

FORMAT OF APPLICATION FOR TESTING OF AGRICULTURE MACHINES

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**GOVERNMENT OF INDIA
NORTHERN REGION FARM
MACHINERY
TRAINING & TESTING
INSTITUTE,
HISAR-125001 (Haryana)-INDIA**

APPLICATION FOR CONFIDENTIAL/COMMERCIAL TESTING OF MACHINES
INCLUDING AGRICULTURAL MACHINERY AND IMPLEMENTS:

(To be submitted in triplicate duly filled in typed.)

1. Name and address of the applicant :

Pin Code: :
Address (Telegraphic) :
Telephone Number :
Telex number :

2. Name and address of the manufacturer. :

Pin Code: :
Address (Telegraphic) :
Telephone Number :
Telex number :

3. If the applicant not the manufacturer, :
capacity in which the testing has been :
requested to (as authorized importer/ :
distributor/designer/respective :
manufacturer) :

4. Details of the machine to be submitted :
for test :

Type :
Make :
Model :

5. Type of work the machine or :
component has been designed for & :
special features of the machine, if any. :

6. Whether the machine submitted for :
testing is a prototype or commercial :
model :

Indigenous
Prototype
Imported
Prototype

	Commercial Model	<input type="text"/>	
7.	Nature of test (Commercial or confidential) :	<input type="text"/>	<input type="text"/>
8.	If confidential specify details of test submitted for :		
9.	Total number of machines (as in 4 above produced/imported since inception to till date. :		
10.	Whether all the parts are produced indigenously. If no attach list of imported parts :	Yes	No
		<input type="text"/>	<input type="text"/>
11.	Period suitable for random selection of the machine (in case of machines already in commercial production & sale :		
12.	a)Type of accessories and attachments that are sold along with the machine. :	Yes	No
	b) Check for accessories and attachments proposed to be sent with the machines for best :	<input type="text"/>	<input type="text"/>
	i) :		
	ii) :		
13.	Check for enclosures:		
	a)Specification of machine in duplicate :	Yes	No
		<input type="text"/>	<input type="text"/>
	b) Operator's manual (in duplicate) :	Yes	No
		<input type="text"/>	<input type="text"/>
	c)Service manual (in duplicate) :	Yes	No
		<input type="text"/>	<input type="text"/>
	d) Any other printed literature (to be supplied in duplicate) :	Yes	No
		<input type="text"/>	<input type="text"/>
	e)Printed literatures in respect of various items listed in 12(b) (in duplicate) :	Yes	No
		<input type="text"/>	<input type="text"/>
14.	No. of additional copies of the test report required. :		
15.	Whether testing expenditure advance is remitted. If yes specify the details of remittance :	Yes	No
		<input type="text"/>	<input type="text"/>
	Amount: (Rs. _____ Bank Draft No _____ Date _____)		

16. Do you propose to depute : Yes No
representative to witness the test
17. Additional information if any: Yes No
- i) Details of letter or indent/
Registration/COB Licence No. and :
capacity sanctioned by the Ministry of
Industry
- ii) Whether machine has been tested : Yes No
earlier in India/Foreign country (if so
attach a copy of the test report)
- iii) In case of Power Thresher details of :
safety chute may be indicated on the
lines of relevant Indian Standard.

DECLARATION

I have read the Regulations for the Testing of Agricultural Machinery at Northern Region Farm Machinery Training & Testing Institute, Sirsa Road, Hissar and hereby agree to abide by all terms and conditions of the test:

Signature _____
Name of the signatory _____
Designation _____
Address _____

Place:

Date:

FORMAT OF TECHNICAL SPECIFICATION OF MAJOR MACHINES

SPECIFICATION OF PRIME MOVER

1. GENERAL:

- 1.1 Name & address of the manufacturer :
(If more than one give details of manufacturers of all important assemblies.
- 1.2 Country of origin :
- 1.3 If imported, C.I.F. value :
- 1.4 Selling price in country of origin :
- 1.5 Selling price in India :
- 1.6 Submitted for test by :
- 1.7 Selected by :
- 1.8 Method of selection :
- 1.9 List of indigenous components (in case of Indigenous product) :
- 1.10 Place of running in of the engine :
- 1.11 Duration of running-in :

2. Make

- 2.1 Model :
- 2.2 Type :
- 2.3 Serial No. :

3. Power

- 3.1 Rated brake horsepower at fly wheel _____ at rpm _____
Atmospheric pressure _____ Altitude _____
- 3.2 No load speed of the engine for full rated power (rpm) :
- 3.3 No load idling speed of engine (rpm) :
- 3.4 Rated speed for continuous work (rpm) :
- 3.5 Engine speed at maximum torque (rpm) :
- 3.6 Engine speed at maximum power (rpm) :
- 3.7 Rated engine speed for field work (rpm) :

4. CYLINDERS:

- 4.1 Number :
- 4.2 Disposition :
- 4.3 Bore/Stroke (mm) :
- 4.4 Capacity (cu.cm) :
- 4.5 Compression ratio :
- 4.6 Arrangement of valves :
- 4.7 Type of cylinder liners :

FOR DIESEL ENGINES:

- 5.0 Fuel and ignition system :
- 5.1 Type of fuel feed, relief valve pressure :
- 5.2 Type, make and model of fuel filters :
- 5.3 No. of fuel filters :
- 5.4 Capacity of fuel tank :
- 5.5 Type, make and model of injection pump :
- 5.5.1 Serial no. of fuel injection pump :

5.5.2 Diesel fuel injection pump setting:					
Adjustment operations	Fuel injection pump shaft speed (rpm)	Discharge			Control rod travel in (mm)
		Qty. CC/100 strokes or gm/100 strokes	Metering tolerable difference in strokes. cc	g	
At rated speed					
At idling speed					
At full cut-off					

- 5.5.2.1 Pump shaft speed at the beginning of governor acting. :
- 5.5.2.2 Extra information if any :
- 5.5.3 Type, make and model of injectors. :
- 5.5.4 Injection pressure :
- 5.5.5 Manufacturer's production setting. :
- 5.5.6 Firing order :
- 5.5.7 Injection timing. :

FOR GASOLINE ENGINES ONLY

- 5.6 Type, make and model of magnet/coil and distributor. :
- 5.7. Type, make and model of carburetor :
- 5.7.1 Size of fuel jets :
- 5.7.2 Ignition timing :
- 5.7.3 Sparking plugs (Make and model) type of $\frac{1}{8}$ gap setting :
- 6. GOVERNORS**
- 6.1 Make :
- 6.2 Type :
- 6.3 Engine speed (rpm) :
- 6.4 Rated speed (rpm) :
- 7. PRE-CLEANER:**
- 7.1 Make :

7.2	Type	:
7.3	Location	:
8.	AIR-CLEANER:	
8.1	Make	:
8.2	Type	:
8.3	Oil capacity in case of oil bath type	:
8.4	Suction pressure at inlet manifold	:
8.5	Location	:
9.	LUBRICATION SYSTEM:	
9.1	Type	:
9.2	Type, make and number of oil filters	:
9.3	Oil changing period	:
9.4	Type of lubricating pump	:
9.5	Capacity of lub. Oil pump	:
9.6	Relief valve setting	:
10.	COOLING SYSTEM:	
10.1	Type	:
10.2	Details of pump and fans	:
10.3	Coolant pump/blower size and capacity.	:
10.4	Cooling capacity	:
10.5	Means of temperature control	:
10.6	Type of radiator cap	:
10.7	Operating coolant temp.	:
11.	STARTING SYSTEM:	
11.1	Make	:
11.2	Type	:
11.3	Aids for cold starting	:
11.4	Any other device provided for helping starting	:
12.	ELECTRICAL SYSTEM:	
12.1	Generator:	
	-Make	:
	-Model	:
	-Serial No.	:
	-Type	:
	-Voltage	:
12.2	Battery:	
	-Make	:
	-Type	:
	-Capacity and rating	:
	-No. of batteries	:
	-Voltage	:
12.3	Starter:	
	-Make	:

- Model :
 - Type :
 - Serial No. :
 - Capacity and rating :
- 12.4 Voltage Regulator:
- Make :
 - Type :
 - Capacity :
- 13. EXHAUST:**
- Type of muffler :
 - Protecting device if any :
- 14 SPECIAL FEATURES IF ANY :**
- 15. OVERALL DIMENSIONS (giving sketch)**
- Length :
 - Breadth :
 - Height :
- 16 Operation mass of Prime Mover (kg) :**

Signature _____
 Name of the signatory _____
 Designation _____
 Address _____

Place: _____
 Date:- _____

FORMAT OF TECHNICAL SPECIFICATION FOR COMBINE HARVESTER

Gram: Trackcentre, Hissar

Phone: 76984,76824,76172

Fax: 01662-76984

**GOVERNMENT OF INDIA
NORTHERN REGION FARM MACHINERY
TRAINING AND TESTING INSTITUTE,
HISAR 125001 (Haryana)**

SPECIFICATION FOR COMBINE HARVESTER

1.	Name & address of the manufacturer.	:	
2.	Country of origin	:	
3.	Retail selling price in country of origin.	:	
4.	If imported, C.I.F. value	:	
5.	Make	:	
6.	Model	:	
7.	Serial Number	:	
8.	Type of primemover	:	
	- Engine	:	Engine/its system details to be given separately.
	- Tractor PTO drive	:	
9.	Type of combine	:	Self propelled/ Tractor Mounted/ Towing type
10	Wheels	:	
10.1	Front wheels	:	
10.1.1	No. of wheels	:	
10.1.2	Track width (centre to centre)	:	
10.1.3	Tyre size	:	
10.1.4	Recommended tyre pressure	;	
10.1.5	Lug pattern	:	
10.2	Rear wheels	:	
10.2.1	No. of wheels	:	
10.2.2.	Track width (centre to centre)	:	
10.2.3	Tyre size	:	
10.2.4	Recommended tyre pressure (kg/sq cm)	:	
10.2.5	Lug pattern	:	
10.3	Wheel base	:	
10.4	Brakes type	:	
10.5	Minimum turning circle (m)	:	
10.6	Minimum turning space(m)	:	
11.0	Reel assembly	:	
11.1	Type	:	
11.2	Number of tine bar	:	
11.2.1	Type of tine bar	:	

11.3	Diameter	:	
11.4	Range of speeds	:	
11.4.1	Arrangement of speed changing	:	
11.5	Maximum distance ahead of cutter bar points	:	
11.6	Maximum distance behind the cutter bar points	:	
11.7	Maximum vertical distance below cutter bar	:	
11.8	Maximum vertical distance above cutter bar	:	
	(*Measured in maximum forward position cutting table)		
11.9	Distance from cutter bar to front feed auger drum.	:	
11.10	Arrangement for raising and lowering the reel assembly	:	
11.11	Arrangement for forward and backward movement of the reel assembly.	:	
11.12	Arrangement for variation of angle of tine bar.	:	
11.13	Type of reel drive	:	
12.	Cutter bar assembly.		
12.1	Effective cutting bar width (1)	:	
12.2	Working width (L)	:	
12.3	Knife finger spacing (R)	:	
12.4	Knife stroke (amplitude)	:	
12.5	Stroke per minute	:	
12.6	Arrangement and range of adjusting cutting heights.	:	
12.7	Type of leadger plates	:	
12.8	Type of knife blade	:	
12.9	Details of knife drive	:	
12.10	Type of dividers	:	
12.11	Arrangement for lifting lodged crop	:	
12.12	Knife drive safety arrangement	:	
12.13	Type of crop conveyance	:	AUGAR TYPE/ CANVAS CONVEYOR
12.13.1	Details of auger	:	
	Speed	:	
	Method of changing speed	:	
	Details of centre fingers	:	
	i) Number	:	
	ii) Range of in and out throw	:	

	iii) Arrangement for its adjustment	:	
12.13.2	Details of canvas conveyor	:	
	Width	:	
	Type	:	
	Speed	:	
	Method of tensioning	:	
	Type of batters & their disposition.	:	
12.14	Arrangement for tilting of cutter bar platform	:	
12.15	Type of under-shot conveyor	:	CANVAS TYPE/ CHAIN & COMB TYPE
12.15.1	Details of canvas conveyor	:	
	Width	:	
	Type	:	
	Speed	:	
	Method of tensioning	:	
	Type of batters and their disposition.	:	

12.15.2	Chain & Comb Type	:	
	Type & No. of chain	:	
	Type and size of combs	:	
	Speed	:	
	Arrangement for tensioning	:	
	Adjustment between comb & platform	:	
12.16	Height of cutter bar assembly in transport position.	:	
12.17	Arrangement of locking cutter bar assembly in transport position.	:	
12.18	Type of suspension of the cutter bar assembly.	:	
13.	Drum Assembly	:	
13.1	Drum	:	
	Type	:	
	Width	:	
	Diameter (Including bars)(d)	:	
	Speed range	:	
	Number of bars/spikes	:	
	Arrangement of bars/spikes	:	
	Method of speed variation	:	
	Peripheral speed	:	

	Safety device	:	
13.2	Concave	:	
	Type	:	
	Range of clearance	:	Front (E) Rear (E1)
	Number of bars/spikes	:	
	Area of concave	:	
	Area of extension provided	:	
	Arrangement of clearance adjustment	:	
14.	Separating mechanism	:	
14.1	Straw shakers	:	
	No. of walkers (or rack)	:	
	Type of walkers	:	
	Straw shaker area	:	
	Oscillations per minute	:	
	Lift and throw	:	
	Type of extensions	:	
14.2	Cleaning Sieve:		
14.2.1	Top sieve	:	
	Arrangement for opening variation	:	
	Area	:	
	Size	:	
	Type	:	
	Additional area of extension	:	
	Oscillations per minute	:	
	Length of stroke	:	
14.2.2	Bottom sieve	:	
	Arrangement for opening variation	:	
	Area	:	
	Size	:	
	Type	:	
	Additional area of extension	:	
	Oscillations per minute	:	
	Length of stroke	:	
14.3	Blower	:	
	Diameter	:	
	Width	:	
	No. of Blades	:	

- Method of air adjustments :
- Speed and type of drive :

- 15. Grain conveyor mechanism :
- Type of conveyor (screw or bucket) :
- Dia, & speed :
- Location :
- Size of bucket :
- Length of bucket conveyor :
- 16. Grain tank :
- Location :
- Horizontal reach of emptying auger :
- Clearance beneath grain Delivery spout :
- Capacity of tank :
- Method of unloading :
- 17. Total weight (with accessories) :
- 18. Servicing schedule (enclose service manual) :
- 19. Recommended list of oils used :
- 20. Recommended No load speed of engine for field operation. (rpm)
- Paddy :
- Wheat :
- 21. Recommended travel speed for field operation
- Paddy :
- Wheat :

Signature-----
 (Applicant)
 Designation-----
 Address:

Place:
 Date:

**LUMPSUM TESTING CHARGES FOR DIFFERENT AGRICULTURAL MACHINES AT FARM
MACHINERY TRAINING & TESTING INSTITUTES**

S.No.	Category of Machines	Lumpsum Testing charges (Rs.)
1.	Agricultural Tractor	
	a) Initial commercial Test.	1,75,000
	b) Batch Test	1,60,000
2.	Power Tiller	87,000
3.	Combine Harvester	
	a) Self Propelled	2,00,000
	b) Tractor Mounted	95,000
4.	Power Operated Thresher, decorticator, sheller, winnower etc.	4,000
5.	Tractor drawn/operated machines/Equipments (Seed drills, Straw reapers etc)	6,800
6.	Power Tiller driven/Self propelled reaper etc.	4,000
7.	Manually operated Equipment.	1,900
8.	Animal drawn Equipments	2,100
9.	Components	1,000
10.	Hand Tools	1,000
11.	Horizontal Centrifugal pumps	1,800
12.	Constant speed diesel engines(Type test.)	22,500(upto 3.5 kw 30,000(3.55 to 7 kw
13.	Constant speed diesel engine (performance test)	2,400
14.	Spark, ignition Engine (type test)	10,000
15.	Spark, Ignition Engines(performance test)	2175
16.	Power sprayers cum dusters	6,262
17.	Foot sprayers	2,400
18.	Knapsack Sprayers	2,625
19.	Compression Sprayers	4,275
20.	Rocker Sprayer	2,400
21.	Stirrup pump	2,325

Note: The testing charges are subject to revision.