	Unit	ed Nations H	igh Commiss	ioner for Ref	ugees (UNH	CR)				
Maintenance and Repair services Financial offer form Page 1: PREVENTIVE MAINTENANCE SERVICES										
		All Car Brands considered					Agricultural Machines			
Preventive maintenance Services	Estimated duration of services in hours	Estimated cost of Labor	Estimated cost of consumables	Estimated cost of parts	Total cost per vehicle	Estimated duration of services in hours	Estimated cost of Labor	Estimated cost of consumables	Estimated cost of parts	Total cost per vehicle
Vehicle checks (Zero Km services and After every 5,000 Km)										
Description of tasks										
Zero-kilometer maintenance										
Renewal of engine oil										
Clean sediment filter cartridge (not fitted on all vehicles).										
Clean the fuel water separator										
Clean Fuel Sediment bowl										
Check air filters and clean if too dirty.										
Check air intake filter box and hoses for cracks or leaks.										
Check air intake hose clips for security										
Check water pump shaft for leaks and free play										
Check fan belts for tightness and condition (replace as necessary)										
Check radiator and all water hoses for leaks										
Check/top up radiator coolant										

Check radiator fins for blockage and clean as necessary					
Check exhaust system for leakage and security.					
Check battery connections and battery tray for condition and security.					
Check battery is not loose.					
Check battery electrolyte level (top up with battery water as necessary)					
Check engine and transmission mountings for condition and security.					
Check for oil leaks from engine and transmission					
Check condition and security of steering box joints and linkages.					
Check all steering ball joints and linages for wear					
Check power steering fluid level					
Check steering for abnormal noise and stiffness.					
Check gear box and differential drive flanges for free play.					
Check security of propeller drive shaft coupling nuts and bolts.					
Check all suspension bushings for wear and security					
Check all suspension bolts for security.					
Check wheel bearings for free play (with wheel jacked up) – adjust if necessary.					
Remove wheels and check tyres for cuts, bulges, uneven wear and thread depth.					
Remove rear brake drums, wash out dust, inspect shoes for wear and drums for condition					
Inspect rear wheel brake cylinders for fluid leaks.					

Check brake automatic adjusters for correct						ľ
operation.						
Inspect front brake pads for wear, seals for leaks	1					
and front brake disks for condition.						
Inspect all brake pipes, hoses and connections						
for condition and leaks.						
Pump grease in to steering knuckle joints.						
Check free wheel operation.						
Grease all steering grease nipples						
Refit wheels and check tyre pressures including						
spare tyre.						
Check security and operation of handbrake.						
Check efficiency of foot brake and handbrake by						
road testing.	ļ					
Check for body vibration noises and repair as						
necessary.	ļ					
Grease propeller shafts, sliding joints and						
universal joints.	 					
Lubricate exposed parts of accelerator cable.			 	 		P
Check gear box oil level.			 	 		P
Check transfer box oil level.			 	 		ļ ļ
Check front and rear differential oil level.	ļ					
Check brake master cylinder fluid level	ļ					
Check clutch master cylinder fluid level.	ļ					
Fill windscreen washer bottle with water.						
Check condition of wiper blades.	ļ					
Check operation of horns.						
Check all instrument gauges for correct						
operation.	ļ					
Check condition of all lights and lenses.	ļ					
Check operation of indicator lights and hazard						
lights.	<u> </u>		 			ļļ
Check rear view mirrors.	ļ					ļļ
Check operation of window controls.	<u> </u>					
Check operation of all door, bonnet and tailgate						
latches and locks.						

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Lubricate all door locks, hinges and check straps.						
Check suspension shock absorbers condition and						
operation.						
Check chassis for cracks (especially around						
suspension mounting areas).						
SERVICE A (Every 10,000 Km)						
Perform all 5,000 Km Checks tasks						
Clean oil filter cap and crank case breather						
Replace cabin air filter/ AC filter						
Replace engine oil filter						
Clean Fuel filters						
Clean and reset spark plugs (petrol engine)						
Lubricate all grease points						
Check all transmission oil levels						
Check all fluid levels (Brake, Clutch, windscreen						
washer and steering)						
Lubricate with oil-can or grease; Throttle and						
accelerator linkages, Door locks and hinges,						
Bonnet and boot fastenings and locks						
Check Fan belt tension (DO NOT OVERTIGHTEN)						
Check Engine idling speed						
Check Clutch and brake pedal clearances						
Check Body and spring U-bolts						
Check Tyre pressures and wear						
Check Wheel nuts for tightness						
Check Prop-shaft bolts						
Perform Wheel alignment and balancing						
SERVICE B Every 20,000 Km (Service A plus the						
following tasks)						
Replace fuel filters						
Replace air cleaner element (instead of cleaning)						
Replace spark plugs						

Check suspension bushes Image: Check brake, clutch and Fuel pipes Image: Check brake, clutch and Fuel pipes Image: Check brake, clutch and Fuel pipes Reset valve clearences Image: Check brake linings and drums Image: Check brake linings and renew Image: Check brake lining and renew Image: Check brake lining and ren									
Check brake, clutch and Fuel pipes Reset valve clearences Check brake linings and drums SERVICE C Every 40,000 Km (Service B plus the following tasks) Clean fuel tank Drain and renew oil in hub reduction gears Drain and renew oil in gearboxes Drain and renew oil in differentials Clean and repack front wheel bearings Tyres and tubes rotation SERVICE D Every 60,000 Km (Service B plus the following tasks)						Check battery and radiator fluid levels			
Reset valve clearences Check brake linings and drums SERVICE C Every 40,000 Km (Service B plus the following tasks) Clean fuel tank Drain and renew oil in hub reduction gears Drain and renew oil in gearboxes Drain and renew oil in differentials Clean and repack front wheel bearings Tyres and tubes rotation SERVICE D Every 60,000 Km (Service B plus the following tasks)						Check suspension bushes			
Check brake linings and drums SERVICE C Every 40,000 Km (Service B plus the following tasks) Clean fuel tank Drain and renew oil in hub reduction gears Drain and renew oil in gearboxes Drain and renew oil in differentials Clean and repack front wheel bearings Clean and repack front wheel bearings Tyres and tubes rotation SERVICE D Every 60,000 Km (Service B plus the following tasks) Drain and flush engine coolant and renew Drain and renew brake fluid Drain and renew brake fluid Drain and renew brake fluid						Check brake, clutch and Fuel pipes			
SERVICE C Every 40,000 Km (Service B plus the following tasks) Clean fuel tank Drain and renew oil in hub reduction gears Drain and renew oil in gearboxes Drain and renew oil in gearboxes Drain and renew oil in differentials Clean and repack front wheel bearings Tyres and tubes rotation SERVICE D Every 60,000 Km (Service B plus the following tasks) Drain and flush engine coolant and renew Renew power steering fluid Drain and renew brake fluid Drain and renew clutch fluid						Reset valve clearences			
following tasks) Clean fuel tank Image: Clean fuel tank						Check brake linings and drums			
Drain and renew oil in hub reduction gears Image: style									
Drain and renew oil in gearboxes						Clean fuel tank			
Drain and renew oil in differentials Image: Service Serv						Drain and renew oil in hub reduction gears			
Clean and repack front wheel bearings Image: Clean and repack front wheel bearings Image: Clean and repack front wheel bearings Tyres and tubes rotation Image: Clean and repack front wheel bearings Image: Clean and repack front wheel bearings SERVICE D Every 60,000 Km (Service B plus the following tasks) Image: Clean and repack front wheel bearings Image: Clean and repack front wheel bearings Drain and flush engine coolant and renew Image: Clean and repack front wheel bearing fluid Image: Clean and repack fluid Image: Clean and repack fluid Drain and renew brake fluid Image: Clean and repack fluid						Drain and renew oil in gearboxes			
Tyres and tubes rotation Image: SERVICE D Every 60,000 Km (Service B plus the following tasks) Drain and flush engine coolant and renew Image: Service B plus the following tasks) Drain and flush engine coolant and renew Image: Service B plus the following tasks) Drain and flush engine coolant and renew Image: Service B plus the following tasks) Drain and renew power steering fluid Image: Service B plus the following tasks) Drain and renew brake fluid Image: Service B plus the following tasks) Drain and renew clutch fluid Image: Service B plus the following tasks)						Drain and renew oil in differentials			
SERVICE D Every 60,000 Km (Service B plus the following tasks) Drain and flush engine coolant and renew Renew power steering fluid Drain and renew brake fluid Drain and renew clutch fluid						Clean and repack front wheel bearings			
following tasks) Drain and flush engine coolant and renew Image: Cool of the cool						Tyres and tubes rotation			
Renew power steering fluid Image: Constraint of the steering fluid		· · ·							
Drain and renew brake fluid Drain and renew clutch fluid Oran Oran Oran Oran Oran Oran Oran Oran						Drain and flush engine coolant and renew			
Drain and renew clutch fluid						Renew power steering fluid			
						Drain and renew brake fluid			
						Drain and renew clutch fluid			
Change of tyres if worn						Change of tyres if worn			
Change of shock absorbers if worn						Change of shock absorbers if worn			
Change of wheel bearings if worn						Change of wheel bearings if worn			
SERVICE E Every 100,000 Km (Service B plus the following tasks)		e							
Change fuel injector nozzle						. .			
Clean axle breathers									
Replace timing belt						Change fuel injector nozzle			
Discount %						Change fuel injector nozzle Clean axle breathers			
Total Amount (USD)						Change fuel injector nozzle Clean axle breathers Replace timing belt			

Un	ited Nations I	High Commiss	sioner for Re	fugees (UNH	CR)			
Maintenance and Repair services Financial offer form Page 2: REPAIR SERVICES								
		All Car brand	s considered		AGRICULT	URAL MACH	NES "LANDI	NI 82 HP"
Repair Services	Estimated duration of services in hours	Estimated cost of Labor	Estimated cost of parts	Total cost per vehicle	Estimated duration of services in hours	Estimated cost of Labor	Estimated cost of parts	Total cost per vehicle
EVENTUAL PROBLEMS DESCRIPTION								
1. ENGINE/ DRIVE TRAIN PROBLEMS		1	1	-	-	-		
Starting problems								
Emission issues (Excessive smoke)								
Worn clutch								
Car shaking at any speed								
Worn gear synchronizers								
Overheating engine								
Thermostat failure								
Engine Sputtering								
2. GENERAL MECHANICAL ISSUES		-	-		-		-	
Poor fuel economy								
Too much oil consumption								
Starter failure								
Alternator failure								
AC Not blowing cold air								
Faulty water pump								
Clogged fuel supply system								
Exhaust system leaks								
Ignition problems								
Steering issues								
Radiator leaks								
3. TYRE ISSUES								
Tyre changing and fitting								
Wheel balancing								
Wheel alignment								

Worn brake pads/ Brake shoes (linings)				
4. ELECTRICAL ISSUES				
Burned out bulbs				
Power window issues				
Power door lock issues				
5. EXTERIOR ISSUES				
Paint problems				
Dents and scratches				
Cracked or loose fuel cap				
Windshield and other glasses replacement				
Discount %				
Total Amount (USD)				

United Nations High Commissioner for Refugees (UNHCR)								
Maintenance and Repair services Financial offer form Page 3: SPARE PARTS & CONSUMABLES COSTS								
	Flat price for all car brands	AGRICULTURAL MACHINES						
Spare parts	Estimated unitary cost of part	Estimated unitary cost of part						
A/C condenser								
AC belt								
AC filter								
AC gas								
AC piping								
Air conditioner								
Air filter								
Alternator								
Amp meter								
Automatic voltage regulator								
Axle oil								
Axle shaft								

Back up lamp switch	
Backdoor glass	
Ball joint L	
Ball joint R	
Battery	
Battery clamps	
Battery electrolyte	
Battery terminals	
Boot release cable	
Brake booster	
Brake Caliper	
Brake disc	
Brake drum	
Brake fluid	
Brake hoses	
Brake hydraulic tubes	
Brake light switch	
Brake master cylinder	
Brake Pad	
Brake shoe	
Bulbs	
Camshaft position sensor	
Car jack	
Chassis and bodywork	
Check engine mounting rubber	
Clutch friction disc	
Clutch master cylinder	
Clutch pressure plate	
Clutch release bearing	
Clutch release cylinder	
Clutch System fluid	
Coolant	
Coolant filter	
Crankshaft oil seal Front	
Crankshaft oil seal Rear	
Crankshaft position sensor	

Dashboard signs	
Diesel fuel injector	
Differential box	
Differential oil	
Diode bridge/ Rotating rectifier	
Distribution belt	
Distribution chain	
Door hinge	
Door lock	
Door lock switch	
Door window switch	
Engine control unit (ECU)	
Engine coolant pump	
Engine coolant temperature sensor	
Engine inlet manifold air pressure sensor	
Engine inlet manifold air temperature sensor	
Engine interphase module (EIM)	
Engine management unit (EMU)	
Engine oil	
Engine oil pressure sensor	
Engine speed sensor	
Exhaust manifold gasket	
Fan belt	
Frequency meter	
Front axle hub bearings	
Front axle hub oil seals	
Front axle pinion oil seal	
Front Blinker Lights	
Front bumper	
Front coil spring	
Front door L	
Front door R	
Front Quarter glass L	
Front Quarter glass R	
Fuel filter	
Fuel filter cap	

Fuel filter element	
Fuel injector	
Fuel pressure sensor	
Fuel pump solenoid	
Fuel temperature sensor	
Fuel unit nozzles	
Fuel/ Water separator	
Fuses	
Fuses/circuit breakers	
Gear oil	
Gearbox mounting rubber	
Gearbox oil	
Glow plug	
Grease	
Hand brake	
Hazard lights	
Head lights	
Headlight switch	
Hood release cable	
Horn	
Horn	
Hose clamps	
Ignition coil	
Ignition switch	
Indicator lights	
Intake manifold gasket	
Leads	
Magnetic pickup	
Manifold connections	
Oil filter	
Other brakes parts	
Outside mirror L	
Outside mirror R	
Paint	
Parking brake cable	
Parking brake shoe	

Propeller shaft	
Propeller shaft joints	
Propeller shaft yoke	
Radiator	
Radiator cap	
Radiator clamps	
Radiator coolant level sensor	
Radiator hoses	
Radio antenna	
Rear axle hub bearings	
Rear axle hub oil seals	
Rear axle pinion oil seal	
Rear bumper	
Rear coil spring	
Rear door L	
Rear door R	
Rear leaf spring	
Rear leaf spring nuts	
Rear leaf spring shackle bushing	
Rear leaf spring U-Bolt	
Rear Quarter glass L	
Rear Quarter glass R	
Relays	
Rim	
Rocker arm cover gasket	
Seat belt	
Seat cover	
Shifting linkage	
Service A	
Service B	
Service C	
Shock absorber (Front)	
Shock absorber (Rear)	
Spark plug	
Spring pin	
Stabilizer bar bushing	

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Starter Motor	
Steering knuckles	
Steering system	
Steering tie rod end boot	
Steering tie rod end L	
Steering tie rod end R	
Studs	
Suspension bush	
Suspension Control Arm Bushing	
Suspension Stabilizer Bar Link	
Tail light assembly	
Thermostat and gasket	
Tires	
Transfer case	
Transfer switch	
Transmission fluid	
Transmission oil	
Transmission oil leakage	
Turn signal switch	
Turn signals	
Universal joint	
V-belt/drive belt and tensioner	
Volt meter	
Water pump and gasket	
Wheel bearing	
Wheel brake cylinder	
Wheel nuts	
Window winding mechanism	
Windshield	
Wiper blades	
Wiper switch	
Wiring harness	
Discount %	
Total Amount (USD)	