[G. 53]
3,000—15-8-95.

Educational Department.

CHIEF SECRETARIAT, MADRAS.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following paper:—

From the Public Works Department,
d/ 22nd August 1895, No. 2572 C.

Order:- 30th August 1895, R/ No. 120.

The periods of exemption from the examination-rules granted in G.O. d/ 19th June 1895, No. 510 Educational, should be reckoned exclusive of the dates mentioned therein. It was considered that the dates specified by the Superintending Engineer were those upon which the individuals mentioned were first employed.

/ True Extract /

Lionel Davidson
Ag: Under Secretary.
for Chief Secretary.

To
The Public Works Dept.

8/9

(Govt of Madras,
1895.

No. 2190 W d/ 2-9-95
2572 Cd/ 22-8-95
2471 Cd/ 8-8-95
1631 W d/ 4-7-95
2040 Cd/ 14-6-95
2308 W d/ 12-9-94

To
The Public Works Dept

G.O. 30/8/95, dt. 12th

Subject

Status that the period of exemption from the Stamp Rules granted in G.O. 14th June 1895 No. 510 Ed should be reckoned excluding of the days intervening therein

P. W. CURRENT No. 6802

Recd: 6.9.95
No. 2275 W dy 13 Sep: 1895

B communicated
Communicated
to the Supdg Engineer III
to the Supdg Engineer III
circle & the Exr P. W.
circle & the Exr P. W.
accts with reference
accts with reference
to G.O. no. 1631 W dy 4th
to G.O. no 1631 W dy 4
July 1895
July 1895

Cir
S.E. III circle
S.E. III circle
Exr P.W.A.
Exr P.W.A.

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12TH AUGUST 1895, No. 1311 M., LOCAL AND MUNICIPAL.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

READ—the following paper:—

From J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E., Joint Secretary to the Sanitary Board, to the Chief Secretary to Government, dated Ootacamund, 25th June 1895, No. T-56.

[Cuddapah Drainage.]

I have the honour to submit a resolution of the Sanitary Board in reference to the sanitary improvement of the town of Cuddapah.

ENCLOSURE.

GOVERNMENT OF MADRAS.

Sanitary Board Office.

At a meeting of the Sanitary Board held at Ootacamund on the 13th June 1895.

PRESENT:

The Hon'ble Col. J. PENNYCUICK, R.E.—*President.*
Surgn.-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner.
J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E., Sanitary Engineer.

Read G.O., dated 7th February 1895, No. 182 M., Local and Municipal, in reference to the sanitary improvement of the town of Cuddapah.

Resolved that Government be informed that the Board, having met as above and discussed the various proposals made by the Collector, the Sanitary Commissioner and the Sanitary Engineer in reference to the above, are of opinion that the unhealthiness of the town of Cuddapah is due to the prevalence in a very marked degree of malarial fever. They consider that the town site is contaminated with the active agent of malaria, namely, the *plasmodium malariæ*, and that its propagation has been greatly facilitated by the commonly recognized factors of heat, organic matter and moisture in the soil. Both organic matter and moisture are provided by the numerous pervious cess-pools which exist throughout the town, and by means of which, in default of a sewerage system, the inhabitants attempt to get rid of their sullage water. A second obvious cause of moisture is the obstruction to the sub-soil water overflow by conditions which are enumerated below in describing the preventive remedial measures the Board would recommend for adoption. As a result of this obstruction, fluctuation of the sub-soil water occurs, ensuring with the rise the filling of the soil voids and displacement of air, and with its subsidence ingress of air. These are conditions which would favour the propagation and distribution of the malarial protozoan, and in the presence of organic matter of the type above suggested would afford a pabulum that would in all probability not only aid its propagation as to numerical strength, but bring about intensification of its toxic activity. The remedial measures must therefore take the direction of attempting to deprive the malarial germ of favourable

environment, and this can be best secured, as ascertained by experience in sanitary works hitherto directed against malaria, by preventing undue accumulation of organic matter and inhibiting extensive disturbances of sub-soil air and water. To these ends they advise that the following measures be taken for the improvement of the sanitary condition of the town :—

(1) That the Patha Cuddapah tank by percolation and prevention of the free outfall of the sub-soil water has the effect of causing great fluctuation of the sub-soil water level and that the abandonment of the tank is desirable ; that this can be effected without loss of revenue by carrying on the lately-constructed channel (which now fills the tank) along the sluices of the said tank, and the Board recommend that this be done ; that the bund of the tank should be breached so that no obstruction should exist to the free outfall of surface drainage from the town ; that the Public Works Department should be called upon to prepare the necessary plans and estimates for submission to Government in order to carry out these objects.

(2) That it is desirable to afford means for carrying off the sub-soil water from under the town ; that it is also desirable that the town should be drained and the existing sewage cess-pools which abound in the town removed, and therefore recommend that a scheme should be drawn up by the Sanitary Engineer to Government for these purposes ; the Board consider that these two objects can best be attained by a pipe system of sewerage, under which trenches should be cut and filled with gravel through which the sub-soil water will percolate, both the sewage and sub-soil water being carried to appropriate outlets. It is probable that pumping may be required, and the amount of pumping power to be provided for raising the sub-soil water may be taken for the purpose of an estimate as that necessary to raise the quantity of rainfall falling over double the town area, or, say, over five square miles ; the sewage to be disposed of over a suitable area of land which will be under-drained and furnished with sewage filters beyond the present Patha Cuddapah tank. The bed of this tank, after its abolition as a tank, should be allotted for dry cultivation only.

(3) That, at present, the existence of the Dongal Cheruvu does not influence the rise and fall of the sub-soil water to such an extent as to render its abolition desirable, but that, at some future time, when the results of the works already proposed have been in operation for some time, it may be desirable to reconsider this opinion ; the Board also consider that the execution of the sanctioned open drainage channel may, in the meantime, be delayed.

(4) That it is desirable to resection the bed of the Booga river above the existing anicut, which should be removed, the channel from the anicut to the Patha Cuddapah tank being closed or used for a line of sewers as may be hereafter found necessary.

(5) That in view of the fact that the malarial germ is capable of being conveyed to the system of the human being both by air and water, it is advised that the existing public water-supply should be supplied with effective filter beds.

(6) That the design of these works, except those in regard to the extension of the channel to the Patha Cuddapah tank sluices, be entrusted to the Sanitary Engineer to Government.

(7) That the funds already allotted by Government for the drainage of Cuddapah, viz., Rs. 74,000, be made available :

(i) for making borings and further surveys in connection with the scheme as now decided ; for this purpose Rs. 5,000 will be sufficient ;

(ii) for the works in connection with the abandonment of the Patha Cuddapah tank, which it will be possible to carry out this year if Government approve at an early date of the measures suggested.

(8) The Board, in conclusion, would point out to Government that, if the scheme is to be executed by the Sanitary Engineer, additional establishment of an expensive character will be necessary and that constant and effective supervision by the Sanitary Engineer is not possible ; the Board strongly recommend Government to consider the advisability of amalgamating the department of the Sanitary Engineer

with that of the Public Works, so that greater attention may be given by the Sanitary Engineer to investigation, advice and design, and the larger and more elastic staff of the Public Works Department made available for the execution of works and improved supervision.

ORDER—dated 12th August 1895, No. 1311 M., Local and Municipal.

The Public Works Department will be requested to prepare and forward to Government the plans and estimates necessary for carrying out the first of the Sanitary Board's recommendations, and the Sanitary Engineer will be requested to similarly prepare estimates for the works suggested in the Board's recommendations, Nos. (2), (4) and (5).

2. The cutting of the sanctioned drainage channel may, for the present, be postponed.

3. A sum of Rs. 5,000 will be made available from the budget provision for the drainage of Cuddapah for the purposes referred to in recommendation No. (7)(i) of the Sanitary Board.

4. With reference to the concluding portion of its resolution, the Board will be informed that the question of the amalgamation of the Sanitary Engineer's Department with the Public Works Department is now under the consideration of Government.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Joint Secretary to Sanitary Board.
„ Public Works Department.
„ Revenue Department.
„ Judicial Department.
„ Financial Department.
„ Sanitary Commissioner.
„ Sanitary Engineer.
„ Collector of Cuddapah.
Editors' Table.

Exd. C. Rajagopaul.

Govt of {1895} Madras.

LOCAL AND MUNICIPAL.

Issued

Recd. *Encl.*

G.O., 12th August 1895, No. 1311 M.

AUGUST.

Sanitation.

Passing orders on the proposals of the Sanitary Board for improving the sanitary condition of the town of Cuddapah.

No 2274 W dy 13th September 1895
Communicated
to the Supdg. Engr III circle,
for submission of the
requisite plans and
estimates.
(Sd) J. P.
W

with 1550 W d 19.5.96
sent to Supdg. on 28.8.96

S.E. III circle
Ch. Engr for Inform.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—again the following paper :—

G.O., dated 4th May 1895, No. 366, Financial.

ABSTRACT.—Communicating to the Chairman, Harbour Trust Board, letter from the Government of India sanctioning an advance to that Board during the current financial year of Rs. 82,000 for expenditure on the harbour works.

READ—also the following papers :—

G.O., dated 9th May 1895, No. 1108 W., Public Works.

ABSTRACT.—Directing that the revised construction estimate of Rs. 1,27,52,528 for the completion of the Madras harbour works be laid before the Right Honourable the Secretary of State for formal sanction, and that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake the regular audit of the harbour works accounts.

* * * * *

6. The indent for cement has been disposed of in separate Proceedings, and the budget estimate of expenditure for 1895–96 will be dealt with in the Financial Department.

7. The budget estimate amounts to Rs. 4,70,682 and is made up as follows :—

		RS.
The balance of sanctioned estimates on 31st March 1895	.. ..	68,227
Supplemental estimates now submitted	.. ..	3,69,122
	Total ..	4,37,349
Advance to be made but which will be subsequently recovered by the sale of stores on the completion of works	.. .. ..	33,333
	Total ..	4,70,682

* * * * *

(Signed) J. PENNYCUICK, Col., R.E.,
Secy. to Govt., P.W.D.

No. 1477.

MEMORANDUM.

The budget cannot be forwarded to the Government of India in its present form.

2. The estimates now submitted compare as follows with those sanctioned by the Right Honourable the Secretary of State in his despatch, dated 7th January 1892, No. 1, Public Works :—

Completion Estimate of

Sub-head of Work.	As per estimate sanctioned in Secretary of State's Despatch No. 1, dated 7th January 1892.				
	Quantity.	Rate.	Per.	Cost.	Total.
1	2	3	4	5	6
		Rs. A. P.		Rs.	Rs.
Expenditure up to 31st December 1884.					
1. Works	..	..	..	55,09,324	
2. Establishment	..	..	..	5,29,904	
3. Tools and plant	..	..	..	5,15,262	
Total	..	..	..	..	65,54,490
Revised Estimate.					
4. Alteration and extension of block ground	Prely.	..	..	5,892	5,892
North Pier.					
5. Ordinary rubble deposited from breakwater	Tons.	13,930	1 12 0	Ton.	24,378	
6. „ „ „ from boats	„	206,896	2 0 5	„	4,19,218	
7. Concrete blocks for buildings	C. yds.	51,320	11 8 0	C. yd.	5,90,110	
8. Setting blocks at commencement of new work	„	2,615	2 1 1	„	5,415	
9. „ „ from 2,200 to 3,600 feet	„	36,520	2 14 3	„	1,05,569	
10. „ „ at pier-head	„	12,185	9 8 11	„	1,16,424	
11. Concrete in mass for filling	„	263	4 8 3	„	1,188	
12. Wave-breaker blocks	„	288	9 5 7	„	2,692	
13. „ concrete blocks	„	77,355	10 14 11	„	8,45,591	
14. Depositing do.	„	77,932	1 0 0	„	77,928	
15. Concrete in protection to rubble base	„	1,986	10 4 1	„	20,358	
16. Cramps, iron	No.	331	9 10 1	Each.	3,188	
17. Concrete capping	C. yds.	16,352	11 3 10	C. yd.	1,83,798	
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34	..	..	..	..	84,750	
Total for North Pier	..	..	..	..	..	24,80,607
South Pier.					
19. Ordinary rubble deposited from boats	Tons.	175,078	2 9 0	Ton.	4,49,052	
20. Large rubble deposited from breakwater	„	8,615	1 12 0	„	15,076	
21. Concrete blocks for building	C. yds.	45,066	11 3 1	C. yd.	5,04,510	
22. Setting blocks at commencement	„	2,556	3 1 6	„	7,912	
23. „ „ from 2,550 to 3,700 feet	„	30,160	3 7 11	„	1,05,461	
24. „ „ at pier-head	„	12,350	11 1 3	„	1,36,845	
25. Concrete in mass for filling	„	602	7 9 1	„	4,555	
26. „ in cylindrical pier-head	„	2,355	15 0 0	„	35,325	
27. „ in filling in between coursed blockwork and caisson	„	184	15 0 0	„	2,760	
28. Wave-breaker concrete blocks	„	47,231	11 1 6	„	5,24,070	
29. Depositing „ „	„	47,714	1 5 8	„	64,708	
30. Concrete in protection to rubble base	„	1,700	9 10 6	„	16,420	
31. Cramps, iron	No.	259	11 7 7	Each.	2,972	
32. Concrete capping	C. yds.	16,247	11 5 8	C. yd.	1,84,495	
33. Iron caisson	No.	1	..	„	18,000	
34. Preparing base for and setting cylindrical pier-head	„	..	..	„	28,665	
Total for South Pier	..	..	..	..	..	21,00,826
Extending the rubble revetment protecting the foreshore, North of Harbour.					
35. Rubble stone revetment	Tons.	70,600	2 1 0	Ton.	1,45,613	
36. Railway lines	..	..	..	..	9,849	
	..	..	..	..	..	1,55,462
37. Tools and plant	..	..	..	..	..	6,11,656
38. Contingencies	..	..	..	..	..	2,17,415
39. Establishment	..	..	..	..	..	5,34,369
40. Materials at site (concrete blocks in yards)	C. yds.	..	..	..	..	..
41. Advances to work-people	..	..	..	..	..	..
Total of estimate and value of work done	..	..	..	..	..	61,06,227
Deduct probable recoveries due to sales of tools and plant	..	..	..	..	..	2,77,331
Total	..	..	..	..	..	58,28,896
Total of revised estimate sanctioned in Secretary of State's Despatch	..	..	..	..	..	58,28,896
Estimated cost of additional works, extras and excesses found necessary up to completion of works, 1895-96.	..	..	..	..	..	..
Total estimated cost for completion of works	..	..	..	..	..	..

Madras Harbour Works.

As executed.					Total of revised estimate, columns 9, 10 and 11.	—
		Expenditure.				
Quantity.	Rate.	Expenditure up to end of 31st March 1895.	Balance of sanctioned estimate.	Supplemental estimate for completion.		
7	8	9	10	11	12	13
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
						55,09,324 8 10
..	..	55,09,324 8 10	..	..	..	5,29,904 0 0
..	..	5,29,904 0 0	..	..	..	5,15,262 6 0
..	..	5,15,262 6 0	..	..	..	
..	..	65,54,490 14 10	..	..	..	65,54,490 0 0
..	..	5,892 0 11	— 0 0 11	..	5,892 0 0	..
..	..	24,377 9 0	0 7 0	..	24,378 0 0	..
..	..	4,15,132 8 10	4,085 7 2	..	4,19,218 0 0	..
..	..	5,90,110 0 0	..	..	5,90,110 0 0	..
..	..	5,414 11 2	0 4 10	..	5,415 0 0	..
..	..	1,05,569 0 0	..	..	1,05,569 0 0	..
..	..	1,16,415 4 0	8 12 0	..	1,16,424 0 0	..
..	..	1,188 0 7	— 0 0 7	..	1,188 0 0	..
..	..	2,692 0 0	..	..	2,692 0 0	..
..	..	8,45,459 12 4	131 3 8	..	8,45,591 0 0	..
..	..	77,918 8 4	9 7 8	..	77,928 0 0	..
..	..	20,358 0 0	..	3,800 0 0	24,158 0 0	..
..	..	3,188 0 0	..	..	3,188 0 0	..
..	..	1,06,542 14 1	77,255 1 11	82,191 0 0	2,65,989 0 0	..
..	..	1,00,457 10 4	— 15,707 10 4	19,105 0 0	1,03,855 0 0	..
..	..	24,14,823 14 8	65,783 1 4	1,05,096 0 0	25,85,703 0 0	..
..	..	4,44,126 1 4	4,925 14 8	..	4,49,052 0 0	..
..	..	15,075 0 0	0 3 0	..	15,076 0 0	..
..	..	5,04,510 0 0	..	..	5,04,510 0 0	..
..	..	7,911 13 3	0 2 9	..	7,912 0 0	..
..	..	1,05,461 0 0	..	..	1,05,461 0 0	..
..	..	1,36,476 1 6	368 14 6	..	1,36,845 0 0	..
..	..	4,554 14 4	0 1 8	..	4,555 0 0	..
..	..	32,952 3 7	2,372 12 5	..	35,325 0 0	..
..	..	11 5 0	2,748 11 0	9,105 0 0	11,865 0 0	..
..	..	5,19,240 8 7	4,829 7 5	..	5,24,070 0 0	..
..	..	64,260 3 9	447 12 3	..	64,708 0 0	..
..	..	14,932 9 1	1,487 6 11	6,200 0 0	22,620 0 0	..
..	..	2,972 0 0	..	..	2,972 0 0	..
..	..	23,646 4 6	1,60,848 11 6	72,192 0 0	2,56,687 0 0	..
..	..	18,000 0 0	..	..	18,000 0 0	..
..	..	38,434 14 4	— 9,769 14 4	10,231 0 0	38,896 0 0	..
..	..	19,32,565 12 3	1,68,260 3 9	97,728 0 0	21,98,554 0 0	..
..	..	1,40,093 13 2	5,519 2 10	..	1,45,613 0 0	..
..	..	11,665 7 10	—1,816 7 10	..	9,849 0 0	..
..	..	1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..
..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
..	..	2,25,984 4 2	— 8,569 4 2	30,555 0 0	2,47,970 0 0	..
..	..	6,08,444 15 11	—74,075 15 11	1,39,076 0 0	6,73,445 0 0	..
..	..	36,184 0 7	—36,184 0 7	..	..	..
..	..	34 3 2	— 34 3 2	..	..	..
..	..	59,87,230 2 6	1,18,996 13 6	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
..	..	..	—2,77,331 0 0	— 3,333 0 0	— 2,80,664 0 0	1,30,33,172 0 0 — 2,80,664 0 0
..	..	59,87,230 2 6	—1,58,334 2 6	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
..	..	..	..	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
..	..	..	..	3,69,122 0 0	..	..
..	..	..	..	..	61,98,018 0 0	..

From the Chairman, Harbour Trust Board, dated 22nd July 1895, No. 1758-A.

ABSTRACT.—Submitting particulars called for in official memorandum, dated 26th June 1895, No. 1477, Financial, regarding supplementary estimate for completion of the Madras harbour.

No. 2655-D—B.

Forwarded to the Secretary to Government, Public Works Department, with reference to G.O., dated 3rd July 1895, No. 1620 W.

2. As far as can be seen, the statement submitted by the Harbour Trust Engineer appears in order.

(Signed) I. S. SHERLOCK-HUBBARD,
Examiner, P. W. Accounts, Madras.

26th July 1895.

No. 646-D.

Forwarded to the Financial Department.

(Signed) C. H. B. BURLTON,
Under Secy. to Govt., P.W.D.

29th July 1895.

From the Chairman, Harbour Trust Board, dated 26th July 1895, No. 1641.

ABSTRACT.—Intimating that the reply to official memorandum, Financial, No. 1477, dated 26th June, was forwarded through the Examiner of Public Works Accounts, as directed, on the 22nd July.

ORDER—dated 23rd August 1895, No. 609, Financial.

The revised estimates of expenditure on *Construction works* of the Madras Harbour for 1895–96 will be forwarded to the Government of India.

2. The position, as now brought out by the Engineer, would appear to be as follows :—

As compared with sanctioned estimates.

	LAKHS.
Revised estimate of restoration works..	64·79
Sanctioned estimates of loans from Government	61·06
Excess now required	3·73
Deduct amount of ultimate recoveries..	2·81
Net amount to be eventually provided by the Board	·92

As compared with past actuals.

	LAKHS.
Revised estimate of restoration works..	64·79
Outlay up to 31st March 1895 ..	59·87
Additional amount required	4·92
Deduct value of materials at site not included in the estimates	·37
	4·55
Deduct amount already sanctioned by the Government of India for expenditure in 1895–96	·82
Net amount required ..	3·73

3. It is understood that, as the recoveries will not be effected till after the completion of the works and as so large a sum as 3·73 lakhs cannot be conveniently provided from the Revenue account, the Harbour Trust Board will have to borrow the amount from Government.

4. The following telegram will accordingly be despatched to the Government of India, Finance and Commerce Department :—

"508. Your letter, 27th April 1895, No. 1970 A. Harbour Trust Board requires additional loan of three lakhs seventy-three thousand during current year. Revised estimates follow."

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
" Public Works Department.
" Marine Department.
" Accountant-General.

ENDORSEMENT—dated 23rd August 1895, No. 610, Financial.

Copy to the Government of India, Finance and Commerce Department (with copy of G.O., dated 9th May 1895, No. 1108 W.).

J. F. PRICE,
Chief Secretary.

Exd. A. Raitt.

Govt. of {1895} Madras.

FINANCIAL.

No. 2271 W/J 12 Sept. 1895

Recorded.
(Sd) J. P.
W

Issued

Read. *Encl.*

G.O., &c., 23rd August 1895,
Nos. 609, 610.

AUGUST.

Revised Estimates of the Harbour Trust Board.

Forwarding to the Government of India the revised estimates of expenditure on *Construction Works* of the Madras Harbour for 1895-96, and telegraphing to that Government that the Harbour Trust Board requires an additional loan of three lakhs and seventy-three thousand rupees during the current year.

Exr. P.W. Accts.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—again the following paper :—

G.O., dated 4th May 1895, No. 366, Financial.

ABSTRACT.—Communicating to the Chairman, Harbour Trust Board, letter from the Government of India sanctioning an advance to that Board during the current financial year of Rs. 82,000 for expenditure on the harbour works.

READ—also the following papers :—

G.O., dated 9th May 1895, No. 1108 W., Public Works.

ABSTRACT.—Directing that the revised construction estimate of Rs. 1,27,52,528 for the completion of the Madras harbour works be laid before the Right Honourable the Secretary of State for formal sanction, and that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake the regular audit of the harbour works accounts.

* * * * *

6. The indent for cement has been disposed of in separate Proceedings, and the budget estimate of expenditure for 1895–96 will be dealt with in the Financial Department.

7. The budget estimate amounts to Rs. 4,70,682 and is made up as follows :—

	RS.
The balance of sanctioned estimates on 31st March 1895	68,227
Supplemental estimates now submitted	3,69,122
Total ..	4,37,349
Advance to be made but which will be subsequently recovered by the sale of stores on the completion of works	33,333
Total ..	4,70,682

* * * * *

(Signed) J. PENNYCUICK, Col., R.E.,
Secy. to Govt., P.W.D.

No. 1477.

MEMORANDUM.

The budget cannot be forwarded to the Government of India in its present form.

2. The estimates now submitted compare as follows with those sanctioned by the Right Honourable the Secretary of State in his despatch, dated 7th January 1892, No. 1, Public Works :—

—	Sanctioned estimates.	Present estimates.	Difference.
Harbour Works.	LAKHS.	LAKHS.	LAKHS.
Preliminary	·06	·06	..
North pier	24·81	25·86	+1·05
South pier	21·01	21·99	+ ·98
Protective works	1·55	1·55	..
Establishment	5·34	6·73	+1·39
Tools and plant	6·12	6·12	..
Contingencies	2·17	2·48	+ ·31
Total ..	61·06	64·79	+3·73
Deduct—			
Probable recoveries on account of tools and plant	2·77	2·47	+ ·30
Sale of stores and refunds	..	·34	— ·34
	2·77	2·81	— ·04
Net cost ..	58·29	61·98	+3·69

3. The calculations are based on the actual expenditure up to 31st December 1894; it is desirable to fix the requirements in 1895–96, starting from the completed outlay up to 31st March 1895.

4. From the sum of Rs. 82,227 already sanctioned by the Government of India for the current year, the Engineer, Harbour Trust Board, deducts Rs. 14,000 as "overdrawn in 1894–95". This is not understood, as no more than 1·50 lakh has been drawn from the treasury, and the whole of the ·82 lakh is available for expenditure in 1895–96.

5. It is not clear why the sum of Rs. 68,227 is added to the estimated requirements; it should apparently be deducted as it represents the balance on hand, according to the Engineer.

6. The real position would appear to be as follows:—

	LAKHS.
Additional outlay over sanctioned estimate	3·73
Further advances to be now made but to be eventually recovered ..	·34
	4·07
Deduct amount already sanctioned by the Government of India ..	·82
Net amount required ..	3·25

The works are expected to be completed in the current year, and the sale-proceeds of tools, stores and recoveries of advances ought to shortly bring in 2·81 lakhs, leaving a small balance of ·44 lakh to be provided for.

7. A revised budget should be submitted, through the Examiner of Public Works Accounts, as early as possible.

OOTACAMUND,
26*th June* 1895.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
Copy to the Public Works Department.

From A. LEE POGSON, Esq., Engineer, Harbour Trust Board, to the Chairman, Harbour Trust Board, dated Madras, 19th July 1895, No. 313.

In reply to your endorsement, No. 191 E., dated 28th June 1895, forwarding copy of official memorandum, No. 1477, dated 26th idem, I have the honour to forward herewith a statement showing the outlay up to 31st March 1895, and a budget estimate for the completion of these works, based upon the actual expenditure

to the 31st March 1895, showing the further amount required to complete the works during the current official year 1895–96. The amount required for expenditure in the current year is as follows:—

	RS.
Sum required in official year 1895–96 for expenditure in completing works	4,40,682
Deduct amount (or balance) already sanctioned by the Government of India = 82·227—14,000 advanced by Board, so balance due from Government and Board = ...	68,227
Net amount required additional, for 1895–96	3,72,455
Deduct additional recovery on stores on completion of works ..	3,333
Excess upon sanctioned estimate ..	3,69,122

2. The difference of Rs. 14,000 between Rs. 82,227 and Rs. 68,227 said to have been overdrawn in 1894–95 is the amount advanced by the Harbour Trust Board to be recouped from the grant of Rs. 82,227 sanctioned for the current year, which was spent on the works and included in the outlay of Rs. 59,87,230; consequently, the balance due to the works is reduced to and is only Rs. 68,227.

3. This amount is the unexpended balance on the sanctioned estimate available for expenditure in 1895–96, apart from the revised estimate, viz., Rs. 3,72,455, which is the amount required for the completion of works in 1895–96.

4. With reference to paragraph 5 of the official memorandum, you will observe that the sum of Rs. 68,227 was deducted from the gross amount of the budget estimate, but not added to it, as it is a balance available and required for expenditure on the balance of sanctioned estimate.

5. As regards the deduction of the recovery on tools and plant of 2·81 lakhs, being deducted from the sum required for completion, before the works are completed, I would refer to paragraph 2 of G.O., No. 313, Financial, dated 9th May 1891, wherein it is understood that no recovery can be made on tools and plant before completion as all the "tools and plant" is required to complete the works with; the recovery will therefore be made after completion.

Completion Estimate of

Sub-head of Work.	As per estimate sanctioned in Secretary of State's Despatch No. 1, dated 7th January 1892.				
	Quantity.	Rate.	Per.	Cost.	Total.
1	2	3	4	5	6
Expenditure up to 31st December 1884.		Rs. A. P.		Rs.	Rs.
1. Works	..	..	..	55,09,324	
2. Establishment	..	..	..	5,29,904	
3. Tools and plant	..	..	..	5,15,262	
Total	..	..	..	..	65,54,490
Revised Estimate.					
4. Alteration and extension of block ground	Prely.	..	..	5,892	5,892
North Pier.					
5. Ordinary rubble deposited from breakwater	Tons.	13,930	1 12 0	Ton.	24,378
6. „ „ „ from boats	„	206,896	2 0 5	„	4,19,218
7. Concrete blocks for buildings	C. yds.	51,320	11 8 0	C. yd.	5,90,110
8. Setting blocks at commencement of new work	„	2,615	2 1 1	„	5,415
9. „ „ from 2,200 to 3,600 feet	„	36,520	2 14 3	„	1,05,569
10. „ „ at pier-head	„	12,185	9 8 11	„	1,16,424
11. Concrete in mass for filling	„	263	4 8 3	„	1,188
12. Wave-breaker blocks	„	288	9 5 7	„	2,692
13. „ concrete blocks	„	77,355	10 14 11	„	8,45,591
14. Depositing do.	„	77,932	1 0 0	„	77,928
15. Concrete in protection to rubble base	„	1,986	10 4 1	„	20,358
16. Cramps, iron	No.	331	9 10 1	Each.	3,188
17. Concrete capping	C. yds.	16,352	11 3 10	C. yd.	1,83,798
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34	..	..	..	..	84,750
Total for North Pier	..	..	..	..	24,80,607
South Pier.					
19. Ordinary rubble deposited from boats	Tons.	175,078	2 9 0	Ton.	4,49,052
20. Large rubble deposited from breakwater	„	8,615	1 12 0	„	15,076
21. Concrete blocks for building	C. yds.	45,066	11 3 1	C. yd.	5,04,510
22. Setting blocks at commencement	„	2,556	3 1 6	„	7,912
23. „ „ from 2,550 to 3,700 feet	„	30,160	3 7 11	„	1,05,461
24. „ „ at pier-head	„	12,350	11 1 3	„	1,36,845
25. Concrete in mass for filling	„	602	7 9 1	„	4,555
26. „ in cylindrical pier-head	„	2,355	15 0 0	„	35,325
27. „ in filling in between coursed blockwork and caisson	„	184	15 0 0	„	2,760
28. Wave-breaker concrete blocks	„	47,231	11 1 6	„	5,24,070
29. Depositing „ „	„	47,714	1 5 8	„	64,708
30. Concrete in protection to rubble base	„	1,700	9 10 6	„	16,420
31. Cramps, iron	No.	259	11 7 7	Each.	2,972
32. Concrete capping	C. yds.	16,247	11 5 8	C. yd.	1,84,495
33. Iron caisson	No.	1	..	„	18,000
34. Preparing base for and setting cylindrical pier-head	„	..	..	„	28,665
Total for South Pier	..	..	..	..	21,00,826
Extending the rubble revetment protecting the foreshore, North of Harbour.					
35. Rubble stone revetment	Tons.	70,600	2 1 0	Ton.	1,45,613
36. Railway lines	..	..	..	..	9,849
	..	..	..	..	1,55,462
37. Tools and plant	..	..	..	..	6,11,656
38. Contingencies	..	..	..	..	2,17,415
39. Establishment	..	..	..	..	5,34,369
40. Materials at site (concrete blocks in yards)	C. yds.	..	..	..	..
41. Advances to work-people	..	..	..	..	..
Total of estimate and value of work done	..	..	..	..	61,06,227
Deduct probable recoveries due to sales of tools and plant	..	..	..	..	2,77,331
Total	..	..	..	..	58,28,896
Total of revised estimate sanctioned in Secretary of State's Despatch	..	..	..	..	58,28,896
Estimated cost of additional works, extras and excesses found necessary up to completion of works, 1895–96.	..	..	..	..	..
Total estimated cost for completion of works	..	..	..	..	..

Madras Harbour Works.

As executed.					Total of revised estimate, columns 9, 10 and 11.	—
		Expenditure.				
Quantity.	Rate.	Expenditure up to end of 31st March 1895.	Balance of sanctioned estimate.	Supplemental estimate for completion.		
7	8	9	10	11	12	13
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
..	..	55,09,324 8 10	..	..	..	55,09,324 8 10
..	..	5,29,904 0 0	..	..	..	5,29,904 0 0
..	..	5,15,262 6 0	..	..	..	5,15,262 6 0
..	..	65,54,490 14 10	..	..	..	65,54,490 0 0
..	..	5,892 0 11	— 0 0 11	..	5,892 0 0	..
..	..	24,377 9 0	0 7 0	..	24,378 0 0	..
..	..	4,15,132 8 10	4,085 7 2	..	4,19,218 0 0	..
..	..	5,90,110 0 0	..	..	5,90,110 0 0	..
..	..	5,414 11 2	0 4 10	..	5,415 0 0	..
..	..	1,05,569 0 0	..	..	1,05,569 0 0	..
..	..	1,16,415 4 0	8 12 0	..	1,16,424 0 0	..
..	..	1,188 0 7	— 0 0 7	..	1,188 0 0	..
..	..	2,692 0 0	..	..	2,692 0 0	..
..	..	8,45,459 12 4	131 3 8	..	8,45,591 0 0	..
..	..	77,918 8 4	9 7 8	..	77,928 0 0	..
..	..	20,358 0 0	..	3,800 0 0	24,158 0 0	..
..	..	3,188 0 0	..	..	3,188 0 0	..
..	..	1,06,542 14 1	77,255 1 11	82,191 0 0	2,65,989 0 0	..
..	..	1,00,457 10 4	— 15,707 10 4	19,105 0 0	1,03,855 0 0	..
..	..	24,14,823 14 8	65,783 1 4	1,05,096 0 0	25,85,703 0 0	..
..	..	4,44,126 1 4	4,925 14 8	..	4,49,052 0 0	..
..	..	15,075 0 0	0 3 0	..	15,076 0 0	..
..	..	5,04,510 0 0	..	..	5,04,510 0 0	..
..	..	7,911 13 3	0 2 9	..	7,912 0 0	..
..	..	1,05,461 0 0	..	..	1,05,461 0 0	..
..	..	1,36,476 1 6	368 14 6	..	1,36,845 0 0	..
..	..	4,554 14 4	0 1 8	..	4,555 0 0	..
..	..	32,952 3 7	2,372 12 5	..	35,325 0 0	..
..	..	11 5 0	2,748 11 0	9,105 0 0	11,865 0 0	..
..	..	5,19,240 8 7	4,829 7 5	..	5,24,070 0 0	..
..	..	64,260 3 9	447 12 3	..	64,708 0 0	..
..	..	14,932 9 1	1,487 6 11	6,200 0 0	22,620 0 0	..
..	..	2,972 0 0	..	..	2,972 0 0	..
..	..	23,646 4 6	1,60,848 11 6	72,192 0 0	2,56,687 0 0	..
..	..	18,000 0 0	..	..	18,000 0 0	..
..	..	38,434 14 4	— 9,769 14 4	10,231 0 0	38,896 0 0	..
..	..	19,32,565 12 3	1,68,260 3 9	97,728 0 0	21,98,554 0 0	..
..	..	1,40,093 13 2	5,519 2 10	..	1,45,613 0 0	..
..	..	11,665 7 10	—1,816 7 10	..	9,849 0 0	..
..	..	1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..
..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
..	..	2,25,984 4 2	— 8,569 4 2	30,555 0 0	2,47,970 0 0	..
..	..	6,08,444 15 11	—74,075 15 11	1,39,076 0 0	6,73,445 0 0	..
..	..	36,184 0 7	— 36,184 0 7	..	..	..
..	..	34 3 2	— 34 3 2	..	..	..
..	..	59,87,230 2 6	1,18,996 13 6	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
..	..	..	—2,77,331 0 0	— 3,333 0 0	— 2,80,664 0 0	1,30,33,172 0 0 — 2,80,664 0 0
..	..	59,87,230 2 6	—1,58,334 2 6	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
..	..	..	..	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
..	..	..	..	3,69,122 0 0	..	..
..	..	..	..	..	61,98,018 0 0	..

From the Chairman, Harbour Trust Board, dated 22nd July 1895, No. 1758-A.

ABSTRACT.—Submitting particulars called for in official memorandum, dated 26th June 1895, No. 1477, Financial, regarding supplementary estimate for completion of the Madras harbour.

No. 2655-D—B.

Forwarded to the Secretary to Government, Public Works Department, with reference to G.O., dated 3rd July 1895, No. 1620 W.

2. As far as can be seen, the statement submitted by the Harbour Trust Engineer appears in order.

(Signed) I. S. SHERLOCK-HUBBARD,
Examiner, P. W. Accounts, Madras.

26th July 1895.

No. 646-D.

Forwarded to the Financial Department.

(Signed) C. H. B. BURLTON,
Under Secy. to Govt., P.W.D.

29th July 1895.

From the Chairman, Harbour Trust Board, dated 26th July 1895, No. 1641.

ABSTRACT.—Intimating that the reply to official memorandum, Financial, No. 1477, dated 26th June, was forwarded through the Examiner of Public Works Accounts, as directed, on the 22nd July.

ORDER—dated 23rd August 1895, No. 609, Financial.

The revised estimates of expenditure on *Construction works* of the Madras Harbour for 1895–96 will be forwarded to the Government of India.

2. The position, as now brought out by the Engineer, would appear to be as follows:—

As compared with sanctioned estimates.

	LAKHS.
Revised estimate of restoration works..	64·79
Sanctioned estimates of loans from Government	61·06
Excess now required	3·73
Deduct amount of ultimate recoveries..	2·81
Net amount to be eventually provided by the Board	·92

As compared with past actuals.

	LAKHS.
Revised estimate of restoration works..	64·79
Outlay up to 31st March 1895 ..	59·87
Additional amount required	4·92
Deduct value of materials at site not included in the estimates	·37
	4·55
Deduct amount already sanctioned by the Government of India for expenditure in 1895–96	·82
Net amount required ..	3·73

3. It is understood that, as the recoveries will not be effected till after the completion of the works and as so large a sum as 3·73 lakhs cannot be conveniently provided from the Revenue account, the Harbour Trust Board will have to borrow the amount from Government.

4. The following telegram will accordingly be despatched to the Government of India, Finance and Commerce Department:—

"508. Your letter, 27th April 1895, No. 1970 A. Harbour Trust Board requires additional loan of three lakhs seventy-three thousand during current year. Revised estimates follow."

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
" Public Works Department.
" Marine Department.
" Accountant-General.

ENDORSEMENT—dated 23rd August 1895, No. 610, Financial.

Copy to the Government of India, Finance and Commerce Department (with copy of G.O., dated 9th May 1895, No. 1108 W.).

J. F. PRICE,
Chief Secretary.

Govt. of {1895} Madras.

FINANCIAL.

No. 2271 W. dy 12 September 1895

Recorded.

(Sd) J. P.

Issued

Recd. *Encl.*

G.O., &c., 23rd August 1895, Nos. 609, 610.

AUGUST.

Revised Estimates of the Harbour Trust Board.

Forwarding to the Government of India the revised estimates of expenditure on *Construction Works* of the Madras Harbour for 1895-96, and telegraphing to that Government that the Harbour Trust Board requires an additional loan of three lakhs and seventy-three thousand rupees during the current year.

Exr. P.W. Accts.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—again the following paper :—

G.O., dated 4th May 1895, No. 366, Financial.

ABSTRACT.—Communicating to the Chairman, Harbour Trust Board, letter from the Government of India sanctioning an advance to that Board during the current financial year of Rs. 82,000 for expenditure on the harbour works.

READ—also the following papers :—

G.O., dated 9th May 1895, No. 1108 W., Public Works.

ABSTRACT.—Directing that the revised construction estimate of Rs. 1,27,52,528 for the completion of the Madras harbour works be laid before the Right Honourable the Secretary of State for formal sanction, and that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake the regular audit of the harbour works accounts.

* * * * * *

6. The indent for cement has been disposed of in separate Proceedings, and the budget estimate of expenditure for 1895–96 will be dealt with in the Financial Department.

7. The budget estimate amounts to Rs. 4,70,682 and is made up as follows :—

	RS.
The balance of sanctioned estimates on 31st March 1895	68,227
Supplemental estimates now submitted	3,69,122
Total ..	4,37,349
Advance to be made but which will be subsequently recovered by the sale of stores on the completion of works	33,333
Total ..	4,70,682

* * * * *

(Signed) J. PENNYCUICK, Col., R.E.,
Secy. to Govt., P.W.D.

No. 1477.

MEMORANDUM.

The budget cannot be forwarded to the Government of India in its present form.

2. The estimates now submitted compare as follows with those sanctioned by the Right Honourable the Secretary of State in his despatch, dated 7th January 1892, No. 1, Public Works :—

—	Sanctioned estimates.	Present estimates.	Difference.
Harbour Works.	LAKHS.	LAKHS.	LAKHS.
Preliminary	·06	·06	..
North pier	24·81	25·86	+1·05
South pier	21·01	21·99	+ ·98
Protective works	1·55	1·55	..
Establishment	5·34	6·73	+1·39
Tools and plant	6·12	6·12	..
Contingencies	2·17	2·48	+ ·31
Total ..	61·06	64·79	+3·73
Deduct—			
Probable recoveries on account of tools and plant	2·77	2·47	+ ·30
Sale of stores and refunds	..	·34	— ·34
	2·77	2·81	— ·04
Net cost ..	58·29	61·98	+3·69

3. The calculations are based on the actual expenditure up to 31st December 1894; it is desirable to fix the requirements in 1895–96, starting from the completed outlay up to 31st March 1895.

4. From the sum of Rs. 82,227 already sanctioned by the Government of India for the current year, the Engineer, Harbour Trust Board, deducts Rs. 14,000 as "overdrawn in 1894–95". This is not understood, as no more than 1·50 lakh has been drawn from the treasury, and the whole of the ·82 lakh is available for expenditure in 1895–96.

5. It is not clear why the sum of Rs. 68,227 is added to the estimated requirements; it should apparently be deducted as it represents the balance on hand, according to the Engineer.

6. The real position would appear to be as follows:—

	LAKHS.
Additional outlay over sanctioned estimate	3·73
Further advances to be now made but to be eventually recovered ..	·34
	4·07
Deduct amount already sanctioned by the Government of India ..	·82
Net amount required ..	3·25

The works are expected to be completed in the current year, and the sale-proceeds of tools, stores and recoveries of advances ought to shortly bring in 2·81 lakhs, leaving a small balance of ·44 lakh to be provided for.

7. A revised budget should be submitted, through the Examiner of Public Works Accounts, as early as possible.

OOTACAMUND,
26*th June* 1895.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
Copy to the Public Works Department.

From A. LEE POGSON, Esq., Engineer, Harbour Trust Board, to the Chairman, Harbour Trust Board, dated Madras, 19th July 1895, No. 313.

In reply to your endorsement, No. 191 E., dated 28th June 1895, forwarding copy of official memorandum, No. 1477, dated 26th idem, I have the honour to forward herewith a statement showing the outlay up to 31st March 1895, and a budget estimate for the completion of these works, based upon the actual expenditure

to the 31st March 1895, showing the further amount required to complete the works during the current official year 1895–96. The amount required for expenditure in the current year is as follows:—

	RS.
Sum required in official year 1895–96 for expenditure in completing works	4,40,682
Deduct amount (or balance) already sanctioned by the Government of India = 82·227—14,000 advanced by Board, so balance due from Government and Board = ...	68,227
Net amount required additional, for 1895–96	3,72,455
Deduct additional recovery on stores on completion of works ..	3,333
Excess upon sanctioned estimate ..	3,69,122

2. The difference of Rs. 14,000 between Rs. 82,227 and Rs. 68,227 said to have been overdrawn in 1894–95 is the amount advanced by the Harbour Trust Board to be recouped from the grant of Rs. 82,227 sanctioned for the current year, which was spent on the works and included in the outlay of Rs. 59,87,230; consequently, the balance due to the works is reduced to and is only Rs. 68,227.

3. This amount is the unexpended balance on the sanctioned estimate available for expenditure in 1895–96, apart from the revised estimate, viz., Rs. 3,72,455, which is the amount required for the completion of works in 1895–96.

4. With reference to paragraph 5 of the official memorandum, you will observe that the sum of Rs. 68,227 was deducted from the gross amount of the budget estimate, but not added to it, as it is a balance available and required for expenditure on the balance of sanctioned estimate.

5. As regards the deduction of the recovery on tools and plant of 2·81 lakhs, being deducted from the sum required for completion, before the works are completed, I would refer to paragraph 2 of G.O., No. 313, Financial, dated 9th May 1891, wherein it is understood that no recovery can be made on tools and plant before completion as all the "tools and plant" is required to complete the works with; the recovery will therefore be made after completion.

Completion Estimate of

Madras Harbour Works.

Sub-head of Work.	As per estimate sanctioned in Secretary of State's Despatch No. 1, dated 7th January 1892.					As executed.						
	Quantity.	Rate.	Per.	Cost.	Total.	Quantity.	Rate.	Expenditure. Expenditure up to end of 31st March 1895.	Expenditure. Balance of sanctioned estimate.	Expenditure. Supplemental estimate for completion.	Total of revised estimate, columns 9, 10 and 11.	—
1	2	3	4	5	6	7	8	9	10	11	12	13
Expenditure up to 31st December 1884.		Rs. A. P.		Rs.	Rs.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1. Works	..	..	..	55,09,324		..	..	55,09,324 8 10	..	..	..	55,09,324 8 10
2. Establishment	..	..	..	5,29,904		..	..	5,29,904 0 0	..	..	..	5,29,904 0 0
3. Tools and plant	..	..	..	5,15,262		..	..	5,15,262 6 0	..	..	..	5,15,262 6 0
Total	..	..	..	..	65,54,490	..	..	65,54,490 14 10	..	..	..	65,54,490 0 0
Revised Estimate.												
4. Alteration and extension of block ground	Prely.	..	..	5,892	5,892	..	..	5,892 0 11	— *0 0 11*	..	5,892 0 0	..
North Pier.												
5. Ordinary rubble deposited from breakwater	Tons.	13,930	1 12 0	Ton.	24,378	..	..	24,377 9 0	0 7 0	..	24,378 0 0	..
6. „ „ „ from boats	„	206,896	2 0 5	„	4,19,218	..	..	4,15,132 8 10	4,085 7 2	..	4,19,218 0 0	..
7. Concrete blocks for buildings	C. yds.	51,320	11 8 0	C. yd.	5,90,110	..	..	5,90,110 0 0	..	..	5,90,110 0 0	..
8. Setting blocks at commencement of new work	„	2,615	2 1 1	„	5,415	..	..	5,414 11 2	0 4 10	..	5,415 0 0	..
9. „ „ from 2,200 to 3,600 feet	„	36,520	2 14 3	„	1,05,569	..	..	1,05,569 0 0	..	..	1,05,569 0 0	..
10. „ „ at pier-head	„	12,185	9 8 11	„	1,16,424	..	..	1,16,415 4 0	8 12 0	..	1,16,424 0 0	..
11. Concrete in mass for filling	„	263	4 8 3	„	1,188	..	..	1,188 0 7	— *0 0 7*	..	1,188 0 0	..
12. Wave-breaker blocks	„	288	9 5 7	„	2,692	..	..	2,692 0 0	..	..	2,692 0 0	..
13. „ concrete blocks	„	77,355	10 14 11	„	8,45,591	..	..	8,45,459 12 4	131 3 8	..	8,45,591 0 0	..
14. Depositing do.	„	77,932	1 0 0	„	77,928	..	..	77,918 8 4	9 7 8	..	77,928 0 0	..
15. Concrete in protection to rubble base	„	1,986	10 4 1	„	20,358	..	..	20,358 0 0	..	3,800 0 0	24,158 0 0	..
16. Cramps, iron	No.	331	9 10 1	Each.	3,188	..	..	3,188 0 0	..	..	3,188 0 0	..
17. Concrete capping	C. yds.	16,352	11 3 10	C. yd.	1,83,798	..	..	1,06,542 14 1	77,255 1 11	82,191 0 0	2,65,989 0 0	..
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34	..	..	..	84,750		..	..	1,00,457 10 4	— *15,707 10 4*	19,105 0 0	1,03,855 0 0	..
Total for North Pier	..	..	..	..	24,80,607	..	..	24,14,823 14 8	65,783 1 4	1,05,096 0 0	25,85,703 0 0	..
South Pier.												
19. Ordinary rubble deposited from boats	Tons.	175,078	2 9 0	Ton.	4,49,052	..	..	4,44,126 1 4	4,925 14 8	..	4,49,052 0 0	..
20. Large rubble deposited from breakwater	„	8,615	1 12 0	„	15,076	..	..	15,075 0 0	0 3 0	..	15,076 0 0	..
21. Concrete blocks for building	C. yds.	45,066	11 3 1	C. yd.	5,04,510	..	..	5,04,510 0 0	..	..	5,04,510 0 0	..
22. Setting blocks at commencement	„	2,556	3 1 6	„	7,912	..	..	7,911 13 3	0 2 9	..	7,912 0 0	..
23. „ „ from 2,550 to 3,700 feet	„	30,160	3 7 11	„	1,05,461	..	..	1,05,461 0 0	..	..	1,05,461 0 0	..
24. „ „ at pier-head	„	12,350	11 1 3	„	1,36,845	..	..	1,36,476 1 6	368 14 6	..	1,36,845 0 0	..
25. Concrete in mass for filling	„	602	7 9 1	„	4,555	..	..	4,554 14 4	0 1 8	..	4,555 0 0	..
26. „ in cylindrical pier-head	„	2,355	15 0 0	„	35,325	..	..	32,952 3 7	2,372 12 5	..	35,325 0 0	..
27. „ in filling in between coursed blockwork and caisson	„	184	15 0 0	„	2,760	..	..	11 5 0	2,748 11 0	9,105 0 0	11,865 0 0	..
28. Wave-breaker concrete blocks	„	47,231	11 1 6	„	5,24,070	..	..	5,19,240 8 7	4,829 7 5	..	5,24,070 0 0	..
29. Depositing „ „	„	47,714	1 5 8	„	64,708	..	..	64,260 3 9	447 12 3	..	64,708 0 0	..
30. Concrete in protection to rubble base	„	1,700	9 10 6	„	16,420	..	..	14,932 9 1	1,487 6 11	6,200 0 0	22,620 0 0	..
31. Cramps, iron	No.	259	11 7 7	Each.	2,972	..	..	2,972 0 0	..	..	2,972 0 0	..
32. Concrete capping	C. yds.	16,247	11 5 8	C. yd.	1,84,495	..	..	23,646 4 6	1,60,848 11 6	72,192 0 0	2,56,687 0 0	..
33. Iron caisson	No.	1	..	„	18,000	..	..	18,000 0 0	..	..	18,000 0 0	..
34. Preparing base for and setting cylindrical pier-head	„	..	..	„	28,665	..	..	38,434 14 4	— *9,769 14 4*	10,231 0 0	38,896 0 0	..
Total for South Pier	..	..	..	..	21,00,826	..	..	19,32,565 12 3	1,68,260 3 9	97,728 0 0	21,98,554 0 0	..
Extending the rubble revetment protecting the foreshore, North of Harbour.												
35. Rubble stone revetment	Tons.	70,600	2 1 0	Ton.	1,45,613	..	..	1,40,093 13 2	5,519 2 10	..	1,45,613 0 0	..
36. Railway lines	..	..	..	9,849		..	..	11,665 7 10	—*1,816 7 10*	..	9,849 0 0	..
	..	..	..	..	1,55,462	..	..	1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..
37. Tools and plant	..	..	..	..	6,11,656	..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
38. Contingencies	..	..	..	..	2,17,415	..	..	2,25,984 4 2	— *8,569 4 2*	30,555 0 0	2,47,970 0 0	..
39. Establishment	..	..	..	..	5,34,369	..	..	6,08,444 15 11	—*74,075 15 11*	1,39,076 0 0	6,73,445 0 0	..
40. Materials at site (concrete blocks in yards)	C. yds.	..	..	..	..	..	..	36,184 0 7	—*36,184 0 7*	..	..	..
41. Advances to work-people	..	..	..	..	..	..	..	34 3 2	— *34 3 2*	..	..	..
Total of estimate and value of work done	..	..	..	..	61,06,227	..	..	59,87,230 2 6	1,18,996 13 6	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
Deduct probable recoveries due to sales of tools and plant	..	..	..	..	2,77,331	..	..	..	—*2,77,331 0 0*	— *3,333 0 0*	— *2,80,664 0 0*	1,30,33,172 0 0 — *2,80,664 0 0*
Total	..	..	..	..	58,28,896	..	..	59,87,230 2 6	—*1,58,334 2 6*	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Total of revised estimate sanctioned in Secretary of State's Despatch	..	..	..	..	58,28,896	..	..	..	..	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Estimated cost of additional works, extras and excesses found necessary up to completion of works, 1895–96.	..	..	..	..	..	..	..	..	..	3,69,122 0 0	..	..
Total estimated cost for completion of works	..	..	..	..	..	..	..	..	..	..	61,98,018 0 0	..

From the Chairman, Harbour Trust Board, dated 22nd July 1895, No. 1758-A.

Abstract.—Submitting particulars called for in official memorandum, dated 26th June 1895, No. 1477, Financial, regarding supplementary estimate for completion of the Madras harbour.

No. 2655-D—B.

Forwarded to the Secretary to Government, Public Works Department, with reference to G.O., dated 3rd July 1895, No. 1620 W.

2. As far as can be seen, the statement submitted by the Harbour Trust Engineer appears in order.

26*th July* 1895. (Signed) I. S. SHERLOCK-HUBBARD,
Examiner, P. W. Accounts, Madras.

No. 646-D.

Forwarded to the Financial Department.

29*th July* 1895. (Signed) C. H. B. BURLTON,
Under Secy. to Govt., P.W.D.

From the Chairman, Harbour Trust Board, dated 26th July 1895, No. 1641.

Abstract.—Intimating that the reply to official memorandum, Financial, No. 1477, dated 26th June, was forwarded through the Examiner of Public Works Accounts, as directed, on the 22nd July.

Order—dated 23rd August 1895, No. 609, Financial.

The revised estimates of expenditure on *Construction works* of the Madras Harbour for 1895–96 will be forwarded to the Government of India.

2. The position, as now brought out by the Engineer, would appear to be as follows :—

As compared with sanctioned estimates.	Lakhs.	*As compared with past actuals.*	Lakhs.
Revised estimate of restoration works..	64·79	Revised estimate of restoration works..	64·79
Sanctioned estimates of loans from Government	61·06	Outlay up to 31st March 1895 ..	59·87
Excess now required	3·73	Additional amount required	4·92
Deduct amount of ultimate recoveries..	2·81	Deduct value of materials at site not included in the estimates	·37
			4·55
		Deduct amount already sanctioned by the Government of India for expenditure in 1895–96	·82
Net amount to be eventually provided by the Board	·92	Net amount required ..	3·73

3. It is understood that, as the recoveries will not be effected till after the completion of the works and as so large a sum as 3·73 lakhs cannot be conveniently provided from the Revenue account, the Harbour Trust Board will have to borrow the amount from Government.

4. The following telegram will accordingly be despatched to the Government of India, Finance and Commerce Department :—

"508. Your letter, 27th April 1895, No. 1970 A. Harbour Trust Board requires additional loan of three lakhs seventy-three thousand during current year. Revised estimates follow."

(True Extract.)

Chief Secretary.

To the Chairman, Harbour Trust Board.
" Public Works Department.
" Marine Department.
" Accountant-General.

Endorsement—dated 23rd August 1895, No. 610, Financial.

Copy to the Government of India, Finance and Commerce Department (with copy of G.O., dated 9th May 1895, No. 1108 W.).

J. F. PRICE,
Chief Secretary.

Rxd. A. Raitt.

P. W. CURRENT No. 6738

Govt. of {1895} Madras.

FINANCIAL.

No. 2029 W d/ 15-8-95
" 3/1108 W d/ 9-5-95
" 1109 W d/ 9-5-95
1108 W d/ 9-5-95

10 S.C

Recd. 3.9.95

No. 2271 W d/ 12th September 1895

Issued

Recd. Encl.

Recorded.

96

G.O., &c., 23rd August 1895,
Nos. 609, 610.

CHRB 7/9/95

AUGUST.

Revised Estimates of the Harbour Trust Board.

Forwarding to the Government of India the revised estimates of expenditure on *Construction Works* of the Madras Harbour for 1895-96, and telegraphing to that Government that the Harbour Trust Board requires an additional loan of three lakhs and seventy-three thousand rupees during the current year.

DESPATCHED
12 SEP. 95

Exr. P.W. Accts.

INDEXED

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O.L.S. 357 R9/9

Abstract of programme of famine relief works in the Ganjám district for the year 1895–96.

Taluk or division.	Population by census of 1891 in thousands.	Maximum number of persons for whom relief may be required daily in the event of serious famine.	Persons provided for by relief works for three months.			Irrigation works.				Forest-fencing works.	
			Class of work.	Number provided for on.	Total per cent. of population.	New.		Repairs.			
						Number.	Amount.	Number.	Amount.	*Number.	* Amount.
1	2	3	4	5	6	7	8	9	10	11	12
							Rs.		Rs.		Rs.
Goomsur	186	37,200	Large—								
			Sanctioned	355		1	42,000	..	..	..	..
			Not sanctioned	8,000		..	..	16	37,670	..	..
			Small	6,746		..	..	215	39,545	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	15,101	8	1	42,000	231	77,215	..	..
Suradá	16	3,200	Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	23,969		2	30,000	1	8,000	..	..
			Small	4,774		..	..	201	30,155	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	28,743	180	2	30,000	202	38,155	..	..
Aska	109	21,800	Large—								
			Sanctioned	696		1	82,290	1	2,500	..	..
			Not sanctioned	1,952		..	..	..	..	..	..
			Small	2,460		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	5,108	5	1	82,290	1	2,500	..	..
Mohiri	323	64,600	Large—								
			Sanctioned	169		1	20,000	..	..	..	..
			Not sanctioned	29,007		..	..	5	12,500	..	..
			Small	12,277		..	..	162	18,960	..	..
			Land improvements	267		..	..	..	..	..	..
			Total ..	41,720	13	1	20,000	167	31,460	..	..
Purushottapur	96	19,200	Large—								
			Sanctioned	338		1	40,000	..	..	..	..
			Not sanctioned	26,602		9	33,500	..	..	..	..
			Small	2,158		..	..	86	10,085	..	..
			Land improvements	133		..	..	..	..	..	..
			Total ..	29,231	30	10	73,500	86	10,085	..	..

* These two columns do not appear in the Collector's statement.

Abstract of programme of famine relief works in the Ganjám district for the year 1895–96—*cont.*

Taluk or division.	Road works.					Miscellaneous works.						Grand total.		Works for which estimates are ready.	
	New.			Repairs.		Drinking water-supply		Others.		Total.					
	Number.	Miles.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Goomsur	..	..	..	..	..	..	..	..	..	..	..	1	42,000	1	42,000
	6	97	2,04,940	..	1,62,574	..	..	..	..	..	..	..	4,05,184	..	1,94,694
	..	..	..	..	..	..	10,000	21	1,050	..	11,050	..	50,595	..	2,827
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	6	97	2,04,940	..	1,62,574	..	10,000	21	1,050	..	11,050	..	4,97,779	..	2,39,521
Suradá	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1	26	65,000	..	76,820	..	..	..	..	..	..	..	1,79,820	..	73,420
	..	..	..	..	..	..	5,000	13	650	..	5,650	..	35,805	30	8,643
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1	26	65,000	..	76,820	..	5,000	13	650	..	5,650	..	2,15,625	..	82,063
Aska	..	..	..	..	..	..	..	..	..	..	..	2	84,790	2	84,790
	7	57½	1,09,920	3	1,20,972	..	..	..	..	..	..	10	2,30,892	3	1,22,252
	..	..	..	..	..	7	9,450	3	9,000	10	18,450	10	18,450	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	57½	1,09,920	3	1,20,972	7	9,450	3	9,000	10	18,450	22	3,34,132	5	2,07,042
Mohiri	..	..	..	..	..	..	..	..	..	..	..	1	20,000	1	20,000
	6	36	80,357	5	1,04,323	1	25,000	..	..	1	25,000	17	2,22,180	7	1,67,680
	2	2⅝	15,000	..	500	..	..	..	57,620	..	57,620	..	92,080	..	1,350
	..	..	..	..	..	..	..	..	2,000	..	2,000	..	2,000	..	..
	8	38⅝	95,357	..	1,04,823	1	25,000	..	59,620	..	84,620	..	3,36,260	..	1,89,030
Purushottapur	..	..	..	..	..	..	..	..	..	..	..	1	40,000	1	40,000
	3	35	1,03,300	1	62,839	..	..	..	..	..	..	13	1,99,639	1	1,32,139
	..	..	..	..	..	..	6,000	..	100	..	6,100	..	16,185	..	175
	..	..	..	..	..	..	..	..	1,000	..	1,000	..	1,000	..	..
	3	35	1,03,300	1	62,839	..	6,000	..	1,100	..	7,100	..	2,56,824	..	1,72,314

Abstract of programme of famine relief works in the Ganjám district for the year 1895-96—*cont.*

Taluk or division.	Population by census of 1891 in thousands.	Maximum number of persons for whom relief may be required daily in the event of serious famine.	Persons provided for by relief works for three months.		Irrigation works.				Forest-fencing works.	
			Class of work.	Number provided for on.	Total per cent. of population.	New.		Repairs.		
						Number.	Amount.	Number.	Amount.	Number.	Amount.
1	2	3	4	5	6	7	8	9	10	11	12
							Rs.		Rs.		Rs.
Ichchhápuram	75	15,000	Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	25,364		2	80,000	6	6,200	..	..
			Small	1,888		..	..	7	8,060	..	..
			Land improvements	187		..	..	..	..	..	..
			Total ..	27,439	37	2	80,000	13	14,260	..	..
Ganjám	89	17,800	Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	2,729		1	176,001	2	1,700	..	..
			Small	2,573		..	..	142	12,895	..	..
			Land improvements	133		..	..	..	..	..	..
			Total ..	5,435	6	1	176,001	144	14,595	..	..
Sompéta	90	18,000	Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	17,374		..	..	..	..	..	..
			Small	813		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	18,187	20	..	..	..	..	..	..
Chicacole	213	42,600	Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	23,831		..	..	6	21,500	..	..
			Small	6,794		40	10,590	152	19,015	..	..
			Land improvements	800		..	..	..	..	..	..
			Total ..	31,425	15	40	10,590	158	40,515	..	..
Narasannapéta	28	5,600	Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	19,333		..	..	5	9,000	..	..
			Small	4,803		18	3,560	207	12,463	..	..
			Land improvements	400		..	..	..	..	..	..
			Total ..	24,536	88	18	3,560	212	21,463	..	..

Abstract of programme of famine relief works in the Ganjám district for the year 1895-96—*cont.*

Taluk or division.	Road works.					Miscellaneous works.						Grand total.		Works for which estimates are ready.	
	New.			Repairs.		Drinking water-supply.		Others.		Total.					
	Number.	Miles.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Ichchhápuram	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	5	33¾	59,000	..	45,000	..	..	..	..	..	..	..	1,90,200	3	1,07,000
	..	..	..	..	..	..	6,000	..	100	..	6,100	..	14,160	..	150
	..	..	..	..	..	..	..	..	1,400	..	1,400	..	1,400	..	..
	5	33¾	59,000	..	45,000	..	6,000	..	1,500	..	7,500	..	2,05,760	..	1,07,150
Ganjám	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	29	57,000	1	63,712	..	..	..	..	..	..	7	2,98,413	2	2,39,713
	..	..	..	..	..	..	6,300	..	100	..	6,400	..	19,295	..	3,020
	..	..	..	..	..	..	..	..	1,000	..	1,000	..	1,000	..	..
	3	29	57,000	1	63,712	..	6,300	..	1,100	..	7,400	..	3,18,708	..	2,42,733
Sompéta	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	59	1,24,390	..	55,000	..	..	..	..	..	..	..	1,79,390	..	68,780
	..	..	..	..	..	..	6,000	..	100	..	6,100	..	6,100	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	59	1,24,390	..	55,000	..	6,000	..	100	..	6,100	..	1,85,490	..	68,780
Chicacole	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	7¼	21,400	..	1,29,130	..	..	..	..	..	..	..	1,72.030	2	1,29,530
	..	..	..	9	8,813	37	12,540	..	..	37	12,540	238	50,958	..	20,960
	..	..	..	..	..	..	..	40	6,000	40	6,000	40	6,000	..	..
	2	7¼	21,400	..	1,37,943	37	12,540	40	6,000	77	18,540	..	2,28,988	..	1,50,490
Narasannapéta	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	18	45,000	..	91,000	..	..	..	..	..	..	..	1,45,000	2	85,000
	..	..	10,000	..	..	28	10,000	..	..	28	10,000	..	36.023	..	19,000
	..	..	..	..	..	..	..	20	3,000	20	3,000	20	3,000	..	..
	2	18	55,000	..	91,000	28	10,000	20	3,000	48	13,000	..	1,84,023	..	1,04,000

Abstract of programme of famine relief works in the Ganjám district for the year 1895–96—*cont.*

Taluk or division.	Population by census of 1891 in thousands.	Maximum number of persons for whom relief may be required daily in the event of serious famine.	Persons provided for by relief works for three months.			Irrigation works.				Forest-fencing works.	
			Class of work.	Number provided for on.	Total per cent. of population.	New.		Repairs.			
						Number.	Amount.	Number.	Amount.	Number.	Amount.
1	2	3	4	5	6	7	8	9	10	11	12
							Rs.		Rs.		Rs.
Tekkali	112	22,400	Large—								
			Sanctioned	330		..	..	..	..	..	..
			Not sanctioned	18,640		..	..	..	..	..	..
			Small	2,623		3	550	35	3,119	..	..
			Land improvements	133		..	..	..	..	..	..
			Total ..	21,726	19	3	550	35	3,119	..	..
Parlákimedi	252	50,400	Large—								
			Sanctioned	67		..	..	..	..	..	..
			Not sanctioned	89,008		..	..	..	..	..	..
			Small	10,428		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	99,503	39	..	..	..	..	..	..
Total of the non-agency taluks.	1,589	317,800	Large—								
			Sanctioned	1,955		4	1,84,290	1	2,500	..	..
			Not sanctioned	285,809		14	3,19,501	41	96,570	..	..
			Small	58,337		61	14,700	1,207	1,54,297	..	..
			Land improvements	2,053		..	..	..	..	..	..
			Grand Total ..	348,154	22	79	5,18,491	1,249	2,53,367	..	..
			AGENCY TRACTS.								
Ramagiri			Large—								
			Sanctioned	..		..	..	..	..	..	..
			Not sanctioned	20,532		..	..	..	..	..	..
			Small	267		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	20,799	..	..	..	..	..	..	..
Balliguda			Large—								
			Sanctioned	1,700		..	..	..	..	..	..
			Not sanctioned	..		..	..	..	..	..	..
			Small	825		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	2,525	..	..	..	..	..	..	..

Abstract of programme of famine relief-works in the Ganjám district for the year 1895–96—*cont.*

Taluk or division.	Road works.					Miscellaneous works.						Grand total.		Works for which estimates are ready.	
	New.			Repairs.		Drinking water-supply.		Others.		Total.					
	Number.	Miles.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Tekkali	2	3½	38,200	..	..	..	..	..	..	..	..	2	38,200	2	38,200
	2	11½	26,800	..	1,13,000	..	..	..	..	..	..	..	1,39,800	..	1,11,000
	..	..	8,000	..	..	21	8,000	..	..	21	8,000	..	19,669	..	11,724
	..	..	..	..	..	..	..	7	1,000	7	1,000	7	1,000	..	..
	4	15	73,000	..	1,13,000	21	8,000	7	1,000	28	9,000	..	1,98,669	..	1,60,924
Parlákimedi	1	3	8,000	..	..	..	..	..	..	..	..	1	8,000	..	..
	4	17	3,43,800	..	3,87,260	..	..	..	..	..	..	..	7,31,060	3	3,87,260
	14	..	24,590	..	3,450	..	50,170	..	..	..	50,170	..	78,210	51	42,085
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	19	20	3,76,390	..	3,90,710	..	50,170	..	..	..	50,170	..	8,17,270	54	4,29,345
Total of the non-agency taluks.	3	6½	46,200	..	..	..	..	..	..	..	..	8	2,32,990	7	2,24,990
	48	427	12,40,907	..	14,11,630	1	25,000	..	..	1	25,000	..	30,93,608	..	18,18,468
	16	2⅝	57,590	..	12,763	..	1,29,460	..	68,720	..	1,98,180	..	4,37,530	..	1,09,934
	..	..	..	..	..	..	..	..	15,400	..	15,400	..	15,400	..	..
Grand total ..	67	436⅛	13,44,697	..	14,24,393	..	1,54,460	..	84,120	..	2,38,580	..	37,79,528	..	21,53,392
							AGENCY TRACT.								
Ramagiri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	122	1,30,800	2	23,163	..	..	..	..	..	..	9	1,53,963	..	..
	..	..	..	..	..	..	2,000	..	..	..	2,000	..	2,000	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	122	1,30,800	2	23,163	..	2,000	..	..	..	2,000	..	1,55,963	..	..
Balliguda	2	..	24,000	..	..	..	..	..	..	..	..	2	24,000	2	24,000
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	6,192	..	..	..	6,192	..	6,192	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	..	24,000	..	..	..	6,192	..	..	..	6,192	..	30,192	2	24,000

Abstract of programme of famine relief-works in the Ganjám district for the year 1895–96—*cont.*

Taluk or division.	Population by census of 1891 in thousands.	Maximum number of persons for whom relief may be required daily in the event of serious famine.	Persons provided for by relief works for three months.			Irrigation works.				Forest-fencing works.	
			Class of work.	Number provided for on.	Total per cent. of population.	New.		Repairs.			
						Number.	Amount.	Number.	Amount.	Number.	Amount.
1	2	3	4	5	6	7	8	9	10	11	12
			AGENCY TRACTS—cont.								
							RS.		RS.		
Udayagiri	..	..	Large—								
			Sanctioned	10,990		..	..	..	..	..	..
			Not sanctioned	25,946		5	42,000	..	..	..	..
			Small	..		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Total ..	36,936	..	5	42,000	..	..	..	..
Total of the agency tracts ..	307	61,400	Large—								
			Sanctioned	12,690		..	..	..	..	..	..
			Not sanctioned	46,478		5	42,000	..	..	..	..
			Small	1,092		..	..	..	..	..	..
			Land improvements	..		..	..	..	..	..	..
			Grand Total ..	60,260	20	5	42,000	..	..	..	..
Total of the non-agency taluks and the agency tracts.	1,896	379,200	....	408,414	..	84	5,60,491	1,249	2,53,367	..	..

Abstract of programme of famine relief works in the Ganjám district for the year 1895–96—*cont.*

Taluk or division.	Road works.					Miscellaneous works.						Grand total.		Works for which estimates are ready.	
	New.			Repairs.		Drinking water-supply.		Others.		Total.					
	Number.	Miles.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						AGENCY TRACTS—*cont.*									
			RS.		RS.		RS.		RS.		RS.		RS.		RS.
Udayagiri	4	110	67,590	..	..	..	..	..	..	..	..	4	67,590	2	22,590
	8	106	1,52,610	..	..	..	..	..	..	..	..	13	1,94,610	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	12	216	2,20,200	..	..	..	..	..	..	..	..	17	2,62,200	2	22,590
Total of the agency tracts.	6	110	91,590	..	..	..	..	..	..	..	..	6	91,590	4	46,590
	15	228	2,83,410	2	23,163	..	8,192	..	..	..	8,192	22	3,48,573	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	8,192	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Grand total ..	21	338	3,75,000	2	23,163	..	8,192	..	..	..	8,192	..	4,48,355	4	46,590
Total of the non-agency taluks and the agency tracts	88	774⅛	17,19,697	..	14,47,556	..	1,62,652	..	84,120	..	2,46,772	..	42,27,883	..	21,99,982

REVENUE DEPARTMENT.

1895.

Board of Revenue

(Revenue Settlement, Land Records and Agriculture),

MADRAS.

Printed August 17th.

Proceedings, 18*th July* 1895, *No.* 220.

Famine Relief works for 1895-96.—Reviewing the programme of — received from the Collector of Ganjám.

F/I—1,000—22-12-94.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

+ Copy attached

Read—Proceedings+ of the Board of Revenue, R.S. L.R. & Agri dated 18th July 1895, No. 220.

Order thereon, 22nd Augt 1895, *No.* 3401.

Recorded.

(True Extract.)

W. B. ... for
Ag Asst *Secretary to Government.*

To the Board of Revenue. R.S. L.R. & Agri.
Public Works Dept.
Local & Municipal Dept.
Copy to the Judl Dept. — M.N.

P. W. CURRENT No. 6655

C/

Applied for 35 6/9
Recd, 9/9.

Govt. of {1895} Madras.

REVENUE.

Rd 30-8-95
Enc 1

To

The ~~Commissioner of~~ Public Works Dept -

No. 2269 W. d/ 12th Sept. 1895

B

Encl.

Dated

Recd.

Communicated
~~to the Supdg. Engr~~
~~I Circle~~

Mis. G.O., 22 Augt 1895, No. 3401-
~~R.~~

SUBJECT.

Recording G.O.
reviewing the programme
of famine relief works
for 1895-96 received from
Collector of Ganjam

Famine ...
the progr...
of Ganjá...

cmss
3/9/95

DESPATCHED
12 SEP 96
INDEXED
[illegible] 13/9.

Cn S.E. I Circle
S.E. I Circle
Ch. E. for I

Letter from the Executive Engineer, Nellore Division, to the Superintending Engineer, 2nd Circle, No. 254 S.E. dated 27th August 1895.

I have the honour to state that an Imprest of Rs. 25 has been given to Sub Overseer P. Kristnaswami Madaliar for paying Railway freight on stores for works in the Gudur and Rapur Talugs as the overseers of these Talugs are obliged to be away from their head quarters viz Gudur for several days in the month on inspection duty and demurrage charges are often incurred owing to their absence.

2 to

2. I propose a recover a security of Rs 25 from the Sub overseer by a monthly deduction of Rs 5 from his salary and request that the sanction of Government may be obtained to this under para 10, Chapter IV Volume I. of Public Works Code.

No. 366 N.Z.
1.9.95

Forwarded to the Chief Engineer

Engineer, Public Works Department
for favour of approval.

Jas Baddeley ?
Major, R.E.

Superintending Engineer,
II Circle.

Le
31/5

P. [illegible] CURRENT No. 6727

From
The Deputy Engineer,
II Circle,

To,
The Chief Engineer
P.W.D.
Madras.

Dated 1st September 1895

No. 366 N.L.

Subject

P. Kristnaswami Moodaliar
Sub Overseer Nellore

Requesting to obtain sanction for recovering by monthly instalments the Security of Rs 25 being the imprest granted to —

Rec: 3.9.95

No. 2268 W dated 12th Sepr. 1895

B/[illegible]

Sanctioned.
Sanctioned

[illegible]

[illegible]
6/9.95

DESPATCHED
12 SEP. 95

C.E.
S.E. II Circle
S.E. II Circle
Exar P.W.A.

INDEXED.

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O.L.S. 355 Rd 9/9