EAST INDIA (INDUSTRIAL COMMISSION, 1916-18).

MINUTES OF EVIDENCE ¹⁵³⁴⁵

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INDIAN INDUSTRIAL COMMISSION,

1916-18.

VOL III.-MADRAS AND BANGALORE.

Presented to Parliament by Command of Ilis Majesty.



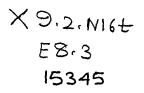
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List of Witnesses.

Serial Order.

501181 01401.		
No.	Name.	Page,
	Madras.	
200	ME. J. F. JONES, F R.S., MIE.E., Chief Engineer, Madras Electric Supply Corporation and Madras Electric Tramways, Limited.	1-10
× 201	ME W. A. BLARDSELL, Messrs. Beardsell & Co , Madras	11-18
202	MB. A. GHOSE, F.C.S., F.G.S MI.M.E., Mine owner and Economic Geologist, Gooty.	18—83
203	MR. IAN SOOTT MACKENZIE, General Manager, South India Industrials, Limited, Madras.	3 1 - 51
204	RAO BAHADUR P. THEAGABAYA CHETTY, Merchant and President, Southern India Chamber of Commerce, Madras	5168
205	HON'BLE SIR FRANCIS J E SPRING, KCIE, Chairman and Chief Engineer, Port Trust Board, Madras.	6378
J ₂₀₆	MR. K. HANUMANTHA RAO, Headmaster, Andhra Jatheeya Kalasala, Masulipatam.	78—88
207	HON'BLE RAO BAHADUR K. SUBYANARAYANAMURTI NAYUDU, Proprietor, Messrs. Innes & Co., Coognada.	88 —92
208	ME. K. SUBYANABAYANA RAO, Proprietor, the Indian Commerce and Industries Company, Rice Mill-owners, etc., Madras.	95 —101
209	DR. J L. SIMONSEN, Professor of Chemistry, Presidency College, Madras.	102-117
210	MR. N. HAUSSMANN, Manager, Aska Sugar Works and Distillery, Aska.	117-124
211	MR. M. GANGARAJU, Secretary and Treasurer, the Krishna Jute and Cotton Mills Company, Limited, Filore.	124-128
4 . ²¹⁹	MB. V. ARUNAGIRI NAYUDU of Messrs. C Abdul Hakım & Co., Skin Merchants and Exporters, Madras.	128—137
J 218	M. R RT. DIWAN BAHADUR L D. SWAMIKANNU PILIAI, Avargal, Registrar of Co-operative Societies, Madras.	187-143
214	MR. H. T. WALTEES, Chief Inspector of Factories, Madras Presidency .	144
215	MR. C. A. INNES, I.C. S., Director of Industries, Madras	147-151
V216	DE. F. MARSDEN, Ph.D., M.Sc, Dyeing Expert to the Government of Madras.	151
V 217	ME. C. S. RAMACHANDRAN, Supervisor, Department of Industries, Madras	165—174
4 218	ME. N SUBRAHMANYA AYYAR, Weaving Assistant, Department of Industries, Madras.	174
J 219	Mr. H. ANANTASUBBAHMANYA AYYAR, Proprietor, South India Candle Works, Madras	188—190
220	Ma. A. KRISHNAYYA, Acting Deputy Tabsildar, Sullurpet, Nellore District.	190—192
221	SIR CLEMENT SIMPSON, Messre. Binny & Co., Limited, Madras	192-209

Serial Order-contd.

No.	, Name.	Page.
	<i>Madras</i> -contd	
222	MR R. P. GILL, of Messrs. R. P. Gill & Co., Guntur	210-21
223	MR E J HAWKINS, General Manager, the Indian Aluminium Company, Limited, Madias	212—21
224	MR. A F. BUCHANAN, firm of Messrs. Parry & Co., Madras	215
225	MR W NEILSON, Agent, East India Distilleries and Sugar Factories, Lumited, Nellikuppam.	215
226	MR J W KEITH, Agent, East India Distilleries and Sugar Factories, Limited, Ranipet	215
227	THE MADRAS TRADES ASSOCIATION, Madras, represented by Messre R J. C Robertson, A. T. Luker, and A M Macdougall.	215-22
/ 228	DR G SLATER, Professor of Indian Economics, University of Madras,	224-22
229	HON'BLK MR. J. O ROBINSON, Managing Director, Messrs Spencer & Co, Ltd., Madras.	229—28
230	MR P. M. LUSHINGTON, Conservator of Forests, Southern Circle, Madias Presidency.	232—24
231	MR H B BRYANT, Conservator of Forests, Central Circle, Madras .	242-25
282	THE UNITED PLANTERS' ASSOCIATION OF SOUTHERN INDIA (represented by Mr. J. S. Nicolls, Chairman, and the Hon'ble Mr. E. F. Barber).	251 - 28
2 33	ME. VIDYA SAGAR PANDYA, Secretary, the Indian Bank, Limited, Madras	255—27
234	SIR W B. HUNTER, Secretary and Treasurer, Bank of Madras	275—29
235	ME F G WARBBOOK, A.M I.M E, Director, Messrs Massey & Co, Madras	295 — 30
236	ME G L. W. O'BRIAN, Senior Inspector of Steam Boilers and Prime Movers, Madras	303
237	THE MADRAS CHAMBER OF COMMERCE (represented by the Hon'ble Mr. Gordon Fraser of Messie Best & Co), Madras	3 0 4— 81
✔238	MR. G. A CHAMBERS, the Chrome Leather Company, Pallavaram	815
/ 239	ME T M DAIVASIKHAMANI ACHARI, Secretary, Visvakarma Mahajana Conference Committee, Madras.	324—88
240	MR. P. PARTHASABATHI NAVUDU, Landlord and Mirasidar, Saidapet	832-88
241	LIEUTENANT-COLONEL W D HAYWARD, I M.S., Medical Store-keeper to Government, Madras.	3 36—34
√ 242	HON'BLE COLONEL W M ELLIS, R.E. CIE, Chief Engineer for Irrigation, Madras.	349
248	REV. J. CAIN, Church Missionary Society, Dummagudem	849—85
244	MB. T SAMSON, Proprietor, Dhaugam Oil Mill, Ganjam District	351—85

Serial Order-contd.

No.	Name	Page
	Calsout	
245	MR. F. A. Cox, Engineer and Manager, Messrs. George Brunton & Co., Cochin	358—35
246	MR. G F. BAKER, Manager, Henke's Tile Works, Feroke	357—36
247	MR J. SADASIVA AYYAR, District Forest Officer, Mangalore South, South Kanara.	864—87
248	ME. V. GOVINDAN, B.A., F.Z S, Assistant Director of Government Fisheries, Madras.	870-88
249	SIR FREDERICK NICHOLSON, K.CIE, Honorary Director of Fisheries, Madras.	389-43
	Coumbatore.	
250	MR R. D. CONNEIL, Works- Managei, the Magnesite Syndicate, Limited, Suramangalam.	434-43
251	DR. W H. HARRISON, Government Agricultural Chemist, Coimbatore .	486-44
J 252	MB. A. RAJAGOPALA CHETTIYAB, Cloth Merchant, Manojappa Chavadı, Papanasum Taluk.	44244
258	BAO BAHADUR P SOMASUNDARA CHETTIYAR, Agent, the Malabar Spinning and Weaving Company, Limited, the Calicut Tile Com- pany, the Kaleswar Mills, Limited, Coimbatore.	4+3-41
✔254	MR. N. GIRIYA CHETTIYAR, Cloth Merchant, Combatore	444-44
255	MR W. E. WINTE 2, Director, Messrs. Stanes & Co., Combatore	448—45
256	MR. C E. C. FISOBER, Principal, Madras Forest College. Coimbatore .	454-46
257	DR. C. A. BARBER, Government Sugarcane Expert, Agricultural College, Coimbatore	462—47
258	RAO BABADUR M. ARUMUGAM PILLAI, Retired Deputy Collector an'd Agent, Sri Chithambara Vinayakar Mills, Limited, Koilpatti.	47648
259	ME. A. R. RANGACHARI, Honorary Secretary, Madura Dyers' Associa- tion, Madura.	48048
J 260	REV. C. DAWSON, Superintendent and Manager, Wesleyan Mission Industrial School, Karui.	486-49
261	ME G. A. D. STUART, I C.S., Director of Agriculture, Madras	49051
262	MB. R. D. RICHMOND, Deputy Conservator of Forests, the Nilgiris	515-52
263	MR. C. D. MCCARTHY, Conservator of Forests, Western Circle, Madras Presidency.	52052
264	MR. K. S. SRINIVASA PILLAI, TANJORO	52352
	Bangalore	
265	COUNCIL OF THE INDIAN INSTITUTE OF SCIENCE	524-52
266	Sik ALFERD G. BOURNE, K.C.I.E., D.S., F.R.S., Director, Indian Institute of Science, Bangalore,	52652

Serial Order-concld.

No	Namo	Page.
•	Bangalore—contd.	
267	DE. A HAY, D.Sc., M.I.E E, Professor of Electro-Technology, Indian Institute of Science, Bangalore.	528—536
268	DR. G J. FOWLER, DSc, FIC., Professor of Applied Chemistry, Indian Institute of Science, Bangalore	536—549
269	DR J. J. SUDBOROUGH, PH.D., D Sc., F.I.C., Professor of Organic Chemistry, Indian Institute of Science, Bangalore.	550—551
270	DR. H. E WATSON, D.Sc., AI.C., Professor of General Chemistry, Indian Institute of Science, Bangalore	552—555
271	ME G A. MAHAMADI, BA., F.C.S., Soap Expert with the Govern- ment of Mysore.	555—561
272	ME N. S TIEUVENKATACHAEI, M A, Superintendent, Mysore Tannery, Limited, Bangalore City, and Managing Agent, Berhampur Leather Manufacturing Company, Limited	561—579
278	ME P. AMANTAKEISHNA JONIYAR, Silk Merchant, Kollegal	579582
274	MR. M HAMPIAH, Messrs Hampiah & Co., Proprietors, Cotton Ginning, etc., Factories, Uravakouda, Anantapur	582—583
275	ME V. RANGASAMI AYYANGAB, Officiating Director of Industries, Mysore	583—590
√276	MR. C. RANGANATHA RAO SAHIB, Assistant Director of Industries, Mysole.	590—601
277	MR. WASHINGTON MARI, Director of Sericulture, Mysore	601606

•

List of Witnesses.

Alphabetical Order.

Name.	No	Page.
ANANTAKEISHNA JOSIYAE, MR. P, Silk Merchant, Kollegal	273	579-582
ANANTASUBBAHMANYA AYYAB, MR H., Proprietoi, South India Candle Works, Madras	219	188-190
ARUMUGAM PILLAI, RAO BAHADUR M., Retired Deputy Collector, and Agent, Sri Chithambara Vinayakar Mills, Limited, Koilpatii.	258	476480
ABUNAGIRI NAYUDU, MB. V., B.A., of Messes, C Abdul Hakim & Co., Skin Merchants and Exporters, Madras.	212	128-137
BAKER, MR. G. F., Manager, Henke's Tile Works, Feroke	246	857-864
BARBER, DR. C. A., Government Sugarcane Expert, Agricultural College, Coimbatore.	257	462-476
BARBER, HON'BLE ME E. F., sepresenting the United Planters' Association of Southern India.	232	251-255
BBARDSELL, MR. W. A., Messrs Beardsell & Co., Madras	201	11—18

Alphabetical Order-contd.

Name	No.	Page.
BOUENE, SIR ALFRED G., K.C.I.E., D.Sc., F.R.S., Director, Indian Institute of Science, Bangalore.	266	526528
BETANT, MR. H. B., Conservator of Forests, Central Circle, Madras .	231	242—251
BUCHANAN, ME. A. F., firm of Messrs. Parry & Co., Madras	224	215
CAIN, REV. J., Church Missionary Society, Dummagudem	248	849
CHAMBER OF COMMERCE, Madras	237-	304-315
CHAMBERS, MB. G. A, the Chrome Leather Company, Pallavaram	288	815824
CONNELL, MR. R. D., Works Manager, the Magnesite Syndicate, Limited, Suramangalam.	250	43+436
Cox, ME F A., Engineer and Manager, Messrs George Brunton & Co., Cochin.	245	858 —357
DAIVASIKHAMANI ACHARI, MR. T. M., Secretary, Visvakarma Mahajana Conference Committee, Madras.	239	824
DAWSON, REV C., Superintendent and Manager, Wesleyan Mission Industrial School, Karnr.	260	486490
ELLIS, HON'BLE COLONEL W.M., R.E., CIE, Chief Engineer for Irrigation, Madras.	212	349
FISCHER, MR. C. E. C., Principal, Madras Forest College, Coimbatore .	256	454-462
FOWLER, DR. G J., D.So., F.I.C., Professor of Applied Chemistry, Indian Institute of Science, Bangalore.	268	586—549
FRASER, HON'BLE MR. GORDON, of Messre. Best & Co., Madras, represent- ing the Madras Chamber of Commerce.	287	306 \$15
GANGARAJU, MR. M., Secretary and Treasurer, the Krishna Jute and Cotton Mills Company, Lunited, Ellore.	21 1	124-128
GHOSE, ME. A., F.C.S., F.G.S., MI.M E., Mine owner and Economic Geologist, Gooty R.S.	202	1853
GILL, MR. R. P., of Messrs. R. P. Gill & Co., Guntur	222	210—212
GIBIYA CHETTIYAR, MR. N., Cloth Merchant, Coimbatore	254	444448
GOVINDAN, ME. V., BA., F.Z.S., Assistant Director of Government Fisheries, Madras.	248	870
HAMPIAH, MB. M., Messre. Hampiah & Co., Proprietors of Cotton Ginning, etc., Factories, Uravakonda, Anantapur.	274	582 — 583
HANUMANTHA RAO, ME. K., Headmaster, Andhra Jatheeya Kalasala, Masuhpatam.	206	78
HARRISON, DE. W. H., Government Agricultural Chemist, Coimbatore .	251	436 442
HAUSSMANN, MR. N., Manager, Aska Sugar Works and Distillery, Aska .	210	117124
HAWKINS, MB. E. J., General Manager, the Indian Aluminium Company, Limited, Madras.	223	212-215
HAY, Da. A., D.Sc., M.I.E.E., Professor of Electro-Technology, Indian Institute of Science, Bangalore.	267	528536
HAYWARD, LIEUTENANT-COLONEL W. D., L.M.S., Medical Store-keeper to Government, Madras.	241	836

.

Alphabetical Order-contd

`

Nаme	No	Page.
HUNTEE, SIE W B., Secretary and Treasurer, Bank of Madras	234	275—295
INDIAN INSTITUTE OF SCIENCE, Council of the, Bangalore	265	524525
INNES, MR C A, I.C S, Director of Industries, Madras	215	147—151
JONES, MR J F., FR.S., M.I.E E. Chief Engineer, Madras Electric Supply Corporation and Madras Electric Tramways, Limited.	200	1—10
Кентн, Mr. J. W., Agent, East India Distilleries and Sugar Factories, Limited, Ranipet	226	215
KEISENAYYA, MR. A, Acting Deputy Tabsildar, Sullurpet, Nellore District.	220	190—192
LUKEB, MR. A T., representing the Madras Trades Association	227	218224
LUSHINGTON, ME. P M., Conservator of Forests, Southern Circle, Madras Presidency.	230	232—241
MACDOUGALL, ME A M, representing the Madias Trades Association	227	218-224
MACKENZIE, ME. IAN SCOTT, General Manager, South India Industrials, Limited, Madras.	203	345 1
Манамарі, Mr. G. A., B A., F C.S., Soap Expert with the Government of Mysore	271	555—56l
MARI, MR. WASHINGTON, Directol of Sericulture, Mysore	277	601-606
MARSDEN, DE F., PH.D., M Sc., Dyeing Expert to the Government of Madras.	216	151—165
MoCABTHY, MR. C. D., Conservator of Forests, Western Circle, Madras Presidency.	263	520
NEILSON, Ma. W., Agent, East India Distilleries and Sugar Factories, Nellikuppam	225	215
NICOLLS, ME J. S., Chairman representing the United Planters' Association of Southern India.	232	251 —2 55
NICHOLSON, SIR FREDERICK, KCI.E, Honorary Director of Fisheries, Madras.	249	389—434
O'BRIAN, MR. G. L , Senior Inspector of Steam Boilers and Prime Movers, Madras	236	808
PARTHASABATHI NAVUDU, MB. P, Landlord and Mirasdar, Saidapet	240	882
RAJAGOPALA CHETTIYAE, ME. A., Cloth Merchant, Manojappa Chavadi, Papanasum Taluk.	252	442-448
RAMACHANDRAN, MB C. S., Supervisor, Department of Industries, Madras	217	165-174
BANGSCHARI, MR A R, Honorary Secretary, Madura Dyers' Association, Madura.	259	480-485
RANGANATHA RAO SAHIB, MR. C., Assistant. Director of Industries, Mysore	276	590-601
RANGASAMI AYYANGAR, MB. V., Officiating Director of Industries, Mysore.	275	58 8 —590
BIGEMOND, ME. R. D, Deputy Conservator of Forests, the Nilgiris	262	515 <u>-</u> 520

Alphabetical Order-concid.

Name.	No.	Page.
ROBERTSON, ME. R. J. C, representing the Madras Trades Association	227	218224
ROBINSON, HON'BLE MR. J. O., Managing Director, Messrs. Spencer & Co., Lumited, Madras.	229	229—231
SADASIVA AYYAR, MR J., District Forest Officer, Mangalore South, South Canara.	247	864—870
SAMSON, MR. T, Proprietor, Dhaugam Oil Mill, Ganjam District	244	8 51—8 52
SIMONSEN, DE. J. L., Professor of Chemistry, Presidency College, Madras	209 -	102-117
SIMPSON, SIR CLEMENT, Messrs. Binny & Co, Limited, Madras .	22]	192—209
SLATER, DR G., Professor of Indian Economics, University of Madras	228	224—229
SOMASUNDARA CHETTIZAE, RAO BAHADUE P., Agent, the Malabar Spinning and Weaving Company, Limited; the Calicut Tile Company; the Kaleswar Mills, Limited, Coimbatore.	258	443—444
SPRING, HON'BLE SIR FRANCIS J E, K.C.I.E., Chairman and Chief Engineer, Port Trust Board, Madras.	205	6378
SEINIVASA PILLAI, MR. K. S., Tanjore	264	523-524
STUART, MR. G. A. D., I.C.S., Director of Agriculture, Madras	261	490515
SUBRAHMANYA AYYAR, Mu. N., Weaving Assistant, Department of Industries, Madras.	%18	174-1-188
Suphorough, Dr. J. J., Ph D., D Sc., F.I C., Professor of Organic Chemistry, Indian Institute of Science, Bangalore.	269	550—551
SURVANARAVANAMURTI NAVUDU, HON'BLE RAO BAHADUR K., Proprietor, Messes, Innes & Co, Cocanada.	207	88—92
SURVANARAVANA RAO, MR. K., Proprietor, the Indian Commerce and Industries Company, Rice mill-owners, etc., Madras.	208	92101
SWAMIKANNU PILLAI, M. R. RY. DIWAN BAHADUR L. D, AVARGAL, Registrar Co-operative Societies, Madras	213	187—148
THEAGARAYA CHETTY, RAO BAHADUE P., Merchant and President, Southern India Chamber of Commerce, Madras.	204	5168
TIRUVENKATACHABI, ME. N S., M.A., Superintendent, Mysore Tannery, Limited, Bangalore City, and Managing Agent, Berhampur Leather Manufacturing Company, Limited.	272	561579
TRADES ASSOCIATION, Madras	227	215—224
UNITED PLANTERS' ASSOCIATION OF SOUTHERN INDIA	232	251-255
VIDYA SAGAR PANDYA, MR., Secretary, Indian Bank, Limited, Madras .	233	255-275
WALTERS, MR. H. T., Chief Inspector of Factories, Madras	214	144147
WARBROOK, MR. F. G., A.M.I.M.E., Director, Messre. Massey & Co., Madree.	285	295—303
WATSON, DR. H. E., D.S., A.I.C., Professor of General Chemistry, Indian Institute of Science, Bangalore.	270	552555
WINTER, ME. W. E., Director, Messrs. Stanes & Co., Coimbatore	255	448-454

S G P I-318 S I I C-30-3-13.

QUESTIONS FOR THE ASSISTANCE OF WITNESSES.

I .- FINANOIAL AID TO INDUSTRIAL ENTERPRISES.

1. Please state if you have had any experience of the raising of capital for industrial Capital. enterprises?

If so, what difficulties have you found in doing so ?

What suggestions have you to make for removing these difficulties?

2. What are the sources from which capital for industrial enterprises is principally drawn?

2 (a). Can you suggest any new sources from which capital may be drawn?

S. Do you know of any kinds of industrial enterprises where more concerns have been started than can be maintained in full time employment?

If so, please describe the general conditions

4. What is your knowledge or experience of financial aid by Government to industrial Government enterprises?

5. What are your opinions on the following methods of giving Government and to existing or new industries .-

*(1) money grants-in-aid,

(2) bounties and subsidies;

(3) guaranteed dividends for a limited period, with or without subsequent refund to Government of the expenditure incurred in paying dividends at the guaranteed rate.

(4) loans, with or without interest,

(5) supply of machinery and plant on the hire-purchase system ;

(6) provision of part of share capital of companies on the same basis as public sub-scriptions of capital;

(7) guaranteed or preferential Government purchase of products for hmited periods and

(S) exemption for a limited period of the profile of new undertakings from income-tax; and exemption from any tax on an industry, or on any article used in an industry a

6. In which methods of Government assistance should there be Government control or supervision?

What should be the form of such control or supervision? (Eq. Government and tor appointment of Government directors with defined powers for the period during which direct assistance lasts)

7 What is your experience or opinion of Government pioneer factories?

Pioneer factories

[NOTE-By proneer factories are meant those established primarily to ascertain whether a new industry is com-mercially practicable ? By demonstration factories (see Questions 19 and 20) are meant those established primarily for giving demonstra-tions of, and instruction in, improved methods for industries which have been proved to be commercially practicable.]

8. In what ways and to what extent should Government pioneer industries ?

At what stage should pioneer factories be either closed or handed over to private capitalists or companies?

What limits and restrictions, if any, should be imposed on the conversion of successful pioneering experiments into permanent Government enterprises ?

9. In your experience what industries are hampered by the conditions under which they Financing gencies are financed as going concerns ?

Please describe the method of financing and its effect on the industry in each case.

10. In what ways is it possible to give more assistance to industrial undertakings by existing or new banking agencies?

10 (a). Do you think there is need of a banking law?

[See also question 39.]

11 Do you know of any industries which have been developed or assisted by the forma- Co-operative tion of co-operative societies?

What were the exact means adopted and what were the results obtained ?

12. In your experience what are the industries for which co-operative societies should be encouraged?

What should be the organisation and special objects of these Societies ?

12 (a). What suggestions have you to make for industrial development by means of Trade Guilds, such as exist in other countries?

How far should the State encourage the promotion of such Guilds?

13. What principles should be followed in order to prevent Government aid competing with existing, or discouraging fresh, private enterprises.

14. Should there be any limitations on Government aid to a new enterprise if it competes with an established external trade ?

II .- TECHNICAL AID TO INDUSTRIES.

15. What is your personal knowledge or experience of technical and scientific aid provided by Government to industrial enterprise ?

16. What is your personal knowledge or experience of noticeable benefits received by local industries from researches conducted by Government departments?

17. On what conditions should the loan of Government experts be made to private firms or companies?

18. Under what restrictions and conditions would you allow publication of the results of researches made by a Government paid expert while attached to a private business?

19 Can you suggest any industry for which Government demonstration factories should be adopted and on what lines? (See note below Question 7.)

20. Should any demonstration factories be instituted in your province?

21 What has ' been your experience of the aid afforded by the Scientific and Technical Department of the Imperial Institute?

What are its advantages and disadvantages ?

22. In addition to arrangements made for research in India, is it advantageous to have provision for research for special subjects in the United Kingdom ?

If so, for what special purposes is it advantageous to conduct researches in England rather than in Indua?

23. In what ways can the Advisory Council for Research in the United Kingdom give assistance to Indian industries?

24. Can you suggest for this country any system, similar to that of the Advisory Council for Research in the United Kingdom, for referring research problems to Colleges and other appropriate institutions in India? (See Questions 75 and 76)

25 Does the existing knowledge of the available resources of the country-agricultural, forest, mineral, etc — require to be supplemented by further surveys?

26. How should such a survey be organised?

What should be its precise objects?

27 How should its results be made most useful to industries?

27 (a). What is your experience or opinion of the value of Consulting Engineers appointed by Government to aid industrial enterprise by technical advice and by the supply of plans and estimates?

(d) Should such Consulting Engineers be allowed to undertake the purchase of machinery and plant for private firms or individuals? If so, under what conditions?

[See Question 63 et seq]

III -ASSISTANCE IN MARKETING PRODUCTS.

28. What is your experience or opinion of commercial museums, e.g., that in Calcutta? 29. If you think commercial museums should be developed and increased in number, what suggestions have you to make regarding their situation, arrangement and working?

S0. What is your experience or opinion of sales agencies or commercial emporia for the sale as well as the display of the products of minor and unorganised cottage industries. How should they be developed?

30 (a) Would travelling exhibitions of such industries be of advantage?

- 31. What is your opinion or experience of the value of industrial exhibitions?
- 32. Should Government take measures to hold or to encourage such exhibitions?

If so what should be the Government policy?

33 What should be the nature of such exhibitions?

Should they be popular in character, or should they aim merely at bringing sellers and buyers into contact?

Surveys for industrial purposes

Commercial museums,

Sales agencies.

Exhibitions.

x

Demonstration factories.

Research abroad.

Limits of Govern-

ment assistance.

Technical aid in general.

. 34. Should trade representatives be appointed to represent the whole of Indua, in Great Trade representa-Britain, the Colonies and Foreign Countries ?

What should be the qualifications of these trade representatives ?

How should their duties be defined ?

S5. In addition to these trade representatives would it be suitable in some cases also to there temperately Commissions for special enquiries?

36. Should provinces in India itself have trade representatives in other provinces ?

How should such representation be arranged for ?

37. Should the principal Government departments which use imported articles publish Government fists of these articles, or exhibit them in commercial museums?

88. With reference to the encouragement of Indian industries, have you any criticisms to offer regarding the working of the present rules relating to the purchase of stores by Government departments?

Have you any changes to propose in the rules themselves?

89. In what way is it possible to assist in marketing indigenous products by more Banking families. banking facilities, either through existing agencies (such as the Presidency Exchange, Joint Stock and Co-operative Credit Bank) or through new agencies (such as Industrial and Hypothee Banks) ? (see also Question 10.)

IV .- OTHER FORMS OF GOVERNMENT AID TO INDUSTRIES.

40. What conditions should control the supply of Government-owned raw materials (e.g. Supply of raw materials, internals,

41. Is there any check at present imposed on industrial development in your province by Land policy, the land policy of Government?

If so, what remedies do you suggest?

(Norm, -The expression " land policy " is intended to cover laws and regulations relating to settlements, the Government assessment, rents, tenant rights, permission to use land for industrial purposes, and generally all matters connected with the ownership and use of land.)

42. On what principles should Government give concessions of land for the establishment of new, or the development of existing, industries?

43. What criticisms have you to make regarding the working of the present law for the acquisition of land on behalf of industrial companies ?

What modifications of the law do you recommend?

43 (a) In what ways and on what terms can Government assist in the provision of subterranean or surplus surface water for industrial purposes.

V .- TRAINING OF LABOUR AND SUPERVISION.

44. (a) Do you think that the lack of primary education hinders industrial development? General,

(b) What has been done in any industry of which you have had experience to improve the labourers' efficiency and skill?

45. What steps do you consider should be adopted to improve the labourers' efficiency and -skill-

(a) generally, and

(b) in any industry of which you have had experience?

46. What special knowledge or experience have you of the training of apprentices in Apprenticeship factories and workshops?

47. What advantages have you observed to follow from the establishment of industrial schools, schools?

48. On what lines should these two systems of training (e g, apprenticeship system and industrial schools) be developed and co-ordinated?

49. What has been your experience of day schools for short-time employees, or of night schools?

How should these be developed ?

50. Should industrial and technical schools and commercial colleges be under the control of the Department of Education or of a Department of Industries ?

What measures should be adopted in order that these two departments should work in unison in controlling industrial schools ?

51. What measures are necessary for the training and improvement of supervisors of Training of all grades and of skilled managers ?

52. What assistance should be given to supervisors, managers and technical experts of private firms to study conditions and methods in other countries? (See Question 77.)

59. In what circumstances and under what conditions should industries assisted by "Government be required to train technical experts ? Mechanical engineers.

54 Is there a want for uniformity in the standard of examinations for mechanical engineers held in the various provinces where engineers in charge of prime movers are required in certain cases to be certificated ?

If so, should measures be adopted to make such tests uniform so that the Local Governments and Administrations may recipiocate by recognising each other's certificates ?

55. If the law in your province does not require any qualifications in an engineer in charge of a prime mover, have you any criticisms or suggestions to make ?

VI —GENERAL OFFICIAL ADMINISTRATION AND ORGANISATION.

56 What provincial organisation exists in your province for the development of industries ?

What criticism have you to make regarding its constitution and functions ?

57. What organisations do you recommend for the future development of industries in your province ?

Should there be a Board of Industries ?

If so, what should be the functions of such a Board ?

Should it be merely advisory or should it have executive powers with budgetted funds ?

58 If you recommend an Advisory Board, how should it be constituted ?

59 If you recommend a Board with powers, what should be its constitution and how should its powers be defined?

60. Should there be a Director of Industnes?

What should be his functions ?

Should he be a business man, or a non-expert official, or a technical specialist?

What other qualifications should he possess?

61. If you recommend both the formation of a Board of Industries and the appointment of a Director of Industries, what should be the relations between the Board of Industries, the Director of Industries and the Provincial Government or Administration?

62 What form of machinery do you propose in order to correlate the separate activities of the various provinces as regards industries ?

Is it practicable to form an Imperial department under a single head ?

If so, what should be the functions of such a department ?

62 (a). Should there be special measures taken or special sections of a Department of Industries organised for the assistance of cottage industries ?

62 (b) Please explain in detail what should be the Government policy as regards cottage industries and how it should be carried into effect? In this connection, see especially Questions 11, 30, 64 and 72

62 (c). What cottage industries do you recommend should be encouraged in this way ?

VII .- ORGANISATION OF TECHNICAL AND SCIENTIFIC DEPARTMENTS OF GOVERNMENT.

63. Are there in your province any technical and scientific departments which are capable of giving assistance to industries ?

If so, what criticisms have you to make regarding their organisation ?

What changes do you recommend ?

64 In order to aid industrial development do you recommend the formation of any new Imperial Scientific and Technical Departments?

If so, for what subjects or natural groups of subjects ?

65. How should such an Imperial department be constituted and recruited ?

66 What should be the powers of the head of the department ?

If he has executive control of the department, what should be his relationship to the Imperial Government?

67 What should be the relationship of an expert, whose services are loaned by the Imperial department to a Local Government, with the Local Government and the latter's Department of Industries ?

68. For what subjects should Local Governments engage their own experts or organise their own technical and scientific departments ?

69 Under what direct control should these experts and departments be placed ?

70. On what terms should these experts be employed ?

71 What is the most suitable way of developing technological research institutions, such as the Indian Institute of Science ?

71 (a). Should there be a Technological Institute for each province, and should such Institutes be allowed to develop as independent units or should they be fitted into a general development scheme for the whole of India, with a central Research Institute?

Cottage industries

General

Imperial department

Provincial Departments

Fechnological insti-

72. As regards investigation and research should each Institute be general in its activities and interests, or should each deal with limited group of related subjects

73. Should there be any Government control?

If so, should this control be Imperial or should it be purely provincial or local ?

74. Is it desirable that measures should be taken to co-ordinate and prevent unnecessary Co-ordination of overlapping of the research activities in Government Technical and Scientific Departments, research special Technological Institutes and University Colleges ?

If so, what are your suggestions ?

75. What noticeable results have followed from the institution of the Indian Science Congress ?

76. Can you suggest any ways in which the Congress might become more useful in assisting industrial development ? (See Question 24)

77. What encouragement should be given to Government technical and scientific experts Study of fareign to study conditions and methods in other countries ? (See Question 52)

78. What difficulties have you experienced in consulting technical and scientific works Reference horaries. of reference ?

79. Have you any suggestions to make regarding the establishment of libraries of such worka ?

80. Do you think that the establishment of a College of Commerce is necessary in your Colleges of province ?

If so, on what lines should it be organised ? "

81. In what ways do you expect such a college to assist industrial development?

81 (a). In what ways can Municipalities and Local Boards assist in promoting industrial and commercial development ?

VIII.—GOVERNMENT OBCANISATION FOR THE COLLECTION AND DISTRIBUTION OF COMMERCIAL INTELLIGENCE.

82. Have you any criticisms to offer on the present system of collecting and distributing Statistics. statistics by the Director of Statistics ?

What changes do you suggest ?

What changes to you suggest. 83. Have you any criticism to offer on the present system of collecting and distributing Commercial intelligence. commercial intelligence by the Director-General of Commercial Intelligence

What modifications do you suggest ?

84. What advantages have you found in the issue of the "Indian Trade Journal?" Industrial and rade journals.

85. Should Government establish or assist industrial or trade journals, either for general or special industries, which would be of real use to persons actively engaged in industries ?

86 What proposals do you make for the dissemination of information of this kind through the various vernaculars ?

87. What advantages have you known to follow the issue of special monographs on Other publications industrial subjects or publications like those of the Forest and Geological Departments

What measures do you advise in order to increase the usefulness of these publications ?

88. Are there any other directions in which Government could collect and publish , information of a kind likely to assist industries and trades ?

IX .--- OTHER FORMS OF GOVERNMENT ACTION AND OBGANISATION.

89 Are there any products for which a system of Government certificates of quality Certificates of should be established ? quality.

For what products should such certificates be compulsory, and for what products voluntary ?

90. What should be the organisation for testing each class of products and granting certificates ?

91. Are there any classes of materials for manufacture or of manufactured articles for the Prevention of adulteration of which penalties should be imposed ? adulteration

92. For each such class of goods what organisation do you suggest for purposes of inspection and prosecution of offenders?

93. Have any other suggestions to make in regard to the prevention of misdescription Misdescription. of goods generally ?

94. What is your opinion on the present state of Indian law relating to marks and Trade marks descriptions of proprietary and other articles of trade ?

95. Have you any onticisms or suggestions to make regarding the existing law and Patent laws regulations relating to patents?

Registration of partnerships Roads, railways

and waterways

96 Is it desirable and practicable in the interests of trade, to introduce a system of registration or disclosure of partnerships?

97 To what extent does the lack of transport facilities by road, rail or water hinder industrial development in your province?

Have you any specific recommendations to make?

98 Have you any criticisms to offer regarding railway freights, the classification of goods, the apportionment of risk, and the regulation of rates?

.What are your proposals?

Can you suggest any remedies?

99 Are there any railway extensions necessary in your province to develop new or to extend existing industries?

100. Similarly, are there any waterways which should be constructed, extended or improved? 101. Are you aware whether the external trade or internal industries of the country are

handicapped by any difficulties or disadvantages as regards shipping freights?

Shipping freights

Hydro electric power surveys.

102. What has been done in your province towards ascertaining the possibilities of developing hydro-electric power?

Should further investigation be made in this matter?

102(a) Have you any criticisms to make regarding the effect of the Electricity Act on industrial enterprise?

Mining and 103 What difficulties have been experienced in the working of the Mining and prospecting rules. Prospecting Rules (1913)?

10.4. Are there any minerals that are essential for industries of Imperial importance that ought to be developed at public expense? (Eg, minerals of direct importance for the manufacture of munitions of war, or minerals ordinarily obtained in commerce from one country only)

Forest Department

105. From the point of view of industrial enterprise, have you any criticisms to make regarding the policy and working of the Forest Department?

What suggestions do you make

106. What measures are practicable to reduce the cost of assembling raw forest products?

*107 To what extent is at practicable to concentrate special kinds of these in limited areas?

108. What noticeable deficiencies in forest transport are known to you?

Jail competition.

109. Have you any complaints to make regarding competition by jail industries?

X.-General.

110. What suggestions have you to make for the development of any industry in which you have been actively concerned or interested ?

111. Does your experience suggest to you any new industry for which India seems peculiarly suited on account of its resources in raw materials, labour and market?

112. What supplies of raw materials are known to you of which the use in industry or trade is retarded by preventible causes?

What are these causes, and how should they be removed ? .

What suggestions do you make for their removal?

112(a). Have you any suggestions to make regarding the utilization of waste from raw materials?

112(b) Have you any suggestions to make regarding Government aid in the improvement of raw material, such as, cotton, silk, sugarcane; etc.?

112(c). What industries in the country are dependent on the importation of raw materials and partly manufactured articles from abroad?

113. Do you know of any supplies of raw materials for which there is a good case for investigation with a view to their development?