



of Bombay

Report

on the

Working of the Development Directorate

For the Year ending 31st March 1926

[Price—Re. 1 As. 12 or 2s. 7½d.]

BOMBAY

GOVERNMENT CENTRAL PRESS

1926

At the Superintendent of Government Printing and
by the High Commissioner for India, 42 Grosvenor
London; or through any recognized Bookseller

APPENDIX A

Report of the work done by the Sanitary Committee, Development Department, from 1st April 1925 to 31st March 1926

During the year eleven meetings of the Committee were held at the Back Bay House and the reclamation works were inspected on each occasion with the Chief Engineer, Mr. H. A. Elgee, M.I.C.E., and the Sanitary and Medical Officer, Captain B. S. Chalam.

2. Lieut.-Colonel W. M. Houston, M.B., Ch.B., D.P.H., D.T.M., I.M.S., was appointed to act as the Chairman of the Committee *vice* Lieut.-Colonel F. P. Mackie, O.B.E., M.D., M.Sc., F.R.C.P., F.R.C.S., I.M.S., who had proceeded on leave under Government Resolution No. S. D. 766 of 19th May 1925.

3. Dr. Sorab C. Hormusjee, M.D., D.P.H., was appointed a member of the Committee in place of Lieut.-Colonel R. M. Carter, C.B., F.R.C.S., I.M.S., resigned, under Government Resolution No. S.D. 1240 of 17th August 1925.

4. Under Government Resolution No. S. C. 699 of 6th May 1925, the services of Captain B. S. Chalam "the Sanitary Officer for the anti-mosquito operations and the general sanitation of the reclamation areas in the Back Bay Reclamation Scheme of the Development Department" were extended for a further period of two years with effect from 23rd May 1925.

5. Government, under their Resolution No. S. D. 791 of 22nd May 1925, resolved that "the non-official members of the Sanitary Committee appointed in Government Resolution No. S. A. 62 of 16th January 1923 to advise Government as to the sanitary precautions to be taken from time to time until the reclamation works are completed should be paid fees at the rates of Rs. 30 per full Committee and Rs. 15 per Sub-Committee meeting". The Executive Health Officer, Dr. J. E. Sandilands, a non-official member, declined to receive the fees on the ground 'that he was carrying on duties within the scope of his office as Executive Health Officer.'

6. The Deputy Secretary to Government invited the opinion of the Committee "whether it was possible for Captain Chalam, Sanitary Officer, to attend to cases of ordinary illness and accidents on the dredgers in addition to the duties at present assigned to him" and the Committee saw no objection to this additional work provided it was found not to interfere with his present duties.

7. Dredging operations were discontinued about the middle of May 1925 and resumed again in the middle of October 1925.

8. Captain B. S. Chalam was allowed to read a paper on the reclamation works in Colaba and to exhibit specimens of his work at the Indian Science Congress in January 1926.

9. In November 1925, Captain Chalam drew the attention of the Committee "to the huge salt lake that was formed between the sea wall

and the present land margin on account of the former having been blinded by putting murum to prevent the escape of silt and to the possible creation of dangerous breeding places." He suggested three measures. The Committee at once made an inspection and resolved that "there was a serious potential danger owing to the new conditions created on the reclaimed land and requested the Chief Engineer to devise some means on the lines of the discussion in the Committee to mitigate the nuisance" and further resolved that "the existing conditions might not be immediately dangerous but may become so in the hot weather in April and May". The Chief Engineer was also requested to remove all the mangrove bushes from the area as early as possible. The mangrove plants were subsequently removed and the whole area was well flooded. Breeding was effectively dealt with by the liberal use of larvacide and constant agitation by brooms.

At its subsequent meeting the Committee after inspection passed the following resolution :—

"Inspection showed that the pumping is being diverted and the mangrove area is being gradually covered with silt from the south. Since the last meeting a length of 450 feet has been covered. Since the Committee's last inspection on 11th November 1925, Captain Chalam reports that a considerable amount of breeding of anopheles was noticed on the 13th and 16th November 1925, but there does not appear to be any at present owing to the measures adopted."

10. At its January meeting, the Committee recommended to Government to appoint Dr. J. S. Nerurkar, B.Sc., L.M.&S., D.P.H., Deputy Executive Health Officer, Bombay Municipality, in charge of anti-malarial operations as a member of the Sanitary Committee.

11. The following observations are worth noting :—

(a) Ratio of malarial admissions per 1,000 of strength amongst the British garrison residents in Colaba.

<i>Before anti-malarial operations were commenced in Colaba.</i>			<i>After anti-malarial operations were commenced in Colaba.</i>		
1908	..	.. 340·3	1923	..	.... 152·53
1909	..	.. 288·2	1924	..	.. 238·27
1910	..	.. 120·7	1925	..	.. 165·05
1911	..	.. 112·4			
1912	..	.. 146·8			
1913	..	.. 107·7			
1921	..	.. 972·46			
1922	..	.. 387·14			

(b) During the months of July to September (the regular monsoon) temporary breeding places were noticed and effectively dealt with. Most of the permanent breeding places left after the dredging operations were filled in.

(c) The experience of two seasons of dredging operations has shown that no insuperable difficulties have been experienced in coping with the conditions created by dredging.

(d) Questionnaire cards presented every week to the inhabitants of Upper Colaba who are in the close proximity to the reclamation area revealed that there were very few mosquitoes complained of and this is a fairly reliable index to the mosquitoes side of the reclamation scheme.

(e) Spleen and parasite rate of children in the Colaba camp under 10 years was as under :—

Spleen rate	2·6	Number examined.	75	Palpable	..	2
Parasite rate	2·6	Number examined.	75	Persons showing parasites.		2

(f) The malarial incidence amongst the troops in Bombay area including Deolali was lower than the average for India both this year and last year.

12. The anti-malarial staff consisted of 1 Medical and Sanitary Officer, one Malarial Inspector and coolies from 12 to 18 in number as circumstances demanded.

The Sanitary staff consisted of two Sanitary Inspectors and thirty sweepers.

The medical staff consisted of two Sub-Assistant Surgeons, two compounders and four dispensary servants.

Cost of operations				Per annum.
				Rs.
Medical and Sanitary Officer	..	..		9,000
House and car allowance	..	..		4,440
				<hr/>
				13,440
Colaba Sections—Dispensaries, Sub-Assistant Surgeon's and compounders' salaries	..	..		6,476
Marine Lines Section	}	..	..	5,186
Do. do.				
Do. do.				
Colaba Section—				
Sanitary and anti-malarial allocation—				
Sanitation	..	..	Rs.	14,820
Anti-malarial	..	..		14,530
				<hr/>
				29,350
Marine Lines Section—				
Sanitary and anti-malarial allocation—				
Sanitation	..	..	Rs.	9,410
Anti-malarial	..	..		8,720
				<hr/>
				18,130
				<hr/>
				72,582
				<hr/>

13. The most dangerous areas as emphasised by Colonel S. R. Christophers, I.M.S., *viz.*, that between the railway embankment and the land margin and also the extensive mangrove swamp area have now been nearly filled up. As the necessity of dealing with breeding places and even likely breeding places in this extensive area independently of whether larvæ have been demonstrated by searchers will not now exist to such an extent, it is anticipated that the cost of anti-malarial operations for the current year will be considerably less.

14. Captain Chalam's report on the medical and sanitary transactions for the year ended 31st December 1925 is enclosed herein.

15. The Committee cordially acknowledge the valuable services rendered by Dr. K. B. Shroff, L.M.&S., D.P.H., D.T.M., J.P., as Honorary Secretary, since its inception three years ago and desire that they be brought to the notice of Government.

BACK BAY RECLAMATION SCHEME

*Annual report of medical and sanitary transactions for the year ending
December 1925*

The medical and sanitary arrangements of four cooly camps belonging to the reclamation were in my charge during the year under report. One of the camps was situated behind Charni Road station, while the other three were situated, one near Wodehouse Bridge, one near Colaba station and the other at Back Bay House.

The average total strength of labour in these camps was approximately 1,800.

Hospital accommodation.—An outdoor dispensary is attached to each of the reclamation camps. One sub-assistant surgeon is in sub-charge of two dispensaries. Indoor hospital accommodation is not provided, and serious cases requiring prolonged treatment or major operations, are sent to any of the local civil hospitals.

The total number of cases sent to a civil hospital from Colaba Section during the year was 12 and from Marine Lines Section, 8. One bed, however, is kept equipped in these dispensaries to receive any serious case and keep it till such time as arrangements can be made to send it to a civil hospital.

Total out-patients at Colaba Section dispensaries ..	2,728
Total out-patients at Marine Lines Section dispensaries	3,074
Minor surgical operations	212

Vaccination is insisted upon and during the year under report about 1,500 people were vaccinated.

Prevailing diseases.—A very large majority of the cases attending the dispensaries consists of minor injuries which is to be expected from the nature of the work they are engaged in. Otherwise there was no special prevailing disease.

Epidemics.—There was no epidemic of any disease in any of the camps during the period under report.

Deaths.—The total number of deaths in the camps during the year under report was 16.

Accidents	3
Pneumonia	6
Bright's disease	1
T. B. Lungs	3
Premature birth	1
V. D. H.	1
Pleurisy	1

Sanitation.—One day every week is set apart in each camp, when every room is emptied, bedding, boxes, etc., are brought out and a disinfectant is sprayed all over.

Rat destruction is carried out throughout the year by setting traps in the camps and thus a good number of rats is accounted for.

Bazaars in the camps are under strict supervision and all eatables such as sweets, cakes, etc., are required to be kept in glass cases.

Dust bins with well fitting lids are put up on raised cement platforms in sufficient numbers for each row of chawls to prevent accumulation of rubbish in and about the rooms.

All latrines are of the flushing type and separate latrines are provided for men and women. Separate bathing places are provided for men and women.

Enough provision is made for sanitary requirement.

(Signed) B. S. CHALAM,
Captain,
Medical and Sanitary Officer,
Back Bay Reclamation Scheme.

APPENDIX B

Members of the Sanitary Committee, Development Directorate for 1925-26

- (1) { Lieut.-Colonel F. P. Mackie, O.B.E., M.D., M.Sc., F.R.C.P.,
F.R.C.S., I.M.S., Director, Haffkine Institute, Chairman (on
leave).
Lieut.-Colonel W. M. Houston, M.B., B.Ch., D.P.H., D.T.M.,
I.M.S., Port Health Officer, Acting Chairman.
- (2) Major J. Morrison, I.M.S., Acting Director, Haffkine Institute.
- (3) Dr. J. E. Sandilands, M.C., M.D., D.P.H., Executive Health Officer.
- (4) Captain E. F. W. Mackenzie, O.B.E., M.C., R.A.M.C.
- (5) Khan Bahadur Dr. N. H. Choksy, C.I.E., M.D.
- (6) Dr. H. M. Masina, L.M. & S., F.R.C.S.
- (7) Lieut.-Colonel R. Row, O.B.E., M.D.
- (8) Dr. P. A. Dalal, L.M. & S., D.T.M. & H.
- (9) Dr. Sorab C. Hormusjee, M.D., D.P.H.
- (10) Dr. K. B. Shroff, L.M. & S., D.P.H., D.T.M.
- (11) Dr. J. S. Nerurker, B.Sc., L.M. & S., D.P.H. (Cantab.), Deputy Executive Health Officer, Bombay Municipality, in charge of the Municipal anti-malarial operations.

APPENDIX C

*Members of the Advisory Committees for the City of Bombay and the
Bombay Suburban Division for 1925-26*

BOMBAY CITY

1. Sir Lawless Hepper, Kt., J.P., Director of Development (Chairman).

Name of member.	Constituency.
2. Dr. Nadirshaw H. E. Sukhia, L.M. & S., L.V.Sc. (Spl.), F.R.S.I. (London).	Municipal Corporation for the City of Bombay.
3. Fazal Ibrahim Rahimtools, Esq., B.A.	Municipal Corporation for the City of Bombay.
4. R. H. A. Delves, Esq., F.S.I. ..	Chairman, City of Bombay Improvement Trust.
5. Major G. C. Richardson ..	Chamber of Commerce, Bombay.
6. Jehangir Bomanji Petit, Esq. ..	Millowners' Association, Bombay.
7. Manu Subedar, Esq. ..	Indian Merchants' Chamber.
8. L. U. Mongini, Esq. ..	Bombay Presidency Trades' Association.
9. W. H. Neilson, Esq., O.B.E. ..	Bombay Port Trust.
10. Sitaram Keshav Bole, Esq., M.L.C.	Working Classes in Bombay.
11. Joseph Baptista, Esq., L.C.E. (Bom.), B.A., LL.B. (Cant.), Bar.-at-Law, M.L.A.	Working Classes in Bombay.

BOMBAY SUBURBAN REVENUE DIVISION

- | | |
|--|------------------------------------|
| 12. Ig. D'Monte, Esq. .. | Bandra Municipality. |
| 13. D. D. Rodrigues, Esq. .. | Kurla Municipality. |
| 14. C. J. Hansoti, Esq. .. | Ghatkopar-Kirol Munici-
pality. |
| 15. Janmejy Chhabildas, Esq., M.A.
(Camb.). | Notified Area Committees. |

APPENDIX D

DEVELOPMENT DIRECTORATE

Designation.	Name.
1. Director of Development ..	Sir Lawless Hepper, Kt., J.P.
2. Secretary to Government, Development Department; Commissioner, Bombay Suburban Division, and Settlement Commissioner and Director of Land Records, Bombay Suburban Division.	R. D. Bell, C.I.E., I.C.S., J.P.
3. Deputy Secretary to Government, Development Department; Secretary to the Development Directorate and Assistant Commissioner, Bombay Suburban Division.	H. St. C. Smith, J.P.
4. Assistant Secretary to Government, Development Department.	R. B. Vachha, M.A., J.P.
<i>Reclamation Branch</i>	
5. Chief Engineer, Reclamation Branch.	H. A. Elgee, M.I.C.E., J.P.
6. Deputy Chief Engineer, Reclamation Branch, Marine Lines Section.	G.M. O'Rorke, C.I.E., M.B.E., B.A.I., A.M.I.C.E. (also supervising the Quarry Section).
7. Deputy Chief Engineer, Reclamation Branch, Colaba Section.	P. Billinton (on leave).
8. Deputy Chief Engineer, Dredging Section.	C. R. Brims.
9. Executive Engineer, Projects ..	W. H. Thomas, A.C.G.I., A.M.I.C.E. (holds executive charge of Marine Lines and Colaba sections).
10. Executive Engineer, Reclamation Branch.	W. F. Anderson, A.M.I.C.E.
11. Marine Surveyor	G. D. Kundaji, M.R.San.I. (Lond.), A.M.I.E.S. (Glas.).
12. Assistant Engineer	S. M. Abdullah, A.M.I.E. (Ind.), M.R.San.I. (Lond.).
13. Do.	A. N. Seal, B.Sc. (Lond.).
14. Do. (Dredging Section).	F. M. Surveyor, B.Sc. (Glas.).

Housing and Suburban Circle

Designation.	Name.
15. Dredging Master	W. S. Speirs.
16. Sanitary and Medical Officer, Back Bay Reclamation Scheme.	B. S. Chalam.
17. Superintending Engineer, Housing and Suburban Circle.	T. Harvey, M.Sc., M.I.C.E., J.P.
18. Executive Engineer, Andheri and Suburban Sanitary Division.	T. A. Pereira (<i>vide</i> entry No. 22).
19. Electrical and Mechanical Engineer	A. Lennox Stanton, M.I.M.E., M.I.E.E., M.Am.S.M.E., M.I.E. (India).
20. Executive Engineer, Mechanical and Materials Division.	W. K. Caldwell.
21. Executive Engineer, Bombay Housing Division.	A. Hamid, F.Sc.
22. Executive Engineer, Kurla-Trombay Division.	T. A. Pereira (<i>vide</i> entry No. 18).
23. Executive Engineer, Bombay Housing Sanitary Division.	Rao Saheb P. S. Krishnasami Ayyar (on leave).
24. Assistant Engineer	K. L. Mahindru, A.M.I.E. (India).
25. Do.	Rao Saheb K. C. Advani, L.C.E., A.M.I.E. (works also as Personal Assistant to the Superintending Engineer, Housing and Suburban Circle).
26. Do.	M. A. Dhoria, B.A., B.E.
27. Do.	F. J. Campos, B.E.
28. Do.	S. S. Rajadhyaksha, B.A., B.E. (on leave).
29. Do.	Nand Kishor Agrawal (on leave).
30. Do.	R. S. Borker (on leave).

Suburban Survey

31. Superintendent, Bombay Suburban Survey.	S. M. Bharucha, B.A. (in addition to his own duties <i>vide</i> entry No. 36).
---	--

Land Acquisition, Bombay

Designation.	Name.
32. Land Acquisition Officer for the City of Bombay.	G. C. Rowe, F.S.I., F.I.A., J.P.
33. Personal Assistant to the Land Acquisition Officer for the City of Bombay.	S. D. Nariman, B.A.

Land Manager, Development Directorate

34. Land Manager, Development Directorate.	R. D. Bell, C.I.E., I.C.S., J.P. (in addition to his duties <i>vide</i> entry No. 2).
35. Personal Assistant to the Land Manager, Development Directorate.	K. R. Doctor, F.S.I., L.C.E., A.M.I.E.

Salsette Development

36. Collector, Bombay Suburban District, and Salsette Development Officer.	S. M. Bharucha, B.A.
37. Personal Assistant to the Salsette Development Officer.	D. G. Sowani, B.Sc., B.E., J.P.
38. Deputy Collector and Assistant Development Officer, Bandra and Ambernath.	P. J. Ghandi, B.A.
39. Assistant Development Officer, Kurla and Trombay Areas.	K. B. Purohit, B.A.
40. Special Assistant to the Collector, Bombay Suburban District.	E. De B. Jewell.

Audit and Finance

41. Financial Adviser to Government	J. B. Taylor, I.C.S.
42. Deputy Financial Adviser to Government and Audit and Accounts Officer, Bombay Development Scheme.	S. M. L. Bean.
43. Assistant Audit and Accounts Officer, Bombay Development Scheme.	R. Hogan (on deputation).

Directorate Chawls

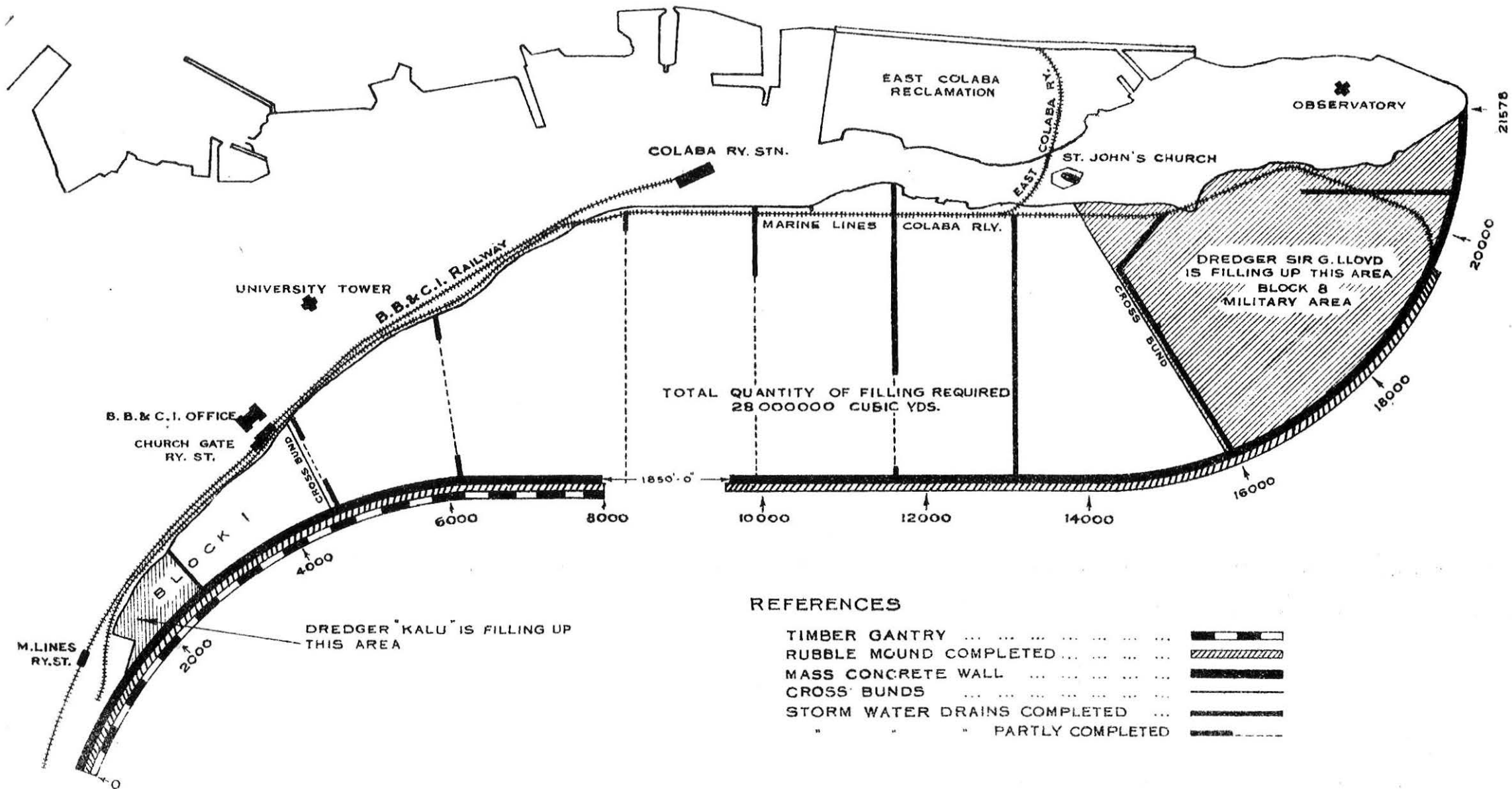
44. Special Officer, Development Directorate Chawls.	R. Hogan.
--	-----------

Military Lands Scheme

Designation.	Name.
45. Secretary, Board of Control and Chief Engineer.	Colonel R. St. J. Gillespie, C.I.E., O.B.E., J.P.
46. Executive Engineer	I. C. Dare, B.A., F.R.S.A., F.S.I., A.M.I.E., M.I.S.E.
47. Assistant Engineer	Vacant.
48. Do.	B. M. Flores, B.A., B.E.
49. Financial Adviser to the Board of Control, Military Lands Scheme.	S. M. L. Bean (<i>vide</i> entry No. 42).

BACK BAY RECLAMATION SCHEME

DIAGRAM SHOWING THE PROGRESS OF WORK UPTO 31ST MARCH 1926



REFERENCES

- TIMBER GANTRY
- RUBBLE MOUND COMPLETED
- MASS CONCRETE WALL
- CROSS BUNDS
- STORM WATER DRAINS COMPLETED
- " " " PARTLY COMPLETED