


ANNEX A: Technical Specifications of Tractor and Trailer
ITB/HCR/GSO/2022/007

Description /Specifications of Goods*	Model/ Brand	Country of Origin
<p><u>1.0 Agricultural tractors 75-85 Hp: Massey Ferguson 385 OR Taffee, OR New Holland, Belarus OR Equivalent quality</u></p>  <p>Technical Specifications:</p> <p>Engine: -</p> <ul style="list-style-type: none"> - Diesel, 3-4 cylinders in line with replaceable cylinder sleeves developing - Machine power (75- 85) HP at the rated speed of 2,000-2,500 rpm. <p>Air Cleaner:</p> <ul style="list-style-type: none"> - Efficient, heavy-duty type consisting of two parts: - Pre-cleaner, followed by: - Main air filter, dry or oil bath type. <p>Fuel system: - Consisting of:</p> <ul style="list-style-type: none"> - Metallic fuel tanks of minimum capacity 60 liters, fitted with - Strainer in the fuel filling opening. - Manual operated fuel lift pump. - Twin or dual stage fuel filter with replaceable elements. - Fuel injection pump with mechanical or pneumatic governor. <p>Lubrication system: - Composed of: -</p> <ul style="list-style-type: none"> - High-capacity force feed lubrication pump of gear, piston, or rotary type (gear type) equipped with oil strainer. - Efficient oil filter with a by-pass valve and replaceable element. <p>Cooling system: - Water-cooled system suitable for continuous operation under hot tropical climate (where ambient temperature may reach - 50oc). The system consists of:</p> <ul style="list-style-type: none"> - Centrifugal type water pump. - High-capacity cooler radiator. - High-capacity fan. - Thermostat. <p>Electrical equipment: -</p> <ul style="list-style-type: none"> - Heavy-duty battery 12 volts, 90-100 amps hour. - Electrical starting system. - Electric generator (alternator). - Voltage regulator. <p>Instrument panel: -</p> <ul style="list-style-type: none"> - Temperature gauge. - Oil pressure gauge - Fuel level indicator. - Battery charger indicator. - Tachometer (rpm). - Speedometer (km/hr). - Hour meter. - Air cleaner blockage indicator. - Horn. 		

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Lighting system: -

- Head and rear lights.
- Brakes and direction indicator lights.
- Rear tractor warning lights.
- Rear field flood lights.
- Pin type trailer socket.
- **N.B.** All electrical circuits to be protected by individual fuses.

Transmission: -

- Clutch: Dual or single dry clutch plate or multi disc wet type.
- Gearbox: Synchronized constant mesh or sliding spur. Manual change with high and low ratio combination to provide minimum 8 forward and 2 reverse speeds. Speed range 1.5-30 km/hr.
- Differential lock: Engage when necessary.

Hydraulic system: - Consisting of: -

- Gear or piston type pump with pressure range 140-175kg/cm² and minimum lift Capacity of 1500 kg.
- Automatic draft and position control independent of implement weight or length.
- Three points linkage of category II with adjustable upper arm, right lift arm and check
- Chains. Check chains to be of high-quality steel.
- External service valve for both single and double acting cylinders with sealed coupling and
- Two outlets for remote control of implements. Safety cover for external service outlets to Be provided.

Steering: -

- Hydrostatic or manual with turning radius 2.5-3.5 meters.

Power take off shaft: -

- Independent, rear, two speed 500-550 rpm, no less than 6 splines and 950-1100 rpm, up to 21 splines with protective cover, clockwise rotation.

Draw bar: -

- High quality steel swinging type with adjustable height.
- Minimum ground clearance 300-350 mm.

Axle tread adjustment: -

- Front track: 1200-2000mm.
- Rear track: 1200-2200 mm.

Wheels and tyres: -

- Steel disc wheel
- Tube tyres from natural rubber, heavy duty type.
- Type of regular agricultural tread type of the following size:
- Front: 7.00 X 15 (8 PR)-8*15(8PR)
- Rear: 13.0 X 34 (6 PR)-15.0*34(6PR)

Breaks: -

- Fitted with efficient braking system of oil immersed disc brakes.
- To be foot operated independently for right and left sides and equipped with interlocking device.
- Hand operated parking brake to be provided.

Other requirements: -

- Comfortable seat with back rest and position adjustment.
- Front weights and rear wheel weights.
- Toolbox fixed to the tractor with the following contents:
- 3-ton hydraulic jack.
- Grease gun.
- Foot operated air pump, or tractor operated air compressor.
- pair of pliers (grip type and standard)
- Set of open-ended spanners to fit all tractor nuts and bolts.
- Wheel spanner to fit front and rear wheel nuts.
- **Sunshade with protection frame.**

Technical documentations: -

- Operation and service manual (Arabic & English)
- Workshop manual
- Parts list catalogue.

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Information plate:

- Of durable material firmly fixed in an easily viewed position showing the following

Information: -

- Country of origin –
- Year of manufacturing
- Tractor power (Hp & KW)
- Make and model
- Engine serial number
- Chassis serial number.

Warranty: Minimum warranty period for one (1) year.

2.0 Agricultural Trailer:

Trailer with 4 tires. Capacity of (5) MT with all standard accessories:



- Loading capacity around 5 tan (matching tractor 45-85) Hp.
- Of steel body.
- Minimum Case Size (L*W*H) around 3500mm*1800mm*380mm.
- Dumping system: at least 1 way. –
- Axe: double axe system.
- Requited pulling power: not more than 35 Hp.
- Floor and side steel thickness: not less than 3 mm
- Shall be provided with all standard accessories

Confirmation:

The management of _____ do hereby confirm that product(s) being offered is/are in full compliance with UNHCR's technical specification as per Annex A.

Signed & Stamp: _____

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