

Dept. of Industries
Bombay Presidency

Annual Report 1922-1923.

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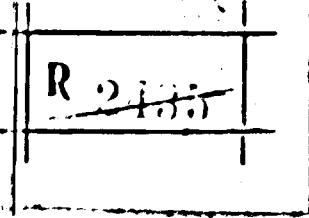
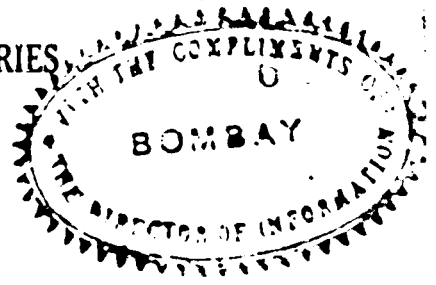
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DEPARTMENT OF INDUSTRIES

BOMBAY PRESIDENCY



ANNUAL REPORT

1922-23

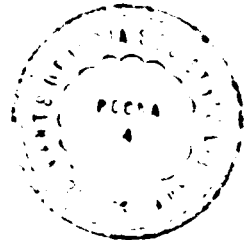
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APPENDIX A.

ANNUAL REPORT OF THE ASSISTANT DIRECTOR OF INDUSTRIES.

Sir,

I have the honour to submit my annual report for the work done in the year 1922-23.

Loan of my services.

My services were again loaned to the Excise Department in the month of March 1923 for making valuation of the Dabhoda Distillery. Some of my time was taken up subsequently in calculations and correspondence pertaining to the valuation work in Bombay office.

My services were also loaned to the Registrar of Co-operative Societies to investigate into the prospects and possibilities of the following proposed Co-operative Societies :—

- Co-operative Cotton Society, Parola.
- Co-operative Dyers Society, Surat,
- Kamgar Co-operative Mills, Bombay.

Technical Advice.

I visited the following places to give technical advice :—

Sorab Dalal Tile Works, Than Road (Kathiawar)—Helped in laying out the factory and advised on power plant and gearing.

Parola Cotton Co-operative Society, Parola (Khandesh)—Discussed the question of cotton ginning and oil milling with the directors and helped them in the selection of site, laying out the plant, etc., at Parola.

Bee-Hive Roller Flour Mill, Ahmedabad—Discussed the question of converting the drive from steam to electric, and gave useful hints with sketches.

Chandra Weaving Works, Ahmedabad—Helped in introducing Calico Printing department for printing sarees, etc.

Swadeshi Weaving Mills, Surat—Helped in introducing Calico Printing department.

Jamna Flour Mills, Bombay—Helped to find out the cause of incrustation in engine condenser and suggested remedy.

Pottery Department of School of Art, Bombay—Visited to see if the old electric motors were still serviceable.

Gamadia Girls Schools, Bombay—Helped in laying out a laundry for girls.

Kamgar Co-operative Foundry, Bombay—Investigated into the cause of high fuel consumption and suggested remedies.

Agricultural Implements Works, Satara—Helped in designing and laying out a foundry and workshops.

Bharat Tile Works, Uran—Gave general technical advice on the most efficient method of working and management.

Amalsad Saw and Oil Mills, Amalsad—Gave general technical advice and discussed the question of the utilization of wood tar produced in the gas producer.

Sanj Vartman Press, Bombay—Helped in installing a large two feeder printing machine.

Gauri Gold and Silver Works, Surat—Gave general technical advice.

Taj Engineering Works, Bombay—Investigated into the causes of bad castings produced, and suggested remedies.

Besides the above, I visited a number of small power users in Bombay such as printing presses, flour mills, ice factories, etc., introducing this department, and offering my help and advice if they needed them.

General.

I visited almost all the makers of carved sandalwood boxes in Surat and explained them the necessity of using good locks, hinges and handles for the expensive boxes and distributed free samples of nickel plated locks and hinges amongst them.

I also went round and visited various places in Surat to select and collect fancy goods for the British Industries Fair.

I wrote and published a short note on silk yarn made at Kashmere Silk Factory at Shrinagar, in some vernacular papers of Surat and Bombay and brought the Indian made silk to the notice of silk merchants. Many persons visited me while I was at Surat in October 1922 asking for more particulars of the Kashmere silk and a big merchant was so pleased with the first consignment he received from Kashmere, at my suggestion that he has now been importing the silk in large quantity and supplying to the retailers.

I demonstrated samples of calico prints made in Holland for African markets to the millowners and calico printers at Ahmedabad advising them to take up the business as Ahmedabad could produce certainly better stuff than the Holland samples.

I also demonstrated to the millowners and others, Japan made samples of various fancy piece-goods suitable for Australian markets. One enterprising millowner seemed much interested in it and took down notes with a view to making and sending a sample consignment to Australia.

I was called to Bombay in November 1922 to help in the arrangement of hand weaving demonstration session of the Red Cross Fete.

My office at Ahmedabad was closed at the end of January 1923 and I was attached to the Bombay office from February 1923.

I had also to do the investigation of several Bombay firms of merchants and manufacturers and verify their statement submitted by personal visit and enquiries, on behalf of Indian Stores Department.

Sizing Machine Demonstration.

In the beginning of the official year the trial of the sizing machine at the Dhananjaya Hand Loom Factory of Ahmedabad not having proved successful owing to the lack of experience and practical knowledge on the part of the demonstrator, he was deputed to go to Bangalore to see and gain experience of the actual working methods of the machine at the Mysore Government Weaving Institute. He stayed there for more than a month. On his return, however, the proprietors of the Dhananjaya Factory declined to have the sizing machine tested any more. It was therefore taken to Surat and loaned to Jamshedjee Patel Weaving Factory. The machine worked at this factory for about a fortnight only but did not give satisfaction owing to the Demonstrator having returned from Bangalore without gaining any more experience and training.

The Surat demonstration had to be cut short, as this and other winding and twisting machines had to be taken to Bombay for the Red Cross Fete, where the sizing machine was not put to any actual and continuous test but its working was simply shown and explained to the visitors.

When the machine was being demonstrated at Ahmedabad and Surat the proprietors of the Swadeshi Hand Loom Factory at Amalsad had come to see it and had asked for the loan of the machine for trial in that factory. I therefore visited their factory in January 1923 and having satisfied myself that proper facilities for the actual trial of the sizing machine existed there, it was decided to loan the machine to the Amalsad factory. From my past experience of the working of the machine I had come to the conclusion that only a mill trained man having experience of a power driven sizing machine of a cotton mill could handle and work the machine efficiently, as there were several defects in the machine which could not be removed without the help of a mill trained man. I therefore insisted on having a mill trained sizing jobber in charge of the machine. An experienced man was therefore

recruited from a mill in Ahmedabad and appointed as a Demonstrator and sent to Amalsad. After overhauling the machine thoroughly and introducing some alterations and improvements the machine was put to a thorough working test, a report of which was submitted by me on the 28th April 1923. This report was afterwards given wide publicity by having it published in many vernacular papers.

The machine was afterwards taken to Surat and demonstrated in working conditions at the Industrial Exhibition held there from 20th May to 5th June. The demonstration proved a complete success at the Exhibition as a large number of people came specially to see it owing to the wide publicity that was given to the report of its test at Amalsad, and they spent a long time in the demonstration pavilion seeing and discussing its working.

I wished to have the demonstration extended in Surat as I believed, it had not been sufficiently demonstrated in a place like Surat which is considered the home of handloom industry in Gujarat ; but owing to the shortage of funds nothing could be done. The machine has however been loaned to the Pioneer Loom Factory at Ankleshwar to be tried at their own expenses.

Calico Printing Demonstration.

The demonstration of Calico Printing proved very successful in Ahmedabad. The Chandra Hand Loom Factory actually opened a department in saree printing and has been doing a good business, and I was informed that large orders from Broach and Bombay and other places were received for the printed sarees by the Chandra Factory.

I had suggested in my previous reports that the help and co-operation of Sir J. J. School of Art was necessary in introducing and creating a taste for good artistic designs amongst people. The School of Art was therefore approached who prepared and supplied in black and white some very good original designs for saree borders. These were taken to Ahmedabad and some blocks were engraved according to the new designs, and samples of sarees printed from them, were demonstrated in Ahmedabad and Surat. They were so much appreciated that the Chandra Weaving Factory and other calico printers asked for a loan of the blocks to copy from. The original designs as prepared and supplied by the Art School were in black and white only, and the colour schemes for some of the designs as selected and adopted by the demonstrator and the printers were not quite effective from an artist's point of view. I therefore visited Captain Solomon, the Principal of the School of Art, in company with the demonstrator in October 1922 and again with Mr. Chandulal, the proprietor of the Chandra Weaving Factory of Ahmedabad, in July 1923, and discussed the colouring schemes to be adopted for various designs at great length, and Captain Solomon was kind enough to make very useful suggestions and promised to submit a full report on the subject.

I have, etc.,

(Signed) F. E. BHARUCHA,

Assistant Director of Industries.

APPENDIX B.

COMMERCIAL AND INDUSTRIAL ENQUIRIES 1922-1923.

	Subject of Enquiry.	Number of enquiries.
1.	Acetone. Dealers in —	1
2.	Acid. Acetic „ „	1
3.	„ Citric. Manufacturers of — from lemon juice	1
4.	„ Jars. Makers of — in India	1
5.	„ Sulphuric. Manufacture and importers of —	2
6.	Alcohol, Industrial. Manufacture of —	1
7.	Alkali deposits in Sind. Information re —	1
8.	Alumina. Manufacturers of —	1
9.	Aluminium. Ingot, sheets, Manufacturers of —	1
10.	Apparatus. Scientific, Dealers in —	1
11.	Apprentices. Admission into cotton mills	1
12.	Artimesa Maritima. Purchasers of —	1
13.	Art ware. Dealers in —	1
14.	Atmoid (Kieselguhr). Supply of —	1
15.	Barium Salt. Uses of —	1
16.	Barytes. Sources and Manufacturers of —	2
17.	Battery plates. Manufacturers of — in Bombay	1
18.	Bauxite. Sources of —	1
19.	Benzole. Dealers in —	1
20.	Bleaching powder. Consumers of and demand for —	2
21.	„ „ and caustic soda. State aid for manufacture of — by electrolytic process	1
22.	Bobbin plant. Information re — a proposed —	1
23.	Bone Mill. Estimate for a —	1
24.	Bone Industry. Assistance for —	1
25.	Bone Mills. Information re — in Central India, Rajputana and in the Bombay Presidency	2
26.	Boring Machine. Cost of —	1
27.	Bottle Stoneware. Suppliers of —	1
28.	Bricks — fire. Manufacturers of —	1
29.	Brushes. Sources and supply of bristle for —	1
30.	Building stones. Suppliers of —	1
31.	Buttons. Manufacture of —	1
32.	Button making. Machinery for —	3
33.	„ „ Information re use of cocoanut waste for —	1
34.	Calcined Magnesia. Suppliers of —	1
35.	Calcium citrate. Manufacture of —	1
36.	Calico prints. Supply of —	1
37.	Camphor. Dealers in —	1
38.	Carbuncles. Dealers in —	1
39.	Carpet. Manufacturers of —	1
40.	Casein. Exporters and Importers of —	5
41.	Casein Glue. Importers of —	1
42.	Castings. Iron and Brass. Manufacturers of —	1

Subject of Enquiry.	Number of enquiries.
43. Catechu. Manufacture in Bombay of —	1
44. Caustic soda. Importers of —	1
45. Cement. Dealers in —	1
46. Charcoal — animal. Suppliers of —	1
47. Chemicals. Suppliers of —	1
48. China Clay. Buyers and importers of —	2
49. „ „ Use of — in crayons	2
50. China ware. Manufacturers of —	1
51. Cigar-lighters. Dealers in —	1
52. Cinematograph. Commercial possibilities of — academy of dramatic art —	1
53. Cinematograph. Manufacture of — films	1
54. Coal. Indian sources of —	1
55. Coal Tar. Manufacturers of —	1
56. Coir fabrics. Dealers in —	1
57. Coir mats. Manufacturers of —	1
58. Ccke. Importers of —	1
59. Common salt. Refining of —	1
60. Condensed milk. State aid for the manufacture of —	1
61. Copper Ore. Sources of —	1
62. Cotton. Statistics of production of raw and manufactured — in Hyderabad State	1
63. Cotton bedspreads. Manufacturers of	1
64. „ Belting „ „	1
65. „ Durries „ „	1
66. „ Ropes „ „	1
67. „ Sewing thread. Manufacture and suppliers of —	2
68. „ Spinning and Weaving Mills — in the Bombay Presidency	1
69. Crucibles. Manufacturers and dealers of plumbago —	2
70. Cutlery. Dealers in —	2
71. „ Industry at Wazirabad — Information re —	1
72. Dairies. Names of —	1
73. Directories. Enquiry re — trade —	1
74. Dyeing concerns in Bombay. Names of —	2
75. Dyes. Information re — supply and prices and dealers in —	7
76. Electric energy. Rates of — for industrial purposes	1
77. Fairs Information re Organisers of — and Melas in the Bombay Presidency	1
78. Felt. Manufacturers of — in Bombay	1
79. Fertilisers. Manufacturers and suppliers of —	1
80. Fibres (cocoanut). Uses of — refuse	1
81. Fireworks. Importers and suppliers of — in the Bombay Presidency	1
82. Fisheries. Literature on —	1
83. Flax. Manufacturers of — in India	1
84. Flour. Names of — merchants in Bombay	1
85. Foundries. Brass and Iron — names of	1
86. Gins (Cotton). Manufacturers and Suppliers of hand—	2
87. Glassware. Manufacture and Importers of —	2

Subject of Enquiry.	Number of enquiries.
88. Glassware and Glass. Literature on —	1
89. Glaubers Salt. Manufacture of —	1
90. Gold and silver lace and thread. Information re import of —	1
91. Gold and Silver Thread. Literature on — Industry	1
92. Gold thread. Suppliers of —	1
93. Grasses. Dealers in African —	1
94. Gum. Manufacturers of —	1
95. Gypsum. Sources of —	1
96. Hats. Manufacturers of pith — in the Bombay Presidency	1
97. Hemp. Training in — and starch industries	1
98. Hosiery. Suppliers of —	1
99. Husk. Uses of Kardi — as fuel in Boilers	1
100. Ice. Information re — factories in India	1
101. Industrial Art Pattern Books — production of —	1
102. Inks. Dealers and manufacturers of printing —	2
103. Ink. Information re manufacture of — stencil, printing and marking	1
104. Instruments — Musical. Manufacturers of Indian Stringed and Musical	1
105. Iron ore. Sources of —	1
106. Jewellery Manufacture. Training in —	1
107. Kerosine tinning factories in Bombay	1
108. Laces. Machinery for making boot and shoe —	1
109. Lamp black. Manufacturers of —	1
110. Lanterns (Hand). Information re import of —	1
111. Leather and leather goods. Manufacturers of —	1
112. Leather (Crome). Demand for — in Bombay	1
113. Lime Stone. Sources of —	1
114. Liquor Vats. Information re various materials used as coating for wooden —	1
115. Looms (Power). Information re —	1
116. Machinery. Miscellaneous enquiries re —	6
117. Machinery for clay manufacture	1
118. Magnesia. Manufacturers of —	1
119. Magnesium Chloride. Import of —	1
120. Manganese. Information re—Analysis	1
121. Manganese. Dealers in —	1
122. .. Deposits, etc.	4
123. Manjit. Suppliers of —	1
124. Manures. Manufacture of artificial —	1
125. Match Manufacture. Information re Literature, woods, chemical machinery and sites suitable for — Miscellaneous enquiries	25
126. Matting. Sources and supply of fine coir for wrapping	1
127. Metal. Manufacture of stationery articles	1
128. Minerals. Literature on —	1
129. Nitrate of potash. Dealers in —	2
130. Nuts. Supply of Dhupa — and butter	1
131. Ochres. Dealers in —	1
132. Oil Cakes (Mahuwa). Utilization of —	1
133. Oil cloth factories. List of —	1

Subject of Enquiry.	Number of enquiries.
134. Oil cotton seed. Extraction of —	1
135. Oil engines. Importers of —	1
136. Oil engines. Suitable type of — for industrial School	2
137. Oils, Essential. Manufacturers of —	2
138. Oil Expert. Services of an — for oil extraction plant	1
139. Oil and Gas engines. Imports of —	1
140. Oil, Ground nut. Test of —	1
141. Oil, Kapok seed. Manufacturers of —	1
142. Oil, Lemon grass. Exporters of —	1
143. Oil Linseed. Manufacturers of raw and boiled —	1
144. Oil Mills. List of — in Central Provinces and Rajputana	1
145. Oil, Mohwa. Manufacturers of —	1
146. „ „ Process for improving —	1
147. Oil Paints. Suppliers of —	1
148. Oil Palm. Importers of —	2
149. Oil Paraffin. Manufacture of —	1
150. Oil Rape. Deodorization of —	1
151. Oil Refining. Assistance to students for training in —	1
152. Oil Turkey Red. Manufacturers of —	1
153. Oil Vegetable. Adulteration of —	1
154. Oxygen. Suppliers of —	1
155. Paints. Information re manufacture of —	2
156. Paper. Raw Materials and plant for Strawboard manufacture	1
157. Paper. Statistical information re the manufacture of —	1
158. Paper. Manufacture of pulp from bhabhar and munj grasses	1
159. Paper Mill. Estimate for erecting a —	1
160. Paper Mills. —in India. List of —	1
161. „ „ Proposed erection of — in Lahore—information re —	1
162. Patents and designs. Procedure for obtaining —	1
163. Pencils. Manufacture of lead and coloured	1
164. Phenyl. Effective substitute for —	1
165. Pickers. Buyers of hide cuttings, broken —	1
166. Picture frame dealers in Bombay	1
167. Plaintains. State aid for dried —	1
168. Polish. Particulars re manufacture of white ivory —	1
169. Potassium Bisulphate. Information re —	1
170. „ Chlorate, Manufacturers of —	1
171. Printing block labels on tins	1
172. Printing presses. List of — in India —	1
173. Pumps — power. Suppliers of —	1
174. Railways. List of smaller and light —	1
175. Rebate on Rubber products	1
176. Red lead — Information re manufacturers of —	3
177. „ „ Dealers in —	1
178. „ „ Uses of —	1
179. Refrigerating apparatus. Coldstorage of fish	1
180. Resin. Suppliers of —	1

Subject of Enquiry.		Number of enquiries.
181.	Rope manufacture. Use of cocoanut waste for —	1
182.	Rosha grass. Lease for distillation of —	1
183.	Salt. Supply of —	1
184.	Saltpetre. Refiners of —	1
185.	Salt Works in the Bombay Presidency	1
186.	Sand for glass making. Suppliers and importers of —	1
187.	Sandalwood. Export of —	1
188.	Sheets (Metal). Consumers of —	1
189.	Shoe. Suppliers of nails, lasts, etc., for manufacture of —	1
190.	Silk Artificial. Information re manufacture of — in India	2
191.	Silk. Dealers in — and manufacture of — in India	2
192.	Silk — raw. Suppliers of —	1
193.	.. Sources of supply of Indian Corah —	1
194.	.. Sources of supply of handspun and hand woven —	1
195.	.. Spinning and Weaving factories. Information re — Industry in India	1
196.	.. Supply of Eri — yarn	1
197.	.. Twisting machine. Information re —	1
198.	Slate and slate pencils. Manufacture of — in India	1
199.	Soap. Preparation of washing and toilet —	1
200.	Soda ash. Importers of —	1
201.	.. Bicarb.	1
202.	.. Silicate of	1
203.	Spirit, motor. Extraction of —	1
204.	Spirit, rectified. Dealers in —	2
205.	Starch and Fibre Industries. Training in —	1
206.	Stealite Quarries. Information re —	1
207.	Steel dies and moulds. Assistance in manufacturing —	1
208.	Steel Importers in Bombay City	1
209.	Sugar factories. Agencies in Bombay Presidency for —	1
210.	Sugar factories. List of Indian —	1
211.	Sugar Manufacture. Schools giving training in and Literature on —	3
212.	Sugar and Molasses. Markets in Bombay Presidency	1
213.	Sugar refineries. Information re Indian —	1
214.	Tailoring Schools in India	1
215.	Tanneries. List of —	1
216.	Tanning. Assistance in —	1
217.	Tanning. Literature on —	1
218.	Tanning factory. Request for lease of land for erecting a —	1
219.	Tanning Materials. Prices of —	1
220.	Tanning Process. Chrome alum in —	1
221.	Tariff. Question of rebate on duty on improved yarn	1
222.	Tariff rates. Revision of —	1
223.	Tea dealers in Bombay	1
224.	Tea. Importers of — from China	1
225.	Technical and Industrial Institutions. Information re —	13
226.	Textiles. Dealers in —	1
227.	Thymol. Manufacturers of —	1

Subject of Enquiry.		Number of enquiries.
228.	Tiles, cement. Information <i>re</i> machinery, etc.	1
229.	Tiles, flooring. Information <i>re</i> the prospects of industry	1
230.	Timbers for building and cabinet making	1
231.	Tin. Suppliers of corrugated sheets	1
232.	Tins. Manufacturers of —	1
233.	Trade Marks. Rules <i>re</i> registration of —	1
234.	Turmeric. Suppliers of and dealers in —	2
235.	Varnish. Dealers in —	1
236.	„ Information <i>re</i> —	1
237.	„ Manufacturers of —	1
238.	Waggon and Carriage Department. Training in —	1
239.	Wattle bark. Suppliers of —	1
240.	Wax (Sugarcane). Suppliers of —	1
241.	Weaving factories (handloom). List of —	1
242.	Wood. Supply of — for furniture making	1
243.	Wool Spinning and Weaving. Assistance <i>re</i> —	1
244.	Wool Spinning machines. Information <i>re</i> —	1
245.	Woollen Mills. Names of —	1
246.	Woolen Mills. Possibilities of the industry in India of —	1
247.	Yarn. Importers of —	1
248.	„ for Hosiery. Suppliers of —	1
249.	„ Mills Manufacturing —	1
250.	„ Suppliers of handspun cotton —	1
251.	Zinc ashes. Manufacturers of —	1
252.	Zinc Oxide. „ „ —	1

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