

व्यावसायिक परीक्षण रिपोर्ट

COMMERCIAL TEST REPORT (VARIANT)

संख्या/ No.: COMB-196/2297/2019

माह/Month : April, 2019

THIS TEST REPORT VALID UP TO : 30th APRIL, 2026



**NEW HOLLAND, TC 5.30 CAB RN SELF PROPELLED
COMBINE HARVESTER**



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

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[ISO 9001:2015 CERTIFIED]

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TEST DATA:Maximum noise level observed : 84
dB(A)**7. SELECTED PERFORMANCE AND OTHER CHARACTERISTICS AS PER IS 15806 :2018**

S. No	Characteristics	Category (Evaluative/ Non evaluative)	Requirement /Declaration	Tolerance	Observed	Remarks
1. Noise measurement						
i)	Max. ambient noise emitted by combine at bystanders position dB (A)	Evaluative	88	Nil	83	Conforms
ii)	Max. noise at operator's ear level dB (A)	Evaluative	98	Nil	84	Conforms
2. Safety requirement						
a)	Guards against all moving parts	Evaluative	Provided	--	Provided	Conforms
b)	Lighting arrangement	Evaluative	Provided	-	Provided	Conforms
c)	Grain tank cover	Evaluative	Essential	-	Provided	Conforms
d)	Spark arrester in engine's exhaust in case naturally aspirated engine	Evaluative	Essential	-	Not provided whereas turbo charger is provided in exhaust system	--
e)	Stone trap before concave	Evaluative	Essential	-	Provided	Conforms
f)	Rear view mirror	Evaluative	Essential	-	Provided	Conforms
g)	Fire extinguisher	Evaluative	Essential	-	Provided	Conforms
h)	Slip clutch at following drives –					
	i) Cutting platform auger	Evaluative	Essential		Provided	Conforms
	ii) undershot conveyor drive	Non evaluative	Essential		Provided	Conforms
	iii) Grain & tailing elevator	Non evaluative	Essential		Provided	Conforms

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i)	Anti slip surfaces at operator platform & ladder & proper gripping for the control levers.	Evaluative	Essential	-	Provided	Conforms
j)	Working clearance around the controls	Non evaluative	Essential 70 mm,min	-	Provided	Conforms
k)	Labeling of control and gauges	Evaluative	Essential	-	Provided	Conforms

3.Break down (critical, major & minor)

Sr. No	Category of breakdowns	Category (Evaluative/ Non evaluative)	Requirements as per OM	As observed	Whether meets the requirements (Yes/No)
1.	Critical	Evaluative	No critical breakdown	None	Yes
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	None	Yes
3.	Minor	Evaluative	Not more than five and frequency of each should not be more than two	None	Yes
4.	Total breakdown	Evaluative	In no case total no of (major + minor) breakdowns exceed five	None	Yes

8. COMPARISON BETWEEN BASE MODEL AND VARIANT MODEL (as per IS 15806 :2018)

Sr. No as per IS15806 :2018	Features	Observation on base model (Comb-180/2156/2018, April 2018)	Observation on variant model	Remarks
1	Change in Prime mover make and model beyond 10% but within 20% variation in power and engine speed	Make :Tata Cummins Model : B5.9131C30 Max. power : 97.7 kW at 2026 rpm	Make :Tata Cummins Model : B5.9131C30 Max. power : 97.7 kW at 2026 rpm	No Change

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2	Change in Crop conveyance	Radial	Radial	No Change
3	Size of cutter bar	462cm	462cm	No Change
4	Change in header unit, crop feeder unit, threshing unit, separating unit, cleaning unit and/ or other unit/units to suit harvesting of any other crop such as maize mustered and any other crop recommended by the manufacturer	Same in both		No Change
5	Addition of number of speeds with add-on module and No. of speed	4 Forward , 1 Reverse	4 Forward , 1 Reverse	No Change
6	Type of gear box	Mechanical , sliding mesh	Mechanical , sliding mesh	No Change
7	Type of drive, 2wheel/4wheel	2 WD	2 WD	No Change
8	Fitment of cabin	Not provided	Provided	Changed
9	Straw walker number and size,mm	5 3235 X 255	5 3235 X 255	No change
10	Overall dimensions of combine in working condition	Length :870 cm Width :495 cm Height :383 cm Rear track width: 2440 mm	Length :870 cm Width :495 cm Height :366 cm Rear track width :2210 mm (By change of rear axle)	Changed

9. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS

NONE

10. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

The results of the tests carried out on variant model 'NEW HOLLAND, TC 5.30 CAB RN' have been compared with those of base model 'NEW HOLLAND, TC 5.30R' and found within the limit, as specified in IS 15806 :2018

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10.1 Literature supplied with the machine

The following literature is supplied by the applicant.

- (i) Operator's manual for combine harvester
- (ii) Operator manual – Cummins Engine.
- (iii) Service manual for combine harvester
- (iv) Parts catalogue for combine harvester

The operator's manual needs to be up dated as per IS:8132-1999

TESTING AUTHORITY

R. K. NEMA SENIOR AGRICULTURAL ENGINEER	<i>Rema</i>
P. K. PANDEY DIRECTOR	<i>Libin - msh</i>

11. APPLICANT'S COMMENTS

No specific comment received from applicant.

