

CAMEROON DEVELOPMENT CORPORATION

GROUP BANANA

SPECIFICATIONS OF BRAND NEW AGRICULTURAL TRACTORS

- I. **GENERAL:** The intended tractors are to be used for the transportation of materials and chemicals, loading of bunch waste in development areas and spreading of chemicals in the field. Also carry out the following land preparation operations crushing, disking, leveling, sub-soiling and trenching. They will be covering an average of 150km per day each. Therefore the tractors to be purchased must be brand new, reliable and tailored for tropical weather and bad road condition.

Therefore, the contractor or supplier must be an authorized licensed automobile dealer, reliable and his auto facility readily accessible with adequate stock of spare parts that can be obtained easily for the effective maintenance of the tractors to be purchased.

The following documents are required in order to ascertain legibility:

- 1) The contractor/supplier must be an authorized dealer by the Auto-Manufacturer.
- 2) The contractor/supplier must have a Dealer's license from Cameroon Government.
- 3) The contractor/supplier must have a Dealer's sales and maintenance facilities located within Cameroon.
- 4) The contractor/supplier must provide a servicing and maintenance guarantee period of One (1) year.
- 5) The supplier must provide after service and free service at 50 hours and 250 with (Fuel filters, Oil filters, Air filters and Engine oil).
- 6) The contractor/supplier must have a training program for project drivers and mechanics before the truck head is supplied.
- 7) The contractor/supplier must provide Data Characteristic Sheet containing a pictorial view of the truck, engine data, transmission data, chassis data, suspension data, Brakes system data, weight capacity and truck dimension data from the auto-manufacturer.
- 8) Guarantee from the manufacturer that the spares will be available for at least twenty (20) years.
- 9) Availability of training on the use and maintenance of the equipment, including details materials of the training.
- 10) Quotations should contain the relevant pictures
- 11) Users Manuals in English
- 12) Workshop Manuals in English
- 13) Spare Parts Catalogue in English
- 14) Essential spares to cover one year use.
- 15) Equipment to be supplied should be of European Union origin.

II. TRACTOR MANUFACTURER

- 1) MAKE - (To be specified by the bidder)
- 2) MODEL - (To be specified by the bidder)
- 3) TYPE - (To be specified by the bidder)



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**TECHNICAL SPECIFICATIONS FOR AGRICULTURAL 4X4WD
TRACTOR (80 – 90hp) WITH FRONT LOADER BUCKET.**

III. TECHNICAL INFORMATION

- 1) Tractor type - 4 wheel; 2 wheel; 2 wheel drive / 4 wheel drive
- 2) Engine Model - To be specified by supplier.
- 3) Horse Power - Range between 80hp to 90hp (59.7 – 67.1KW)
- 4) Compression ratio - Range between 15.0:1 to 16.0:1
Stroke – Range between 125mm to 140mm
- 5) Nominal Bore - Range between 95mm to 105mm
- 6) Induction system - Natural aspiration
- 7) Direction of rotation – Clockwise from the front.
- 8) Type - 4 stroke direct injection Diesel engine, Turbo charged with oil cooler.
- 9) No. of Cylinders - 4 in line
- 10) Rated Engine speed - Range between 2000 rpm 2500 rpm
- 11) Canopy over operator's seat - plastic.
- 12) Seat belt
- 13) Speedometer/tachometer - Service hour metering
- 14) Warning system for dysfunction in braking system, alternator, engine cooling system, hydraulic system, transmission, lubrication system.
- 15) Lockable battery compartment and fuel.
- 16) Hologen headlamps with high/low beam features.
- 17) Stop lights - Tail lights, back working lights.
- 18) Turn signal lights, front and rear - Tool box.
- 19) Tool box kit.

The tractors should be further equipped with the following:

- Hitch that can couple to implements for ploughing deep, scarifying harrowing, sowing, rotary tillaging as well as pulling a trailer.
- Power take off shaft should be of minimum diameter 35mm.
- Hydraulic power system and ports for connecting hydraulic hose lines to implements such a tipping trailer.
- Electrical sockets for connecting power supply to trailer brake lamps and turn signal lamps.
- Front-mounted counter weights
- Electric winch, 10 tons min capacity.

CLUTCH

- 1) Type - Dry, single – disc or plate
- 2) Type of clutch plate - Ceramic

TRANSMISSION

- 1) Type – 4 forward 4 reverse with high and low selection levers.
- 2) Differential lock system – foot operated mechanically.



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ENGINE

- 1) Type - 4 – stroke Direct Injection Diesel engine, turbo charged with oil cooler.
- 2) No. of cylinders - 4 in- line.

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- 1) Type - rear, independent, double – speed with hydromechanical control system.
- 2) Rotational speed - Independent I, rpm – 540
- Independent II, rpm - 1000

STEERING

- 1) Type - Power steering
- 2) Lifting Capacity - Range from 2500kg to 3500 kg

TYRES

- 1) Front - 340/85R24 – 13.6R24
- 2) Rear - 460/85R30 – 18.4R30

DRIVER's SEAT

- 1) TYPE – Adjustable.

SERVICE REFILL CAPACITY

- 1) Fuel tank - Steel and range from 90 -110L
- 2) Hydraulic oil tank – range from 45 – 50L
- 3) Engine oil - range from 10 – 12L

ELECTRICAL

- 1) Battery - 12V , 80 – 100Ah

FRONT – END LOADER

- 1) Bucket distance in m - 2.1 – 2.6
- 2) Bucket lifting capacity - 1406.1Kg – 1587.6Kg
- 3) Bucket width - 2133.6mm – 2565.4mm



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MAIN ELIMINATORY CRITERIA

SPECIFICATION	VALUE/REQUIREMENTS
Power rating, hp (KW)	80 – 90hp (59.7 – 67.1KW)
<u>TRANSMISSION</u>	
1) TYPE	- 4 Forward 4 Reverse with high and low range selection levers.
2) Differential Lock System	- Foot operated mechanically.
Clutch	Dry, single – disc or plate.
<u>Engine</u>	
Type	- 4 – stroke Direct Injection Diesel engine, turbo charged with oil cooler.
No. of cylinders	- 4 in- line.
<u>PTO</u>	
1) TYPE	Rear, independent, double- speed, with hydromechanical control system.
2) Rotational speed	Independent I rpm – 540 Independent II, rpm – 1000
<u>Tyre size</u>	
1. Front	- 340/85R24 – 13.6R24
2. Rear	- 460/85R30 – 18.4R30
<u>Front Loader</u>	
1) Bucket distance	- 210 - 260mm
2) Bucket lifting capacity	- 1400 - 1600Kg
3) Bucket width	- 210 - 256cm
Canopy over driver's seat	- Steel
Fuel tank	- Steel



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