × 400 × 300 mm (customizable)	<b>Bale Weight</b>	25 – 35 kg (depending on material density)	<b>Cycle Time</b>	≤ 30 seconds per compaction cycle	<b>Control System</b>	PLC or push-button control with emergency stop	<b>Safety Features</b>	Interlocking doors, pressure relief valve, emergency stop button	<b>Mobility</b>	Fixed installation, with provision for forklift slots or castor wheels (if portable)	<b>Finish</b>	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
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		<p><b>Output Size</b> 10 – 30 mm crushed glass (adjustable depending on requirement)</p> <p><b>Safety Features</b> Emergency stop, safety guards, overload protection, dust containment, complies with occupational safety standards</p> <p><b>Mobility</b> Stationary or mobile unit (wheels or skid-mounted for transport between sites)</p> <p><b>Noise Level</b> ≤85 dB, compliant with occupational noise regulations</p> <p><b>Maintenance</b> Easy access for cleaning and replacement of hammers/blades; minimal downtime; spare parts readily available</p> <p><b>Warranty</b> Minimum 12 months covering manufacturing defects and motor performance</p> <p><b>Finish</b> Anti-corrosion primer + powder coat paint suitable for tropical, coastal environment</p> <p><b>Documentation</b> User manual, maintenance guide, and spare parts list (in English or local language)</p>																													
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		<p><b>Machine Type</b> Hydraulic baler for End-of-Life Vehicles (car bodies, light trucks, metal scrap)</p> <p><b>Chassis Frame</b> Heavy-duty welded steel frame, reinforced to withstand &gt;100 tonnes compression force</p> <p><b>Mobility</b> Stationary installation OR mobile (trailer-mounted) depending on supplier offering</p> <p><b>Operating Weight</b> 18,000 – 25,000 kg</p> <p><b>Chamber Size (L×W×H)</b> Minimum 5,000 × 2,000 × 800 mm (suitable for full car body)</p> <p><b>Compression Force</b> 120 – 150 tonnes minimum</p> <p><b>Bale Size (approx.)</b> 1,000 × 800 × 600 mm (depending on chamber design)</p> <p><b>Bale Density</b> 1.2 – 1.5 t/m<sup>3</sup> (for vehicle scrap and light metals)</p> <p><b>Cycle Time</b> ≤ 120 seconds (full compression cycle)</p> <p><b>Engine Type</b> Diesel engine (for mobile unit) OR Electric motor (for stationary unit)</p> <p><b>Diesel Engine Rating</b> 100 – 150 HP, water-cooled, turbocharged</p> <p><b>Electric Motor Option</b> 30 – 45 kW, 3-phase, 400/415V, 50Hz</p> <p><b>Hydraulic System</b> Heavy-duty axial piston pump, pressure rating 250 – 300 bar</p> <p><b>Hydraulic Oil Tank</b> 800 – 1,000 litres with filtration system</p> <p><b>Controls</b> PLC or manual lever operation with safety interlocks</p> <p><b>Safety Features</b> Emergency stop switches, hydraulic overload relief, interlocking doors, safety cages</p> <p><b>Operator Cabin (mobile)</b> ROPS/FOPS certified, air-conditioned, with full control console</p> <p><b>Paint/Finish</b> 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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A resilient Pacific environment sustaining our livelihoods and natural heritage in harmony with our cultures.