

No. Sebutharga: PPN.PP.12(N)/2017

TECHNICAL SPECIFICATION

DESCRIPTION: **SUPPLY AND TEST RUN OF POWER TILLER WITH OUTPUT OF 10 -20 HORSE POWER**
 [MEMBEKAL DAN MENGUJI TRAKTOR 2 RODA (POWER TILLER) BERKUASA 10-20 KUASA KUDA]

QUANTITY: **6 UNITS**

COMPLIANCE WITH SPECIFICATION :

The bidder must indicate whether the offer compliers in details with the specifications by indicating “YES” or “NO” against the respective items of the specifications as set out below. Where the answer is “NO”, comments or explanations must be given here or separately. Where technical information is required, please fill in the spaces provided.

1.	GENERAL REQUIREMENT		
	1.1	The power tillers shall be delivered to Jabatan Pertanian Negeri Pulau Pinang.	Yes / No
	1.2	The Department of Agriculture may request for a test unit for evaluation purposes. Should it be necessary to do so, the bidder must provide a test unit for the evaluation.	Yes / No
	1.3	Power tillers to be supplied with a warranty against manufacturing defects for a period of not less than twelve months starting from the date of delivery	Yes / No
	1.4	Intending bidder must submit manufacturer’s original technical catalogue for verification of technical specifications. Failure to do this will result in rejection of offer.	Yes / No
	1.6	A set of literature comprising Operating Instructions, Service and Repair Manual, Spare Part Catalogue and Accessory List to be supplied with each power tiller.	Yes / No
	1.7	All price quoted must be nett and in Ringgit Malaysia inclusive of delivery.	Yes / No
2.	GENERAL SPECIFICATIONS		
	2.1	The power tiller is a standard model in current production and a complete with all accessories and tools regularly as standard equipment whether or not specifically mentioned hereinafter.	Yes / No

	2.2	The power tiller can be attached with optional attachments and implements suitable for use in dryland and wetland cultivation.	Yes / No
	2.3	The power tiller is not more than 550 kg in weight with engine	Yes / No
	2.4	The power tiller has a built-in headlight for safe working after dark.	Yes / No
	2.5	All potentially dangerous moving parts are provided with adequate safety guards.	Yes / No
3.	ENGINE		
	3.1	Diesel	Yes / No
	3.2	4-stroke cycle	Yes / No
	3.3	Water cooled	Yes / No
	3.4	Maximum output to be not less than 10hp at rated engine speed of not more than 2400 rpm.	Yes / No
	3.5	Total displacement to be not less than 600 cc.	Yes / No
	3.6	Fuel tank capacity to be not less than 10 liters	Yes / No
	3.7	Starting system – mechanical and electrical	Yes / No
	3.8	Engine characteristic curve showing relationship between bhp torque and fuel consumption with engine speed and duty certified by engine manufacturer to be submitted with quotation.	Yes / No
	3.9	Extra heavy duty air-cleaner, oil bath type or wet type air cleaner protected crankcase breather , all suitable for use in an atmosphere laden with dust.	Yes / No
	3.10	Pressurised water cooling system with radiator , water pump, blower type radiator fan and thermostat, all specially designed for efficient operation in a very hot tropical climate.	Yes / No
	3.11	The exhaust silencer is of robust construction and is directed vertically upwards above the head of the operator.	Yes / No
	3.12	Must be direct injection combustion system.	Yes / No
	3.13	Full flow forced lubrication system with trochoid pump.	Yes / No
4.	MAIN FRAME		
	4.1	To be fabricated from high tensile steel and to be of welded construction.	Yes / No
	4.2	High tensile steel bolts and nuts to be used for all detachable fastening.	Yes / No

5.	TRANSMISSION / BRAKE		
	5.1	The transmission from engine to main shaft to be either V-belt or direct-drive	Yes / No
	5.2	The transmission from main shaft to wheel axle to be by gear or chain	Yes / No
	5.3	Transmission system to provide at least 4 tilling speeds (2 speeds by changing auxiliary sprockets).	Yes / No
	5.4	The transmission to have at least 6 forward and 2 reverse speeds.	Yes / No
	5.5	The gear changes to be controlled by hand lever/levers located near the handle bar for easy access and manipulation.	Yes / No
	5.6	A heavy duty parking brake for holding machine firmly and safety at stop or on inclines.	Yes / No
6.	ROTARY TILLER		
	6.1	The working width to be not less than 600 mm	Yes / No
	6.2	The maximum tilling depth to be not less than 120 mm	Yes / No
	6.3	The rotary tiller to have at least 2 rotor speeds.	Yes / No
	6.4	The tilling depth to be controlled by a single depth wheel.	Yes / No
	6.5	To be chain driven and the chain is to be suitably housed in a water tight chain case with provision for an oil bath and tensioning device.	Yes / No
	6.6	Telling mechanism to be supported by single, wide-faced steel or rubber-bended castor wheel that can be interchanged with tail skid and must have tilling depth regulator.	Yes / No
	6.7	The tilling mechanism to be supplied complete with detachable safety guards on both sides and a rubber flap at the rear.	Yes / No
6.8	The whole tilling mechanism to be fixed on to be main chassis frame of high tensile detachable steel mounting bolts.	Yes / No	
7.	TYRES		
	7.1	The tractor to be fitted with ribbed rubber tyres	Yes / No
	7.2	Tyre size to be at least 6.00 – 12	Yes / No
	7.3	All tyres to be of sufficient load carrying capacity to withstand the maximum working loads imposed upon them under all working conditions ,with the tyres pumped up to the tyre manufacturer's recommended standard pressure in a tropical climate .	Yes / No
7.4	All tyres used are readily available locally .	Yes / No	

8.	STANDARD FITTINGS AND ACCESSORIES		
	8.1	A head light	Yes / No
	8.2	Parking stand	Yes / No
	8.3	Wheel changing support stand	Yes / No
	8.4	Engine starting handle	Yes / No
	8.5	Adjustable seat for operator	Yes / No
	8.6	A set of standard tools in a suitable holder	Yes / No
9.	SPARE PARTS AND AFTER SALES SERVICE		
	9.1	The bidder must certify that adequate stocks of spare parts are or will be held by him in Malaysia for the tractor which he is offering.	Yes / No
	9.2	The bidder must certify that he has a complete service organization manned by a qualified factory trained service engineer and staff of qualified service man in Malaysia for providing after sales maintenance and repair service for tractor which he is offering.	Yes / No
	9.3	When the machines are delivered to the site, the bidder shall provide adequate training to operators in the operation and maintenance of plant.	Yes / No
10.	LITERATURE		
	10.1	All literature supplied to be in English or Bahasa Malaysia.	Yes / No
	10.2	Operator's manual or operating instructions	Yes / No
	10.3	Service manual for machine and engine	Yes / No
	10.4	Parts catalogue for machine	Yes / No
11.	LIST OF TOOLS TO BE SUPPLIED		
	11.1		
	11.2		
	11.3		
	11.4		
	11.5		
	11.6		

12.	LIST OF ACCESSORIES TO BE SUPPLIED		
	12.1	2 units of cage wheel	Yes / No
	12.2	1 unit of tapak itik	Yes / No
	12.3		
	12.4		
	12.5		
	12.6		
13.	TECHNICAL DATA		
	13.1	The bidder must complete in full the Schedule of Technical Data as set out in LAMPIRAN 1A attached. Failure in not completing LAMPIRAN 1A will result in this quotation not being considered.	Yes / No
14.	DELIVERY TIME		
	14.1	State delivery time of power tiller offered (weeks) starting from date of acceptance to` date pf delivery.	

Date : Signature / stamp of intending supplier :

I/C No. Full Name :

No. Sebutarga: PPN.PP.12(N)/2017

SCHEDULE OF TECHNICAL DATA

POWER TILLER WITH OUTPUT OF 10 -20 HORSE POWER

(Questionnaire to be filled by bidder)

<u>NO.</u>	<u>QUESTION</u>		<u>ANSWER</u>
1.	POWER TILLER		
	1.1	Name of Supplier	
	1.2	Name of Manufacturer	
	1.3	Name and or Model No.	
	1.4	Country of Origin	
2.	ENGINE		
	2.1	Make	
	2.2	Model No.	
	2.3	Type	
	2.4	Maximum output (hp/rpm)	
	2.5	Total displacement (cc)	
	2.6	Fuel tank capacity (liters)	
	2.7	Starting system (mechanical / electrical)	
3.	TRANSMISSION / BRAKE		
	3.1	Type of transmission from engine to main drive shaft.	
	3.2	Type of transmission from main shaft to wheel axle.	
	3.3	Number of forward speed	
	3.4	Number of reverse speed	
	3.5	Type of main clutch system	
	3.6	Type of brake system	

4.	ROTARY TILLER	
	4.1	Rotary plate type (C-shape or others)
	4.2	Rotary tilling width (cm)
	4.3	Rotary tilling depth (cm)
	4.4	Number of rotary speeds
5.	TYRES	
	5.1	Size
	5.2	Type of tyres
6.	WEIGHT	
	6.1	Operating weight of machine (kg)
7.	DIMENSION OF POWER TILLER	
	7.1	Length (cm)
	7.2	Width (cm)
	7.3	Height (cm)

Date : Signature / stamp of intending supplier :

I/C No. Full Name :