



**Farm Machinery Testing and Training Centre**  
Department of Farm Power and Machinery  
College of Agricultural Engineering and Technology  
**Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH**  
AKOLA- 444 104 (MS)  
*Email: fmtt28@gmail.com*



**SPECIFICATION SHEET OF ENGINE OPERATED KNAPSACK SPRAYER**

<b>1</b>	<b>General</b>		
	Name and address of manufacturer	:	
	Name and address of applicant	:	
	Name of machine	:	
	Type	:	
	Make	:	
	Model	:	
	Batch No/Code No.	:	
	Capacity of Sprayer, l	:	
	Serial No	:	
	Recommended working pressure, kg/cm <sup>2</sup>	:	
	Recommended engine speed, rpm	:	
	Output capacity, l/min	:	
	Year of Manufacture	:	
Mass, kg.	:		
<b>2</b>	<b>Prime mover</b>	:	
	Prime mover used	:	
	Make	:	
	Model	:	
	Engine. No	:	
	CM/I No.	:	

	Country of origin	:	
	Power, kW	:	
	Rated speed, rpm	:	
<b>3</b>	<b>Cylinder</b>		
	Number	:	
	Displacement	:	
	Compression ratio	:	
	Cylinder lining	:	
	Cubic capacity, cm <sup>3</sup>	:	
	Bore/stroke, mm	:	
<b>4</b>	<b>Fuel and lubrication system</b>		
	Type of fuel used	:	
	Fuel feed	:	
	Capacity of fuel tank, l	:	
<b>5</b>	<b>Air cleaner</b>		
	Type	:	
	Height of air cleaner above ground level, mm	:	
	Location	:	
<b>6</b>	<b>Ignition system</b>		
	Type	:	
	Spark plug	:	
	Electrode gap, mm	:	
<b>7</b>	<b>Cooling system</b>		
	Type	:	
<b>8</b>	<b>Starting system</b>		:
<b>9</b>	<b>Exhaust pipe</b>		:
	Shape	:	
	Height above ground level, mm	:	
	Location	:	

<b>10</b>	<b>Tank</b>		
	Shape	:	
	Size, mm (L x B x H)	:	
	Capacity, l	:	
	Method of mounting	:	
<b>11</b>	<b>Frame</b>		
	Type	:	
	Size, mm (L x B x H)	:	
<b>12</b>	<b>Agitation Device</b>		
	Type	:	
	Method of working	:	
<b>13</b>	<b>Spray nozzle</b>		
	Type	:	
	Number nozzle	:	
	Recommended operating pressure, kg/cm <sup>2</sup>	:	
	Recommended discharge, ml/min (cone and jet spray)	:	
	Recommended cone angle at 3 kg/cm <sup>2</sup> pressure, degree		
<b>14</b>	<b>Spray gun</b>		
	Make	:	
	Type	:	
	Designation	:	
	Recommended operating pressure, kg/cm <sup>2</sup>	:	
	Recommended discharge, ml/min (cone and jet spray)	:	
	Recommended cone angle at 3 kg/cm <sup>2</sup> pressure, degree		
<b>15</b>	<b>Pump</b>		
	Make	:	
	Type	:	
	Pump body material	:	
	No. of piston	:	
	Recommend engine speed for	:	

	spraying, rpm		
	Piston diameter/ stroke, mm	:	
	Suction Volume, l/min	:	
	Rated pressure for spraying, kg/cm <sup>2</sup>	:	
	Nos. of teeth of gear on engine shaft	:	
	Nos. of teeth of gear on pump shaft	:	
	Gear reduction ratio engine to pump	:	
<b>16</b>	<b>Accessories (operator safety against pesticides)</b>	:	
<b>17</b>	<b>Overall dimensions (Without hose and lever), mm</b>		
	Height	:	
	Length	:	
	Width	:	
	Colour	:	
<b>18</b>	Mass with all accessories and without fuel and chemicals, kg	:	
<b>19</b>	Mass with all accessories, fuel and chemicals tank, kg	:	
<b>20</b>	<b>Application/Area of Use</b>	:	
<b>21</b>	<b>Marketing/Labelling</b>	:	
	Sr. no.	Parameters	:
	1	Type	:
	2	Make & Model	:
	3	Sr No	:
	4	Engine (make & model)	:
	5	Discharge, l/min	:
	6	Year of manufacture	:

Place:

Date:

Signature:\_\_\_\_\_

Name:\_\_\_\_\_

Designation:\_\_\_\_\_

