



Republic of Uganda

**MINISTRY OF AGRICULTURE, ANIMAL INDUSTRY AND FISHERIES.
UGANDA CLIMATE SMART AGRICULTURAL TRANSFORMATION PROJECT(UCSATP)**

Project No: P173296

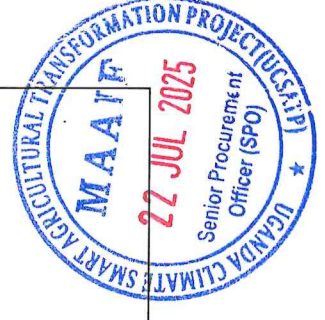
**SUPPLY, DELIVERY, TRAINING AND COMMISSIONING OF HEAVY EARTH MOVING EQUIPMENT,
ACCESSORIES AND MAINTENANCE UNITS. LOTS 1,2,3&4**

Procurement Ref: UG-MAAIF-449060-CW-RFB

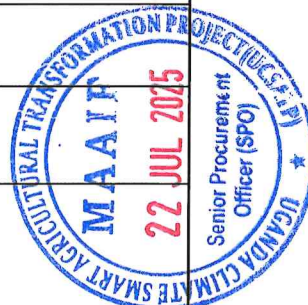
ADDENDUM 2/2025

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Addendum No. 2/2025	
Original Text	Amended text
Section 11, Bid Data Sheet, ITB 18.1, Bid Validity The Bid shall be valid for 120 days up to 16th January, 2026	Section 11, Bid Data Sheet, ITB 18.1, Bid Validity Amended The Bid shall be valid for 120 days up to 2nd February, 2026
Section 11, Bid Data Sheet, ITB 19.1 A Bid Security shall be required in amounts detailed below and in the form of an unconditional Bank Guarantee. The amount and currency of the Bid Security shall be; Lot 1: Uganda Shillings: 635,000,000/=	Section 11, Bid Data Sheet, ITB 19.1 A Bid Security shall be required in amounts detailed below and in the form of an unconditional Bank Guarantee. The amount and currency of the Bid Security shall be; Lot 1: Uganda Shillings: 635,000,000/=
Lot 2: Uganda Shillings: 221,500,000/=	Lot 2: Uganda Shillings: 221,500,000/=
Lot 3: Uganda Shillings: 64,000,000/=	Lot 3: Uganda Shillings: 64,000,000/=
Lot 4: Uganda Shillings: 37,000,000/=	Lot 4: Uganda Shillings: 37,000,000/=
The Bid Security may be furnished in any other freely convertible currency. Bid security must valid up to 27th February, 2026 The Bid security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date.	Amended The Bid Security may be furnished in any other freely convertible currency. Bid security must valid up to 13th March, 2026 The Bid security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date.
Section 11, Bid Data Sheet, ITB 22.1 For Bid submission purposes only, the Purchaser's address is: The Permanent Secretary, Attention: Senior Procurement Officer Uganda Climate Smart Agricultural Transformation Project. (UCSATP). Plot 78 Buganda Road Amended The deadline for Bid submission is: Date: 28th July 2025 Time: 1100 Hours Bidders shall not have the option of submitting their Bids electronically.	Section 11, Bid Data Sheet, ITB 22.1 For Bid submission purposes only, the Purchaser's address is: The Permanent Secretary, Attention: Senior Procurement Officer Uganda Climate Smart Agricultural Transformation Project. (UCSATP). Plot 78 Buganda Road Amended The deadline for Bid submission is: Date: 11th August 2025 Time: 1100 Hours



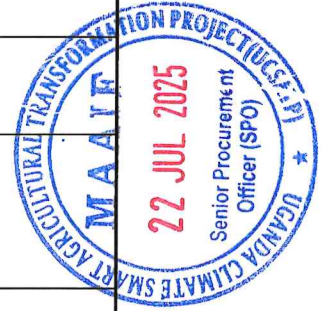
TF3	Training and Commissioning	15				maintenance of equipment and associated implements.	5		5	Fuel consumption with L/Hr ratings	TSF 1.2	5	i) > 3.75 ≤ 5 points shall be awarded to one who provides a equipment with economical fuel consumption with great performance and advice on usage for better results. ii) > 2.5 ≤ 3.75 points shall be awarded to a bidder that provides sufficient fuel consumption information of the equipment being offered and how it marginally exceeds the specifications offered. iii) > 1.25 ≤ 2.5 points shall be awarded to a bidder that demonstrates how the fuel economy can be achieved using the brand offered. iv) > 0 ≤ 1.25 points shall be awarded to a bidder that only makes reference to the specifications offered with no additional literature
TF4	Economic and social considerations	15				operator training plan on safe and effective use of Equipment and Implements.	5		5				
TF5	Supply Contingency Plan	15				Maintenance Training plan on the routine maintenance and repair of equipment and implements.	5		5				
TF5	Supply Contingency Plan	15				A Commissioning Checklist with the necessary steps taken during the commissioning process	5		5				
TF5	Supply Contingency Plan	15				Local Job Creation Target plan	5		5				
TF5	Supply Contingency Plan	15				Investment commitments in local infrastructure such as manufacturing facilities or training centers..	5		5				
TF5	Supply Contingency Plan	15				Worker's safety and welfare standards policy	5		5				
TF5	Supply Contingency Plan	15				Inventory Management systems in place to ensure that spares don't run out of stock.	5		5				
TF5	Supply Contingency Plan	15				Emergency Response Time and Service Provider Accessibility during emergency repair service situations.	5		5				
TF5	Supply Contingency Plan	15				Demand logistics support plan demonstrating Capability of Logistics Infrastructure e.g. service center composition and distribution.	5		5				



	TF2	Operation and Maintenance (O&M)	35	TSF 2.1	Serviceability Design of the equipment and implements	5 i) > 3.75 ≤5 points shall be awarded to one who provides the design of the equipment and demonstrate how easy it is to access the parts that need to be replaced/serviced. Additional literature about the servicing the specific brand being offered and advice on best practices before and after service. ii) > 2.5 ≤3.75 points shall be awarded to a bidder that provides sufficient information/guide on how to service the equipment and implement being offered and how it can easily be done by semi-skilled people. iii) > 1.25 ≤2.5 points shall be awarded to a bidder that demonstrates how easy it is to service the equipment and implements being offered. iv) > 0 ≤1.25 points shall be awarded to a bidder that only makes reference to the period and parts to be replaced during services with no Equipment and implement service design.
					Distribution Network Coverage of the spare parts in	10 i) >7.5 ≤ 10 points shall be awarded to one who provides information about the spare
				TSF 2.2		



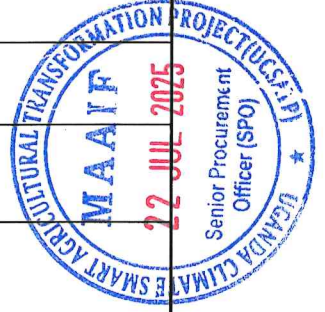
				Uganda and east African region	outlets or service centers for the specific brand being offered both in Uganda and in the East African Region. Provide information whether these spare parts are on online markets and how accessible they are by the users. ii) $> 5 \leq 7.5$ points shall be awarded to a bidder that provides sufficient information on the equipment spares parts location and how accessible they are by the farmers in Uganda. iii) $> 2.5 \leq 5$ points shall be awarded to a bidder that demonstrates how easily accessible these spare parts are. iv) $> 0 \leq 2.5$ points shall be awarded to a bidder that only makes reference to general market place with no accessibility design/plan.
				TSF 2.3	15 i) $> 11.5 \leq 15$ points shall be awarded to one who provides costed planned preventive maintenance schedule and unscheduled repair costs for the period of five years. Additional information on maintenance that adds value to the equipment ii) $> 7.5 \leq 11.5$ points shall be awarded to a bidder that provides costed planned preventive maintenance schedule and unscheduled repair costs for the period of five years. iii) $> 3.75 \leq 7.5$ points shall be awarded to a bidder that



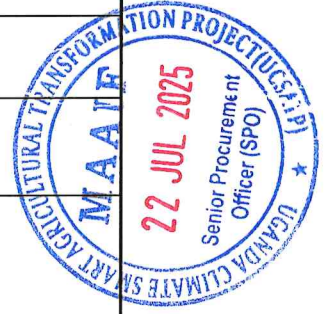
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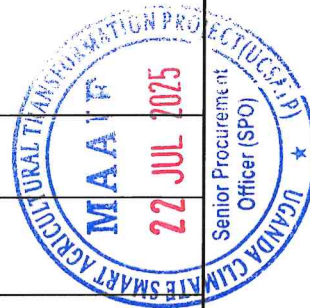
TF3	Training and Commissioning	15	TSF 3.1	operator training plan on safe and effective use of equipment and implements.	5 i) > 3.75 ≤5 points shall be awarded to one who provides operator training plan on safe and effective use of equipment and implements. Shall also provide alternative approaches to safe and usage of equipment and implements ii) > 2.5 ≤3.75 points shall be awarded to a bidder that provides sufficient operator training plan on use of equipment and implements. iii) > 1.25 ≤2.5 points shall be awarded to a bidder that demonstrates how these safety and effectively use equipment and their implements. iv) > 0 ≤1.25 points shall be awarded to a bidder that only makes reference to the usage of equipment and implements without providing manuals.
			TSF3.2	Maintenance Training plan on the routine maintenance and repair of equipment and implements.	5 i) > 3.75 ≤5 points shall be awarded to one who provides Maintenance training plan on routine maintenance and repairs of equipment and implements. Extra resources for conveying same information shall be in addition for example YouTube videos, magazines. ii) > 2.5 ≤3.75 points shall be awarded to a bidder that provides sufficient maintenance and repairs training plan on use of equipment and implements.



					iii) $> 1.25 \leq 2.5$ points shall be awarded to a bidder that demonstrates how safely and effectively equipment and their implements can be repaired and maintained. iv) $> 0 \leq 1.25$ points shall be awarded to a bidder that only makes reference to the usage of equipment and implements without providing training plans.
				TSF 3.3	A Commissioning Checklist with the necessary steps taken during the commissioning process
				5	i) $> 3.75 \leq 5$ points shall be awarded to one who provides commissioning Checklist with the necessary steps taken during the commissioning process. The process flow chart and the schedule for the commissioning adds value to the process. ii) $> 2.5 \leq 3.75$ points shall be awarded to a bidder that provides commissioning Checklist with the necessary steps taken during the commissioning process. iii) $> 1.25 \leq 2.5$ points shall be awarded to a bidder that demonstrates what is checked so as to confirm that equipment and their implements are complete and shall serve the purpose. iv) $> 0 \leq 1.25$ points shall be awarded to a bidder that only makes reference to the usage of equipment and implements without providing training plans.



	TF 4	Economic and social considerations	15	TSF 4.1	Local Job Creation Target plan	5 i) $> 3.75 \leq 5$ points shall be awarded to one who provides Local Job Creation Target plan in a period of 5 years. ii) $> 2.5 \leq 3.75$ points shall be awarded to a bidder that provides a Local Job Creation Target plan in place and for the next. iii) $> 1.25 \leq 2.5$ points shall be awarded to a bidder that demonstrates how the locals shall be engaged in economic activities. iv) $> 0 \leq 1.25$ points shall be awarded to a bidder that only indicate the types of jobs that shall be created.
				TSF 4.2	Investment commitments in local infrastructure such as manufacturing facilities or training centers.	5 i) $> 3.75 \leq 5$ points shall be awarded to one who provides Investment commitments in local infrastructure such as manufacturing facilities or training centers. Declarations of future investments shall be availed. ii) $> 2.5 \leq 3.75$ points shall be awarded to a bidder that provides Investment commitments in local infrastructure such as manufacturing facilities or training centers. iii) $> 1.25 \leq 2.5$ points shall be awarded to a bidder that demonstrates how Investment commitments in local infrastructure such as manufacturing facilities or training centers shall be achieved.



					to ensure that spares don't run out of stock. iii) > 1.25 ≤2.5 points shall be awarded to a bidder that demonstrates how the Inventory Management systems in place shall help to ensure that spares don't run out of stock. iv) > 0 ≤ 1.25 points shall be awarded to a bidder that only provides location of stores/warehouses with no systems.
TSF 5.2	Emergency Response Time and Service Provider Accessibility during emergency repair service situations.	5	i)>3.75 ≤5 points shall be awarded to one who provides emergency response time and service provider accessibility during emergency repair service situations. All other information that adds value to the above process. ii) > 2.5 ≤3.75 points shall be awarded to a bidder that provides emergency response time and service provider accessibility during emergency repair service situations. iii) > 1.25 ≤2.5 points shall be awarded to a bidder that demonstrates how quickly the service provider shall respond to the client during emergency situations. iv) > 0 ≤1.25 points shall be awarded to a bidder that only provides the time to respond to an emergency situation without the modalities of how to respond to an emergency situation.		
TSF 5.3	Demand logistics support	5			





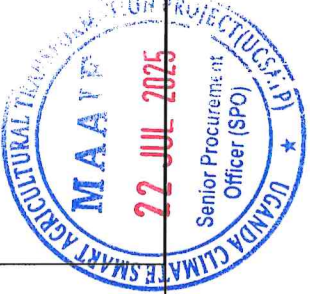
					plan demonstrating Capability of Logistics Infrastructure e.g. service center composition and distribution.	i) > 3.75 ≤5 points shall be awarded to one who provides the demand logistics support plan demonstrating Capability of Logistics Infrastructure e.g. service center composition and distribution that exceeds the requirement. ii) > 2.5 ≤3.75 points shall be awarded to a bidder that provides demand logistics support plan demonstrating Capability of Logistics Infrastructure e.g. Service center composition and distribution. iii) > 1.25 ≤2.5 points shall be awarded to a bidder that demonstrates how the distribution of the equipped service centers shall help in the logistics support to the equipment and implements. iv) > 0 ≤1.25 points shall be awarded to a bidder that only provides location of service centers
Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 1		Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 1				
Average Annual Turnover	A bidder must have a minimum average annual turnover of at least Uganda Shillings 47,654,250,000/= for each year within the last five years. (2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)	Amended Average Annual Turnover		A bidder must have a cumulative turnover of at least Uganda Shillings 47,654,250,000/= for the last five years. (2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)		
Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 2		Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 2				
Average Annual	A bidder must have a minimum average annual turnover of at least Uganda Shillings	Amended				





Turnover	16,612,500,000 over each year within the last five years.(2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)	Average Annual Turnover	A bidder must have a cumulative turnover of at least Uganda Shillings 16,612,500,000 for the last five years. (2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)
Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 3		Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 3	
Average Annual Turnover	A bidder must have a minimum average annual turnover of at least Uganda Shillings 4,800,000,000 over each year within the last five years.(2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)	Amended Average Annual Turnover	A bidder must have a cumulative turnover of at least Uganda Shillings 4,800,000,000 for the last five years. (2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)
Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 4		Section 111 Evaluation &Qualification Criteria Financial Capability for Lot 4	
Average Annual Turnover	A bidder must have a minimum average annual turnover of at least Uganda Shillings 2,775,000,000 over each year within the last five years.(2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)	Amended Average Annual Turnover	A bidder must have a cumulative turnover of at least Uganda Shillings 2,775,000,000 for the last five years. (2024/2023,2023/2022,2022/2021,2021/2020 and 2020/2019)
Section 111 Evaluation &Qualification Criteria Specific Experience for Lot 1		Section 111 Evaluation &Qualification Criteria Specific Experience for Lot 1	
Specific Experience	Similar contracts specified below that have been satisfactorily and substantially ¹ completed between 1st January 2020 And bid submission deadline:	Specific Experience	Similar contracts specified below that have been satisfactorily and substantially ¹ completed between 1st January 2020 And bid submission deadline:



	(i) 2 contracts, each of minimum value of Uganda Shillings 15,000,000,000/= Or (ii) One contract with a minimum value of Uganda Shillings 30,000,000,000/= Or (iii) A cumulative of maximum of 5(five) contracts with a total value Uganda Shillings 35,000,000,000/=		(i) 2 contracts, each of minimum value of Uganda Shillings 15,000,000,000/= Or (ii) One contract with a minimum value of Uganda Shillings 30,000,000,000/= Or (iii) A cumulative of maximum of 5(five) contracts with a total value Uganda Shillings 35,000,000,000/=
Section 111 Evaluation & Qualification Criteria Specific Experience for Lot 2	Section 111 Evaluation & Qualification Criteria Specific Experience for Lot 2		
Specific Experience	Similar contracts specified below that have been satisfactorily and substantially completed between 1st January 2020 And bid submission deadline: (i) Two (2) contracts, each of minimum value of Uganda Shillings 5,000,000,000/= Or (ii) One (1) contract with a minimum value of Uganda Shillings 10,000,000,000/=	Similar contracts specified below that have been satisfactorily and substantially completed between 1st January 2020 And bid submission deadline: i) Two (2) contracts, each of minimum value of Uganda Shillings 5,000,000,000/= Or (ii) One (1) contract with a minimum value of Uganda Shillings 10,000,000,000/= Or iii) A cumulative of 5(five) contracts with total value of at	

		least Uganda Shillings 15,000,000,000/=
Section 111 Evaluation & Qualification Criteria Financial Capability and Specific Experience under Lots 1,2,3&4 . Amended Joint venture (Existing and Intended) Each member must meet 60%	Section 111 Evaluation & Qualification Criteria Financial Capability and Specific Experience under Lots 1,2,3&4 . Amended Joint venture (Existing and Intended) Each member must meet 40%	
Section VII – Schedule of Requirements, Item 16 (p. 111) Separate list of maintenance and fast-wearing parts/kits”	Section VII – Schedule of Requirements, Item 16 (p. 111) Amended The List of parts is attached (Annex 1)	
Section VII –Schedule of Requirements, Technical specifications Lot 1 Motor roller minimum operating weight: 12Ton	Section VII –Schedule of Requirements, Technical specifications Lot 1 Amended Motor roller minimum operating weight: 10Ton	
Section VII –Schedule of Requirements, Technical specifications Lot 3 Page 175 Item 23 Omitted pipe line for the dredgers	Section VII –Schedule of Requirements, Technical specifications Lot 3 Page 175 Item 23 Inclusion The pipe line of 100 meters is required	
Section VII –Schedule of Requirements, Technical specifications Lot 3 The minimum bucket weight requirement of 580kg	Section VII –Schedule of Requirements, Technical specifications Lot 3 Amended This requirement has been removed from the specifications	
Section VII –Schedule of Requirements, Technical specifications Lot 3	Section VII –Schedule of Requirements, Technical specifications Lot 3 Amended	



The minimum rake weight requirement of 1,200	minimum weight: 500kgs
Section VII –Schedule of Requirements, Technical specifications Lot 3	Section VII –Schedule of Requirements, Technical specifications Lot 3
The period of validity of the Warranty shall be 3 years	<u>Amended</u>
Warranty of Minimum 2000hrs/1year whichever comes first.	warranty of 3000hrs
Section VII –Schedule of Requirements, Technical specifications Lot 4	Section VII –Schedule of Requirements, Technical specifications Lot 4
Drilling rig specifications	<u>Amended</u> This is to advise that you the drilling depth, drilling diameter are part of the specification as follows; PIPE RACK: Mounted appropriately on the deck, this storage rack holds 20-30no. x Ø1¼". x 20 ft. drill pipe. Pipe rack allows for convenient use of the sling and hook. Drilling accessories Blowing steel pipes class c. 20ft x Ø1¼" x 40no. Here consider also using "Seamless Drill Rods 3½" OD x 8.6mm wall thickness x 3m Length x 27/8" API IF threaded (=4TPI)" just in case rehabilitation requires drilling/hammering out stones.



ANNEX 1

Maintenance parts for Heavy Duty and Multipurpose Bull Dozers with Ripper System with minimum blade capacity of 7.0m³ with Maintenance Parts and All Accessories

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary)	
	Air System	Air filter (primary)	
		Air filter (secondary)	
	Breather System	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Fuel Injection	Fuel injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starting/Charging	Starter motor	
		Alternator	
	Electrical	heater plugs	
		Sensors (oil, temp, etc.)	
		Engine wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs	
	Mounting	Transmission mounts	
	Power Transfer	Torque converter	
Final Drive & Differential	Final Drive	Final drive oil filter	
		Final drive oil (consumable)	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Drive System	Final drive bearings	
		Final drive seals	
		Axle shafts	
		Sprockets (track drive)	
		Differential gears	
Undercarriage System	Track System	Track shoes (grouser plates)	
		Track chains	
		Track pins	
		Track bushings	
	Rollers	Track rollers (bottom rollers)	
		Carrier rollers (top rollers)	
	Idlers	Idlers	
	Adjuster	Track tensioners	
	Guides	Track guides	
	Adjuster Sealing	Track adjuster seals	
Blade System	Cutting Edge	Cutting edges	
	End Bits	End bits	
	Pins/Bushings	Blade pins	
		Blade bushings	
	Hydraulic Cylinders	Blade tilt cylinder seals	
		Blade lift cylinder seals	
		Blade angle cylinder seals	
Ripper System	Teeth	Ripper teeth (shanks and tips)	
	Pins/Bushings	Ripper pins	
		Ripper bushings	
	Linkage	Ripper linkage components	
	Hydraulic Cylinders	Ripper cylinder seals	
Hydraulic System	Filtration	Hydraulic filters	
	Fluid	Hydraulic oil (consumable)	
	Hoses/Couplings	Hydraulic hoses	
		Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals	
	Pump	Hydraulic pump	
Cooling System	Radiator	Radiator	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Radiator cap	
	Hoses	Radiator hoses	
	Fan	Fan blades	
		Fan shroud	
	Reservoir	Coolant reservoir	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Work lights	
		Taillights	
	Wiring	Wiring harnesses (as needed)	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lighting, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (basic, as per OEM)	
	Safety	Fire extinguisher	
		First aid kit	
	Labels/Decals	Warning labels/decals	

Maintenance parts for Hydraulic Excavators with minimum operating weight 23,000Kg Extended and Super Long Boom/Arm with a bucket of minimum 1.6m³ (reinforced, hardened and wear resistant) Maintenance Parts and All Accessories

Main Component/System+A1:D34	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, etc.)	
		Wiring harness (as required)	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic pilot filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Tubing	Hydraulic hoses	

Main Component/System+A1:D34	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Hydraulic tube assemblies	
	Couplings	Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals (boom, arm, bucket, etc.)	
	Pumps	Hydraulic pump (main)	
		Pilot pump	
	Valves	Control valve seals/service kits	
Undercarriage System	Track Chain	Track chains	
		Track pins	
		Track bushings	
	Track Shoes	Track shoes (grouser plates)	
	Rollers	Bottom rollers (track rollers)	
		Carrier rollers (top rollers)	
	Idlers	Track idlers	
	Sprockets	Sprockets	
	Adjuster	Track adjusters	
		Track adjuster seals	
	Guides	Track guides	
Swing System	Swing Bearing	Swing bearing (major overhaul only)	
		Swing bearing seals	
	Swing Gear	Swing gear teeth	
	Swing Motor	Swing motor service kit/seals	
	Swing Reduction	Swing reducer oil (consumable)	
		Swing reduction seals	
Travel System	Travel Motor	Travel motor service kit/seals	
	Travel Reduction	Travel reducer oil (consumable)	
		Travel reduction seals	

Main Component/System+A1:D34	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Final Drive	Final drive oil	
		Final drive seals	
Boom/Arm/Bucket System	Boom	Boom cylinder seals	
		Boom pins	
		Boom bushings	
	Arm (Stick)	Arm cylinder seals	
		Arm pins	
		Arm bushings	
	Bucket	Bucket cylinder seals	
		Bucket pins	
		Bucket bushings	
	Bucket Teeth	Bucket teeth (tips)	
		Bucket adapters	
		Side cutters	
	Bucket Edge	Cutting edge	
	Bucket Protection	Wear plates (hard facing plates)	
		Bucket shrouds	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Work lights	
		Taillights/indicators	
	Wiring	Wiring harnesses (as required)	
	Sensors	Sensors (temp, pressure, position, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	

Main Component/System+A1:D34	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
	Labels/Decals	Warning labels and decals	

Maintenance parts for Heavy Duty Wheel loader of Minimum operating weight of 17500Kgs with Maintenance Parts and All Accessories

Main Component/System	Subcomponent/Parts	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	

Main Component/System	Subcomponent/Assembly	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs	
	Mounting	Transmission mounts	
	Torque Converter	Torque converter (if separate)	
Axle & Differential	Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	
	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	
		Brake discs	
		Brake calipers	
		Brake lines/hoses	
	Parking Brakes	Parking brake assembly (bands, shoes)	
Steering System	Hydraulic Steering	Steering hydraulic filter	
		Steering hydraulic oil (consumable)	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic pilot filter	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Tubing	Hydraulic hoses	
		Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals (lift, tilt, steering)	
	Pump	Hydraulic pump	
	Valves	Control valve seals/service kits	
Drivetrain & Wheels	Tires/Wheels	Tires (main wheels)	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Loader Linkage & Bucket	Loader Arms	Loader arm pins	
		Loader arm bushings	
	Lift Cylinders	Lift cylinder seals	
	Tilt Cylinders	Tilt cylinder seals	
	Bucket	Bucket pins	
		Bucket bushings	
	Bucket Edge	Bucket cutting edge	
		Bucket side cutters	
	Bucket Teeth	Bucket teeth/tips	
	Bucket Protection	Wear plates/shrouds	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Lighting	Headlights	
		Work lights	
		Tail/brake lights	
	Wiring	Wiring harnesses (as needed)	
	Sensors	Sensors (temperature, pressure, position, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	

Main Component/System	Subcomponent/Assembly	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Safety	Fire extinguisher	
		First aid kit	
	Labels/Decals	Warning labels and decals	

Maintenance parts for Heavy Duty and Multipurpose Motor Graders Equipped with Ripper Units of 17065Kgs with Maintenance Parts and All Accessories

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Clutch	Clutch plates/discs	
	Mounting	Transmission mounts	
	Torque Converter	Torque converter	
Differential & Axles	Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	
	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	
		Brake discs	
		Brake calipers	
		Brake lines/hoses	
	Parking Brakes	Parking brake assembly (bands, shoes)	
Steering System	Hydraulic Steering	Steering hydraulic filter	
		Steering hydraulic oil (consumable)	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic pilot filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Tubing	Hydraulic hoses	
		Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		(blade, ripper, steering)	
	Pump	Hydraulic pump	
	Valves	Control valve seals/service kits	
Moldboard/Blade System	Blade	Blade cutting edge	
		Blade end bits	
	Circle	Circle drive gears	
		Circle bearings	
		Circle wear inserts	
	Linkage	Moldboard pins	
		Moldboard bushings	
	Slide Rails	Slide rail inserts	
	Blade Lift/Tilt	Blade lift cylinder seals	
		Blade tilt cylinder seals	
		Blade shift cylinder seals	
Ripper System	Ripper Shank	Ripper teeth (shanks/tips)	
		Ripper adapters	
	Ripper Pins/Bushings	Ripper pins	
		Ripper bushings	
	Linkage	Ripper linkage components	
	Hydraulic Cylinders	Ripper cylinder seals	
Front Axle/Articulation	Articulation Joint	Articulation pins	
		Articulation bushings	
	Bearing	Kingpin bearings	
	Seals	Kingpin seals	
Tires/Wheels	Tires	Tires (main wheels)	
	Wheels	Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Lighting	Headlights	
		Work lights	
		Tail/brake lights	
	Wiring	Wiring harnesses (as needed)	
	Sensors	Sensors (temperature, pressure, position, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	

Maintenance parts for Heavy Duty Backhoe loader of operating weight minimum 7000Kgs with Maintenance Parts and All Accessories

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs	
	Mounting	Transmission mounts	
	Torque Converter	Torque converter (if separate)	
Axle & Differential	Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	
	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Brake discs	
		Brake calipers	
		Brake lines/hoses	
	Parking Brakes	Parking brake assembly (bands, shoes)	
Steering System	Hydraulic Steering	Steering hydraulic filter	
		Steering hydraulic oil (consumable)	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic pilot filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Tubing	Hydraulic hoses	
		Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals (loader, backhoe, steering)	
	Pump	Hydraulic pump	
	Valves	Control valve seals/service kits	
Loader Linkage & Bucket	Loader Arm	Loader arm pins	
		Loader arm bushings	
	Lift Cylinders	Loader lift cylinder seals	
	Bucket	Loader bucket pins	
		Loader bucket bushings	
	Loader Bucket Edge	Loader bucket cutting edge	
		Loader bucket teeth	
		Loader bucket side cutters	
	Loader Bucket Protection	Loader bucket wear plates/shrouds	
Backhoe Linkage & Bucket	Boom	Backhoe boom pins	
		Backhoe boom bushings	
	Boom Cylinders	Backhoe boom cylinder seals	
	Dipper Arm (Stick)	Dipper arm pins	
		Dipper arm bushings	
	Dipper Arm Cylinders	Dipper arm cylinder seals	
	Backhoe Bucket	Backhoe bucket pins	
		Backhoe bucket bushings	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Backhoe bucket teeth/tips	
		Backhoe bucket side cutters	
		Backhoe bucket cutting edge	
	Backhoe Bucket Protection	Wear plates/shrouds	
Stabilizers	Pads/Feet	Stabilizer pads/feet	
	Cylinders	Stabilizer cylinder seals	
	Linkage	Stabilizer pins/bushings	
Drivetrain & Wheels	Tires/Wheels	Tires (main wheels)	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Work lights	
		Tail/brake lights	
	Wiring	Wiring harnesses (as needed)	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		First aid kit	
	Labels/Decals	Warning labels and decals	

Maintenance parts for **Motor Vibro Roller Units with Maintenance Parts and All Accessories**

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit (if equipped)	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, etc.)	
		Wiring harness (as needed)	
Transmission & Drive	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs	
	Mounting	Transmission mounts	
	Torque Converter	Torque converter	
Axle & Differential	Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	
		Brake discs	
		Brake calipers	
		Brake lines/hoses	
	Parking Brakes	Parking brake assembly (bands, shoes)	
Vibration System	Exciter Shaft/Bearing	Exciter shaft bearings	
		Exciter shaft seals	
	Lubrication	Exciter system oil (consumable)	
	Vibration Hydraulic	Vibration hydraulic filter	
		Vibration hydraulic oil (consumable)	
		Vibration hydraulic hoses	
		Vibration pump	
		Vibration motor seals	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic pilot filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Tubing	Hydraulic hoses	
		Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals (steering, articulation)	
	Pump	Hydraulic pump	
	Valves	Control valve seals/service kits	
Steering System	Hydraulic Steering	Steering hydraulic filter	
		Steering hydraulic oil (consumable)	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Drum System	Drum	Drum scraper bars	
		Drum vibration mounts	
	Bearings/Seals	Drum support bearings	
		Drum seals	
	Padfoot/Sheepsfoot (if fitted)	Padfoot shell kit, cleaning bars	
Tires (Pneumatic rollers)	Tire/Wheel	Tires (main wheels, pneumatic models)	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Work lights	
		Tail/brake lights	
	Wiring	Wiring harnesses (as needed)	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
	Labels/Decals	Warning labels and decals	

Light fuel truck with minimum of 7,000L with Maintenance Parts and All Accessories

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs	
	Mounting	Transmission mounts	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
	Torque Converter	Torque converter (if automatic)	
Axle & Differential	Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	
	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	
		Brake discs/drums	
		Brake shoes (rear, if drum)	
		Brake calipers	
		Brake lines/hoses	
	Brake Booster	Brake booster	
	Parking Brakes	Parking brake assembly	
Steering System	Hydraulic Steering	Power steering filter	
		Power steering fluid	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Suspension & Chassis	Leaf Spring/Airbag	Leaf spring bushings	
		Shock absorbers	
		Airbags (if equipped)	
		U-bolts	
	Chassis	Mounting fasteners	
Driveline & Wheels	Tires/Wheels	Tires	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
	Propeller Shaft	Universal joints (U-joints)	
		Center bearing	
Fuel Tank System	Main Fuel Tank	Fuel tank cap	
		Fuel tank straps	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
Tanker Body System		Tank mounting rubbers	
		Tank breather	
	Tank Body	Manhole covers/gaskets	
		Tank bottom valve	
		Tank drain valve/seals	
		Loading/unloading valves	
		Piping/seals/gaskets	
		Inspection hatches/seals	
		Anti-surge baffles	
		Flame arrestors	
	Tank Mounting	Tank mounting bolts and rubbers	
	Handrails/Walkways	Safety handrail pads	
Fuel System Pumping	Pump Assembly	Fuel transfer pump	
		Pump seals	
		Pump filter	
	Flow Meter	Flow meter assembly	
	Hose Reel	Hose reel assembly	
	Dispensing Hose	Dispensing hose	
	Nozzle	Fuel dispensing nozzle	
	Filter	Delivery side filter	
Hydraulic/Air System	Hydraulic Pump (if fitted)	Hydraulic filter	
		Hydraulic oil	
	Air System (if pneumatic)	Air compressor filter	
		Air drier cartridge	
		Air hoses	
		Air tanks	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Work lights	
		Tail/brake lights	
		Side marker lights	
		License plate lights	
	Wiring	Wiring harnesses (as needed)	
	Sensors	Sensors (fuel level, temp, pressure, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
		Wheel chocks	
	Labels/Decals	Warning labels and decals	
	Emergency	Emergency shut-off switch (fuel system)	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost (UGX)
		Spill kit	

Maintenance parts for **Heavy duty chassis construction Low Bed, articulated Trailer Truck 6*4 with minimum pay load 42000Kgs Maintenance Parts and all Accessories**

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement cost
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, speed, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch (if manual)	Clutch plates/discs	
		Clutch release bearing	
	Mounting	Transmission mounts	
Driveline & Axles	Drive Axle	Torque Converter (if automatic)	
		Torque converter	
		Drive axle oil (consumable)	
		Axle seals and gaskets	
	Axle bearings	Axle bearings	
		Axle shafts	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement cost
		Wheel hub seals	
		Wheel hub bearings	
		Universal joints (U-joints)	
		Center bearing	
		Propeller shaft bolts	
Differential	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	
		Brake discs/drums	
		Brake shoes (rear, if drum)	
		Brake calipers	
		Brake lines/hoses	
		Brake booster	
		Slack adjusters	
	Parking Brakes	Parking brake assembly	
Suspension & Chassis	Leaf Spring/Air Suspension	Leaf spring bushings	
		Shock absorbers	
		Airbags (if fitted)	
		U-bolts	
		Stabilizer bar bushings	
	Fifth Wheel	Fifth wheel locking jaws	
		Fifth wheel top plate	
		Fifth wheel bushings/pins	
	Frame/Chassis	Frame mounting bolts and bushings	
Steering System	Hydraulic Steering	Power steering filter	
		Power steering fluid	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Trailer System (Low Bed)	Kingpin	Kingpin	
		Kingpin lock assembly	
	Suspension	Suspension bushings	
		Airbags (if air suspension)	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement cost
	Trailer Axles	Shock absorbers	
		Axle oil (if fitted)	
		Axle seals/bearings	
		Axle U-bolts	
	Wheels	Wheel rims/bolts	
		Tires	
		Hub seals/bearings	
	Brake System	Brake drums/discs	
		Brake pads/shoes	
		Brake camshaft/bushings	
		S-cam repair kit	
		Air brake chambers	
		Air brake valves	
	Air System	Air compressor filter	
		Air drier cartridge	
		Air hoses	
		Air tanks	
	Landing Gear	Landing gear gears/pins	
		Landing gear foot pads	
		Landing gear handle	
	Suspension System	Equalizer beams/pins	
		Suspension bushings	
	Side Members	Side member bolts/bushings	
	Loading Ramps (if fitted)	Ramp hydraulic hoses	
		Ramp cylinders/seals	
		Ramp locking pins	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Tubing	Hydraulic hoses	
		Hydraulic couplings	
	Cylinders	Hydraulic cylinder seals (landing gear, ramps, etc.)	
	Pump	Hydraulic pump	
	Valves	Control valve seals/service kits	
Electrical System	Battery	Battery	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement cost
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Marker lights/side lights	
		Work lights	
		Tail/brake lights	
		Reverse lights	
		License plate light	
	Wiring	Wiring harnesses (as needed)	
	Connectors	Trailer socket/pins	
	Sensors	Sensors (ABS, pressure, temp, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
		Wheel chocks	
		Reflective triangles	
		Warning flags/lights	
		Spare tire and jack	
	Labels/Decals	Warning labels and decals	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement cost
	Emergency	Emergency shut-off switches	
		Spill kit (if tanker)	

Maintenance parts for Heavy duty Dump Tipper Trucks with Minimum Pay Load Of 16 Tons with Maintenance Parts and All Accessories (D-Lock and 6*4)

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch (if manual)	Clutch plates/discs	
		Clutch release bearing	
	Mounting	Transmission mounts	
	Torque Converter (if automatic)	Torque converter	
Driveline & Axles	Drive Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	
		Wheel hub seals	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Wheel hub bearings	
		Universal joints (U-joints)	
		Center bearing	
		Propeller shaft bolts	
Differential	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
Braking System	Service Brakes	Brake pads	
		Brake discs/drums	
		Brake shoes (if drum)	
		Brake calipers	
		Brake lines/hoses	
		Brake booster	
		Slack adjusters	
	Parking Brakes	Parking brake assembly	
Suspension & Chassis	Leaf Spring/Air Suspension	Leaf spring bushings	
		Shock absorbers	
		Airbags (if air suspension)	
		U-bolts	
		Stabilizer bar bushings	
	Frame/Chassis	Frame mounting bolts and bushings	
Steering System	Hydraulic Steering	Power steering filter	
		Power steering fluid	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Tipper/Dump System	Hydraulic Cylinder	Tipper body hydraulic cylinder seals	
		Hydraulic cylinder mounting pins/bushings	
	Hydraulic Pump	Hydraulic pump (tipper body)	
		Hydraulic filter	
		Hydraulic oil (consumable)	
	Hoses & Fittings	Hydraulic hoses and couplings	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Body Hinge	Body hinge pins and bushings	
	Lock System	D-Lock system: D-lock pins, bushings, springs	
		D-lock lever/mechanism	
	Tailgate	Tailgate locking pins/springs	
	Body Liner	Body liner plates	
	Body Floor	Floor wear plates	
	Body Side	Side wall wear plates	
	Ladder/Handrail	Steps, handrails, and fasteners	
Drivetrain & Wheels	Tires/Wheels	Tires	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Marker lights/side lights	
		Work lights	
		Tail/brake lights	
		Reverse lights	
		License plate light	
	Wiring	Wiring harnesses (as needed)	
	Sensors	Sensors (ABS, temp, pressure, position, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
		Wheel chocks	
		Reflective triangles	
		Warning flags/lights	
		Spare tire and jack	
	Labels/Decals	Warning labels and decals	
	Emergency	Emergency shut-off switches	

Maintenance parts for Crane truck with minimum payload of 5,000Kgs with Maintenance Parts and All Accessories (drop side body)

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit (if equipped)	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs (if manual)	
		Clutch release bearing	
	Mounting	Transmission mounts	
Driveline & Axles	Torque Converter (if automatic)	Torque converter	
	Axle	Axle oil (consumable)	
		Axle seals and gaskets	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Differential	Axle bearings	
		Differential oil (consumable)	
		Differential seals	
		Differential gears	
	Propeller Shaft	Universal joints (U-joints)	
		Center bearing	
		Propeller shaft bolts	
Braking System	Service Brakes	Brake pads	
		Brake discs/drums	
		Brake shoes (if drum)	
		Brake calipers	
		Brake lines/hoses	
	Brake Booster	Brake booster	
	Parking Brakes	Parking brake assembly	
Steering System	Hydraulic Steering	Power steering filter	
		Power steering fluid	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Suspension & Chassis	Leaf Spring/Airbag	Leaf spring bushings	
		Shock absorbers	
		Airbags (if equipped)	
		U-bolts	
	Frame/Chassis	Frame mounting bolts and bushings	
	Drop Side Body	Body hinge pins/bushings	
		Drop side latches/locks	
		Body floor/side boards (repair plates)	
		Body mounting rubbers	
	Steps/Handrails	Step treads, handrail pads	
Crane System	Hydraulic Pump	Crane hydraulic pump	
	Hydraulic Fluid	Crane hydraulic oil (consumable)	
	Hydraulic Filter	Crane hydraulic filter	
	Hoses & Tubing	Crane hydraulic hoses/couplings	
	Crane Boom	Boom pins/bushings	
		Boom wear pads	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Extension Sections	Boom extension cable/chain (if applicable)	
	Hook/Block	Crane hook (inspection/replacement)	
		Hook safety latch	
	Outriggers	Outrigger cylinder seals	
		Outrigger pads/shoes	
		Outrigger extension pins/bushings	
	Slew Ring	Slew ring gear lubricant	
		Slew ring bearing	
	Slew Motor	Slew motor seals (if powered slew)	
	Limit Switches	Boom angle/height limit switches	
	Winch/Hoist	Winch cable/wire rope	
		Winch brake lining	
		Winch drum bearing	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Couplings	Hydraulic hoses/couplings (general)	
	Cylinders	Hydraulic cylinder seals (body, crane, steering)	
	Pump	Hydraulic pump (main or auxiliary)	
Tires & Wheels	Tires	Tires	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Marker lights/side lights	
		Work lights	
		Tail/brake lights	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Reverse lights	
		License plate light	
	Wiring	Wiring harnesses (as needed)	
	Sensors	Sensors (ABS, temp, pressure, position, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
		Wheel chocks	
		Reflective triangles	
		Warning flags/lights	
		Spare tire and jack	
	Labels/Decals	Warning labels and decals	
	Emergency	Emergency stop switches (crane/cab)	

Maintenance parts for **Mobile Workshop Trucks** fully equipped with all specialized equipment, tools, and maintenance parts and all Accessories

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit (if equipped)	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch	Clutch plates/discs	
		Clutch release bearing	
	Mounting	Transmission mounts	
	Torque Converter (if automatic)	Torque converter	
Driveline & Axles	Axle	Axle oil (consumable)	
		Axle seals and gaskets	
		Axle bearings	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Differential	Differential oil (consumable)	
		Differential seals	
		Differential gears	
	Propeller Shaft	Universal joints (U-joints)	
		Center bearing	
		Propeller shaft bolts	
Braking System	Service Brakes	Brake pads	
		Brake discs/drums	
		Brake shoes	
		Brake calipers	
		Brake lines/hoses	
	Brake Booster	Brake booster	
	Parking Brakes	Parking brake assembly	
Steering System	Hydraulic Steering	Power steering filter	
		Power steering fluid	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Suspension & Chassis	Leaf Spring/Airbag	Leaf spring bushings	
		Shock absorbers	
		Airbags (if equipped)	
		U-bolts	
	Frame/Chassis	Frame mounting bolts and bushings	
	Steps/Handrails	Step treads, handrail pads	
Tires & Wheels	Tires	Tires	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Marker lights/side lights	
		Work lights	
		Tail/brake lights	
		Reverse lights	
		License plate light	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Wiring	Wiring harnesses (as needed)	
	Power Outlets	Power socket covers	
	Sensors	Sensors (ABS, temp, pressure, position, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Workshop Body/Equipment	Workshop Structure	Body hinge pins/bushings	
		Body locks/latches	
		Body mounting rubbers	
		Floor plates/repair sections	
		Steps/handrails	
	Shelving/Storage	Drawer slides/locks	
		Tool box locks/hinges	
	Workbenches	Bench top/vice repair kits	
	Lighting (internal)	Workshop fluorescent/LED light tubes	
		Light covers	
	Workshop Power	Auxiliary generator maintenance kit	
		Power inverter maintenance kit	
		Power socket covers	
	Air Compressor	Compressor air filters	
		Compressor drive belt	
		Compressor oil (if lubricated type)	
	Pneumatic System	Air hoses	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Hose couplings	
		Air line filter	
	Lubrication System	Grease gun repair kit	
		Oil pump repair kit	
	Water System	Water pump (for wash station)	
		Water filter	
	Welding Machine	Welding torch/nozzle/spare tips	
		Earth clamp/cable	
		Welding cable/lead	
		Welding mask lens	
	Electrical Tools	Extension cord	
		Replacement plug/socket	
		Tool batteries (for cordless tools)	
		Drill chuck/bit sets	
	Hand Tools	Replacement screwdrivers, hammers, wrenches	
		Socket sets	
	Portable Lighting	Portable lamp bulbs/batteries	
	Workshop Accessories	Pegboard hooks/clips	
		Waste bins	
		Fire blanket	
		Safety signage/labels	
		First aid kit (workshop)	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher (cab & workshop)	
		First aid kit (cab & workshop)	
		Wheel chocks	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Reflective triangles	
		Warning flags/lights	
		Spare tire and jack	
		Eye wash bottle/station	
		Spill kit	
	Labels/Decals	Warning labels and decals	
	Emergency	Emergency stop switch (workshop area)	
		Safety cut-off switches	

Maintenance parts for **Water Bowsers Units** of all terrain conditions, accessories and maintenance parts 7,000 (4*4)

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit (if equipped)	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, etc.)	
		Wiring harness (as needed)	
Transmission System	Transmission Fluid	Transmission oil filter	
		Transmission oil (consumable)	
	Sealing	Transmission seals and gaskets	
	Clutch (if manual)	Clutch plates/discs	
		Clutch release bearing	
	Mounting	Transmission mounts	
Driveline & Axles	Torque Converter (if automatic)	Torque converter	
	Front/Rear Axle	Axle oil (consumable)	
		Axle seals and gaskets	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Differential	Axle bearings	
		Differential oil (consumable)	
		Differential seals	
		Differential gears	
	Propeller Shaft	Universal joints (U-joints)	
		Center bearing	
		Propeller shaft bolts	
Braking System	Service Brakes	Brake pads	
		Brake discs/drums	
		Brake shoes	
		Brake calipers	
		Brake lines/hoses	
	Brake Booster	Brake booster	
	Parking Brakes	Parking brake assembly	
Steering System	Hydraulic Steering	Power steering filter	
		Power steering fluid	
		Steering hoses	
		Steering cylinder seals	
		Steering pump	
Suspension & Chassis	Leaf Spring/Airbag	Leaf spring bushings	
		Shock absorbers	
		Airbags (if equipped)	
		U-bolts	
	Frame/Chassis	Frame mounting bolts and bushings	
	Steps/Handrails	Step treads, handrail pads	
Tires & Wheels	Tires	Off-road/all-terrain tires	
		Rims/wheel bolts	
	Wheel Hubs	Hub seals	
		Hub bearings	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Marker lights/side lights	
		Work lights	
		Tail/brake lights	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Reverse lights	
		License plate light	
	Wiring	Wiring harnesses (as needed)	
	Sensors	Sensors (ABS, temp, pressure, level, etc.)	
	Instrument Panel	Panel bulbs/displays	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Water Bowser/Tank System	Tank Body	Manhole covers/gaskets	
		Tank mounting brackets/rubbers	
		Anti-surge baffles	
		Ladder/handrail pads	
		Inspection hatch covers/seals	
		Tank cleaning hatch cover/gasket	
	Piping/Valves	Main delivery valve (butterfly/gate)	
		Fill/drain valves/seals	
		Suction/overflow valves	
		All piping gaskets/O-rings	
	Pump System	Water pump (PTO or engine-driven)	
		Pump seal kit	
		Pump filter (if fitted)	
		Flexible suction hose	
		Delivery/discharge hose	
		Hose clamps/couplers	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Sprinkler nozzles	
		Spray bar tips	
		Hose reel repair kit	
		Pump V-belt (if fitted)	
	Suction Screen	Suction strainer/screen	
	Level Indicator	Water level gauge/sensor	
	Mudguard	Mudguard/anti-spray flap	
	Tank Liner	Liner/anti-corrosion coating (if required)	
	Accessories	Filling funnel	
		Tool box/tool kit (for daily maintenance)	
		Lockable cap/covers	
Hydraulic System	Filtration	Hydraulic return filter	
		Hydraulic suction filter	
	Fluid	Hydraulic oil (consumable)	
	Hoses & Couplings	Hydraulic hoses/couplings	
	Cylinders	Hydraulic cylinder seals	
	Pump	Hydraulic pump	
	Valves	Control valve seals/service kits	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher	
		First aid kit	
		Wheel chocks	
		Reflective triangles	
		Warning flags/lights	
		Spare tire and jack	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Eye wash bottle/station	
		Spill kit	
		Safety signs/labels	
	Emergency	Emergency shut-off valve/switch	

Maintenance parts for **Heavy Duty and Hydraulic Amphibious Excavator Equipment units** equipped with all excavation, desilting and dredging attachments

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
Engine System	Oil System	Engine oil filter	
		Engine oil (consumable)	
	Fuel System	Fuel filter (primary)	
		Fuel filter (secondary/pre-filter)	
	Air Intake	Air filter (primary)	
		Air filter (secondary/safety)	
	Breather	Crankcase breather	
	Cooling System	Radiator hoses	
		Thermostat	
		Water pump	
		Engine coolant (consumable)	
	Belts	Fan belt	
		Alternator belt	
		AC compressor belt	
	Turbocharger	Turbocharger unit (if equipped)	
	Injection	Injectors	
		Injector seals	
	Mounting	Engine mounts	
	Starter/Alternator	Starter motor	
		Alternator	
	Electrical	Sensors (oil, temp, pressure, etc.)	
		Wiring harness (as needed)	
Hydraulic System	Hydraulic Filters	Main hydraulic return filter	
		Pilot hydraulic filter	
		Suction filter	
	Hydraulic Fluid	Hydraulic oil (consumable)	
	Hoses & Couplings	Hydraulic hoses (all types, incl. floating hoses)	
		Hydraulic couplings/quick connectors	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Cylinders	Hydraulic cylinder seals (boom, arm, bucket, attachments)	
	Pumps	Main hydraulic pump	
		Auxiliary hydraulic pump	
	Motors	Swing motor seals/kit	
		Travel motor seals/kit	
	Valves	Control valve seals/service kits	
Amphibious Undercarriage	Pontoon System	Pontoon wear plates/liners	
		Pontoon rollers/idlers	
		Pontoon chains	
		Pontoon bearings and bushings	
		Pontoon seals	
		Pontoon drive sprockets	
		Track shoes	
		Track pins/bushings	
	Pontoon Pumps (if equipped)	Pontoon hydraulic pump	
		Bilge pump/service kit	
		Bilge pump hoses/clamps	
		Pontoon access hatch gaskets	
		Pontoon floatation compartment valves/seals	
Uppercarriage	Swing Bearing	Swing bearing/gear grease	
		Swing bearing seals	
	Swing Gear	Swing gear teeth (service kit)	
	Cab Mounting	Cab mounting rubbers	
	Walkways/Handrails	Anti-slip treads/handrail pads	
	Platform/Decking	Decking repair plates	
Standard Excavator Attachments	Boom/Arm/Bucket System	Boom cylinder seals	
		Arm cylinder seals	
		Bucket cylinder seals	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Boom/Arm	Pins, bushings (boom, arm, bucket)	
	Bucket	Bucket teeth/tips	
		Bucket cutting edge	
		Side cutters/shrouds	
	Quick Coupler	Coupler pins/bushings	
		Coupler locking kit	
Dredging/Desilting Attachments	Dredge Pump	Dredge pump seals	
		Dredge pump impeller	
		Dredge pump shaft bearings	
	Dredge Hose	Dredge floating hose	
		Dredge hose couplings	
	Cutter Head (if equipped)	Cutter teeth	
		Cutter bearings	
		Cutter seals	
	Silt Bucket/Clamshell	Clamshell bucket bushings/pins	
		Silt/debris screen/strainer	
	Amphibious Spud System	Spud pole bushings/pins	
		Spud winch rope/cable	
		Spud winch brake lining	
		Spud foot pads	
Travel/Swing System	Travel Reduction	Travel reduction gear oil (consumable)	
		Travel reduction seals	
		Final drive bearings	
		Final drive seals	
	Swing Reduction	Swing reduction oil	
		Swing reduction seals	
Electrical System	Battery	Battery	
	Fuse/Relay	Fuses	
		Relays	
	Lighting	Headlights	
		Work lights	
		Beacon/rotating light	
		Deck/step lights	
	Wiring	Wiring harnesses (as needed)	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Sensors	Sensors (temp, pressure, floatation, level, etc.)	
	Instrument Panel	Panel bulbs/displays	
	Safety Alarm	Back-up alarm/horn	
Cab & Operator Station	Seat	Seat cushion	
		Seat suspension kit	
	Controls	Control levers/joysticks	
	Switches	Switches (ignition, lights, wipers, etc.)	
	Glass	Windshield glass	
		Window glass	
	Air Conditioning	AC filters	
	Wipers	Wiper blades	
		Wiper motor	
	HVAC	Cabin air filter	
Miscellaneous/General	Grease Points	Grease nipples/zerks	
	Fasteners	Fasteners (nuts, bolts, washers, etc.)	
	Sealing	O-rings (various)	
		Gaskets (various)	
	Kits	Service kits (OEM recommended)	
	Tools	Tool kit (OEM supplied)	
	Safety	Fire extinguisher (cab & deck)	
		First aid kit	
		Life jackets/lifebuoys (required for water operation)	
		Life ring with rope	
		Wheel chocks	
		Reflective triangles	
		Warning flags/lights	
		Spare tire and jack	
		Spill kit	
		Eye wash bottle/station	
		Anti-slip mat/ladder	
	Labels/Decals	Warning labels and decals	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Emergency	Emergency stop switches (hydraulic & electric)	
		Escape ladder (for emergency)	
		Bilge pump backup	

Maintenance parts for **Heavy Duty and Multipurpose water well drilling rigs with all drilling components, accessories and maintenance parts and all Accessories (inclusive of specialized trucks)**

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
Carrier Truck/Chassis	Engine System	Engine oil filter	
		Engine oil (consumable)	
		Fuel filter (primary, secondary)	
		Air filter (primary, safety)	
		Crankcase breather	
	Cooling System	Radiator hoses, water pump, thermostat, coolant	
	Belts	Fan, alternator, AC compressor belt	
	Turbocharger	Turbocharger unit (if equipped)	
	Injection	Injectors, injector seals	
	Starter/Alternator	Starter motor, alternator	
	Electrical	Sensors, wiring harnesses	
	Transmission	Transmission oil/filter, seals, clutch, torque converter	
	Axles & Differential	Axle oil, seals, bearings, diff oil, gears	
	Driveline	Universal joints, center bearing, hub seals, prop. shaft	
	Brakes	Pads, discs/drums, calipers, booster, hoses, parking brake	
	Suspension/Chassis	Leaf spring bushings, shocks, U-bolts, frame bushings	
	Steering	Power steering filter/fluid, hoses, pump, cylinder seals	
	Tires/Wheels	Tires, rims, hub seals, bearings	
	Cab	Seat cushion/suspension, controls, switches, AC filter	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Electrical/Lights	Battery, fuses, relays, bulbs, wiring, markers, work lights	
Drilling Rig Superstructure	Mast/ Derrick	Mast locking pins, pivot pins, bushings, winch wire rope	
		Mast raise/lower cylinder seals, sheaves, rollers	
Rotary Head System	Rotary Drive	Rotary drive seals, bearings, oil (gearbox), bushings	
		Swivel head packings/seals	
	Rotary Table (if equipped)	Rotary table bearings, seals, oil	
Hydraulic System	Filtration	Main hydraulic return filter, pilot/suction filter	
	Fluid	Hydraulic oil (consumable)	
	Pumps	Hydraulic pump, auxiliary pump	
	Motors	Hydraulic motor seals (rotation/feed/aux)	
	Hoses/Couplings	Hydraulic hoses/couplings, quick-connects	
	Cylinders	Hydraulic cylinder seals (mast, winch, rod handler, etc.)	
	Valves	Control valve seals/service kits	
Mud Pump System	Mud Pump	Liners, piston/valve rubbers, piston rod, valves, seats	
		Suction/discharge manifolds, pump seals	
		Mud pump oil/filter, pressure gauge	
	Fluid End	Stuffing box packing, gaskets, O-rings	
	Drive System	Drive belts, couplings, bearings, oil	
Air Compressor System	Air Compressor	Air intake filter, oil filter, oil (consumable), separator	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
		Compressor belts, coupling, aftercooler, safety valves	
	Air Tank/Air Lines	Air tank drain valve, safety relief valve, hoses/fittings	
Winch System	Main/Tool Winch	Winch wire rope/cable, hook latch, brake lining	
		Winch drum bearings/seals	
	Control System	Winch lever/joystick, control cable	
Drill Pipe & Tooling	Drill Pipe	Drill pipe (regular replacement), tool joints, protectors	
	Drill Collars	Drill collar, joint threads, protectors	
	Subs & Adaptors	Cross-over subs, thread protectors	
Drill Bit Assemblies	DTH Hammer	DTH hammer spares (piston, O-rings, check valve)	
	DTH Drill Bit	DTH drill bit (wear item)	
	Rotary Tricone Bit	Tricone bit (wear item), seals	
	Drag/Mud Bit	Drag bit (wear item)	
Casing & Handling Tools	Casing	Casing pipes, casing shoes, protectors	
	Handling Tools	Casing elevators, slips, tongs, thread grease	
	Casing Drive Adapter	Adapter seals, pins, bushings	
Drilling Accessories	Swivel	Swivel packing/seals, bearings	
	Kelly Bar/Drive	Kelly bar bushings, drive bushing, bearings	
	Rod/Casing Rack	Rack pads/bushings, locking pins	
	Centralizer	Centralizer rollers, pins	
Mud System	Mud Tank	Mud tank repair plates, manhole gaskets	
	Agitator	Agitator paddle/shaft, bearings, seals	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Shale Shaker (if fitted)	Shaker screen, vibration motor bearings	
	Desander/Desilter	Cyclone cones, gaskets, valves	
	Mixing Pump	Mixing pump impeller, seals, gaskets	
Water System	Water Pump	Water pump impeller, seals, gaskets, hose, drive belt	
	Piping/Valves	Suction/discharge valves, O-rings, pipe clamps	
Electrical System	Generator/Alternator	Brushes, voltage regulator, bearing, panel fuses, bulbs	
	Wiring/Lights	Work lights, spotlights, switch panel, control cables	
	Sensors	RPM sensor, depth sensor, pressure sensor	
	Instrumentation	Control panel bulbs, meters, warning alarms	
Cab/Operator Station	Seat	Seat cushion/suspension	
	HVAC	AC filter, blower motor, cabin filter, wipers	
	Safety	Fire extinguisher, first aid kit, reflective triangle	
	Controls	Control switches, joystick handles, display panels	
Workshop Tools	On-board Workshop	Tool kit (spanners, hammers, screwdrivers, etc.)	
	Portable Welder	Welding cable, torch tip, mask lens, earth clamp	
	Power Outlets/Compressor	Extension cables, air hose, quick-connects	
Safety & Accessories	Emergency Equipment	Emergency stop switches, spill kit, eye wash, safety signage	
	Lighting	Warning beacon, reflective tape, night work lights	
	PPE Storage	Locker, hard hats, gloves, safety harness, boots	

Main Component/System	Subcomponent/Area	Replaceable Maintenance Part / Accessory	Replacement Cost
	Mud Guards	Mudguards/flaps, anti-slip mats, step pads	
	Spare Parts Storage	Toolboxes, pipe racks, component bins	