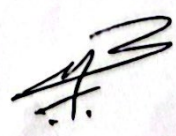


Technical Specification for Chainsaw

Category	Specifications
General Description	A portable, mechanical saw used for cutting wood, felling trees, pruning branches, and other forestry or agricultural applications. Powered by gasoline, electricity, or a battery pack.
Engine & Power Source	
Type	2-stroke gasoline engine / Electric / Battery-powered
Displacement	35cc – 120cc (for gasoline models)
Power Output	1.5 kW – 6.5 kW
Fuel Type	Gasoline mixed with oil (for 2-stroke engines)
Fuel Tank Capacity	0.3 – 1.5 liters
Oil Tank Capacity	0.15 – 1.0 liters (for chain lubrication)
Battery Voltage (for battery models)	36V – 80V
Run Time (for battery models)	30 – 90 minutes per charge
Cutting System	
Guide Bar Length	12 inches – 36 inches
Chain Pitch	0.325" / 3/8" / 0.404"
Chain Gauge	0.043" – 0.063"
Chain Speed	10 – 25 m/s
Chain Lubrication	Manual and Automatic
Chain Brake	Manual & Inertia-activated
Safety Features	
Low Kickback Chain	Yes
Chain Brake System	Yes
Hand Guard (Front and Rear)	Yes
Anti-Vibration System	Yes
Throttle Lock	Yes
Safety Trigger	Yes
Ergonomics & Design	
Handle Type	Ergonomic wrap-around handle
Weight	3 kg – 8 kg
Noise Level	90 – 115 dB(A)
Vibration Level	≤ 5 m/s ²



Additional Features	
Tool-free chain tensioning	Optional
Quick-start system (for gasoline models)	Yes
LED Battery Indicator (for battery models)	Yes
Air Filtration System (for gasoline models)	Yes
Automatic Decompression Valve (for easy start)	Yes
Applications	
Tree felling and logging	Yes
Pruning and trimming	Yes
Firewood cutting	Yes
Land clearing and forestry maintenance	Yes
Compliance & Certifications	
CE / ISO 11681-1 & 2 / ANSI B175.1 (safety standards)	Yes
EPA / CARB (for emissions compliance)	Yes
RoHS (for battery-powered models)	Yes
Accessories & Inclusions	
Chain sharpening tool	Included
Extra chain and bar oil	Included
Protective carrying case	Included
User manual & safety guidelines	Included

Note: The supplier will have to provide all the specifications and compiled requirements in each and every variant they are able to supply. The competition will be held only in equal level (same specifications). So, it is advised to provide brochure for all the available variant.

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Technical Specification for Mini Tiller

Category	Specifications
General Description	A compact, lightweight agricultural machine designed for soil preparation, weeding, and inter-row cultivation in small farms, gardens, and hilly terrain. Suitable for Nepal's diverse topography.
Engine & Power Source	
Engine Type	4-stroke gasoline/diesel engine (170F-178F)
Displacement	100cc – 250cc
Power Output	5 HP – 9 HP
Fuel Type	Petrol/Diesel
Fuel Tank Capacity	3 – 7 liters
Fuel Consumption	0.5 – 1.2 liters/hour
Cooling System	Air-cooled
Starting System	Recoil / Electric start
Transmission & Drive System	
Transmission Type	Gear / Belt / Chain drive
Number of Gears	2 forward, 1 reverse
Clutch Type	Manual / Automatic centrifugal clutch
Tilling Depth	10 – 30 cm
Tilling Width	60 – 120 cm
Rotavator Blades	16 – 32 curved tines
Build & Design	
Frame Material	Heavy-duty steel
Handlebar	Adjustable, vibration-dampened
Weight	70 – 100 kg
Noise Level	80 – 100 dB(A)
Performance & Features	
PTO Shaft	Optional
Depth Adjustment	Multi-position depth control
Interchangeable Attachments	Plough, ridger, furrower, weeder, seed drill
Terrain Suitability	Suitable for hilly and plain areas
Applications	

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Primary and secondary tillage	Yes
Intercropping and weeding	Yes
Soil aeration and seedbed preparation	Yes
Compliance & Certifications	
Safety Features	Emergency stop switch, protective covers, anti-slip wheels
Certifications	ISO / CE / BIS
Emission Standard	Euro 3 / Bharat Stage VI
Accessories & Inclusions	
Tilling blades (set of 4/6/8 blades)	Included
Spare parts (spark plug, filters, belts)	Included
User manual and maintenance guide	Included
Warranty	1 – 2 years

Note: The supplier will have to provide all the specifications and compiled requirements in each and every variant they are able to supply. The competition will be held only in equal level (same specifications). So, it is advised to provide brochure for all the available variant.





Technical Specification for Home-Use Millet Thresher

Category	Specifications
General Description	A compact and efficient machine designed for small-scale millet threshing. Ideal for households and small farmers in hilly region of Nepal. Effectively separates millet grains from husks and stalks, reducing labor and increasing efficiency.
Power & Engine	
Power Source	Electric motor / Diesel engine / Manual operation
Power Rating	1 HP – 5 HP (for motorized models)
Voltage	220V (for electric models)
Fuel Type	Diesel/Petrol (for engine-driven models)
Motor Speed	1400 – 2800 RPM
Threshing Capacity	
Processing Capacity	50 kg/hr – 200 kg/hr
Grain Recovery Rate	≥ 95%
Broken Grain Content	≤ 5%
Suitable Millet Moisture	12% – 14%
Threshing Components	
Type	Drum / Axial flow / Peg-tooth mechanism
Separation Efficiency	≥ 90%
Sieving Mechanism	Gravity-based separator
Hopper Capacity	10 – 50 kg
Outlet System	Separate grain, husk, and chaff discharge
Structural & Material Specifications	
Frame Material	Mild steel / Stainless steel
Dimensions	Compact size (800x500x800 mm – 1200x700x1200 mm)
Weight	30 kg – 100 kg
Noise Level	≤ 75 dB(A)
Additional Features	
Adjustable threshing drum speed	Yes
Built-in blower for husk and chaff separation	Yes

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Simple control panel for easy operation	Yes
Safety mechanism	Overload protection, emergency stop switch
Manual crank option for areas with limited electricity	Yes
Applications	
Household millet threshing	Yes
Small farms and cooperative use	Yes
Village-level millet processing	Yes
Compliance & Certifications	
ISO 9001 / CE Certified	Yes
Compliance with food safety standards	Yes
Energy-efficient models available	Yes
Accessories & Inclusions	
Extra sieves and screens	Included
Spare belts and pulleys	Included
Tool kit for maintenance	Included
User manual & safety guide	Included
Warranty	1 – 2 years

Note: The supplier will have to provide all the specifications and compiled requirements in each and every variant they are able to supply. The competition will be held only in equal level (same specifications). So, it is advised to provide brochure for all the available variant.

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Technical Specification for Home-Use Paddy Milling Machine

Category	Specifications
General Description	A compact and efficient machine designed for small-scale rice processing, ideal for households and small farmers in Nepal. Removes husk and bran layers to produce polished rice.
Power & Engine	
Power Source	Electric motor / Diesel engine
Power Rating	1 HP – 5 HP
Voltage	220V (for electric models)
Fuel Type	Diesel/Petrol (for engine-driven models)
Motor Speed	1400 – 2800 RPM
Milling Capacity	
Processing Capacity	50 kg/hr – 300 kg/hr
Rice Recovery Rate	65% – 72%
Broken Rice Content	≤ 5%
Paddy Input Moisture	12% – 14%
Milling Components	
Type	Rubber roller / Steel roller
Husking Efficiency	≥ 90%
Polishing Mechanism	Friction type
Sieving Mechanism	Gravity-based separator
Hopper Capacity	10 – 50 kg
Outlet System	Separate husk, bran, and white rice discharge
Structural & Material Specifications	
Frame Material	Mild steel / Stainless steel
Dimensions	800x400x800 mm – 1200x600x1200 mm
Weight	30 kg – 100 kg
Noise Level	≤ 75 dB(A)
Additional Features	
Automatic Feeding System (Optional)	Yes
Built-in Blower for Husk Separation	Yes
Adjustable Roller Pressure	Yes

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गण्डकी प्रदेश, नेपाल
२०७३



Simple Control Panel	Yes
Safety Mechanism	Overload protection, emergency stop switch
Applications	
Household Rice Milling	Yes
Small Farms and Cooperative Use	Yes
Village-Level Rice Processing	Yes
Compliance & Certifications	
ISO 9001 / CE Certified	Yes
Compliance with Food Safety Standards	Yes
Energy-Efficient Models Available	Yes
Accessories & Inclusions	
Extra Rubber Rollers / Steel Rollers	Included
Spare Sieves and Screens	Included
Tool Kit for Maintenance	Included
User Manual & Safety Guide	Included
Warranty	1 – 2 years

Note: The supplier will have to provide all the specifications and compiled requirements in each and every variant they are able to supply. The competition will be held only in equal level (same specifications). So, it is advised to provide brochure for all the available variant.

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