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भारतीय मानक मसौदा

**बल्क हैंडलिंग उपकरण — रिंगक ट्रेक्टर — डाटा शीट
भाग 1 क्रेता द्वारा प्रदान की जाने वाली जानकारी**

[आई एस 11738 (भाग 1) का दूसरा पुनरीक्षण]

DRAFT *Indian Standard*

**BULK HANDLING EQUIPMENT —
CRAWLER TRACTORS — DATA SHEET
PART 1 INFORMATION TO BE SUPPLIED BY PURCHASER**

[*Second Revision* of IS 11738 (Part 1)]

ICS 53.040.30

**Earth Moving Equipment and Material
Handling Sectional Committee, MED 07**

**Last date for receipt of comments
is 12 Jan 2023**

FOREWORD

(Formal clause to be added later)

This Standard was first published in 1986. The standard was earlier covering the information to be provided by both, the purchaser and the manufacturer/supplier. In first revision has been undertaken to segregate the information required to be furnished by the purchaser and the manufacturer. In this revision, all the editorial changes have been incorporated.

In this revision, the following major changes have been made:

- a) A reference clause **2** has been added mentioning the latest version of the referred standards;
and
- b) Editorial changes have been done.

This standard is being published in two parts.

This standard (Part 1) lays down the information to be provided by the purchaser at the time of enquiry or order. He may also provide the additional information such as sieve analysis, etc, suitably which may help the manufacturer in selecting the best suited equipment for the duty required to be performed by the equipment.

IS 11738 (Part 2) : 1993 ‘Bulk handling equipment — Crawler tractors — Data sheet: Part 2 Information to be provided by manufacturer/supplier’ will lay down the information required to be furnished by the manufacturer/supplier in reply to a tender enquiry or at the time of supply of the equipment to the purchaser.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1 SCOPE

This Indian Standard covers the data that shall be provided by the purchaser at the time of enquiry or order.

2 REFERENCES

The standards listed below contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. In case the standards are to be referred in this clause, they are to be listed as follows:

<i>IS/ISO No.</i>	<i>Title</i>
IS 10463 (Part 6) : 1983	Glossary of terms for bulk handling equipment: Part 6 Cyclic loose bulk handling equipment (non-stationary)
IS 12645 : 1993/ ISO 9246 : 1988	Earth moving machinery — Crawler and wheel tractor dozer blades — Volumetric ratings (<i>first revision</i>)

3 TERMINOLOGY

For the purpose of this standard terms and definitions given in IS 10463 (Part 6) shall apply.

4 DATA SHEET

4.1 Application and Site Data

-
- a) Applicable to _____ Proposal/Purchase
- b) Service _____ Continuous/Intermittent
Days per year _____ Days
- c) Duty : Operating hours per shift _____ h
Shifts per day _____
- d) Site altitude _____
- e) Environment _____ Dusty/Foggy/Snowy/Slushy/Clean
- f) Relative humidity, *Max* at _____ °C _____ percent
- g) Temperature : *Max* _____ °C; *Min* _____ °C
- h) Rainfall : Average _____ mm; *Min* _____ mm
- j) Area classification _____ Hazardous/Non-Hazardous
- k) Average dozing distance _____ m
- m) Average and maximum ground grade _____
- n) Average ripping distance _____ m
- p) Water table _____
- q) Soil bearing pressure _____ MPa

4.2 Materials Handled Data

- a) Material _____
- b) Bearing soil _____
- c) Type of rock _____
- d) Joint formation (layer condition) _____
- e) Weathered condition _____
- f) Seismic wave velocity _____
- g) Shear angle _____
- h) Abrasiveness _____
- j) Moh's hardness _____
- k) Moisture content _____ percent

- m) Swell factor _____
- n) Chemical activity _____ Corrosive/Hygroscopic

4.3 Job Efficiency

- a) Day time _____
- b) Night time _____
- c) Duty _____ minutes per hour

4.4 Attachments

4.4.1 Blades

- a) Type _____
- b) Capacity (Volumetric) (*see* IS 12645) _____

4.4.2 Rippers _____

4.5 Production Requirements (Based on Average Conditions)

<i>Capacity</i>	<i>Volume</i> <i>(In Loose Condition)</i> m ³	<i>Mass</i> Tonne
Per hour		
Per day		
Per month		
Per year		

4.6 Other Requirements

4.6.1 Optional Attachments/Equipment _____

4.6.2 Other Attachments/Equipment _____

4.6.3 Safety System _____

4.6.4 Noise Levels _____

4.6.5 Emission Levels _____