

CSIR/CMERI/FMTTC/2024/070

**TRACTOR OPERATED MAIZE SHELLER CUM
DEHUSKER
ELEVATOR CONVEYOR (MSDHEC-6400)
(COMMERCIAL TEST)**

Name of Machine : MAIZE SHELLER CUM DEHUSKER
Type : ELEVATOR CONVEYOR
Make : SONALIKA
Model : MSDHEC-6400
Name and address of Manufacturer : Sonalika Agro Industries Corporation, Industrial Estate, Jalandhar Road, Hoshiarpur-146001, Punjab
Name and address of Applicant : M/s Sonalika Agro Industries Corporation
Jalandhar Road, Hoshirapur, Punjab- 146001
Test Conducted at : Farm Machinery Training and Testing Center,
CSIR – Central Mechanical Engineering Research
Institute, M.G. Avenue, Durgapur- 713209, West
Bengal, INDIA, & CMERI- Centre of Excellence
for Farm Machinery, Near GNE College, Gill
Road, Ludhiana - 141006, Punjab, INDIA



THIS TEST REPORT VALID UP TO : 31st OCTOBER 2031
[vide DAC&FW OM No. 13-22/2020- M&T (I&P) dated 12.12.2023]

Report No.: CSIR/CMERI/FMTTC/2024/070

Month: November

Year: 2024

CSIR - Central Mechanical Engineering Research Institute,
Durgapur - 713209
(W.B.), INDIA

Report prepared by

Report verified by

Farm Machinery Training and Testing Centre
CSIR-Central Mechanical Engineering Research Institute
THIS REPORT IS VALID UPTO: 31st October 2031

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3. TEST PROCEDURE / TEST CODE

There is no Indian standard/test code available for testing of tractor trailer as such. The guidelines, however, have been taken from the following:

IS: 9826:1981	:	Glossary of term relating to harvesting and threshing and thresher equipment.
IS: 11691:1986	:	Specification for power thresher, spike tooth type
IS: 9020:2002	:	Power threshers-Safety requirements
IS 6284:1985	:	Test code for power thresher for cereals
IS 7052: 1973	:	Test code for maize sheller
IS 9019:1973	:	Code of practice for installation, operation and preventive maintenance of power thresher

4. SPECIFICATIONS

4.1 General

Name of manufacturer	:	Sonalika Agro Industries Corporation, 6, Industrial Estate, Jalandhar Road, Hoshiapur-146001, Punjab
Name of applicant	:	Sonalika Agro Industries Corporation
Name of Machine	:	Maize Sheller Cum Dehusker (Tractor Operated)
Type	:	Tractor operated (spike tooth type)
Make	:	SONALIKA
Model	:	MSDHEC-6400
Serial No.	:	SAIC115
Year of manufacture	:	2024
Recommended crop	:	Multicrop
Recommended power source	:	35 hp and above tractor

Report prepared by

[Signature]

Report verified by

[Signature]

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13. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of thresher.

14. DEFECTS, BREAKDOWNS AND REPAIR

No defect/breakdown was occurred during entire period of field & lab tests.

15. COMMENTS & RECOMMENDATIONS

- 15.1 Materials of construction of various components (Except for spikes & beater) of thresher conforms to the IS requirement.
- 15.2 Provision for concave clearance should be provided in the thresher
- 15.3 The feeding of the crop was done through conveyor system.
- 15.4 Labelling plate provided should be as per the requirement of Indian Standard.
- 15.5 Guard on propeller shaft should be provided to enhance the safety of the operator.
- 15.6 Arrangements should be made for permanent display of quality and test parameters obtained in the test in all commercial products (agriculture machines by putting engraved seals or plates) on the machines. By providing this information, manufacturers can build trust and transparency, ensuring that farmers understand the equipment's capabilities and limitations before purchase. This initiative could improve long-term satisfaction and safety in agricultural practices.

Report prepared by
Jhel


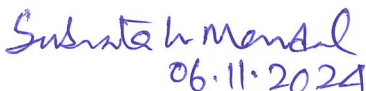
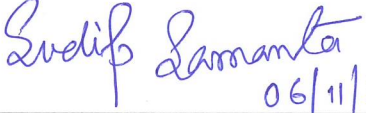
Report verified by
Sudhate kr Mandal

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16. TECHNICAL LITERATURE

Operation, Service, Maintenance manual cum part catalogue of thresher in English was provided in the single booklet form for reference during the test. However, this may be brought out in Hindi and in the regional languages, as per IS: 8132-1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY

Report Prepared by	Senior Technical Officer CSIR-CMERI Farm Machinery Testing Centre	 06/11/2024
Report Verified & Approved by	In-Charge, CSIR-CMERI Farm Machinery Testing Centre	 06.11.2024
Report Approved for release by	Head, Business Development Unit, CSIR-CMERI, Durgapur	 06/11/24

17. APPLICANT'S COMMENT

Para No.	Our Reference	Applicant's Comments
17	15.2	We will look into it.
	15.4	Corrective action will be taken.
	15.5	Corrective action will be taken.
	15.6	It will be taken care of in future production levels.

