

TECHNICAL SPECIFICATIONS REQUIRED		TECHNICAL SPECIFICATIONS OFFERED	
		PLEASE FILL OUT <u>ALL THE SPACES</u> BELOW TO SPECIFY THE EQUIPMENT BEING OFFERED FOR <u>THE OFFER TO BE VALID</u>	
Item	Description and purpose of the item	Make/ brand and model of item	
Grain Combine Harvester	Combine Harvester suited for cutting, picking, stripping, or picking up crops, threshing, separating, cleaning and conveying grain into a grain hopper or bag and depositing harvest residue onto the ground.		
Unit	Combine Harvester + spare parts	Name and address of the manufacturer of item	
Total quantity of units required	5		
Country	Zimbabwe		
1.0	Technical Specifications: <i>General</i>		
1.1	Brand new and latest model		
1.2	Capable of reaping, threshing and binding operations into a single operation		
1.3	Capable of harvesting maize, wheat, sunflower, and soybean crops		
1.4	Supplied with appropriate heads for different crops		
1.5	Threshing technology: Drum threshing		
1.6	Wheelbase: 2.0 – 2.5 m		
1.7	Dimension, without Header, Length x Width x Height (mm): 10,760 x 3,200 x 3,400		
1.8	Steering: Hydrostatic or hydraulic		
1.9	Fitted with a foot pedal stopping the combine and resuming at the same speed		

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1.10	Cabin type: Ergonomically integrated. Protected from vibration. Equipped with rear-view mirrors, canopy, front and backlights for night work.	
1.11	Fuel tank capacity: 120 to 160 litres	
1.12	Grain tank: 1 – 3 m ³	
1.13	Weight without header: 3200 – 3800 kg	
1.14	Noise Level, db(A), maximum: 95	
2.0	Technical Specifications: <i>Engine</i>	
2.1	Type: Diesel-powered engine	
2.2	Engine power: 50-60 HP (80 – 85 kW)	
2.3	Rating: 2200 - 2600 rpm	
2.4	Water cooling	
2.5	Direct injection	
2.6	The engine is capable of operating in the summer season of arid and semi-arid climates with temperatures ranging from 30° to 45°C, without overheating	
3.0	Technical Specifications: <i>Transmission System</i>	
3.1	Hydrostatic Range 4 forward + 1 reverse, a mechanical combination of synchronizer and constant mesh spur gear with differential unit	
4.0	Technical Specifications: <i>Drive System</i>	
4.1	Traction type: Wheel	
4.2	Tyre size(s)	
4.2.1	Front:	16.9 X 30 (0.43 X 0.76m), 12 PR
4.2.2	Rear:	7.5 X 16 (0.19m X 0.41m), 12 PR
4.4	Ground clearance(mm):	360

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4.5	Can move stably without bogging down on soft soils	
5.0	Technical Specifications: <i>Cutting table, reel and elevator</i>	
5.1	Effective Operating cutting width: 2 – 3 m	
5.2	Cutting height: Hydraulically operated	
5.3	Pick-up reel: 4 sections, fitted with spring reel tines	
5.4	With declogging mechanism	
5.5	Reciprocating cutting bar/knives	
5.6	Reel Adjustment: Height and fore/aft adjustable	
5.7	Reel Drive: Hydraulic control from the driver's seat	
5.8	Reel speed: Variable speed from 0 – 45 rpm	
5.9	Crop feed mechanism: Table auger, crop conveyor and feed roller	
6.0	Technical Specifications: <i>Threshing drum and concave</i>	
6.1	Concave is suitable for crops like rice and maize	
6.2	Concave fitted with 8 bars	
6.3	Threshing drum diameter: 620 mm	
6.4	Drum width: 1650 mm	
6.5	Drum fitted with 6 rasp bars	
6.6	Drum speed: Stepless between 350 and 2000 rpm	
6.7	Drum fitted with speed indicator	
6.8	Easy and complete removal of residual seeds remaining inside its equipment from the previous harvest	

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7.0	Technical Specifications: <i>Sieves</i>	
7.1	Cleaning area: Min. 0.65 m ²	
7.2	Sieve sizes: suitable for wheat, barley, maize and soybean	
7.3	Fitted with a cleaning fan	
8.0	Technical Specifications: <i>Grain handling</i>	
8.1	Provide a feeding table for stationary threshing	
8.2	Fitted with a side-mounted bagging device	
8.3	Fitted with a pneumatic grain conveyor	
8.4	Capable of effectively separating the grain from the straw or chaff without contamination.	
8.5	Capable of effectively separating the grain from the straw or chaff without breaking the seeds.	
9.0	Technical Specifications: <i>Grain tank</i>	
9.1	Grain storage capacity: 2.0 - 3.0 m ³ with hopper, two outlets	
10.0	Certification and Compliance with international standards	
10.1	A copy of the latest and valid national or international standard certificate/ badge confirming the quality of the brand and model of the combine harvester delivered must be attached to your application.	
10.2	ISO 4254-7:2017 and associated international standards	
10.3	All moving and rotating shafts, pulleys, belts, and other hazardous parts to be covered and guarded	

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11.0	Technical Specifications: <i>Standard Tools and Accessories</i>	
11.1	Each unit is provided with a manufacturer's set of standard tools for repair and maintenance.	
11.2	First aid kit	
11.3	Fire extinguisher	
11.4	Each unit is provided with a manufacturer's set of standard tools for repair and maintenance, a minimum of:	
11.4.1	Three (3) pieces open wrenches	
11.4.2	One (1) piece Philip or cross-tip screwdriver	
11.4.3	One (1) piece flat screwdriver	
11.4.4	One (1) piece of mechanical pliers	
11.4.5	One (1) piece adjustable wrench	
11.4.6	One (1) piece of grease gun	
11.4.7	One (1) piece tire wrench	
11.4.8	One (1) piece lifting jack	
11.4.9	One (1) piece toolbox/carrier	
12.0	Manuals:	
12.1	Original Equipment Manufacturer's Manual (OEM) (written in English and printed or on CD and preferably in Persian languages) provided for each unit. Parts, Service, and User's/Operators	
12.2	Brochures, leaflets, quality certificates and/or manuals that provide information on the required technical specification of the offered item must be included in the documents in English and preferably in Persian languages, as well	
12.3	The cost of the manuals should be included in the DAP/DAT cost of the equipment	
13.0	Spare Parts:	

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13.1	A brand with local spares backup supply easy to maintain and service	
13.2	A list of the manufacturer's recommended spare parts, sufficient for 2 years or a minimum of 2,000 hours of operation must be submitted for each unit. The list must be itemised, cost and submitted with your bid.	
14.0	After-sales service:	
14.1	Kindly indicate the name, Tel./Fax number and email or postal address of your service agents in Zimbabwe.	
14.2	The bid price must include the cost of delivery and installation	
15.0	Delivery, and Training	
15.1	The bid price must include the cost of delivery, training, commissioning, and installation of the machine unit.	
15.2	Before delivery, the FAO Technical Staff will conduct a bid post-qualification inspection of the machine unit. Kindly, indicate who will be the person responsible and contact details.	
15.3	The machine units must be delivered fully assembled and ready for use.	
15.4	A final acceptance inspection will be conducted by FAO Technical Staff.	
15.5	Upon delivery, the supplier must provide training on the operation, maintenance, and troubleshooting of the machine unit.	
15.6	Training Needs Description: Both theoretical and practical (hands-on) on how to operate, maintain, and troubleshoot the machine unit for 10 participants (approximately)	