

**SPECIFICATION FOR VEHICLE
PURCHASING**

SPECIFICATION FOR VEHICLE PURCHASING

TABLE OF CONTENTS

		Page Number
1.0	Specification for Four Wheel Drive Double Cab Pick Up	6bw – 2 - 6bw-6
2.0	Specifications for brand new petrol driven, 1300/1500/1600 cc four doors, sedan cars	6bw – 7 – 6bw -11
3.0	Specification for brand new half body cargo truck	6bw – 12 – 6bw-16

SPECIFICATION FOR VEHICLE PURCHASING

GENERAL SPECIFICATIONS

1. Specification for Four Wheel Drive Double Cab Pick Up

Double Cab Pick Up shall be brand new Diesel powered right hand driven with seating capacity for five passengers including the driver.

The double cab pick-up shall have a factory fitted air conditioning system and Power assisted steering and shall be fitted with all the standard accessories. The vehicle shall conform to the motor traffic regulations and environmental regulations presently in force in Sri Lanka.

The make and model series of the vehicle offered should have been in use (irrespective of the year of manufacture) in Sri Lanka at least for three years. The pick-ups offered shall be suitable for tropical use.

1.1 Engine

- Engine capacity shall not be less than 2,400 cc
- Diesel powered, Turbo charger with intercooler, Double Overhead Cam inline water cooled engine.
- Common rail direct fuel injection system which suitable for fuel types available in Sri Lanka.

1.2 Transmission

- 6 speed Automatic with Sequential Shift.
- Transfer gear box (4 x 4 system) should be available with (minimum) 2 Wheel Drive High (2H), Four Wheel Drive High (4H) and Four Wheel Drive Low (4L) modes.

1.3 Brakes

Power assisted Hydraulically operated brakes on all four wheels.

- Ventilated disc brakes in front and drums for rear
- Mechanical Parking Brakes

1.4 Electrical System

- All standard lighting to meet motor traffic regulations of Sri Lanka.
- 12V electrical system.
- Electrical Horn.
- Two windshield wipers with dual speed and intermittent speed (variable speed) to work over full area of windscreen.

1.5 Instrument Panel

- Speedometer, Tachometer, odometer (in km) with trip counters.
 - Turn signals / Hazard indicator light
 - Glow plug indicator light
 - Warning lamps / indicators for
 - Low Oil Pressure
 - Battery Charging
 - Low Brake Oil Level
 - Brake servo vacuum leak (if available)
 - Water Level in Diesel filter
 - Hand Brakes
 - Hi/Low Beam
 - Gauges
 - Fuel Gauge
 - Coolant Temperature Gauge
 - Digital Clock
- Multi-Information Display(MID)
Colour LCD Multi Information Display shall include;
Average Fuel Economy, Average Speed, eco drive indicator and
distance to empty indicator.

1.6 Suspension

- Independent double wishbone Suspension at front with Hydraulically Operated (Double acting) shock absorbers.
- Semi Elliptical leaf springs at rear with Hydraulically operated (Double acting) Shock absorbers.

1.7 Steering

Power assisted steering with tilt and telescopic adjustment.

1.8 Tyres and Wheels

- Standard type size available in Sri Lanka
- Radial tubeless tyres for all wheels
- Alloy wheels(including the spare wheel)
- Spare Wheel with a bracket

1.9 Dimensions

Dimensions

- Ground clearance should be more than 220 mm
- Wheel Base should not be less than 3,000 mm

1.10 Exterior

- Power mirror with retract /winkers
- Mud flaps front and rear
- Side steps and rear steps
- Front fog & driving lamp
- High mount stop lamp with LED
- Double wall deck
- Rear deck guard frame
- Rear window defogger

1.11 Interior

- Factory fitted Automatic Temperature Control type air conditioning system
- Remote power door locks with speed sensor
- AM/FM Radio CD/DVD/ USB/Blue Tooth/ Reverse camera, with 4 speaker system
- Power assisted windows, Auto down at driver's side
- Factory fitted bucket type individual seats for driver and front passenger.
- Fabric knit seat material

- Door pockets and arm rests
- Front and rear headrests with separate seats
- Front/rear assist grip
- Front personal lamp with overhead console
- Digital clock
- Multi functioning steering wheel controls
- Smart entry with Push Start
- Cruise Control

1.12 Safety & security

- Inside rear view mirror day and night
- Door impact bars
- Front and rear seat belts
- Anti-lock Brake system (ABS) with electronic Brake Force Distribution (EBD),
- Supplemental Restraint System air bags for driver and passengers
- Knee air bags for driver & front passenger
- Immobilizer
- Rear parking camera

1.13 Others

Owner manual and Standard Tool kit shall be provided.

1.14 Technical Literature

All technical literature pertaining to specification and engine performance curves etc. shall be Submitted with the offer. In addition the successful supplier shall provide the following catalogues and handbooks:

- Diver's manual for vehicle.

1.15 Warranty

Warranty to cover against defective material and workmanship during the first 60,000 kms or 36 months of operations, whichever comes first.

1.16 Services

Three labour free Service for 1,000 km , 5,000 km and 10,000 km.

1.17 Registration

The supplier shall do the 1st registration with the Registrar of Motor Vehicles(RMV) and provide for the number plates.

The supplier shall inform NWS&DB for inspection and checking of the vehicles before Registration with RMV under NWS&DB ownership.

2. Specifications for brand new petrol driven, 1300/1500/1600 cc four doors, sedan cars

Vehicles shall meet the following minimum requirements.

Motor Cars shall be Brand new, petrol powered, right hand driven with seating capacity for 05 passengers including the driver. Cars shall have a factory fitted air conditioning system, power assisted steering and shall be fitted with all the standard accessories in addition to the accessories specifically mentioned below.

The vehicles shall conform to the motor traffic regulations and environmental regulations presently in force in Sri Lanka.

The make and model series of the vehicle offered should have been in use (irrespective of the year of manufacture) in Sri Lanka at least for three years.

The motor cars offered shall be suitable for tropical use and shall not be in any way inferior in quality of similar cars and Models which are on display and supplied ex-show rooms.

2.1 Engine

- Petrol powered engine shall be of 1300/1500/1600 cc capacity.
- Four cylinder, Four stroke, Water Cooled with Dual Variable Valve Timing
- Electronic Fuel Injection (EFI) system which suitable for the fuel types available in Sri Lanka
- Replaceable filter elements for air, oil and fuel.
- Exhaust emission standard should be compatible at least to Euro IV

2.2 Transmission

-
- Automatic transmission with sequential shift.

2.3 Brakes

- Power assisted hydraulic operated brakes on all wheels.
 - Front brake - Ventilated disks
 - Rear brakes - Leading and trailing drums or Ventilated disks
- Anti-lock Brake System (ABS) should be Available.
- Parking brakes

2.4 Electrical System

- 12 V electric system with an alternator and battery of adequate capacity
- All standard lighting to meet the motor traffic regulations of Sri Lanka
- Reflectors
- Directional signals at front and rear with hazard switch.
- Two windshield wipers with dual speed and intermittent speed (variable speed) to work over full area of windscreen.
- Windscreen washer
- Electrical horn
- Cabin lights

2.5 Instrument Panel

- Speedometer, Tachometer, odometer (in km) with trip counters.
 - Turn signals / Hazard indicator light
 - Warning lamps / indicators for
 - Low Oil Pressure
 - Battery Charging
 - Low Brake Oil Level
 - Brake servo vacuum leak (if available)
 - Hand Brakes
 - Hi/Low Beam
 - Gauges
 - Fuel Gauge
 - Coolant Temperature Gauge
 - Digital Clock

- Multi-Information Display(MID)

Colour LCD Multi Information Display shall include;

Average Fuel Economy, Average Speed , eco drive indicator and distance to empty indicator

2.6 Suspension

- Front - Independent by McPherson struts and coil springs
- Rear - Independent struts and coil springs

2.7 Steering

- Electronic Power steering (EPS) with steering column tilt and telescopic adjustment.
- Multifunction steering

2.8 Tires & Wheels

- Radial tyres, sizes available in Sri Lanka with alloy wheels.
- Full size Spare wheel

2.9 Dimensions

Ground clearance should be more than 140 mm

Wheel base should be more than 2,600 mm

2.10 Interior features

- Remote power door locks with speed sensor
- AM/FM Radio CD/DVD/ USB/Blue Tooth/ Reverse camera, with 4 speaker system
- Power assisted windows, Auto down at driver's side
- Factory fitted bucket type individual seats for driver and front passenger.

- Fabric knit seat material
- Door pockets and arm rests
- Remote boot opener
- Remote Fuel lid opener
- Sun visors with mirrors
- Front and rear headrests
- Front/rear assist grip
- Front personal lamp with overhead console
- Digital clock
- Multi functioning steering wheel controls for audio and cruise control
- Smart entry with Push Start
- Cruise Control

2.11 Exterior

- Power mirror with retract /winkers
- Mud flaps front and rear
- Front fog /driving lamp
- Day time running lamp
- High mount stop lamp with LED
- Rear window defogger

2.12 Air Conditioner/Heater

- Air conditioner shall be powered by the engine & it shall be factory fitted.
Locally fitted systems will not be accepted.
- Air conditioner shall have adequate cooling capacity for all passengers in the cabin
- Refrigerant shall be eco — friendly (CFC free).
- Air conditioner shall be with AUTO feature (climatic control)

2.13 Additional features& accessories

- Standard tool kit
- Hydraulic jack/accessories
- Front &rear mudguards (flaps)
- Full size spare wheel

2.14 Safety

- Inertia reel type seat belts for driver & all passengers.
- Vehicle stability control (VSC)
- Impact absorbing body
- Seat belt warning (Blink + Buzzer)
- Rear parking cameras with reverse sensor
- Air bags shall be available (Driver +Passenger +Side Curtain + Knee)
- Burglar alarm / Immobilizer

2.15 Technical Literature

All technical literature pertaining to specification shall be submitted with the offer. In addition, the successful supplier shall provide the Owner's manual for each vehicle supplied.

2.16 Warranty

Warranty to cover against defective material and workmanship during the first 40,000 km or 24 months of operations, whichever comes first.

2.17 Services

Three labour free Service for 1,000 km , 5,000 km and 10,000 km.

2.18 Registration

The supplier shall do the 1st registration with the Registrar of Motor Vehicles(RMV) and provide for the number plates.

The supplier shall inform NWS&DB for inspection and checking of the vehicles before registration with RMV under NWS&DB ownership.

3. Specification for brand new half body cargo truck

Vehicle shall be brand new Diesel powered, Right hand driven, air conditioned front cab with seating capacity for three passengers including the driver and shall meet the following minimum requirements.

3.1 GENERAL

Cab over type , Rear Flat Bed with approximately 450 mm height 3 Doors which could be opened. Cargo Truck, having a payload capacity of not less than 10,000 kg and permissible gross vehicle weight not less than 15,000 kg

3.2 PERFORMANCE

- Pay Load Capacity - Not less than 10,000 kg
- Minimum Turning radius - Less than 8.9 m
- Gradability - 25%

3.3 ENGINE

Water-cooled,04-stroke,turbocharged,in line, overhead valve, diesel engine having rated output of not less than 170 kW.

Exhaust emission standard should be compatible at least to Euro IV.

(Manufacture's emission standard certificate should be attached)

3.4 CHASSIS

Heavy duty frame with cross members

3.5 CLUTCH

Hydraulically operated dry single plate type with air assisted Booster. Floor mounted gear shift control.

3.6 TRANSMISSION

A manual synchromesh transmission having at least 05 forward and 01 reverse speed

3.7 STEERING

Right hand driven power assisted type with adjustable position type steering wheel

3.8 BRAKES

- Air over hydraulic dual circuit with power assistance on all wheels,
- Parking brake of a hand operated mechanical/pneumatic type

3.9 SUSPENSION

Heavy-duty front and rear semi elliptical leaf springs and front double acting shock absorbers.

3.10 WHEELS & TYRES

- Tyre size should be locally available. Spare wheel should be mounted on a bracket.
- Tyres and rims to be interchangeable to all wheels.

3.11 CAB

Welded steel construction tilting cab with suspension provided with and Adjustable driver's rear view mirrors, safety glass windows, windshield Washer and wiper, sun visors.

The cab should be equipped with factory fitted air conditioner with heater & defroster. Cab should be extensively treated for corrosion resistance.

3.12 CARGO BODY

The cargo body of three way opening type and fabricated with all welded structure steel with bracing and longitudinal hard wood floorings covered with steel checkered plate. All bracings and internal surfaces of the cargo bed should be painted with two coats of heavy duty epoxy paint.

The wooden flooring also should be of a good quality hard timber treated with wood preservatives and painted to prevent deterioration.

A sturdy guard frame should be available on the rear cargo body to protect the cabin from moving cargo.

Dimensions of the cargo body should be as follows.

- Length - 6,500 mm minimum
- width - 2,300 mm minimum
- Height - 450 mm minimum
- Thickness of wooden flooring - 25 mm Approximate
- Thickness of chequered plate of flooring - 4.5 mm minimum
- Thickness of body side plate - 3mm minimum

3.13 FUEL TANK

Fuel tank capacity is not less than 100 liters with lockable tank cap.

3.14 ELECTRICAL SYSTEM

A 24V alternator with 2x 12V batteries

3.15 INSTRUMENT

Speedometer, Odometer with trip counter

- Turn signals / Hazard indicator light
- Glow plug indicator light
- Warning lamps / indicators for
 - Low Oil Pressure
 - Battery Charging

- Low Brake Oil Level
- Brake system air pressure
- Water Level in Diesel filter
- Hand Brakes
- High Beam

- Gauges

- Fuel Gauge
- Coolant Temperature Gauge

3.16 ACCESSORIES

- Tow hooks at front and rear, backup alarm and other manufacturer's standard accessories.
- AM/FM Stereo Radio with USB Port.

3.17 TOOLS

- Wheel Brace & the Hydraulic jack suitable for the vehicle.
- A set of manufacturer's standard maintenance tool kit in a lockable tool box.

3.18 SAFETY

- Inertia reel type seat belts for driver & all passengers
- Anti-lock Brake system (ABS)

3.19 TECHNICAL LITERATURE

All technical literature pertaining to specification and performance (engine performance curve, dimension, etc.) in support of offer shall be submitted.

Successful bidder shall provide Driver / Operator manual of for each vehicle supplied.

3.20 WARRANTY

Warranty to cover against defective material and workmanship during the first 50,000 km or 24 months of operations, whichever comes first.

3.21 SERVICES

Three labour free Service for 1,000 km , 5,000 km and 10,000 km.

3.22 REGISTRATION

The supplier shall do the 1st registration with the Registrar of Motor Vehicles(RMV) and provide for the number plates.

The supplier shall inform NWS&DB for inspection and checking of the vehicles before

Registration with RMV under NWS&DB ownership.