

प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट
INITIAL COMMERCIAL TEST REPORT

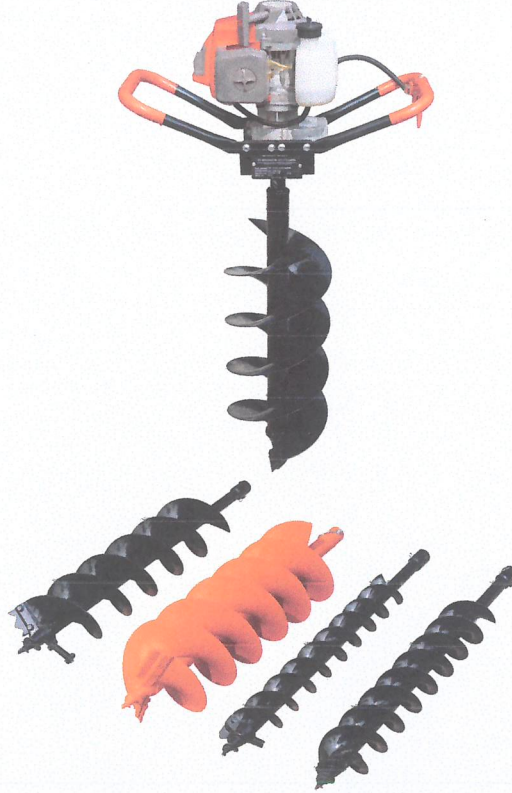
संख्या/No. CSIR/CMERI/FMTTC/2025/003

माह/Month: January 2025

THIS TEST REPORT VALID UP TO

:

31st DECEMBER, 2031



**ICS MERCHANDISE POST HOLE DIGGER
(MODEL: ICS-PHD 500)**



सत्यमेव जयते

Government Of India



कृषि मशीनरी प्रशिक्षण और परीक्षण केंद्र

Farm Machinery Training and Testing Centre

सीएसआईआर- केन्द्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान

CSIR - Central Mechanical Engineering Research Institute

महात्मा गांधी एवेन्यू, दुर्गापुर

Mahatma Gandhi Avenue, Durgapur

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CSIR/CMERI/FMTTC/2025/003

ICS MERCHANDISE PVT. LTD.
POST HOLE DIGGER
(MODEL: ICS-PHD 500)
(INITIAL COMMERCIAL TEST)

Name of Machine : Post Hole Digger
Type of Machine : Engine Powered Manually operated
Make : ICS MERCHANDISE PVT. LTD.
Model : ICS-PHD 500
Brand's Name : ICS
Name and address of Manufacturer : ICS MERCHANDISE PVT. LTD.
#3679, 6th Block, Sir M Visvesvaraya
Layout, Near Oxford Pu & Degree College,
Bengaluru-560060.
Name and address of Applicant : ICS MERCHANDISE PVT. LTD.
#3679, 6th Block, Sir M Visvesvaraya
Layout, Near Oxford Pu & Degree College,
Bengaluru-560060.
Test Conducted at : Farm Machinery Training and Testing Centre
CSIR - Central Mechanical Engineering
Research Institute, M G Avenue, Durgapur,
Pin – 713209, West Bengal.



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

Report No.: CSIR/CMERI/FMTTC/2025/003

Month: January

Year: 2025

**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, Durgapur
THIS REPORT IS VALID UPTO: 31st December 2031

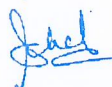
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4 SAFETY WEARS RECOMMENDED

1. Helmet, 2. Ear Protector, 3. Hand Gloves, 4. Safety Glass (Goggle), 5. Protective Cloth, 6. Safety Shoes

5 SPECIFICATIONS**5.1 General**

| | |
|----------------------------------|--|
| Name of machine | : Earth Auger/ Post Hole Digger |
| Type of machine | : Self-Propelled Screw Auger |
| Name and address of manufacturer | : ICS MERCHANDISE PVT. LTD. #3679, 6 th Block, Sir M Visvesvaraya Layout, Near Oxford Pu & Degree College, Bengaluru-560060. |
| Name and address of applicant | : ICS MERCHANDISE PVT. LTD. #3679, 6 th Block, Sir M Visvesvaraya Layout, Near Oxford Pu & Degree College, Bengaluru-560060. |
| Make | : ICS MERCHANDISE PVT. LTD. |
| Model | : ICS-PHD 500 |
| Serial No. | : 5002 |
| Brand's Name | : ICS |
| Country of origin | : India |
| Year of manufacture | : 2024 |
| Recommended use | : Digging Holes for plantation |

Report prepared by 
Report verified by Subrata Kumar Mandal

13 EASE OF OPERATOR, ADJUSTMENT AND SAFETY

Fatigue was observed just 20 mins of operation of the machine, mainly, due to excessive mechanical vibration and noise. The operator complained about pain in different parts of body like wrist & shoulder etc. during operation.

Work-Rest cycle for this machine is observed on follows :

20 minutes' work – 10 minutes' rest - 20 minutes' work – 10 minutes' rest - 20 minutes' work – 5 minutes' rest & so on.

14 ADJUSTMENT, DEFECTS, BREAKDOWNS & REPAIRS

No noticeable breakdown occurred during 24.83 hours of operation.

15 COMMENTS & RECOMMENDATION

15.1 The mechanical vibration marked as (*) under section 9, are on higher side. It is not just directly concerned with operator's health, safety and comfort, but also adversely affects the useful life of the components. It needs to be corrected.

15.2 Chemical Composition of the Auger blade does not confirm with the requirement as per IS: 6025-1982. It should be looked into.

15.3 One labelling plate is riveted on the machine. The labelling plate should be updated with following information as per BIS norms.

- | | |
|---|----------------------|
| a. Name and address of the manufacturer | b. Country of origin |
| c. Make | d. Model |
| e. Year of manufacturer | f. Serial no |
| g. Engine number | h. Engine HP |
| i. Rated rpm | |

Report prepared by

Report verified by

| | |
|---------------------------|--|
| CSIR/CMERI/FMTTC/2025/003 | ICS MERCHANDISE PVT. LTD. POST HOLE DIGGER (MODEL: ICS-PHD 500) (INITIAL COMMERCIAL TEST) |
|---------------------------|--|

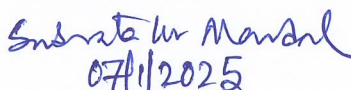
16 TECHNICAL LITERATURE

The following literatures are provided by the applicant during the test along with the application form.

- a) User's manual book
- b) Parts' catalogue
- c) Service manual

These manuals are need to be updated as per IS: 8132-1999.

TESTING AUTHORITY

| | | |
|--------------------------------|---|---|
| Report Prepared by | Sr. Technical Officer, CSIR-CMERI Farm Machinery Testing Centre |  07/01/2025 |
| Report Verified & Approved by | In-Charge, CSIR-CMERI Farm Machinery Testing Centre |  07/1/2025 |
| Report Approved for release by | Head, Business Development Unit, CSIR-CMERI, Durgapur |  07/1/25 |

17 APPLICANT'S COMMENTS

| Para No. | Our Reference | Applicant's Comments |
|----------|---------------|----------------------|
| 17 | | |

