



**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: fmntt28@gmail.com*



**SPECIFICATION SHEET OF SOLAR 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>	:	
	Output capacity, l/min	:	
	Year of Manufacture	:	
	Mass, kg.	:	
<b>2</b>	<b>Recommended source of power</b>	:	
	Performance parameters declared by applicants	:	
<b>2.1</b>	<b>Solar panel</b>		
	Make	:	
	Tested model	:	
	Model covered	:	
	Module	:	
	Type	:	

	Rated maximum power	:	
	Rated voltage, V	:	
	Rated current, Ah	:	
	Open circuit voltage, V	:	
	Short circuit current, Ah	:	
<b>2.2</b>	<b>Battery</b>		
	Make	:	
	Type	:	
	Rating	:	
	Voltage	:	
	Capacity at C20 discharge rate	:	
	Dimension, mm	:	
	Wight, kg	:	
	Charging Efficiency, %	:	
	The battery shall reach at least 100% rated capacity (12Ah) within 5 cycles when discharge cycle is repeated	:	
	The battery shall be fully charged and stored on open circuit for 120 days. After the storage the capacity shall be not less than 75% of actual capacity C <sub>a</sub> (9.285Ah)	:	
	After deep discharge and recharging, the capacity of the battery shall be not less than 75% of C <sub>20</sub> (9.00Ah)	:	
	Charging efficiency	:	
	Charger	:	
	Charging system	:	

	Volt indicator	:	
	Current regulator	:	
	Switch, On/Off	:	
<b>3</b>	<b>Optional charger</b>		
	Output voltage, V	:	
	Output Current, Ah	:	
<b>4</b>	<b>Pump</b>		
	Type	:	
	Make	:	
	Model	:	
	Discharge, lit/min	:	
	Maximum Pressure,	:	
	Wight, kg	:	
	Motor	:	
	Duty Cycle	:	
	Ampere	:	
<b>4</b>	Optional source of power	:	
<b>4.1</b>	Performance parameters declared by applicants	:	
<b>7</b>	<b>Tank</b>		
	Capacity, lit		
	Material		
<b>8</b>	<b>Nozzle</b>		
	Make		
	Type		
	Designation		
	Number of nozzle		
	Number of holes		
	Size of nozzle, mm		
	Recommended operating pressure,		

	Kg/cm <sup>2</sup>		
	Discharge, lit/min		
<b>9</b>	<b>Overall dimensions (Without hose and leaver), mm</b>		
	Height	:	
	Length	:	
	Width	:	
	Colour	:	
<b>10</b>	<b>Accessories</b>		
	For operator's safety against pesticides	:	
	Tool kit	:	
<b>11</b>	Mass with all accessories and without fuel and chemicals, kg	:	
<b>12</b>	Mass with all accessories, fuel and chemicals tank, kg	:	
<b>13</b>	Application/Area of Use	:	
<b>14</b>	Marketing/Labelling	:	
	Sr. no.	Parameters	:
	1	Make	:
	2	Model	:
	3	Sr No	:
	4	Battery rating	:
	5	Discharge, l/min	:
	6	Year of manufacture	:
	7	Name and address of manufacturer	:

Place:

Date:

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

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

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