



भारत सरकार
Government of India
कृषि एवं किसान कल्याण मंत्रालय
Ministry of Agriculture and Farmers Welfare
कृषि, सहकारिता एवं किसान कल्याण विभाग
Department of Agriculture, Cooperation and Farmers Welfare
उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान,
FARM MACHINERY TRAINING & TESTING INSTITUTE (NER)
बिस्वनाथ चारिआलि, बिस्वनाथ – असम
BiswanathChariali:Biswanath: Assam-784176
An I.S.O. 9001- 2015 Certified Institute



SPECIFICATION OF POWER WEEDER

1. SPECIFICATIONS

1.1 General

Name of machine :
Manufacturer's name and address :

Make :
Model :
Type :
Serial No. :
Size of machine (mm) :
Year of manufacture :
Country of origin :

1.2 Details of prime mover

Make :
Model :
Type :
Year of manufacture :
Sl. No. :
Country of origin :
Recommended high idle speed :
(rpm)
Recommended low idle speed :
(rpm)
Recommended rated speed (rpm) :
Speed at maximum torque, rpm :
(apa)

1.3 Cylinder and Cylinder Head(apa)

Number :
Disposition :
Bore/Stroke (mm) :
Capacity, cc :

	Compression ratio	:
	Valve clearance (mm)	:
	- Inlet	:
	- Exhaust	:
	Type of carburetor	:
	Make and model of spark plug	:
	Electrode gap of spark plug (mm)	:
1.4	Fuel supply system	:
	Type of fuel feed	:
	Material of fuel tank	:
	Capacity of fuel tank, (l)	:
	Location of fuel tank	:
	Provision for draining of sediments/water	:
	Type of fuel filter	:
	Fuel ON/OFF	:
	Governor	:
	-Make	:
	-Type	:
1.5	Air-intake system	:
1.5.1	Pre-cleaner	:
1.5.2	Air-cleaner	:
	Make	:
	Type	:
	Type of element	:
	Location of air-cleaner	:
	Capacity of air-cleaner bowl (ml)	:
	Recommended service schedule	:
1.6	Exhaust	:
	Type	:
	Location	:
1.7	Lubrication system	:
	Type	:
	Type of lubricant recommended	:
	Oil capacity, (l)	:
	Oil change period	:
1.8	Cooling system	:
	Type	:
1.9	Starting system	:
	Type	:
	Ignition system	:
	Aid for cold starting	:
	Any other provision for easy starting	:
1.10	Transmission system	:
1.10.1	Crankshaft to Intermediary shaft	:
	Type of drive	:
	Type of V-belt	:

	Size of pulley (mm)	:
	- Drive	:
	- Driven	:
	- Idler	:
	Reduction ratio	:
	Type of clutch	:
	Safety Provision	:
1.10.2	Intermediary shaft to rotary tiller shaft (as submitted by the applicant)	
	Method of drive	:
	No. of teeth of drive sprocket	:
	No. of teeth of driven sprocket	:
	Reduction ratio	:
	Length of chain (mm)	:
	No. of rollers	:
	Roller dia.(mm)	:
	Pitch (mm)	:
	No. and Size of Bearing	:
	Safety Provision	:
1.10.3	Rotor	
1.10.3.1	Rotor cover (top)	
	Material	:
	Size (mm)	:
	Thickness of sheet (mm)	:
	Method of fixing	:
1.10.3.2	Rotor shaft	
	Material	:
	Type of rotor axle	:
	Length of the shaft (mm)	:
	No. of flanges	:
	No. of discs/ wheels	:
	Type of flanges	:
	Size of flanges (mm)	:
	Thickness of flange (mm)	:
	No. of blades on each flange	:
	Method of mounting blades on flanges	:
	Distance between two flanges (mm)	:
	Dia. of rotor with blades (mm)	:
	Method of fixing	:
1.10.3.3	Rotor blades	
	Numbers	:
	Type	:
	Material	:
	Trade mark	:
	Thickness (mm)	:
	Width of beveled edge (mm)	:
	No. & size holes on each blade for fixing it to the flanges (mm)	:
	Arrangement of blades on the	:

axle

1.11	Depth control mechanism	:
	Type	:
	Material	:
	Size of flat (mm)	:
	- Length	:
	- Width	:
	- Thickness	:
	No. of flat bar	:
	Provision for depth adjustment	:
1.12	Steering handle bar	:
	No. of steering handle bar	:
	Material	:
	Dia of pipe (mm)	:
	No. of hand grips	:
	Material of grip	:
	Length of grip (mm)	:
	Dia of grip (mm)	:
	Height of handle bar from ground level (mm)	:
	Provision for handle height and angle adjustment	:
1.13	Transport wheel	:
	Number(s)	:
	Type of wheel	:
	Dia. in fully inflated condition (mm)	:
	Location	:
	Method of fitting	:
	Track width adjustment (as described by two end -discs)	:
1.14	Controls	:
1.15	Marking/Labeling:	:
1.16	Overall Dimensions (mm)	:
	Length	:
	Width	:
	Height	:
	- Max.	:
	- Medium	:
	- Min.	:
1.17	Mass (kg)	:

1.18 Colour of machine
Engine and chassis :
Main drive cover :
Transmission system cover :
Fuel tank :

Place:

Date:

Signature:.....

Name:.....

Designation:.....