

Handbook of
Indigenously Manufactured

MACHINERY, EQUIPMENT & EXPLOSIVES

For use in mines
(Fifth Edition, 1999)



Publication Cell
INDIAN BUREAU OF MINES

Ministry of Steel & Mines
Nagpur

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Government of India

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Indigenously Manufactured*

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EQUIPMENT &
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For Use in Mines
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Issued by
Controller - General
Indian Bureau of Mines
NAGPUR

Price : (Inland) Rs. 365.00 ; (Foreign) £ 13.08 or \$ 21.15

Printed in IBM Press 31/9/1999/600

INDIAN BUREAU OF MINES

Project Credit

FORMULATION & GENERAL GUIDANCE

A. N. Bose
Controller General

S. V. Ali
*(Controller of Mines
up to 31.10.1997)*

S. S. Das
*Controller of Mines
(from 1.11.1997)*

L. K. Dutta
*Regl. Controller of Mines
(up to 1.10.1997)*

R. L. Parmar
*Regional Controller of Mines
(from 2.1.1998)*

COMPILATION, UPDATION & REVISION

M. V. Sakhare
Asstt. Mining Engineer

M. R. Kaware
Senior Technical Assistant

D. T. Pantane
Senior Technical Assistant

SECRETARIAL ASSISTANCE

Smt. Rema Nair
Stenographer Gr. I

S. G. Ilpate
Stenographer Gr. II

PRODUCTION & PRINTING

C. B. Malviya
M. Sumesh
Assistant Editors

Preface

This is the fifth edition of the publication "Handbook of Indigenously Manufactured Machinery, Equipment and Explosives for Use in Mines" which is designed to facilitate the industry in selection of machinery of a required capacity. The last edition was brought out in the year 1990. There had been marked improvement in each subsequent edition over the preceding one with respect to coverage of products. This fifth edition is a further improvement over the previous edition.

The publication has been divided into 17 sections for convenient and purposeful reference. Regrouping of the products of different manufacturers on the basis of unit capacity provides easy selection of the desired machinery of a given capacity. The publication covers 193 manufacturers producing over 4000 different products/items. We have collected information from the Manufacturers/Suppliers of machinery, equipment and explosives and we hope the information contained in this publication will give a comprehensive picture of availability of machinery, equipment and explosives in the country. We shall keep on updating the publication from time to time incorporating the rapid advances in the manufacture of machinery, equipment and explosives which will subsequently appear in our future edition.

The Indian Bureau of Mines is thankful to all the manufacturers/suppliers of machinery, equipment and explosives for their active co-operation in furnishing the information in respect of their products. It is hoped that the planners of mining projects, engineers in working mines and manufacturers as well as users of the products listed in this publication will find this handbook useful for reference.

Nagpur
September 14, 1999

A. N. BOSE
Controller General
Indian Bureau of Mines

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Abbreviations

A	: Ampere	Elec	: Electricity
AC	: Alternating Current	F	: Forward
Ah	: Ampere Hour	FHP	: Flywheel Horse Power
Approx	: Approximate	GVP	: Gross Vehicle Horse-Power
Bar	: Baritone	gm/cc	: Gramme Per Cubic Centimetres
Bar G	: Baritone Gramme	gm/ml	: Gramme Per Millilitre
BHP	: Brake Horse Power	GP	: General Purpose
BR	: Brass	H or Ht	: Height
BSP	: British Standard Pipethread	HP	: Horse Power
BSS	: British Standards Specification	Hz	: Hertz
CA	: Compressed Air	ID	: Internal Diametre
cal	: Calorie	ISI	: Indian Standards Institution
cal/gm	: Calorie Per Gramme	k	: Kilo
Cap	: Capacity	kg	: Kilograms
cfm	: Cubic Feet Per Minute	kg/sq cm	: Kilograms Per Square Centimetre
cu m/min	: Cubic metre per minute	kgfm	: Kilograms Force Metre
cm	: Centimetres	kg/hr	: Kilograms Per Hour
cm Wg	: Centimetres Water Gauge	kgm	: Kilogram Metre
CMRS	: Central Mining Research Station	kHz	: Kilo Hertz
C/S	: Cycles Per Second	km	: Kilometre
CST	: Central Standard Time	kmph	: Kilometres Per Hour
cu m	: Cubic Metre	km/sec	: Kilometres Per Second
cu m/hr	: Cubic Metres Per Hour	kN	: Kilo Newtons
cu m/min	: Cubic Metres Per Minute	kN/m	: Kilo Newtons Per Metre
D	: Depth	kpa	: Kilo Pascal
DC	: Direct Current	kV	: Kilo Volt
DGMS	: Directorate General of Mines Safety	kVA	: Kilo Volt Ampere
Dia	: Diametre	kW	: Kilo Watt

kwh	: Kilo Watt Hour	RLW	: Rear Laden Weight
L	: Length	rpm	: Revolutions Per Minute
lc	: Least Count	SAE	: Society of Automotive Engineers
lit	: Litre	sec	: Second
lit/hr	: Litres Per Hour	sec/m	: Seconds Per Metre
LPM	: Litre Per Minute	SpGr	: Specific Gravity
m	: Metre	sq cm	: Square Centimetre
mA	: Milli Ampere	sq m	: Square Metre
Max	: Maximum	sq mm	: Square Millimetre
MHz	: Mega Hertz	SS	: Stainless Steel
min	: Minute/Minimum	t	: Tonne
mm	: Millimetre	t/cum	: Tonnes Per Cubic Metre
m/min	: Metre Per Minute	Temp	: Temperature
mm/min	: Millimetres Per Minute	tph	: Tonnes Per Hour
MS	: Mild Steel	U/G	: Under Ground
m/sec	: Metres Per Second	V	: Volt
MVA	: Mega Volt Ampere	VA	: Volt Ampere
mWs	: Milli Watt Seconds	VDC	: Volts Direct Current
No.	: Number	VoD	: Velocity of Detonation
OD	: Outside Diametre	vpm	: Vibrations Per Minute
pH	: Phase	W	: Watt or Width
Pr	: Pressure	WG	: Water Gauge
Qty	: Quantity	wt	: Weight
R	: Radius or Reverse		