

## Wheel Loader



Specification	
<b>General</b>	A brand new, front end wheel loader of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system and turbocharger
	The engine net power has to be minimum 80kW
<b>Hydraulics</b>	Pump type should be gear
	Total hydraulic cycle time should be less than 10 seconds.
<b>Bucket</b>	Standard bucket with teeth.
	Bucket capacity should be within 2.0 cubic meters.
<b>Weight &amp; Dimensions</b>	Operating weight of machine should not be less than 10,000 kg.
	Transport length should be less than 9000 mm.
	External width over wheels should be less than 2500 mm
	Operating height (full raised) at least 5120 mm
	Dumping height at 45° angle at least 2830 mm
<b>Cab</b>	Cab frame has to be ROPS and FOPS approved for maximum operator protection.
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Forklift 3 TON



Specification	
<b>General</b>	A brand new 3 Ton forklift of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine should have a gross power of minimum 35kW
<b>Lift Capacity</b>	Load capacity should not be less than 3000 kg
<b>Weight &amp; Dimensions</b>	Overall height of mast should be less than 2500mm
	Maximum lift height should be minimum 4000mm
	Load center should be 500mm
<b>Tyres</b>	Solid tyres
<b>Operation</b>	Tilting angle not less than 5 degree forward and 10 degree backward
	2 front wheels driven / 2 rear wheels steering
	Lifting speed with load not less than 550 mm/sec
	Lowering speed without load not less than 550 mm/sec
	Speed: Minimum of 20km/h
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Skid Steer Loader



Specification	
<b>General</b>	A brand-new skid steer loader of reputed make
	Year of manufacture must not be older than five years
<b>Engine Type</b>	The diesel engine should have a gross power of minimum 50kW
	Net flywheel power should be minimum 45kW
<b>Operation</b>	Rated operating capacity should be minimum 1200 kg
	Tipping load of minimum 2000kg
<b>Hydraulic System</b>	Hydraulic Flow - Standard - Loader Hydraulic Flow of at least 23 gal/min
<b>Power Train</b>	Travel Speed - Forward or Reverse – minimum 10 km/h
	Travel Speed - Forward or Reverse - minimum 15 km/h
<b>Cab</b>	Cab frame has to be ROPS and FOPS approved for maximum operator protection.
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Pickup - 1.5 TON



Specification	
<b>General</b>	A brand new commercial flat bed truck of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 70kW
<b>Payload</b>	1500 kg or equivalent
<b>Steering</b>	Manual Transmission minimum 5 speed
	Power steering system
	Diaphragm spring clutch
<b>Chassis</b>	All steel body with drop sides.
	Pressed and bended steel guard frame
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Automatic mirrors
	Air-conditioned cabin
	Reverse warning buzzer
	Water separator in fuel line
<b>Documentation</b>	Laminated windshield glass
	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
<b>Other Requirements</b>	Operators Manual in English should be supplied
	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Pickup 3-3.5 TON



Specification	
<b>General</b>	A brand new commercial flatbed truck of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 70kW
<b>Payload</b>	Should be between 3000 kg to 3500 kg
<b>Steering</b>	Manual Transmission minimum 5 speed
	Power steering system
	Diaphragm spring clutch
<b>Chassis</b>	All steel body with drop sides.
	Pressed and bended steel guard frame
<b>Dimensions</b>	Overall length maximum should be 6025mm.
	Overall width maximum should be 2100mm.
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Automatic mirrors
	Air-conditioned Cabin
	Reverse warning buzzer
	Water separator in fuel line
<b>Documentation</b>	Laminated windshield glass
	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
<b>Other Requirements</b>	Operators Manual in English should be supplied
	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Lorry 8 Ton



<b>General</b>	A brand new commercial flat bed lorry of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 70kW
<b>Payload</b>	8000 kg or equivalent
<b>Steering</b>	Manual Transmission minimum 5 speed
	Power steering system
	Diaphragm spring clutch
<b>Chassis</b>	All steel body with drop sides.
	Pressed and bended Steel Guard Frame
<b>Dimensions</b>	Overall length maximum should be 9000mm.
	Overall Width maximum should be 2700mm.
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Automatic mirrors
	Air-conditioned Cabin
	Reverse warning buzzer
	Water separator in fuel line
<b>Documentation</b>	Laminated windshield glass
	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
<b>Other Requirements</b>	Operators Manual in English should be supplied
	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Heavy Dump 20-25 Ton



Specification	
<b>General</b>	A brand new commercial tipper truck of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 100kW
<b>Payload</b>	Should be between 20000 kg to 25000 kg
<b>Steering</b>	Manual Transmission minimum 5 speed
	Power steering system
	Diaphragm spring clutch
<b>Chassis</b>	Auto release two-way tailgate.
	Auto release body lockdown hook.
<b>Dimensions</b>	Overall length max: 9000mm.
	Overall Width max: 2800mm.
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Automatic Mirrors
	Air-conditioned cabin
	Reverse warning buzzer
	Water separator in fuel line
Laminated windshield glass	
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Dump Truck 3-4 Ton



Specification	
<b>General</b>	A brand new commercial tipper truck of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 100kW
<b>Payload</b>	Should be between 3000kg to 4000kg
<b>Steering</b>	Manual Transmission minimum 5 speed
	Power steering system
	Diaphragm spring clutch
<b>Chassis</b>	Auto release two-way tailgate.
	Auto release body lockdown hook.
<b>Dimensions</b>	Overall length max: 6025mm.
	Overall Width max: 2100mm.
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Air-conditioned cabin
	Reverse warning buzzer
	Water separator in fuel line
	Laminated windshield glass
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years



## Water Bowser



Specification	
<b>General</b>	A brand new commercial water tanker truck of reputed make
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 20kW
<b>Tank</b>	Capacity should be between 4000 - 5000 Liters
	Material should be carbon steel or equivalent standard
	Flow speed should be minimum 300 L/min
<b>Dimensions</b>	Overall length max: 6025mm.
	Overall Width max: 2100mm.
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Air-conditioned cabin
	Reverse warning buzzer
	Water separator in fuel line
<b>Documentation</b>	Laminated windshield glass
	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
<b>Other Requirements</b>	Operators Manual in English should be supplied
	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
<b>Other Requirements</b>	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Bitumen Spray Truck



Specification	
<b>General</b>	A brand new bitumen spray truck of reputed make that is built for small to medium sizes road
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system, turbocharged and water-cooled
	Rated power of minimum 18kW
<b>Tank Capacity</b>	Capacity should be minimum 4000 Liters
<b>Spray Bar</b>	Standard width 2.4 m
	Adjustment width between 2.4 m to 4.1 m
	Spraying pressure of minimum 0.6 kg/cm <sup>2</sup>
<b>Pump</b>	2" x 2" Size positive displacement gear pump or equivalent
	Output of minimum 300 L/ min.
<b>Air Compressor</b>	Standard make 2-cylinder air compressor
<b>Other Mechanical Specification</b>	Right hand drive
	Dual rear tyres
	Air-conditioned Cabin
	Water separator in fuel line
	Laminated windshield glass
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Roller Pneumatic



<b>Specification</b>	
<b>General</b>	A brand new pneumatic tyre roller of reputed make that is built for asphalt compaction.
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system and turbocharger
	The engine net power has to be minimum 60kW
<b>Dimensions</b>	Working width should not exceed 2040 mm
<b>Weight &amp; Driving</b>	Operating weight minimum 8000kg
	Maximum weight with ballasting should be minimum 24000 kg
	Maximum transport speed 15 km/h to 25km/h
<b>Other Mechanical Specification</b>	Type of watering: Pressure
	Water capacity for tyre watering minimum 400 L
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Mobile Crane 25T



Specification	
<b>General</b>	A brand new rough terrain crane
	Year of manufacture must not be older than five years
	GVW of crane should be not less than 25,000kg
<b>Engine</b>	The diesel engine has to have direct injection system and turbocharger
	Engine output should be minimum 150kW @ rated rpm.
	Maximum Torque: Not less than 840 Nm @ rated rpm.
<b>Boom</b>	04 Section full length power telescoping boom.
	Fully extended boom length not less than 31 m.
	Jib: Two staged swing around boom extension.
	Maximum jib length not less than 12m.
<b>Hoist</b>	Power load lowering and raising main winch & auxiliary winch should be with variable speed grooved drum driven by hydraulic axle piston motor through speed reducer.
	Hoisting line speed (winch up) at 4th layer should not less than 125m/min
	Main winch & auxiliary winch should be equipped with automatic brake and counterbalance valve.
	Over-winding cut out device with warning system
	Spin-resistant wire rope
<b>Hydraulic System</b>	Two variable piston pumps for telescoping, elevating and winches.
	Tandem gear pump for steering, swing & optional equipment.
<b>Cab and Crane Control</b>	Should be covered by windshield glass window and roof glass window are shatter-resistant
	Adjustable control lever stands for slewing, boom elevating, boom telescoping, auxiliary winch and
	Operation of crane should indicate on an LCD display panel.
	The crane should be equipped with machine data logging and monitoring system
	The cab should be air conditioned
<b>Safety Devices</b>	Over unwinding prevention

	Over shift prevention
	Emergency steering system
	Boom position indicator
	Outrigger state indicator
	Drum rotation indicator
	External warning lamp
<b>Outriggers</b>	Outriggers should be hydraulic operated H- type.
	Each outrigger should be controlled simultaneously or independently from either side of carrier.
	Should be equipped with extension width detector for each outrigger.
	Outriggers should be extended in 04 stages (fully, middle and minimum).
<b>Transmission</b>	Travelling speed not less than 25 km/h.
	Should be with hydraulic power steering.
<b>Drive System</b>	Should be able to use 4x2 and 4x4 wheel drive
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Motor Grader



Specification	
<b>General</b>	A brand new motor grader of reputed make built for small to medium size road
	Year of manufacture must not be older than five years
<b>Engine</b>	The diesel engine has to have direct injection system and Turbocharger
	The engine net power has to be minimum 120 HP
<b>Dimension</b>	Width over tyres should be less than 2600 mm
<b>Mold Board</b>	Blade width should be maximum 3m
<b>Blade Range</b>	Depth of cut should be maximum 775mm
	Maximum lift above the ground should be between 350-500mm
	Blade tip range backward should be between 3-10°
	Blade tip range forward should be between 30-45°
<b>Cab</b>	Cab frame has to be ROPS and FOPS approved for maximum operator protection.
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Excavator – (25)



Specification	
<b>General</b>	Hydraulically controlled mini excavator operating weight with canopy, Dozer blade, should be between 2.5 - 3 ton.
	Year of manufacture must not be older than five years
<b>Engine</b>	The engine should be water cooled 4 cycle 3-cylinder diesel powered or equivalent
	The engine net power has to be minimum 20 HP
	Nominal flywheel power Not less than 15 kW (Gross)
<b>Operation</b>	Hydraulically operated swing motor with 360° full circle rotation
	Swing Speed Not less than 9.5 RPM
	Maximum grade shall be not less than 50 %
	Maximum reach of bucket shall be not less than 4,500mm
	Maximum digging depth shall be not less than 2,400mm
	Maximum dumping height shall be not less than 2,750mm
	Bucket Digging force shall be not less than 21kN
	Arm Digging force shall be not less than 13kN
Welded, unitized Dozer Blade has to be provided.	
<b>Undercarriage</b>	Shoe size minimum 300mm
	Minimum travelling speed should not be less than 4km/h
<b>Cab</b>	Open driver's ROPS & TOPS certified canopy and Hydraulic safety lock lever has to be provided.
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years

## Excavator – (35)



<b>Specification</b>	
<b>General</b>	Hydraulically controlled mini excavator operating weight with canopy, Dozer blade, should be between 3.5 - 4 ton.
	Year of manufacture must not be older than five years
<b>Engine</b>	The engine should be water cooled 4 cycle 3-cylinder diesel powered or equivalent
	The engine net power has to be minimum 20 HP
	Nominal flywheel power not less than 20 kW (Gross)
<b>Operation</b>	Hydraulically operated swing motor with 360 <sup>o</sup> full circle rotation
	Swing Speed Not less than 9.5 RPM
	Maximum grade shall be not less than 50 %
	Maximum reach shall be not less than 5,000mm
	Maximum digging depth shall be not less than 3,000mm
	Maximum dumping height shall be not less than 3,250mm
	Bucket Digging force shall be not less than 29kN
	Arm Digging force shall be not less than 19kN
Welded, u1234nitized Dozer Blade has to be provided.	
<b>Undercarriage</b>	Shoe size minimum 300mm
	Minimum travelling speed should not be less than 4km/h
<b>Cab</b>	Open driver's ROPS & TOPS certified canopy and Hydraulic safety lock lever has to be provided.
<b>Documentation</b>	Parts Catalogue in English should be supplied
	Maintenance Manual in English should be supplied
	Operators Manual in English should be supplied
<b>Other Requirements</b>	Should be a reputable brand commonly used in the Maldives
	Warranty and after sales service for a period of 1 year
	Consumable spare parts required for periodical maintenance of the machine such as (fuel filter, oil filter, air filter, hydraulic filter) to be provided for a maintenance period of 2 years