

## Appendix I – TECHNICAL SPECIFICATIONS

Item	Specifications Required	Specifications offered (must be completed)
12 Volt electric ULV pesticide transfer pump (for ground operations)	<ul style="list-style-type: none"> <li>• 12 Volt DC electric motor;</li> <li>• Stainless steel flexible vane pump;</li> <li>• Resistant to pesticide in ULV formulation;</li> <li>• Max flow 60 l/min;</li> <li>• Self-priming;</li> <li>• Hoses 3 and 4 meters length with Kamlok quick coupling – viton seals;</li> <li>• Hose material ULV resistant polyethylene lined;</li> <li>• Nozzle valve for easy discharge;</li> <li>• Carrying frame;</li> <li>• 3 meters battery lead;</li> <li>• <b>Spare parts:</b> A list of manufacturer's recommended spare parts, sufficient for 2000 hours (2years) of operation must be submitted for each pump. The list must be individually itemised, costed and submitted with your bid.</li> </ul> <p><b>Warranty:</b> A full warranty statement must be submitted with the bid detailing the terms and conditions that are being offered. A minimum warranty period of 24 months is required.</p>	
Manual pump (for ground operation)	<ul style="list-style-type: none"> <li>• Resistant to pesticide in ULV formulation.</li> <li>• Pump equipped for suction with:               <ul style="list-style-type: none"> <li>-Steel probe length 1m. dummy bang 2";</li> <li>-Steel elbow and sprout. 2m tube Ø 25 in UPE;</li> <li>-Cast iron body, interior brass, sealant on the axis (shaft) thanks to</li> </ul> </li> </ul>	

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	<p>braided Teflon and tow Teflon seals -start 2M3/h and port 3/4 "</p> <ul style="list-style-type: none"> <li>• <b>Spare parts:</b> A list of manufacturer's recommended spare parts, sufficient for 2000 hours (2years) of operation must be submitted for each pump. The list must be individually itemised, costed and submitted with your bid.</li> </ul> <p><b>Warranty:</b> A full warranty statement must be submitted with the bid detailing the terms and conditions that are being offered. A minimum warranty period of 24 months is required.</p>	
<p>3-inch self-priming Centrifugal Irrigation water Pumps with accessories</p>	<p><b>Performance data</b></p> <ul style="list-style-type: none"> <li>• Used to Irrigation purpose</li> <li>• Suction head 8 meter</li> <li>• Maximum head 25-27 meter</li> <li>• Discharge More than 1000 Liter /minute</li> <li>• Self priming time (s/4m) 120</li> <li>• Irrigable area 5-7 hectares</li> </ul> <p><b>Engine</b></p> <ul style="list-style-type: none"> <li>• Type Single cylinder 4-stroke</li> <li>• Specific fuel consumption Less than 280.3/ 206 Kg/kw/hour</li> <li>• Compress ratio 20:01</li> <li>• Con. power 5.5HP/4KW</li> <li>• Cooling system Forced air-cooled</li> <li>• Engine speed 3000 rpm</li> <li>• Displacement 296 cc</li> <li>• Bore 78mm</li> <li>• Stroke 62mm</li> <li>• Starting system Recoil starter</li> <li>• Governor system Centrifugal wt. system</li> <li>• Continues working hour 16 hrs</li> <li>• Filter Medium- dry type</li> </ul>	

Item	Specifications Required	Specifications offered (must be completed)
	<ul style="list-style-type: none"> <li>• Fuel Diesel</li> <li>• Fuel tank capacity 5 Litre</li> <li>• Lubrication oil capacity 1.1Litre</li> <li>• Net Weight 32 Kg</li> </ul> <p><b>Pump</b></p> <ul style="list-style-type: none"> <li>• Type Centrifugal pump</li> <li>• Outlet diameter 80mm (3")</li> <li>• Inlet diameter 80mm (3")</li> <li>• Total head 25-27 meter</li> <li>• Pump body made of Cast iron (Al-alloy)</li> <li>• Dry weight Less than 50 kg</li> <li>• Pump body made of cast iron (Al alloy)</li> </ul> <p><b>Main Technical Parameter and Specification Type Technical specification</b></p> <ul style="list-style-type: none"> <li>• Impeller Special cast iron</li> <li>• Gear Direct connection with engine</li> <li>• Mechanical seal Carbon-ceramic</li> <li>• Efficiency Not less than 60% at the working point</li> <li>• Capacity Not less than 60 m3/hour</li> </ul> <p><b>Frame</b></p> <ul style="list-style-type: none"> <li>• Type Mono block 2 support</li> <li>• Material Steel</li> </ul> <p><b>Stander accessories</b></p> <ul style="list-style-type: none"> <li>• Stainless steel strainer With diameter of 3"</li> <li>• Inlet and outlet pipe connector Galvanized steel with thread connection</li> <li>• Rubber seal washer for 3"</li> <li>• Hose clamp for 3"</li> <li>• Gasket</li> </ul> <p><b>Tool box</b></p> <ul style="list-style-type: none"> <li>• One set standard basic tools</li> </ul>	

Item	Specifications Required	Specifications offered (must be completed)
	<ul style="list-style-type: none"> <li>• Medium size flat screw driver tool</li> <li>• Standard wrenches Original from the manufacturer</li> </ul> <b>Operational manual</b> <b>Brochure</b> <b>Spare parts catalogue</b>	
Delivery Hose	<ul style="list-style-type: none"> <li>• Type Plastic hose type a lay-flat hose (UPVC/HDPE)</li> <li>• Internal diameter 80mm (3")</li> <li>• Wall thickness 1.5 mm</li> <li>• Length 50 meter</li> <li>• Working pressure 0.3Mpa</li> <li>• Burst pressure 0.9 Mpa</li> </ul>	
Suction Hose	<ul style="list-style-type: none"> <li>• Type Rigid and soft reinforced wall pvc with strainer and a foot valve</li> <li>• Internal diameter 80mm (3")</li> <li>• Wall thickness 4 mm</li> <li>• Length 10 meter</li> <li>• Working pressure 0.6Mpa</li> <li>• Burst pressure 1.2 Mpa</li> </ul>	

**FAILURE TO COMPLY WITH REQUIREMENTS 1 to 3 STATED BELOW WILL RESULT IN YOUR BID BEING REJECTED**

- You **must complete all the empty spaces** in the technical specification sheet to confirm your specifications being offered.
- Your bid **must include a manufacturer's brochure** or leaflet describing the equipment being offered to enable your specifications to be verified.
- All brochures and leaflets submitted **must** be written in the English language or a translation into the English language.