



भारत सरकार / GOVERNMENT OF INDIA

कृषि एवं किसान कल्याण मंत्रालय / MINISTRY OF AGRICULTURE AND FARMERS WELFARE
कृषि, सहकारिता एवं किसान कल्याण विभाग / DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE
उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

NORTHERN REGION FARM MACHINERY TRAINING AND TESTING INSTITUTE

ट्रैक्टर नगर, सिरसा रोड, हिसार (हरियाणा)-125 001

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[ISO 9001:2015 COMPLIANT INSTITUTION]

APPLICATION FOR TESTING OF SMS OF COMBINE HARVESTER
[To be filled in Triplicate]

1	Make and Model of SMS	:	
2	Make and Model of recommended combine harvester	:	
3	Name and complete Address of the applicant of SMS (if manufacturer is other than applicant) including PIN/Mob./email etc.	:	
4	Name and complete Address of the manufacturer of SMS including PIN/Mob./email etc.	:	
5	Nature of test	:	Confidential/ Commercial/Variant/Supplementary

6	List of Enclosures	:	Please Tick (✓) whichever is applicable
			i) Detailed specification sheet
			ii) Recommendation letter of combine harvester manufacturer (As per the format enclosed)
			iii) Operator manual
			iv) Parts catalogue
			v) Service manual
			vi) Drawings/any other printed material

DECLARATION BY SMS MANUFACTURER/APPLICANT

I, hereby, solemnly declare that information furnished above is complete and true to the best of my knowledge and belief. I also declare, hereby, that I have neither concealed nor suppressed nor distorted any information which may have any bearing on the test requested for. I understand that in case of any information found to be untrue, suitable action is liable to be initiated against me.

I also declare, hereby, that I am aware that testing shall be done according to relevant provisions of the applicable test/specification codes including IS: 15806: 2018 and shall be governed by the Regulation for the Testing of Agricultural Machinery of Northern Region Farm Machinery Training & Testing Institute, Sirsa Road, Hisar (Haryana) - 125 001, hosted on the website www.nrfmtti.gov.in and hereby agree to abide by them.

I also declare that during the testing, if any of the evaluative field- parameters of combine harvester exceeds the permissible limits, as laid down in IS: 15806-2018, The SMS shall be treated as “**Not Suitable With That Combine Harvester**” and Institute may release the test report to this effect.

Place	:		Signature	:	
Date	:		Name of the Signatory	:	
			Designation	:	

Brief Technical Specification of SMS
(Each and every page to be signed)
 (To be submitted in triplicate)

1	General	
1.1	Make of SMS	
1.2	Model of SMS	
1.3	Type of SMS	
1.4	Name and complete Address of the applicant of SMS (if manufacturer is other than applicant) including PIN/Mob./email etc.	
1.5	Name and complete Address of the manufacturer of SMS including PIN/Mob./email etc.	
1.6	Serial Number of SMS	
1.7	Year of manufacturer of SMS	:
1.8	Recommended Make and Model of Combine harvester(s) <i>(Test shall be done separately with each recommended model of combine on additional fee basis)</i>	:
	Recommended Power of combine harvester, (kW)	:
2	Rotor	
2.1	Rotor Diameter, mm	
2.2	No of lugs on Rotor in a row	

Name of the manufacturer /Applicant	SMS	NRFMTTI
Signature	Make	Signature
Name	Model	Name
Designation		Designation
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2.3	No of rows in a periphery		
2.4	Length of pivotal flail, mm		
2.5	Width of flail, mm		
2.6	Thickness of flail		
2.7	No. of flail in one set		
2.8	Spacing between flail of one set, mm		
2.9	Distance between adjacent flail unit, mm		
2.10	No of Rows/bar of serrated blade		
2.11	No of serrated blade in a row		
2.12	Spacing between serrated blades, mm		
2.13	Clearance between pivotal blade and concave		
2.14	Overlapping of pivotal blade on serrated blade, mm		
2.15	Rotor rpm		
2.16	Rotor Balancing		
3	Transmission		
3.1	Diameter of Drive Pulley		
3.2	Diameter of Driven pulley		
4	Spreader		
4.1	Total no of flap, mm		
4.2	Length of flap, mm		
4.3	Distance between flaps, in (left to right)		

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4.4	Spreader angle with horizontal, Degree		
4.5	Spreader angle with line of travel , degree		
4.6	Spreader sheet thickness, mm		
5	Overall dimensions (mm)		
5.1	Length		
5.2	Width		
5.3	Height		
6	Overall Mass (kg)		
7	Colour		

8	Minimum Performance Criteria (As per IS : 15806- 2018)				
		Requirements	Tolerance	Observation	Remark
8.1	Uniformity of straw spread ,CV, (percent)	20 Max. (evaluative)	-		
8.2	Weighted mean size of chopped straw, cm	20 Max. (evaluative)	-		
8.3	Processing losses in rice (%)	Average 4 % (evaluative)	Nil		
8.4	Threshing efficiency (%)	≥98 % (evaluative)	Nil		
8.5	Cleaning efficiency	≥96 percent (evaluative)	Nil		
8.6	Grain Breakage in main grain tank	≤ 2.5 percent (evaluative)	Nil		
8.7	Non-collectable losses	≤ 2.5 percent (evaluative)	Nil		

Name of the manufacturer /Applicant	SMS	NRFMTTI
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8.8	Material of SMS blade (Non-evaluative)		
8.9	Chemical composition of SMS blade (Non-evaluative)		Percent (%)
	Carbon		
	Manganese		
	Chrome		
	Nickel		
8.10	Material for Bushes for flail blade (Non evaluative)		

8.11	Hardness of flail blade	Evaluative			
	Bush Section	20 to 35 HRC			
	Edge Section (Hardened zone)	48 to 58 HRC			
	Reminder zone	20 to 35 HRC			
	Hardness of Serrated blade	Evaluative			
	Bush Section	20 to 35 HRC			
	Edge Section (Hardened zone)	48 to 58 HRC			
	Reminder zone	20 to 35 HRC			

8.12	SAFETY REQUIREMENT FOR SMS (evaluative)	:	
	Guards over all moving parts		
	RPM indicator of rotor		
	Overlapping of flail and fixed serrated blade (The clearance should be adjustable)		

Name of the manufacturer /Applicant	SMS	NRFMTTI
Signature	Make	Signature
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Date		Date

RECOMMENDATION LETTER BY COMBINE HARVESTER MANUFACTURER

I (name) -----,(destination)-----, solemnly declare that I am duly authorized by (full address of the combine manufacturer)----- to recommend the use of (make and model of SMS)-----, manufactured by (full address of the SMS manufacturer)-----with our (make and model of combine harvester)-----.

I also declare that the above said combine harvester is tested at FMTTI(Hisar/Budni) vide Test Report No. -----, released on (month and year)-----

I further declare that the name of above said combine harvester is available in the ministry's website, in the list of combine harvesters recommended for subsidy by the Govt. of India, Ministry of Agriculture, Cooperation and Farmers Welfare, New Delhi.

I further declare that the deviation between evaluative field performance of combine without SMS , as recorded in our relevant test report, and evaluative field performance of combine with this SMS, shall be acceptable to us, if the deviation is within permissible limit of IS: 15806-2018. There is no objection in the release of such test report of the SMS without making any reference to us.

I further declare that the deviation between non-evaluative field performance of combine without SMS , as recorded in our relevant test report, and non-evaluative field performance of combine with this SMS, shall be acceptable to us, even if the deviation exceeds the permissible limit of IS: 15806-2018. There is no objection in the release of such test report of the SMS without making any reference to us.

I further declare that in the event of any parameter of combine harvester, especially those concerning with Qualifying Minimum Performance Criteria (as per IS: 15806-2018) exceeds the permissible limit when observed with above said SMS, THIS RECOMMENDATION WOULD, BY DEFAULT, STAND WITHDRAWN.

I also declare that this recommendation would be invalid for any and all make/model of the SMS other than the ones specified hereinabove.

DATE:

PLACE:

Signature with stamp /seal of the manufacturer

Name:

Designation

Address: