

Technical and Industrial Education

IN THE

Bombay Presidency

FINAL REPORT

OF THE

COMMITTEE APPOINTED BY GOVERNMENT

1921-22





Technical and Industrial Education Committee, 1921–1922.

LIST OF MEMBERS:

Sir M. VISVESVARAYA, K.CIE, MInstCE, DSc. (Chairman). R D. BELL, Esq, CIE, MA, BSc, ICS RAHIMTOOLA CURRIMBHOY EBRAHIM, Esq (up to 2nd May 1921). LESLIE FLATT, Esq., B Sc. (Lond), A M I C E, A M I Mech E. Dewan Bahadur K R GODBOLE, MCE, MLC K. R. KANITKAR, Esq , M A , B Sc J A KAY, Esq (from 30th May 1921) / A. M. MASANI, ESq., M.A., B.Sc. F. J PAGE, Esq, OBE, M I Mech E J C K PETERSON, Esq', C I E F. Power, Ésq F. O. J. Roose, Esq , M I Mech E , M I E E , F C S 'A. J. TURNER, Esq., B Sc (Lond), F I.C. K. H VAKIL, Esq, M Sc Tech (Manc), FIC, B.A, FCS. Lt.-Colonel G H WILLIS, CIE, MVO., RE, President, the Institution of Engineers (India), M I Mech E, M I E. (Ind) F. W MARRS, Esq, MA. (from 10th February to 5th July

1921, Member only after latter date)
G. N GOKHALE, Esq, B Sc, L C E (from 6th July 1921 Also Member from 17th August 1921). Member and Secretary.

T9(A).231.N2t F2

16837

CONTENTS.

		~		Pages.
Majority Report and appendices	•••	3	•••	1-52
Minority Report	•••	•••	•••	53—117
Appendices to the Minority Report	•••			119192

MAJORITY REPORT.

CONTENTS OF MAJORITY REPORT.

PARAGRAPHS					PAGES
	CI	HAPTER I			
111.	HISTORICAL	••	***	•••	1—5
	CB	APTER II.			
12-20.	THE PRESENT POSITION				5-9
					, 0 -0
	CH	APTER III.			
21-32.	OUTLINE OF SCHEME	•••	•••	••	9—14
	' OT	APTER IV.			
33-42.				D 4 D D	14 10
<u>4</u> 2.	TECHNICAL EDUCATION, O	F THE UNIVE	ERSITY G	KADE	14-19
	CH	APTER V.			
43-51.	TECHNICAL INSTITUTES	,			19—22
	1				
		APTER VI.	-		
52-63.	MIDDLE TECHNICAL AND	INDUSTRIAL	SCHOOLS	· · · · ·	22-26
	CH	APTER VII.		r	
64.		PES OF TEC		AND TNDI	STRIAT.
0.1	EDUCATION		•••		26-36
65—68.	I.—Education of half-tu	mers		· 26-	
69—83.	IITraining of boys an		ın large		
<i></i>	shops and factorie				32
8485.	IIIWorkshops of the S		Bombay		
	IVOther Industrial Sci	hools	•••	33-	
92.	VCriminal Tribes	•••		•••	85
93—96.	VICottage Industries	•••	••• 、	35-	
· 97.	VIISupplementary	50.00	***	***	36
	CHA	PTER VIII			X
98	INSTITUTIONS FOR GIRLS	AND WOMEN			37-40
, -	-	APTER IX.			
108	CONTROL AND ADMINISTI	BATION	•••	· · · · ·	40-44
	`	IAPTER X.		J	
101 104			_ m		
121-124.	GENERAL EDUCATION IN TRIAL TRAINING	RELATION T	O TECHI	NICAL AND	44-46
					14 40
	CHA	APTER XI.			
125—130.	SUMMARY OF PROPOSALS	***	•••	- 441	46-48
	,				
	· APP	ENDICES.			
A.	Extracts from Note by Mr.	. Leslie Flatt		***	49-51

B. Note by the Educational Secretary, Y. M. C. A., Bombay ... 52

z 1989-d

TECHNICAL AND INDUSTRIAL EDUCATION IN THE BOMBAY PRESIDENCY.

FINAL REPORT OF THE COMMITTEE APPOINTED BY THE GOVERNMENT OF BOMBAY (1921-22).

ERRATA.

Page	Paragraph	Line		
55	3	1	For "to" read "the"	
69	35	4	For "the other" read "other"	
70	36	8	Insert "up to 14" after the word " principle "	
72	43	3	For "they" read "the industries"	
72	43	2 1	Delete "already"	
77	48	33	For "is" lead " are "	
79	54 (2)	1	Delete " the "	
81	56	7-8	For the first sentence of the sub-paragraph <i>read</i> "Then are a railway workshop at Karachi, a number of private workshops and small ship building yards"	
82	58	8	Add comma after " industry "	
82	59	3	For "Institutes" read "Institute"	
83	62	1	Delete " the "	
84	į i	2	For "the factory "read " a factory " and for " the school ' read " a school "	
85		13	Delete "the"	
89	79	10	Delete " the "	
92	89	4	For "manufacturer ' read "a manufacturer"	
92	89	5	Tor "carpenter" read "a carpenter '	
9 3	91	8	Substitute "Types should be evolved " for "There should be types "	
95	97	40	For "to work a living" read "to work for a living" at add a semi-colon after the word "given"	
96	96	10	For "turn out" read "equip"	
99	106	11	For "who will attend " read " to attend "	

18 150

SOMBAY PERIOD AT THE GOVERNMENT CENTRAL PRESS.

(3) Whether view of the financial difficulties of Government at the present time and the expenditure involved in printing, it is necessary that any Appendices should be printed with the Final Report.

4. The Committee then considered the draft of the Final Report before them. Mr. Bell observed that he saw no hope of reconciling the divergent views of the Members He was unable to accept the draft before them and express differences of views in a supplementary statement. He was in favour of the majority writing an independent Report of their own. He accepted substantially the first four Chapters of the draft before them. Chapters V to VIII and X contained views which were against those expressed in the Supplementary Statement. He could not express an opinion on Chapter IX.

Mr. Page presumed that it was arranged at the last meeting that the minority would put forward their own views, that the majority would absorb from them as many points as possible, and for the rest leave the minority to write their report. As an instance he pointed out that it was proposed in the draft before them that as people in the villages had nothing to do for five to six months in the year, they should be taught some cottage industries during the slack season, such a suggestion, he thought, could be accepted by the Majority. The main head where they diverged was that artisans should be given manipulative skill in factories and not in workshops attached to schools. Mr. Page therefore expressed his desire to have alternate Chapters, wherever necessary.

5 At this stage Mr. Bell wanted to know if there were any members who were prepared to sign the draft as placed before them without any further changes and all the members present who formed the Minority in the Interim Report expressed their willingness to do so. In order to give the others, who formed the Majority, a chance to talk over amongst themselves and decide what course they should adopt, the Minority members withdrew from the meeting. On reassembling after some time it was arranged that the Majority should write their own report, incorporating portions from the minority Report with which they agreed and bring it before the Committee at a meeting to be held on Monday the 6th February 1922. The Minority would put in the draft framed by them, with any alterations required, as a separate independent report of their own. Mr. Bell on behalf of the Majority thaked the drafters of the Report placed before them for the trouble they had taken in writing it.

6. It was pointed out that it had already been decided by desire of the Majority, in reply to a Circular from the Secretary, that all the Appendices mentioned in the draft (with the exception of the Interim Report since added) should be printed with the Report. Mr. Bell wished to reopen the question mainly for reasons of economy.

Mr Marrs moved the following resolution seconded by Major Willis :---

"That the whole of the Appendices be omitted from the printed report, with the exception of No. D, headed "Statistical Statement of Colleges and Schools connected with Technical and Industrial Education for the year 1919-1920"

The Chairman observed that the cost of printing the Appendices was imappreciable when compared to the money value of the time spent by the members in the work and the total expenditure incurred by Government on the Committee', and that it was important to publish the proceedings of the Committee as well as the notes written by the various Members for the information of the public. Even if the Majority were unwilling to include them as Appendices, there was nothing to prevent the Minority from printing them as part of their report. As the other members agreed with this opinion, Mr. Marrs' motion was not put to the vote.

XX

The twentieth Meeting of the Committee was held on Monday the 20th March 1922

2. In opening the proceedings the Chairman observed that they met again after more than three months. In that interval the Majority Report was prepared under the supervision of Mr Bell and printed proofs of that Report were before them They had met to sign the reports. He expressed a hope that it would not be necessary to meet again.

* * * * * * *

4 Dewan Bahadur Godbole proposed that the new Technological College should be located near Ambarnath, in view of the fact that that area had been reserved for factory sites in the Bombay Dovelopment Scheme He thought that Ambarnath would in time become the main industrial centre of Bombay and that it would be possible to get land very cheap at present Mr. Vakil wished to have more information on the subject, but was not against considering the proposal. It was decided that in the Minority Report, Ambarnath may also be suggested as a Likely site for the new College. 5. A letter from Lieut.-Colonel Willis was read in which he gave his opinion that the so called "Majority Report" was the report of the Committee, and that the Minority Report should be treated as a note of dissent. Mr. Bell also raised other points as to whether the whole report should be published together in one volume or separately in two volumes and suggested certain changes in the arrangement of the appendices.

The Chairman remarked that they had followed the example of a previous report which was placed on the table and which he thought was on all fours with the present report and he considered that that precedent might be followed.

After some discussion it was agree d-

- that the Final Report should be published in one volume consisting of the Majority Report with its Appendices placed first, followed by the Minority Report and its Appendices;
- (2) that the Majority Report should be finally passed for the press by Mr. Bell, and
- (3) that any Members who wished to make any verbal alterations in their notes or in the minutes should be allowed to do so in the course of the next day or two.

6. Mr. Page suggested that the heading of Appendix F should be changed so as to make it clear that it was a representation from the Indian Merchants' Chamber and Bureau.

7. The Majority and Minority Reports were then signed by the members present, Dewan Bahadur Godbole signing subject to remarks in a separate minute which he promised to send in.

8. The Proceedings of the Committee terminated with a vote of thanks to the Chairman after placing on record the Committee's appreciation of the services of the Secretary, the Assistant Secretary and the staff.