



नेपाल कृषि अनुसन्धान परिषद्
राष्ट्रिय कृषि अनुसन्धान प्रतिष्ठान
राष्ट्रिय कृषि इन्जिनियरिङ्ग अनुसन्धान केन्द्र



पत्र संख्या २०६८/६५

चलानी नं २६४

खुमलटार, ललितपुर
नेपाल

मिति: २०७८/१२/०४

विषय: प्राबिधिक स्पेसिफिकेशन सम्बन्धमा ।

श्री चौरीदेउराली गाउँपालिका
गाउँ कार्यपालिकाको कार्यालय
काभ्रेपलाञ्चोक, बागमती प्रदेश, नेपाल ।

उपरोक्त सम्बन्धमा त्यस कार्यालयको च. नं ८२८, मिति २०७८/११/१० को पत्रानुसार हाते ट्रयाक्टर (पेट्रोल र डिजेल मिनी टिलर) र मल्टीक्रप थ्रेसर मेसिनको प्राबिधिक स्पेसिफिकेशन तयार गरी यसै पत्र साथ संलग्न गरी पठाईएको ब्यहोरा अनुरोध छ ।

चौरीदेउराली गाउँपालिका
पत्रा नं.: ५४६.....
मिति: २०७८/१२/१०

Shukha
शैलेन्द्र खत्री
बैज्ञानिक, एस. १
कृषि इन्जिनियरिंग

वैज्ञानिक एस-१

Technical Specification and Cost Estimate of Gasoline Mini Tiller

Technical Specification:

S. No.	Parameters	Details	Remarks
1.	Make & Model of machine	ISO certified or certificated, tested and approved by ISO, CE, EPA or certification authorized government institute	
2.	Engine	a) Engine type: 4 Stroke, Single cylinder, Inclined/vertical, Forced air cooled gasoline (petrol) Engine b) Power: 7-8 HP	
3.	Transmission system	a) Wet type, friction clutch b) Gear system c) No. of Gear speed: 2 Forward & 1 Reverse and neutral	
4.	Model of Transmission	Driven by gear system	
5.	Number of rotor blades	24-32 blades	
6.	Transport wheel	d) Material Type: Pneumatic, traction e) Number of wheel: Two f) Tyre Size (inch): 4.0-8	
7.	Starting method	Manual or Recoil starting system	
8.	Overall dimensions (mm)	1500-1850 (L) x 800-1050 (W) x 800-1100 (H)	
9.	Weight (kg)	c) With transport wheel:75-125 d) With rotor axle:75-130	
10.	Feature required	Suitable for both wet land & dry land application, effective control system such as double clutch lever function etc.	
11.	Width of cut (Tilling width-cm)	70-120	
12.	Depth of cut (Tilling depth-cm)	10-20	
13.	Productivity Rotary Tilling (m ² /hr)	400-750	

Signature

14.	Fuel Consumption (litre/hr)	≤0.9	
15.	Fuel Tank Capacity (litre)	3-6	
16.	Operation Manual and Parts catalogue	One set of operational, maintenance and instructional manual and parts catalogue in English and Nepali (language understandable to related farmers)	
17.	Training on operation and maintenance	Basic training as well as field demonstration on operation, handling, safety and periodic maintenance of mini tiller to the related persons	
18.	Warranty and standards	Minimum 1 year, supplier having a responsibility to provide on-site service during a warranty period of whole machine	
19.	Accessories parts and tools	one set of complete tool box necessary for assembling and disassembling	

Technical Specification and Cost Estimate of Multi Crop Thresher

Technical Specification:

S. No.	Parameters	Details	Remarks
1.	Make & Model of machine	ISO certified or certificated, tested and approved by certification authorized government institute	
2.	Power source (Gasoline Engine)	a) Engine type: 4 Stroke, Single cylinder, Inclined/vertical, Forced air cooled gasoline (petrol) Engine b) Power: ≥ 5.5 HP c) Rated RPM: 3000- 3600	
3.	Roller speed	≥ 800 RPM	
4.	Capacity:	Paddy and wheat : ≥ 200 kg/hr Millet: ≥ 80 kg/hr	
5.	Breakage rate	$\leq 2\%$	
6.	Cleaning fan speed	≥ 2000 RPM	
7.	Transport wheel	a) Material Type: Pneumatic, traction b) Number of wheel: Two	
8.	Feature required	Suitable for rice, wheat millet etc.	
9.	Fuel Tank Capacity (litre)	3-6	
10.	Safety	Protective covers on moving parts such as belt, pulley.	
11.	Operation Manual and Parts catalogue	One set of operational, maintenance and instructional manual and parts catalogue in English and Nepali (language understandable to related farmers)	
12.	Training on operation and maintenance	Training as well as field demonstration on operation, threshing, handling, safety and periodic maintenance of thresher to the related persons	
13.	Warranty and standards	Minimum 1 year, supplier having a responsibility	

		to provide on-site service during a warranty period of whole machine	
14.	Accessories parts and tools	one set of complete tool box necessary for assembling and disassembling	