The Indian Textile Journal

A REPRESENTATIVE PUBLICATION

FOR THE

Textile and Engineering Industries.

The first and only Journal of its kind in the East.

Vol. VII., October 1896 to September 1897,

(ENGLISH EDITION).

HEAD OFFICE:

27, Medows Street, Fort, Bombay.

Bombay:
Printed for the Proprietors at the
"Caxton Steam Printing Works," Marine Street, Fort.
INDIAN TEXTILE JOURNAL,
VOL. VII.—OCTOBER, 1896 TO SEPTEMBER, 1897.

EDITORIALS.

Page
American Textile School, An .................................................. 238
Barbour Scheme, The .......................................................... 237
Blackburn Mission to China, The ........................................ 236
Bombay Cotton Mill Labourers .............................................. 207
Bombay Millowners’ Association ........................................... 234
Bombay Mills Hand, The ....................................................... 233
Bomboonie Calico, The .......................................................... 56
Bosphorus Plague in Bombay ................................................. 82
Bubbly Plague in Bombay—Proposed remedies, The .......... 109
Cawnpore ................................................................. 132
Coming Scarcity, The ......................................................... 30
Company Promoting .......................................................... 235
Conservancy at Cotton Mills .................................................. 110
Construction of Steam Boilers .............................................. 110
Cotton Crops, The .............................................................. 30
Draught in Boiler Furnace ....................................................... 31
Duties of Consuls and Commercial Attachés, The .............. 133

Education versus Instruction .................................................... 233
Exports of British Manufactures ............................................. 32
Finance ................................................................. 309
Friction Clutches ............................................................... 109
Government Commissions ..................................................... 83
How not to start new mills in India ......................................... 182
Indian Government and its Engineering Contracts ................. 30
International Congress on Technical Education in India .......... 79
Javerial U. Yajnik, The Hon. .................................................. 183
Lancashire and the Indian Famine Fund ................................. 131
Management of Bombay Cotton Mills, The ............................. 223
Maneckjee Cotton Association, The ....................................... 3
Manchester Ship Canal and its Prospects, The ...................... 260
Money and Exchange .......................................................... 29
Mortality amongst European Mill Employees in India .......... 55
New Mills in India, The ...................................................... 268
Oriental Mills, The ........................................................... 286
Past Year, The ................................................................. 1
Peganoid ................................................................. 56
Pioneer Work in India .......................................................... 63
Plague and the Cotton Mills, The ........................................... 81, 107, 181
Plague and the Labour Market .............................................. 155
Plague and the Mills, The—Better Prospects ............................ 132
Profits of Lancashire Mills, The ............................................ 141
Proposessed Machine Works in Bombay ................................ 288
Russian Cotton Trade, The ................................................... 108
Sheriff—Eject of Bombay, The .............................................. 55
Sir George Campbell ........................................................... 75
Steaming in Weaving sheds ................................................... 156
Strike in the Machinery Trade, Oldham ................................ 157
Technical Education—Is it being Overdone? ............................. 83
Trading Cotton in Goods with Africa ..................................... 263
Utilising the Power of Tides .................................................... 2
Working of the Cotton Duties Act, The ................................. 2

ARTICLES.

Address to Sir George Cotton ............................................ 239
Adjusting Engine Bearings .................................................... 293
Advantage of Mechanical Science ........................................... 141
Advance of Wages at Messrs. Howard and ...................... 17
Bullough’s Works, Accrington .............................................. 17
American Mill Revolution in 1896 ....................................... 159
Arts and Wares for Factories ............................................... 150
Automatic Fire Appliances .................................................... 220
Babbit’s Metal ................................................................. 27
Best Bronzing Machine ......................................................... 11
Blistening of Cotton Cloths ................................................... 60
Built-up Crank Shafts ......................................................... 16
Card Wire, The ................................................................. 68
Chain Link, The ................................................................. 228
Cheap Running Petroleum Engine, A ................................... 135
Claim for Damages by a Carrier ............................................ 227
Cleaning of Carpets, The ..................................................... 128
Coal in China ................................................................. 124
Compressed Air ............................................................... 243, 270
Conveying Belts and their Use ............................................. 39

Cotton Carding and Spinning ................................................. 134
Cotton Carding ............................................................... 193
Cotton Carding and the Bell-Marsh Mills, The ...................... 135
Cotton Cultivation in India .................................................... 119
Cotton Fabrics Glossary, A ............................................... 71, 92
Cotton Firemen Calculations ................................................. 44
Cotton Mill Building at Soochow (China) ............................... 176
Cotton Mill Building in China .............................................. 13
Cotton Mill Management ..................................................... 87
Cotton Mixing ................................................................. 84, 115, 134
Cotton Spinning and Manufacturing in Japan ...................... 13
Cotton Spinning and Weaving Machinery ............................... 175
Cylindrical Boiler Arranged, The ......................................... 249
Dangerous Petroleum Lamps ............................................... 43
Diamond Jubilee, The ......................................................... 36
Disaster in a Calcutta Jute Mill .............................................. 175
Dobson, Mr. B. A., C. E. ..................................................... 167
Dwellings for Immigrants ..................................................... 246
Elegance in Machine Design ............................................... 62
Engineers’ Dispute, The ...................................................... 309
Examination of Disinfectants, The ....................................... 187
Experimental Study of Belt Laying, An ............................... 138
Forced Draught ............................................................... 218
Gas for Industrial Purposes ............................................... 68
Gas Power ................................................................. 241
Good Times for General Banking ......................................... 210
Great Inland Waterway in the World, The ........................... 241

Gross Engineering Strike and Lock-out ................................. 240
Hints on Pattern making ..................................................... 217
Hints on the Management of the Frame ............................... 240
How Leather Belts Wear Out ................................................ 219
How Sewing Machines are Made .......................................... 235
Improvement of Indian Cottons ............................................ 65
Indian Cooiey, The ........................................................... 216
Indian Hand Loom, The ..................................................... 209
Indian Linen ................................................................. 299
Indian Mills ................................................................. 194
Industrial Confederation in Japan ......................................... 113
Industrial Progress in Japan ................................................... 271
Inventions and An ........................................................... 162
Inventors and Inventions .................................................... 10
Iron in China ................................................................. 198
Japan’s first Exhibition ....................................................... 303
Japanese Ideas of Business ................................................... 133
Japanese News: Bombay and Japanese Yarns ....................... 249
Japanese Travellers ............................................................ 278
Japanning ................................................................. 244
Lancashire Cotton Mills ....................................................... 121
Lancashire Cotton-Makers’ Impressions of ............................ 196
Indian Cotton Mills ........................................................... 136
Leather Dyeing with Coal Tar Colours ................................... 12
Lime Washing of Mills, The ............................................... 161
Limit of Spinning-Drawing Ropes ......................................... 140
Lord Wellcon on Indian Public Works and Industries ............. 168
Loss of Engine Power in Factories, The ................................. 299
M. A. Blowers, M.E., M. P., on Indian Industries ..................... 159
Machinery Business in Bombay ............................................. 111
Machinery in India ............................................................ 11
Manchester Cotton Mills, 1837-1897 ................................... 214
Manchester Ship Canal ....................................................... 238
“Maucylin”—A Remarkable Bust Preventer ............................. 67
Machinery on Cotton Mill Bobbins, The ............................... 40
Miscellaneous Questions and Answers for Engineers Preparing for Examinations ........................................ 214
Mechanics Run Mad ......................................................... 44, 95, 192
Metallic Drawing Rolls ..................................................... 275, 299
Most Interesting Discussion, A ............................................ 297
New Material for Matches .................................................... 190
New Process of Bleaching Cotton, A ..................................... 253
Noise of Bombay, The ....................................................... 256
Notes on Cotton Ginning ...................................................... 300
Notes on the Dyeing and Printing of Cotton at a Mill ............ 225, 265
Notes on the Introduction of Development ................................ 42
Number of Spindles Required in Japan ................................. 113
Obstacles Overcome in Cotton Machinery, An ........................ 192
Oldham Strike, The ......................................................... 210
Paint as a Protection for Iron ............................................... 248
Paint-Removing Powders .................................................... 11
Patent Infringement .......................................................... 295
Petroleum in Sumatra and Java ............................................. 296
"Pinjoras" or Cotton-Opener, The .......................................... 5
Plumber’s Craft and Education, The .................................... 139
Practical Discussions on Cotton Manufacture ......................... 188
Practical Questions and Answers on Weaving ......................... 128
Profits in the Textile Chemical Trades ................................... 203
Pulling a Funnal ............................................................. 49
Question of Saving, The .................................................... 122
Questions and Answers on Cotton Carding and Spinning ......... 215, 242
Questions and Answers on Cotton Spinning .......................... 100, 274, 502
Quickset ................................................................. 140
Ready Made Clothing Trade at Leeds ..................................... 166
Removal of Mineral Oil Stains .............................................. 119
Rheas or Ramies .............................................................. 171
Ring Frame, The ............................................................. 69
Roller Cloth: Its Advantages and Essential Features ............... 20
Roumanian: Another Centre of Petroleum Industry ................. 160
Serves Them Right ........................................................... 173
Silk from Wood Pulp ........................................................ 170
Silk in India ................................................................. 3, 37
Size of Cotton Yarns, The ................................................... 184
Smoke Prevention ............................................................. 67
Soap-making in India ........................................................ 144
Starting of a New Cotton Mill in Shanghai ......................... 185
Steam Engine, The, Its Smooth and Uniform Running ............. 159
Steam Jacketing ............................................................... 91
Steam Turbine Engine ....................................................... 243
Steam Turbine Fan, The ..................................................... 268
Storage of Steam, The ..................................................... 64
Strike in Oldham, The ....................................................... 203
Stoves Slabs ................................................................. 216
Success and the Electric Telegraph ........................................... 38
Superheated Steam Engine Trials ......................................... 116
Technical Education in America .......................................... 294
Technical Education in England ............................................ 76
Textile Industry in Japan .................................................... 143
Testing of Di-infectants, The ................................................ 5
Thrifty Season, The .......................................................... 192
Trade of Bombay in Aloe Fibre ............................................ 282
Trades Unionism ............................................................... 136
Useful Notes on Cotton Machinery ....................................... 210
Utilization of Waste Coal, The ............................................ 208
Value of Outdoor Lamp, A ................................................... 166
Wear of Roads and Horses ................................................... 276
Windmills in India ............................................................ 196
Workshop Accuracy ........................................................... 270
Wool Prices in America ...................................................... 59
World’s Production of Raw Materials, The .............................. 242

MACHINERY AND APPLIANCES.

Acme Duplex Circulating Domes, The ..................................... 18
Ashworth’s Improved Revolving Fret Card ................................ 320
Ashworth’s Improved Revolving Fret Card with Patent Silver Selvage System ........................................... 279
Ashworth’s New Patented “Perfection” driving for the Main Cylinders of Larging Engines ........................................... 320
“Baird Thompson” Air Propellers, The ................................. 112
COMMERCIAL REPORTS AND TRADE NOTES

Ahmedabad Millionares and the Indian Cotton......147
American Trade with China......38
Bombay Chamber of Commerce, The......128
Bombay Market Report......58
Bombay Oil Mills Association, The......93
British Textile Trade......126
British Trade and Commerce......32, 78
Commercial Education in Switzerland......40
Commercial Report......19
Cotton in Burma......39
Cotton Trade of Japan, The......49
Estimate for a Cotton Mill in China and Japan......105
Exports of American Manufactures......173
Exports of Indian Cotton to Antwerp, The......35
Exports of Turkish Yarn......174
Higo and Osaka Market Reports......87
Home Notes......199, 368, 312
Hongkong Market Report......103
Imports of Wool from the Port of Kobe......77
Importation of Turkey Red Yarn......17
Indian Yarn and Raw Cotton Report......258
Jute Trade......152
Japanese Notes......249
Japanese Travellers......278
Lancashire Cotton Trade, The......21
Latest Trade......151
Manchester Cotton Market, The......105
Manchester Ship Canal, The......306
News from Manchester and District......59
Oldham Mill Shire Quotations......105
Personal Items from Britain......103, 138
Personal Notes from Manchester......39
Personal and Trade Notes from Britain......201
Textile Matters in Great Britain 120, 133, 157, 188, 306, 286, 111
Trade of Oldham, The......175
Trade of the Port, The......146
Yorkshire Woollen and Worsted Trades......304
Yorkshire Woollen Trade with India......238

GOVERNMENT ACTS & RULES.

Boiler Inspection in the Bombay Presidency......26
Bombay Boiler Inspection Act Amendment 1891
Duty on Embroidered Cotton Goods......19
Indian Cotton Duties Act, Revised Tariff......39
Values for Cotton Goods......141
Indian Cotton Factories Act, The......26
Indian Tariff Act, The, Revised Values and Rates......201
Working of the Indian Cotton Duties Act in the Bombay Presidency......28

REVIEWS OF BOOKS, CATALOGUES, Etc.

Art of Tracing, The......101
Calendars, Almanacks, Diaries, &c., for 1897......105
Catalogue of Looms......306
Chemical Recipes......22
Connection of Steam Boats......110
Cotton Facts......104
Cotton Manufacture......29
Dictionary of the Coal Tar Colours......104
Draughtsmen's Work......129
Electric Lighting Companies' Directory and Statistics......114
Electric Report......121
Heat and Heat Engines......289
Illustrated Album of Mills......254
Loom Fixing and Weaving......104
Machine and Machine Tools......128
Maclean's Guide to Bombay......173
Manual Training for Indian Schools......151
Modern Brewing and Finishing......229
Notes on Motor Carriages......172
Oracle Encyclopædia......306
Plain Series of Cotton Spinning Calculations......299
Practical Engineer's Book, 1897, The......104
Practical Treatise on the "Otto" Gas Engine, A......114
Raphael Tuck and Sons, Messrs......105
Students' Cotton Spinning......249
T. B. Brownes' Advertisement Press Directory......1897
Textile Americana......254
Times of India Calendar and Directory......1897
Water Companys' Directory and Statistics, 1890......104
Wire Rope and its Appliances......112
Wood Finishing......283
Young Engineer's Guide, The......283

EUROPEAN NOTES:

7, 58, 178, 258.

INDIAN NOTES:

26, 65, 79, 106, 130, 153, 176, 204, 231, 200, 285, 318

INDIAN PATENTS:

$24, 48, 74, 100, 116, 143, 169, 202, 226, 245, 277, 305.
MACHINERY BUSINESS IN INDIA.

The Circulation of the two Editions of the "INDIAN TEXTILE JOURNAL," THROUGHOUT THE TEXTILE AND ENGINEERING DISTRICTS OF THE COUNTRY.

SECURES EXCEPTIONAL ADVANTAGES TO ADVERTISERS, WHICH CANNOT POSSIBLY BE OBTAINED THROUGH ANY OTHER PUBLICATION.

ABSTRACTS FROM PRESS NOTICES.

---

**English Edition.**

TIMES OF INDIA (Bombay).

The journal well supplies a want in textile manufactures and in mechanical engineering, which, we thought, would not be supplied for the next twenty years. It is a credit to all concerned in its production, and we are not surprised that it is increasing the number of its subscribers. Indian readers are content to draw their scientific inspiration from home journals, but it is quite possible, even in the arts and manufactures, that local conditions are often present which cannot be overlooked by textile manufacturers and engineers.

In its leading and correspondence columns, the Indian Textile Journal draws largely upon Indian experience to elucidate Indian problems, and deals with its subjects in a true scientific spirit. This, indeed, is the reason for its existence, and it is this speciality which will secure it a wide circle of readers.

BOMBAY GAZETTE (Bombay).

A journal carried on by men everyone of whom has had an extensive practical experience in one or more branches of manufacture, possesses a foundation in solid knowledge that is one of the best safeguards against an excess of enthusiasm from which even the scientific press is liable at times to suffer.

RAST GOFTAR (Bombay).

Much of its success is due to the personal exertions and technical knowledge of its proprietors, who, we hear, are all practical men, being at one time or another connected with some of our largest cotton spinning and weaving concerns.

INDIA (London).

The leading technical periodical of India.

CAPITAL (Calcutta).

This is a journal worthy of Bombay.

KAISER-I-HIND (Bombay).

It is a pleasure to notice the pains taken to make the journal more interesting and instructive to millowners from month to month. The journal seems to be making a capital head.

IRISH TEXTILE JOURNAL (Ireland).

This cleverly-conducted and first-rate textile journal is every year increasing in favour among the commercial community and others interested in India.

---

**Vernacular Edition.**

BOMBAY GAZETTE (Bombay).

India has enough of vernacular literature of doubtful practical utility, and, as we have often shown, of a character distinctly antagonistic to the best interests of the people, politically and socially. A journal, therefore, devoted solely to the cause of industrial progress, and diffusing practical knowledge of the arts and manufactures, deserves a place in the foremost rank of Native journalism of recognized worth and utility. This may justly be said of the Vernacular Edition of the Indian Textile Journal. The journal will appeal to a large section of the native public engaged in cotton ginning, pressing, spinning, and manufacturing, who do not speak English.

TIMES OF INDIA (Bombay).

Of the innumerable publications issued in the native languages in India, there are few, we should think, that have a greater claim on public encouragement and public support than the journal Messrs. Rutnagur & Co. have decided to issue. The Indian Textile Journal, which has had such a successful and useful career, will, no doubt, with a vernacular edition, increase its scope of usefulness, and tend, to a great extent, to stimulate industrial enterprise among the people.

ADVOCATE OF INDIA (Bombay).

Native mill agents, managers, and factory proprietors who do not know English should find a trade paper printed in their own language of great value and utility to themselves and their subordinates.