



Farm Machinery Testing and Training Centre
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SPECIFICATION SHEET OF BBE PLANTER CUM INTER ROW CULTIVATOR

1	General		
	Name and address of manufacturer	:	
	Name and address of applicant	:	
	Type	:	
	Make	:	
	Serial	:	
	Model	:	
	Year of manufacture	:	
	Different seeds which the Planter is designed to plant.	:	
	Recommended power source	:	
	Power source used, kW	:	
	Recommended travelling speed of the BBE Planter cum Inter Row Cultivator	:	
	Recommended power of tractor (if tractor operated)	:	
2	Furrow opener		
	Type	:	
	Type and tilt angle with respect to vertical	:	

No. of openers	:	
Arrangement of opener	:	

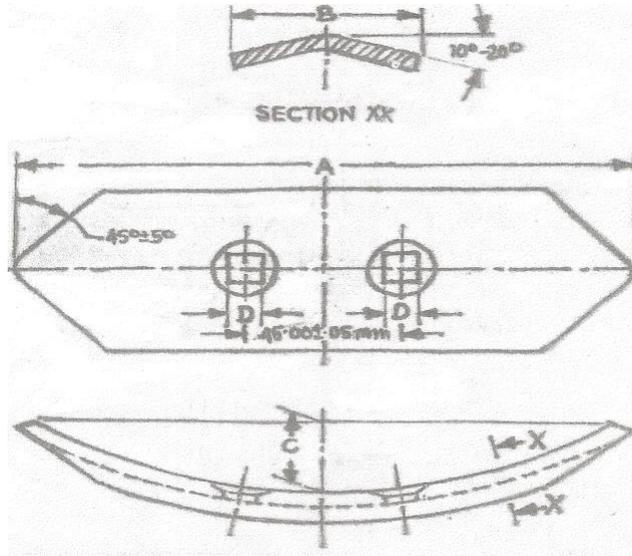


Fig.1 Furrow opener

3 Specification of furrow opener as per IS 6813: 2000 (Reaffirmed 2004) (Ref. Fig. 1)

Sr. No.	Notation	Dimension, mm		Conformity to Indian standard
		As per IS : 6813	As observed	
1.	A	180±2		
2.	B	45±2		
3.	C	30±1		
4.	D	11.5±0.5		
5.	E	45±0.5		
6.	α	45±5		
7.	β	10 to 20		

3.1	Wing span adjustment braces	
No of braces	:	

	Size of brace	:	
	Wing span adjustment	:	
	No of holes, hole to hole distance	:	
	Method of fixing	:	
4	Metering mechanism		
	1) Seed metering device:		
	a) Type	:	
	b) Size of feed shaft, mm	:	
	c) No of holes	:	
	d) Source of power	:	
	e) Transmission ratio of shaft of seed metering device to land wheel	:	
	f) Type of agitator	:	
	h) Method of feed rate control for different size of seeds	:	
	g) Provision for closing seed discharge.	:	
	h) Fertilizer distributor	:	
5	Hopper		
	a) Capacity, Kg		
	1) Seed box	:	
	2) Fertilizer box	:	
	b) Type of seed hoppers	:	

	c) Type of fertilizer hoppers	:		
6	Marker details	:		
7	Seed covering Arrangement	:		
8	Implement hitch point as per IS			
	Type	:		
	Construction details	:		
Specification of Hitch Pyramid As per IS:17231:2019: - (Refer Fig. 2)				
Three point linkage dimensions, mm				
Sr. No.	Notations	As per IS: 17231:2019 (1N, 1, /2N, 2), mm	As measured, mm	Remarks
I	Upper hitch point			
D ₁	Diameter of hitch pin	19 (0-0.08)/ 25.5 (0-0.13)		
b ₁	Width between inner faces of yoke	52 (Min.)		
II	Lower hitch points			
D ₂	Diameter of hitch pin	22 (0-0.2)/ 28 (0-0.2)		
b ₃	Linch pin hole distance	49 (Min.)		
b ₅	Clevis width	65+20		
l	Lower hitch point span	400±1.5, 683±1.5, 683±1.5, 825±1.5		
III	Other dimensions			
d	Diameter for linch pin hole			
	Upper hitch pin	12 (min.)		
	Lower hitch pin	12 (min.)		
h	Mast height	360±1.5 460±1.5 610±1.5 610±1.5		

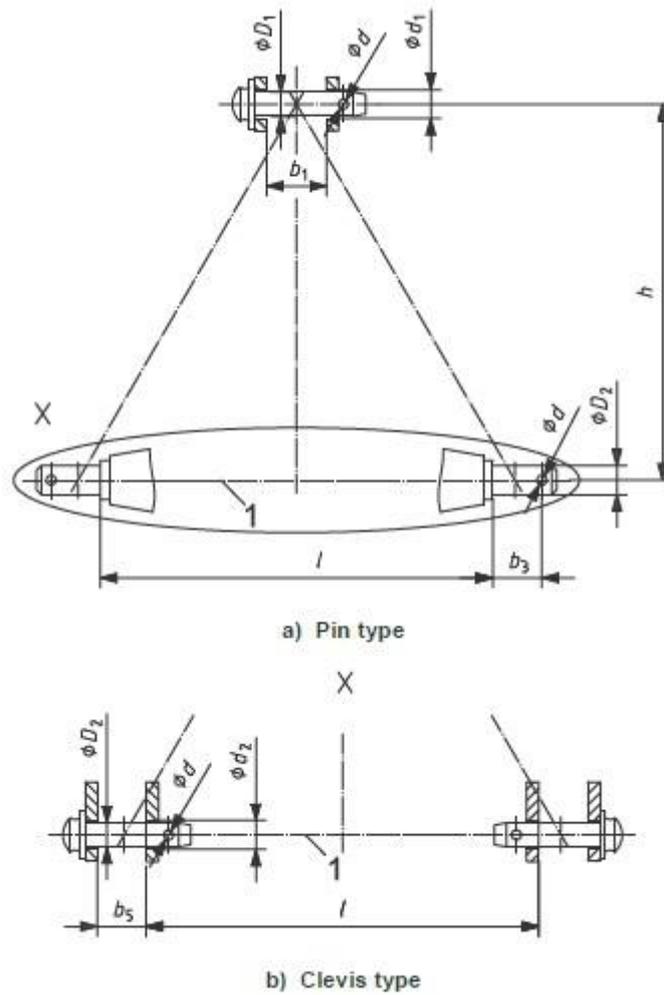


Fig 2 Dimensions related to implement hitch attachment

9	GROUND DRIVE DETAILS		
	a) No. of wheels	:	
	b) Type of wheel	:	
	c) Size (mm)	:	
	d) No. of lugs	:	
	e) Method of transmitting power to feed shafts	:	
10	DETAILS OF ADJUSTMENTS		
	Sr. No.	Adjustments	Method
	1	Feed rate	
	2	Spacing of furrow openers	
	3	Depth of sowing	
	4	Reduction ratio of drive mechanism	
11	DETAILS OF SAFETY		

	ARRANGEMENT FOR ROTATING PARTS FORROTATING PARTS		
12	NUMBEROF GREASING POINTS	:	
13	INTER ROW CUTIVATOR ATTACHMENT		
13.1	Tyne		
	No of tynes	:	
	Type	:	
	Material	:	
	Full sweep fixed tyne	:	
	Dimensions (Lx W x T), mm	:	
	Half sweep fixed tine	:	
	Dimensions (Lx W x T), mm	:	
	Arrangement on main frame	:	
13.2	Sweep		
	Full Sweep	:	
	No of full sweep	:	
	Type	:	
	Material	:	
	Thickness	:	
	Half Sweep	:	
	No of half sweep	:	
	Type	:	
	Material	:	
	Thickness	:	
	Method of fixing	:	
14	OVERALL DIMENSIONS, mm (L x B x H)	:	
	Weight of seed cum fertilizer drill	:	
	Weight with seeds and Fertilizers, kg	:	
15	DETAILS OF MATERIAL OF CONSTRUCTION		
	Sr. No.	Name of part	Material
	1	Feed shafts	
	2	Seed and fertilizer box	
	3	Tyne	
	4	Seed tube	
	5	fertilizer tube	
	6	Covering device	

Place:

Date:

Signature : _____

Name : _____

Designation: _____