# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Supply of equipment: Tipper truck, Backhoe loader, Skid steer loader and Tractor with trailer p 1 /…**

**Publication reference:** **CB007.2.31.169 – TD05**

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1 psc** | **LOT 1: Tipper truck**   |  |  | | --- | --- | | **Vehicle basis – chassis** | | | **Engine**  Engine power: minimum 185 kW  Maximum torque: minimum 850 Nm  No of cylinders: 6 cylinders in line  Euro class engine: minimum EURO 5  Fuel: Euro-diesel  Fuel filter heater  Engine cooling system: water  Operating capacity of the engine: maximum 6000 cm3 | | | **Transmission**  Manual, 9 synchronized gears + 1 reverse | | | **Driving formula**  4х2 | | | **Pneumatics**  12R22,5 (7 pieces) | | | **Color:**  Vehicle: white,  Chassis: black | | | **Cab**  Short, daily, 1+2 seat  Driver's seat with air suspension and safety belt and installed porter of breathing apparatus for respiratory protection at the seatbacks and headrests  Digital tachometer  Electric glass lifters  Tinted glass  Trip computer  Cruise control  Tipper cab | | | **Suspension:**  Front and rear parabolic springs, telescopic hydraulic shock absorbers | | **Braking system:**  ABS | | **Steering system:**  Servo, adjustable per height and gradient | | **Chassis dimensions:**  Length: maximum 6500 mm  Wheelbase: 3600 - 3700 mm | | **The maximum permissible total weight:**  18000 kg | |  | | **Vehicle bodies/upgrades** |  * Three-sided tipper superstructure with a volume of min 8 m³ * Tipper bucket reliance on the auxiliary chassis via the self-locking balls located on the auxiliary chassis * A 4 mm thick floor made of HARDOX 450 * Min 3 mm thick side profile made of C0563 or equivalent. * Tipper superstructure length min 4.100 mm * Tipper superstructure width min 2.300 mm * Tipper superstructure sides height min 800 mm * One-piece sides with the possibility of opening down * Lateral and rear tipping via swinging sides * The front side raised with the protection of the cabin and space between the tipper and the vehicle cabin * Auxiliary chassis and tipper superstructure connected by a steel safety cable * All steel surfaces of the crate sandblasted, thoroughly painted and finally varnished in blue * Hydraulic installation drive via PTO on the transmission * Hydraulic pump min 40 l / min * Hydraulics working pressure min 160 bar * Tipper hydraulic valve with a flow of min 100 l / min * Hydraulic tipper installation with a telescopic cylinder, * The command lever for tipper moving positioned on the left side of the driver's seat * Tarpaulin for covering the cargo crate made of PVC tarpaulin material with a mechanism for covering and uncovering the crate. The tarpaulin should be fastened to the wind deflector (to prevent the air going under the tarpaulin when moving) |  |  |  |
| **1psc** | **LOT 2: BACKHOE LOADER**   * + Factory new machine   + Rigid chassis machine with paralel loader arm kinematics   + Operating weight, min. 9400 kg   + Max. nett engine power (acc.to ISO 14396), min. 85 kW   + Engine emission level acc.to **TIER IV final** stndard   + Displacement max. 3,5 lit.   + Powershift full automatic transmission   + Max.speed, min. 35 km/h   + Four wheels driving (4WD)   + Four wheels steering (4WS)   + Loader bucket capacity min. 1,15 m³   + Loading bucket with "auto ride control system" to reduce bouncing during travel   + Movable backhoe device: left - right, at the rear side of the machine   + Max.digging depth, min. 5,8 m   + Transport position hight : max. 3,7 m   + Max.hydraulic pump flow rate, min.155 l/min   + Max.hydraulic oil pressure – max. 210 bar   + Working lights, front and rear (2+2)   + Rotating beacon   + Hydraulic hammer pipework   + Pneumatics – front and rear: min. 28“   + Digging bucket width: 600 mm   + Hydraulic breaker for backhoe 330 kg   + Tools for basic maintening   + Operating manual in Serbian   + Spare parts catalogue   + Authorized service support provided   + Handling training and trraining for basic maintening provided   + Dealership autorization iz a must. |  |  |  |
| **1psc**  **1psc** | **LOT3: SKID STEER LOADER**   * + Factory new machine   + Hydrostatic power transmission   + Operating weight, min. 2300 kg   + Engine power min. 35 kW   + Engine emission level acc.to **TIER IVi** stndard   + Displacement max. 2,2 lit.   + Fuel tank max. 65 lit.   + Max.speed, min. 12 km/h   + Loader bucket capacity min. 0,35 m³   + Loading bucket PIN hight min. 2800 mm   + Dump hight min. 2200 mm   + Cab hight max. 1950 mm   + Overall length, bucket on the ground max. 3050 mm   + Wheelbase min. 900 mm   + Ground clearance min. 170 mm   + Width over tyres min. 1500 mm   + Tyres min. 10 x 16,5   + Hydraulic flow rate, min.55 l/min   + Hydraulic oil pressure max. 210 bar   + Rateod operating capacity min. 550 kg   + Tipping load min. 1150 kg   + Lift cylinder breakout force min. 13 kN   + Bucket cylinder breakout force min. 19 kN   + Working lights   + Rotating beacon   + Hydraulic pipework * Tools for basic maintening * Operating manual in Serbian * Spare parts catalogue * Authorized service support provided * Handling training and trraining for basic maintening provided * Dealership autorization iz a must.   **LOT4: Tractor with trailer**   |  |  | | --- | --- | | **1.DRIVE** | 4WD | | **2.ENGINE** |  | | Model | 4100 ELT | | Hp Category | 75 | | Rated power (KW) | 52 | | Type | Diesel, four stroke, 4 cylinder | | Displacement(cc) | 3707 | | No. of cylinders | 4 | | Bore/Stroke (mm) | 100/118 | | Rated engine RPM | 2000 | | Max Torque(Nm) | 289 | | Air cleaner | Dry air cleaner with clogging  sensor | | Cooling | Water, under pressure | | Fuel injection pump/injectors | BOSCH/BOSCH | | Oil pressure at rated power speed | 3.5-5.2 | | Compression Ratio | 18:2:1 | | Cold-start system / Type | YES, on inlet mainfold | | **3.GEAR BOX AND DIFFERENTIAL** |  | | Type | Sinhroni | | No. of gears( forward/ reverse) | 12N+12R | | Maximum speed (km/h) | 31.9 | | Differential lock | Yes, foot lock | | **4.CLUTCH** |  | | Type | Double | | Friction plate (lining)-drive / PTO | Ceramic / organic | | Diameter of friction plate(mm)-drive / PTO | 320 | | **5.PTO** |  | | Type | Independent / synchronized | | RPM | 540/540E(750) | | Number of splines | 6 | | Max. Power of PTO(HP) | 55 | | **6.BRAKES** |  | | Type | Oil discs | | Number of brake plates | 5 | | Parking brake | Yes, Independent | | Trailer Brake | Yes, air type | | Type of kompresor | Piston type | | **7.STEERING** |  | | Type | Power steering | | Turning radius(m) | 4.53 | | **8.HYDRAULIC** |  | | Lifting capacity | 2500 | | Type of pump | Gear type (MITA) | | Capacity of pump(lpm) | 45 | | Options (positioning/draft control) | positioning / draft control | | 3 point linkage | CAT II | | Hydraulic jacks | 2 DA / 2 SA | | **9.ELCTRICAL** |  | | Battery | 12V,110A | | Alternator | 12V,90Ah | | Horn | YES | | 7-terminal Socket | YES | | Fuse Box | YES | | Neutral safety switch | YES | | P.T.O safety switch | YES | | Clutch safety switch | YES | | **10.TYRES** |  | | Front | 11.2x24 | | Rear | 16.9x30 (429/85R30) | | **11.DIMENSIONS AND WEIGHT** |  | | Wheel Base (mm) | 2345 | | Overall length (mm) | 4160 | | Overall width (mm) | 1980 | | Overall height-rops (mm) | 2520 | | Overall height-cabin (mm) | 2462 | | Ground clearence (mm) |  | | Front axle(mm) | 450 | | Betveen axles(mm)- without cabin / with cabin | 410 | | Rear axle(mm) | 570 | | Front track width (mm) | 1525 | | Rear track width (mm) | 1510 | | Weight (Unballasted)-without cabin/with cabin | 3025 / 3300 | | **12.QUANTITIES** |  | | Fuel tank capacity(I)-without cabin, with cabin | 78 / 100 | | Capacity of cooling system(l) | 13.5 | | Oil in engine(l) | 10.75 | | Oil in transmission (gear box, differential,  hydraulic )-(l) | 40.35 | | **13. STANDARD EQUIPMENT** |  | | ROPS | YES | | Swinging Drawbar | YES | | Top-link | YES | | BKT tyres | YES | | Spare parts kit | YES | | Tool kit | YES | | Rear view mirrors-left/right | YES | | Updraft silincer | YES | | Mobile Charger Point | YES | | Liftomatic | YES | | Weights-front/rear | YES | | **14. OPTIONAL EQUIPMENT** |  | | **Cabin** |  | | Cabin-without AC, with heating | YES | | Cabin-with AC,with heating | YES | | ***\*Standard equipment of cabin*** |  | | -Beacon lights | YES | | -Fog lights | NO | | -Rear working lights | YES | | -Rotating light | YES | | -Hinged Side glass/Rear glass | YES | | -Co-Passenger seat | NO | | -Front & Rear wiper | YES, front | | Liftomatic | YES | | Canopy | YES | | Extra weights-front/rear | YES | | Radial tyre | YES | | Downdraft silencer | YES | | TRAILER TECHNICAL FEATURES |  | | Trailer with double height sides | yes | | Capacity(t) | 4 | | Required tractor power (KW) | 25 | | Max speed (km/h) | 25 | | Tires | 10.0/75-15"10P | | Weight (kg) | 1030 | | Tipping system on 3 sides | yes | | Braking system pneumatic | yes | |  |  | |  |  |  |