(1) பக்கங்களின் எண்ணிக்கை 34

(2) புதுக்கித் திருப்பிய நாள் Nov 90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PWD துறை

18

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 950-51

அச்சகம்
பலவகை

நாள் : 22-3-1852 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

17 Sheets

ஆவண. கா-1—18,006—15-6-87.

950-51/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From W. P. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 25th January 1892, No. 2998.

I have the honour to submit, herewith, for the information of Government, a statement of progress made upon the Madras Harbour Works during the quarter ending 31st December 1891 together with tracing in duplicate.

ENCLOSURES.

EXTRACT of Proceedings of the Trustees of the Harbour of Madras at a meeting held at the Offices of the Board, on Friday, the 22nd day of January 1892.

* * * * *

2. Read statement of progress upon the Madras Harbour Works for the quarter ending 31st December 1891.

Recorded and resolved that this statement be submitted to Government.

* * * * *

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

PROGRESS STATEMENT OF MADRAS HARBOUR WORKS.

STATEMENT showing progress during quarter ending 31st December 1891 as shown on accompanying tracing No. 24.

NOTE.—The figures in block type denote for comparison progress and quantity of work done in quarter ending December 1890.

No. of item.	Particulars and quantity of work, &c.	Sub-heads of work.	North Pier.				South Pier.							Railway Lines.						Pallavaram quarries outturn.	Concrete blocking.	Protective works.	Total expenditure.
			Rubble base.	Pier head.	Wave-breaker.	Concrete capping.	Rubble base.	Pier head.	Wave-breaker.	Concrete capping.	Base protection.	At works.	At quarries.	Sand line.	Beach improvements.								
			A	B	C	D	E	F	G	H	I	J	K	L	M	N				O	P	Q	R
1	Rubble stone deposited from boats	Tons.	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	3,947	
2	Do. do. from wagons ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	19,616	
3	Total quantity rubble stone received on works ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				9,778	..	..	
4	Do. blasted chips do. ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				15,616	..	..	
5	Concrete blocks, set by divers ..	No.	..	Nil. 9	..	..	..	12 12	11 6	Nil. 6	..	..	..	..	..	..				9,403	..	..	
6	Do. deposited in wavebreaker ..	,,	..	146	..	..	386 238	..	..	..	..	..	..	..	..	..				1,326	..	..	
7	Do. made for superstructure ..	,,	..	29	..	..	348 215	..	..	..	..	..	..	..	..	..				..	..	..	
8	Do. pier head ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
9	Wrought-iron cramp fixed in position ..	,,	..	36 8	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
10	Total outturn of concrete	C. yds.	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
11	Advance or progress of completed superstructure ..	Ry. feet.	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
12	Rubble base protected with concrete.. ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
13	Metre gauge, 40 lb. per yard laid new ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
14	Do. relaid or renewed ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
15	Do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
16	Broad gauge, 50 lb. per yard laid ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
17	Do. relaid or renewed ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
18	Do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
19	Titan gauge, 75 lb. per yard laid new ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
20	Do. relaid or renewed ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
21	Do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
22	.....	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
23	.....	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..	
24	Approximate expenditure under sub-heads of work ..	Rs.	1,345	8,044	2,972	..	1,639	506	5,101	897	..	4	*							24,472	*9,308	62,296	

TONS. CWTS. QRS. LB.

Nil. 14 0 1
30 6 3 25
2,103

Nil. casks of cement received on works during quarter ending 31st December 1891, containing
171⅞ do. issued for do.
11,733 do. balance in store at end of do.

(Signed) F. J. CHISHOLM,
Engineer, Harbour Trust Board.

MADRAS,
7th January 1892.

No. 168, Marine.

Transferred to the Public Works Department.

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

29th January 1892.

950-W/2

From W. P. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 7th March 1892, No. 3794.

I have the honour to submit, herewith, for the information of Government, comparative statement of expenditure upon the Madras Harbour Works during quarter ending 30th September 1891.

No. 462, Marine.

Transferred to the Public Works Department.

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

10th March 1892.

ORDER—dated 22nd March 1892, No. 950 W., Public Works.

The report of progress for the quarter ending 31st December 1891 and statement of expenditure for the previous quarter, as compared with the sanctioned estimate, will be forwarded to the Secretary of State for India together with the plan.

2. A copy of the report and statement of expenditure will also be forwarded for the information of the Government of India.

3. The report for the quarter ending 31st March 1892 should be prepared in the amended form required by the Secretary of State (*vide* G.O., No. 430 W., dated 12th February 1892).

(Here enter No. 951 W., Public Works, dated 22nd March 1892.)

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chairman, Harbour Trust Board.
" Marine Department.

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1892} Madras.

PUBLIC WORKS.

Dated March, 22nd.

Recd. *Encl.*

G.O., 22nd Mar. 1892, No. 950 W.

MARCH.

Madras Harbour Works

Progress report of the — for quarter ending 31st December 1891 and statement of expenditure for the previous quarter, as compared with the sanctioned estimate, ordered to be forwarded to the Secretary of State and copy of the report and statement of expenditure forwarded to the Government of India for information.

950-51/3

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

Endorsement from the Government of India, Public Works Department (Civil Works—Miscellaneous), dated Calcutta, 5th February 1892, No. 59 M.

The undermentioned papers are forwarded to the Secretary to the Government of Madras, Public Works Department, for information and attention to the wishes expressed in paras. 4 and 5 of the despatch, with reference to the correspondence ending with his letter No. 1967 W., dated 23rd July 1891.

(By Order.)

(Signed) C. VINCENT,
Under-Secy. to the Govt. of India.

ENCLOSURES.

DESPATCH from the Right Honorable Her Majesty's Secretary of State for India, to His Excellency the Most Honorable the Governor-General of India in Council, dated India Office, London, 7th January 1892, No. 1, Public Works.

I have received your Excellency's Public Works letter No. 66, dated the 8th September 1891, submitting, for my sanction, a revised estimate of the cost of the Madras Harbour Works.

2. Omitting the expenditure incurred against the original sanction, amounting to Rupees 65,54,490, the cost of the restoration works is now estimated at Rs. 58,28,896, showing, when compared with the estimate of Rs. 45,90,051 sanctioned in 1886, an increase of Rs. 12,38,845. If, however, the credit taken in the revised estimate of Rs. 2,33,460 for sale-proceeds of plant be omitted, the difference in the two estimates amounts to Rs. 14,72,305.

3. While regretting the necessity for this increased expenditure, I am satisfied that it is required for the completion of the works and I accordingly sanction the revised estimate which you have submitted.

4. I enclose copy of a memorandum * by Sir A. M. Rendel, from which your Excellency will observe that he has suggested that the periodical reports on the harbour, which are forwarded for my information by the Government of Madras, should contain fuller information under both financial and engineering heads than is at present afforded, and, in particular, that they should include a report upon the use made of the harbour during the quarter to which the return relates and upon the commercial works in or connected with it that experience may show to be required.

* Dated 4th December 1891.

5. I shall be glad if your Excellency will call the attention of the Government of Madras to this point and will request that Sir A. Rendel's suggestions may, as far as possible, be complied with. It is also desirable, for the successful prosecution of the operations, that, within the limits indicated in the last paragraph of my Public Works despatch to the Government of Madras, No. 4, dated the 7th June 1888, no restriction should be placed upon the correspondence and exchange of opinions between Sir A. Rendel and the Engineer in charge of the work.

MEMORANDUM by Sir A. M. RENDEL, dated 4th December 1891.

The quarterly reports of the Engineer in charge of the Harbour Board are now confined to mere tabulated statements of concrete blocks made and deposited, of stone received on the work,

of cement received and issued, and so on, which may be sufficient for the purposes of those on the spot, but, unless supplemented by a report on the condition of the works and harbour generally, supply no material for comment here. It is satisfactory in one sense that this is so, for it implies that the works are progressing quietly and steadily without accident; but it is difficult for a Consulting Engineer to keep in touch with what is going on when none but statistical information in its barest form reaches him.

The two papers which I propose to notice now are (1) the progress return for the quarter ending 30th September last and (2) the papers forwarding the revised estimate for the completion of the works, amounting to Rs. 1,23,83,386, sent home with the Government despatch of the 8th September 1891.

In respect to the progress report, I gather from the return of work done that the wider portions of the two piers which form the approaches to the heads had been reached and are now well commenced; that 25 lineal feet of this portion of the superstructure of the north pier and 12½ feet of that of the south pier were completed and 4,828 cubic yards of concrete blocks made during the quarter; and that the total expenditure during the quarter was Rs. 1,11,207. I presume that this includes establishment.

I would suggest that the quarterly return would be more valuable if it contained a statement of (1) estimated sum required to complete the works at the commencement of the quarter, (2) cost of work done during the quarter, (3) estimated cost of additional works found necessary during the quarter, and (4) estimated cost of completing the works from and after the end of the quarter.

The return should be also, I think, accompanied by a report from the Engineer in charge on the condition and prospects of the works and harbour generally from the engineering point of view and specially in regard to accretion and erosion in front on either side and inside of it, and if either the Engineer or some other authority would send with the return a report upon the use made of the harbour during the quarter and the needs made evident in respect to commercial works in or in connection with it, we here should, I think, be in a better position than we are to form a judgment upon the questions in regard to the harbour which will undoubtedly arise— indeed have already arisen—in respect to its commercial future.

I come now to the completion estimate sent home by the Government in September last.

By this estimate it appears that the total cost of the harbour is now expected to reach Rs. 1,23,83,386. This sum, we are told, provides for all work now considered necessary for the completion of the harbour with an eastern entrance. It also includes a sum of Rs. 1,55,462 for further protection of the foreshore outside the harbour on its north side; but a credit of Rs. 2,33,460 has been taken in it for the value of plant which will be available for sale on the completion of the works.

The estimate is apparently made up as follows :—

	Rs.
Expenditure to 31st December 1884	65,54,490
Revised estimate for completion now proposed	58,28,896
Total ...	1,23,83,386

The estimated cost sanctioned by para. 2 of Public Works Department letter, No. 325 M., dated 10th August 1886, was as follows :—

	Rs.
Expenditure to 31st December 1884	65,54,490
Estimate for completion	45,90,051
Total ...	1,11,44,541

The estimate of 1890 is therefore greater than that of 1886 by Rs. 12,38,845. The excess is mainly due to the increased quantity of cement put into the concrete, to a rise in the price of cement, to fall in exchange, to losses by delay, to additional works and plant found necessary since 1886 to the safe construction of the harbour, and to expenditure on protecting the shore north of the harbour.

Upon this estimate the Harbour Board request the Government to make a further advance of 15 lakhs to complete the harbour with an eastern entrance and for the extension of the revetment to protect the foreshore to the north. The reason for asking 15 lakhs instead of the Rs. 12,38,845 shown to be necessary appears to be that the difference between the two sums is the amount for which it is expected the plant employed in the construction of the harbour will sell on its completion; but this sum will, of course, not be available until after the completion, so that the proposal of the trustees comes to this, that the sum of 15 lakhs shall be advanced to them, they expecting that it will leave them shortly after the completion of the works with Rs. 2,33,460 in hand.

I observe that Rs. 2,60,000 of the 15 lakhs is credited to me for works which I am said to have "ordered." Of course I only recommended these works, but they have been, as you are aware, accepted as necessary.

It is evident that, if the harbour is to be completed, this extra grant must be made.

The information at my disposal is not sufficient to enable me to say that 15 lakhs will complete the works as now sanctioned; but, from the character and experience of the Engineer in charge of them, I think the estimate may be considered as fair an approximation to the actual cost as works of this kind admit of being made. It must not, however, in my opinion, be expected that 15 lakhs will bring the expenditure on the harbour to a final close. If the harbour is to be made really commercially useful, a further and much larger sum will have, as I have before reported, to be spent upon it; but, though the total expenditure on the harbour, when completed fit for commercial use, will be large, and, though it is, in my opinion, to be wished that it had been designed on a somewhat larger scale and its works of considerably greater strength, I cannot but think that its value even as it is will be fully commensurate with its cost.

In conclusion, I have to observe that it seems to me that the further protection of the shore on the north side of the harbour estimated to cost Rs. 1,55,462 is unavoidable, except at the expense of much greater loss by land and property destroyed; but it is not at all sure that when that sum has been spent no further works of protection will be necessary. All we shall be able to say, I think, with certainty is that what has been done is all to the good and that the cost of the protection, though large, is compensated, in part at least, by the value of the land formed by the corresponding accretion which has taken place on the south and more valuable side of the harbour, provided (which I do not expect) the accretion does not extend so far seaward as to interfere with the entrance to the harbour.

The expenditure now proposed will extend the present protective bank of stone about 800 yards northwards. The method in which it is now proposed to deposit the stone, namely, in the form of a bank along the line of high-water mark, so that it may settle down into place as the sand below it is eroded, is, I think, preferable to the mode previously adopted of tipping a bank of stone into deep water; but it is mainly preferable to my mind because it is the cheaper method.

Erosion beyond the point to which it is now proposed to carry the bank may probably be disregarded, because, being further from the harbour piers, their influence on wind and sea may be expected to be much slighter than it has been nearer the harbour and because the land which may be washed away will be comparatively of much less value.

ORDER—dated 12th February 1892, No. 430 W., Public Works.

Communicated to the Chairman, Harbour Trust Board, with reference to the undermentioned orders :—

G.O., No. 2065 W., dated 9th July 1888.
" " 718 W. " 13th March 1891.
" " 720 W. " 13th " "
" " 1422 W. " 25th May "
" " 1966 W. " 23rd July "

2. Particular attention is invited to the wishes expressed in paras. 4 and 5 of the despatch from the Secretary of State, which should be carefully observed.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chairman, Harbour Trust Board.
" Marine Department.

Exd. A. D. Xavier,
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1892} Madras.

PUBLIC WORKS.

Dated February, 12th.

Read.

Encl.

G.O., 12th Feb. 1892, No. 430 W.

FEBRUARY.

Harbour Works, Madras

Sanction accorded by the Secretary of State to the revised estimate of Rs. 1,23,83,386 for constructing the — communicated to the Chairman, Harbour Trust Board, with remarks.

10TH NOVEMBER 1891, No. 2999 W., PUBLIC WORKS.

950-5/4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ— the following papers :—

From W. P. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 28th September 1891, No. 1758.

I have the honour to submit, herewith, for the information of Government, comparative statement of expenditure upon the Madras Harbour Works for the quarter ending 30th June 1891.

Transferred to the Public Works Department.

(By Order.)

(Signed) N. S. BRODIE,
Ag. Asst. Secretary.

10th October 1891.

From W. P. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 26th October 1891, No. 2033.

I have the honour to submit, herewith, for the information of Government, a statement of progress made upon the Madras Harbour Works during the quarter ending 30th September 1891 together with tracing in duplicate.

ENCLOSURE.

EXTRACT of Proceedings of the Trustees of the Harbour of Madras at a meeting held at the offices of the Board on Friday the 23rd day of October 1891.

* * * * *

12. Read statement from the Board's Engineer of progress made on the Madras Harbour Works during the quarter ending 30th September 1891 and examined tracing.
Resolved that this report be submitted to Government.

* * * * *

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1892} Madras.

PUBLIC WORKS.

Dated February, 12th.

Read.

Encl.

G.O., 12th Feb. 1892, No. 430 W.

FEBRUARY.

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950-5/4

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EXTRACT of Proceedings of the Trustees of the Harbour of Madras at a meeting held at the offices of the Board on Friday the 23rd day of October 1891.

* * * * * *

12. Read statement from the Board's Engineer of progress made on the Madras Harbour Works during the quarter ending 30th September 1891 and examined tracing.
Resolved that this report be submitted to Government.

* * * * * *

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

PROGRESS STATEMENT NO. 22.

STATEMENT showing progress during quarter ending 30th September 1891 as shown on accompanying tracing plan No. 21.

MADRAS HARBOUR WORKS.

Note.—The figures in *black* type denote, for comparison, progress and quantity of work done in quarter ending September 1890.

No. of item.	Particulars and quantity of work, &c.	Sub-heads of work.	North Pier.					South Pier.					Railway lines.				Pallávaram quarries outturn.	Concrete block-making.	Protective works.	Total expenditure during quarter ending September 1891.
			Rubble base.	Pier head.	Wave-breaker.	Concrete capping.	Base protection.	Rubble base.	Pier head.	Wave-breaker.	Concrete capping.	Base protection.	At works.	At quarries.	Sand line.	Beach improvements.				
		Column.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Rubble stone deposited from boats	Tons.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	Do. do. from wagons	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,224½ / 16,561½	..
3	Total quantity rubble stone received on works ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	Do. blasted chips do. ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7,237½ / 16,561½	..	..	..
5	Concrete blocks set by divers	Number.	..	350 Ordinary superstructure. / 75 Pier head commencement.				..	109 Pier head commencement. / 45 Pier head wide section = 38 feet.				..	..	..	..	12,805½ / 4,687½	..	..	..
6	Do. deposited in wavebreaker ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	Do. made for superstructure ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	177 / 117	..	..
8	Do. do. pier head ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	Wrought iron cramp fixed in position ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Nil. / 183	..	..
10	Total outturn of concrete	C. yds.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	Advance or progress of completed superstructure.	Ry. ft.	..	218½ Ordinary superstructure. / 25 Pier head commencement.				..	37½ Pier head commencement. / 12½ Pier head wide section = 38 feet.				..	..	..	..	..	8,643 / 4,828	..	..
12	Rubble base protected with concrete	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	Metre gauge, 40 lb. per yard laid new	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	Do. do. relaid or renewed ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	Do. do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	Broad gauge, 50 lb. per yard laid ..	,,	..	24	..	..	..	..	12	..	..	..	..	..	..	..	..	..	..	..
17	Do. do relaid or renewed ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	Do. do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	Titan gauge, 75 lb. per yard laid new ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	Do. do. relaid or renewed ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	Do. do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	Approximate expenditure under sub-heads of work.	Rs.	315	11,044	..	..	..	1,218	9,229	197	4	477	..	..	*	..	24,463	55,971	* 8,293	1,11,207

Nil casks of cement received on works during quarter ending September 1891, containing — TONS. — CWTS. — QRS. — LB.
4,207½ do. issued for do. do. do. do. 751 19 1 14
11,954½ do. balance in store at end of do. do. do. 2,134 0 3 26

Quantity due on indents.—Nil.

MADRAS,
7th October 1891.

(Signed) A. LEE-POGSON,
Engineer, Harbour Trust Board.

2

10TH NOVEMBER 1891, No. 2999 W., PUBLIC WORKS.

10TH NOVEMBER 1891, No. 2999 W., PUBLIC WORKS. 3

Transferred to the Public Works Department,

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

29th October 1891.

ORDER—dated 10th November 1891, No. 2999 W., Public Works.

The report of progress for the quarter ending 30th September 1891 and statement of expenditure for the previous quarter, as compared with the sanctioned estimate, will be forwarded to the Secretary of State for India together with the plan.

2. A copy of the report and statement of expenditure will also be forwarded for the information of the Government of India.

(Here enter No. 3000 W., dated 10th November 1891.)

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chairman, Harbour Trust Board.
" Marine Department.

ENDORSEMENT—dated 10th November 1891, No. 3000 W., Public Works.

Copy of the above forwarded to the Government of India.

(By Order.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. C. A. Manisawmy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated November, 10th.

Read. *Encl.*

G.O., 10th Nov. 1891, Nos. 2999, 3000 W.

NOVEMBER.

Madras Harbour Works

Forwarding copy of the progress report of the — for the quarter ending 30th September 1891 and statement of expenditure for the previous quarter as compared with the sanctioned estimate.

22ND MARCH 1892, No. $\frac{4}{950}$ W., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

950-51/1

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

MY LORD,

In continuation of our despatch, No. $\frac{15}{2999}$ W., dated 10th November 1891, we have the honour to forward a copy of our Proceedings, No. 950 W., dated 22nd March 1892, embodying a report of progress of the Madras Harbour Works for the quarter ending 31st December 1891 and a statement of expenditure for the previous quarter as compared with the sanctioned estimate.

2. A plan showing the state of the works at the end of the quarter ending 31st December 1891 is also forwarded.

3. The instructions contained in your Lordship's despatch, No. 1 (Public Works), dated 7th January 1892, in regard to an amended form of report have been duly noted for future guidance and the report for the quarter ending 31st March will be prepared accordingly.

We have the honour to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) WENLOCK.

(„) H. E. STOKES.

(„) J. H. GARSTIN.

FORT ST. GEORGE,
22nd March 1892.

Exd. A. D. Xavier.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

LETTER to the Right Honorable the Secretary of State for India.

No. $\frac{4}{950\ W.}$ dated 22nd Mar. 1892.

Forwarding copy of Proceedings embodying the progress report of the Madras Harbour Works for quarter ending 31st December 1891 and statement of expenditure for the previous quarter as compared with the sanctioned estimate.

98

Harbour Trust Board Office.

MADRAS, 25th January 1892.

No. 2998

From Ware Austin Esqre b.s.

CHAIRMAN, HARBOUR TRUST BOARD,

MADRAS.

950-51/9 Price

To The Honorable J. F. Price b.s.

CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

Sir,

I have the honor to submit herewith, for the information of Government a Statement of progress made upon the Madras Harbour Works during the quarter ending 31st December 1891 together with tracing in duplicate.

I have the honor to be
Sir
Your obedt Servt

Rec'd

Chairman
Harbour Trust Board

A.S.C

Mar 2
1034/92

2 SP

EXTRACT of Proceedings of the TRUSTEES OF THE HARBOUR OF MADRAS, at a Meeting held at the Offices of the Board on Friday the 22nd day of January 1892.

450-51/11

2. Read statement of progress upon the Madras Harbour works for the quarter ending 31st December 1891.

Recorded and resolved that this statement be submitted to Government.

True extract

HARBOUR TRUST BOARD
SECRETARY'S
25 JAN. 92
OFFICE.
MADRAS.

C. Pinsent

Secretary
Harbour Trust Board

A.S.C.

MARINE DEPARTMENT.

P. W. CURRENT No. 1054

D 29-1-92 No 168
Transferred to the
Public Works Dept.
Redirected
Chief Secy

From

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

SECRETARIAT
26 JAN 92
GOVERNMENT C. MINUTE

To

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department

DATED 25th January 1892.
RECEIVED 26
Regd 26
ENCLOSURES 4.

No. 2998

SUBJECT.

Submitting for information
& post progress statement
of H. W. work for the
quarter ending 31st Dec: 91
with plan.

Transferred.

LAWRENCE ASYLUM PRESS.

Await the Statement
Explanation for the
Quarter ending 30 Sep 91
for which a reminder
has been sent.

Harbour Trust Board Office.

MADRAS, 7th March 1892.

No. 3794

From Ware Austin Esqre b. s.

CHAIRMAN, HARBOUR TRUST BOARD,
MADRAS.

To

The Honorable J. T. Price b. s.

CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

Sir.

I have the honour to submit herewith, for the information of Government, a comparative statement of expenditure upon the Madras Harbour works during quarter ending 30th September 1891.

I have the honour to be
Sir
Your most obedient servant

Chairman
Harbour Trust Board

MARINE DEPARTMENT.

P. W. CURRENT No. 2629

From

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

To

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department

Dated 7th
Received 7th } March 1892.
Rgd 8
Enclosures Three

No. 3794

SUBJECT.

Submitting comparative Statement of Expenditure upon Madras Hr. Works for the Quarter ending 30th Septr. 91.

Transferred

LAWRENCE ASYLUM PRESS.

d/10th March 1892 No. 462

Transferred to the Public Works Department.
By order &c
Chief Secry

F.D.B.
8/3

R 11.3.92
E.
(4 enclosures)

No. 2999-3000W d/10-11-91.
" 15/2995W - 10-11-91
" 430W - 12-2-92
" 528C - 2-2-92

No. 950 Dated 22nd March 1892

PUBLIC WORKS DEPARTMENT.

B 7/7
civil 28 Mar

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Letter from the Chairman H.T. Board (Hd. Qrs. No. 2998 d/25.i.92)
Endorsement in the Marine Dept (" " 168 d/29.i.92)
Letter from the Chairman H.T. Board (" " 3794 d/7.iii.92)
Endorsement in the Marine Dept (" " 462 d/10.iii.92)

950-5/15

The report of progress for the quarter ending 31st December '91 and statement of expenditure for the previous quarter, as compared with the sanctioned estimate, will be forwarded to the Secretary of State for India together with the plans.

2. A copy of the report and statement of expenditure will also be forwarded for the information of the Government of India.

3. The report for the quarter ending 31st March 1892 should be prepared in the amended form required by the Secretary of State - vide G.O. No. 430W dated 12th February 1892.

950-5/15

The Chairman H.T. Board.
" Marine Dept.

D 24/3

(P.E. No 951 W d/ 22d March 1892)

Copy of the above forwarded to the Government of India.

(P.E. No 4/950 W d/ 22-3-92)

To
The Right Honorable
the Secretary of State for
India, India Office.
London.

My Lord,

In continuation of our despatch No 15/2999 W dated 10th November 1891, we have the honor to forward a copy of our Proceedings No 950 W d/ 22d March 1892 embodying a report of progress of the Madras Harbour Works for the quarter ending 31st December 1891 and a statement of expenditure for the previous quarter as compared with the sanctioned estimate.

2. A plan shewing the state of the works at the end of the quarter ending 31st December 1891 is also forwarded.

3. The instructions contained in your Lordship's despatch No 1 Public Works dated 7th January 1892 in regard to an amended form of report have been duly noted for future guidance, and the report for the quarter ending 31st March will be prepared accordingly.

S. 95 5/10 S 12-5

Blue

4-7-92

24/3 40 W 1st Statement
950 Trans

C No. 2629
1034

Govt. of 1892 Madras.
PUBLIC WORKS.

Dated 30/12/91 Letter from Govt. dt. 15/3/92

Read. End.

G.O. 22 March 1892 No. 950
951
4
950

70/3
10/2

Madras Harbour Works.

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(17)

Progress report of the — for Q.E. 31.XII.91 and statement of expenditure for the previous quarter, As compared with the sanctioned estimate ordered to be furnished to the S of S, and copy of the report and statement of expenditure forwarded to the G of I for information.

Forwarding copy of P.W. Embodying the progress report of the M.H.W. for Q.E. 31.XII.91 and statement of expenditure for the previous quarter as compared with the sanctioned estimate.

M.H.W.

Forwarding copy of the progress report of the — for the Q.E. 31.XII.91 and statement of expenditure for the previous quarter as compared with the sanctioned Estimate.