7619

Govt. of 18 95 Madras.

PUBLIC WORKS.

Dated

Rect.

Encl.

G.O., 24th October 1895, No. 2614
2615

Madras Harbour Works.

Ordered that the progress
Report of the — for the
quarter ending 30th June
1895 be forwarded for the
information of the Secretary of
State and the Govt of India.

—

Ditto. Forwarding Copy of
enclosing the Progress
Report of the — for the quarter
ending 30th June 1895.

—

Forwarding the progress
Report of the Madras
Harbour Works for the
quarter ending 30th June
1895.

of India.

(H.E. No 10 (1914 W) d/24-10-95)

To,
The Right Honorable
The Secy of State for India

My Lord,

In continuation of our despatch No. 7 dated 26th June 1895, (1533 W) we have the honor to forward the progress report of the Madras Harbour Works for the quarter ending 30th June 1895.

2. The report is accompanied by two drawings shewing the position and quantity of work done during the quarter.

We have &c.

Progress report of the Madras Harbour Works for qr. ending 30th June 1895

W
Box

A/

PUBLIC WORKS DEPARTMENT.

No 2614 W/ 24th October 1895

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 31st October

READ the following

Endorsement no, the Marine Department on letter from the Chairman H.I. Board Madras, No 7497 d/20 Sept 1895 (H.E. No 2318 d/30 Sept 95)

26.P 26

Ordered that the report be forwarded for the information of the Secretary of State and the Government of India.

(H.E. No 2615 W d/24 October 1895)

Copy of the above, with two plans shewing the progress of the work forwarded to the Govt.

To
The Chairman H.I.B.
Marine Dept.

Recd 29/10

W
30 Oct

P.W. CURRENT No. 7619

Recd: 7.10.95
Encl: 3 (1×3S.C. of No 1+2 copies of plans of No 2 & No 3)
Marine Current 761

24 25

Endt No 2318
Transferred to the Public Works Department.

Ranie
Actg Under Secy

Revd 1.10.95
Report & triplicate & one C.S plans

C.W 26995

Fd 2. 26.9.5.

Collated
30 Sept 1895

DS 408A

P.W. Encl (3) C
7/19/95

Statement 41 (c).

MADRAS HARBOUR WORKS.

COMPARISON OF EXPENDITURE TO DATE WITH SANCTIONED ESTIMATE FOR THE QUARTER ENDING 30TH JUNE 1895.

Sub-head of Work.	As per Estimate Sanctioned in Secretary of State's Despatch, No. 1, dated 7th January 1892.				As Executed.					Arrears not paid.	Value of work done up to date, columns 11 and 12.	Remarks.
	Quantity.	Rate.	Per.	Cost.	Total.	Quantity.	Rate.	Expenditure. Total up to end of last Quarter.	During the Quarter.	Up to date.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Rs. A. P.		Rs.	Rs.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Expenditure up to 31st December 1884.													
1 Works	.....	...	...	55,09,324	...	...	...	55,09,324 8 10	...	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	...	5,29,904 0 0	
3 Tools and Plant	.....	...	...	5,15,262	...	...	...	5,15,262 6 0	...	5,15,262 6 0	...	5,15,262 6 0	
Total	.....	...	...	...	65,54,490	...	...	65,54,490 14 10	...	65,54,490 14 10	...	65,54,490 14 10	
Revised Estimate.													
4 Alteration and extension of block ground	Prely...	...	...	5,892	5,892	...	...	5,892 0 11	...	5,892 0 11	...	5,892 0 11	
North Pier.													
5 Ordinary rubble deposited from breakwater.	Tons 13,930	1 12 0	Ton	24,378		13,930	1 12 0	24,377 9 0	...	24,377 9 0	...	24,377 9 0	
6 Do from boats	,, 2,06,896	2 0 5	,,	4,19,218		2,05,477	2 0 8	4,15,132 8 10	...	4,15,132 8 10	4,085 7 2	4,19,218 0 0	
7 Concrete blocks for building	C. yds. 51,320	11 8 0	C. yd.	5,90,110		51,320	11 8 0	5,90,110 0 0	...	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		2,615	2 1 1	5,414 11 2	...	5,414 11 2	...	5,414 11 2	
9 Do. from 2,200 to 3,600 feet	,, 36,520	2 14 3	,,	1,05,569		36,520	2 14 3	1,05,569 0 0	...	1,05,569 0 0	...	1,05,569 0 0	
10 Do. at Pierhead	,, 12,185	9 8 11	,,	1,16,424		12,185	9 8 10	1,16,415 4 0	...	1,16,415 4 0	...	1,16,415 4 0	
11 Concrete in mass for filling	,, 263	4 8 3	,,	1,188		263	4 8 3	1,188 0 7	...	1,188 0 7	...	1,188 0 7	
12 Wavebreaker blocks	,, 288	9 5 7	,,	2,692		288	9 5 7	2,692 0 0	...	2,692 0 0	...	2,692 0 0	
13 Do. concrete blocks	,, 77,355	10 14 11	,,	8,45,591		69,863	12 1 8	8,45,459 12 4	...	8,45,459 12 4	...	8,45,459 12 4	
14 Depositing do.	,, 77,932	1 0 0	,,	77,928		70,457	1 1 8	77,918 8 4	...	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		2,029	10 4 8	20,358 0 0	502 1 8	20,860 1 8	30 0 2	20,890 1 10	
16 Cramps, Iron	No. 331	9 10 1	Each	3,188		313	10 3 0	3,188 0 0	...	3,188 0 0	...	3,188 0 0	
17 Concrete capping	C. yds. 16,352	11 3 10	C. yd.	1,83,798		10,471½	16 11 4	1,06,542 14 1	61,016 4 1	1,67,559 2 2	7,374 11 4	1,74,933 13 6	
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	3,397 5 6	1,03,854 15 10	...	1,03,854 15 10	
Total for North Pier	.....	...	...	...	24,80,607	...	...	24,14,878 14 8	64,915 11 3	24,79,739 9 11	11,499 10 4	24,91,239 4 3	
South Pier.													
19 Ordinary rubble deposited from boats	Tons. 1,75,078	2 9 0	Ton	4,49,052		1,73,659	2 9 4	4,44,126 1 4	...	4,44,126 1 4	4,925 14 8	4,49,052 0 0	
20 Large do. deposited from breakwater	,, 8,615	1 12 0	,,	15,076		8,615	1 12 0	15,075 13 0	...	15,075 13 0	...	15,075 13 0	
21 Concrete blocks for building	C. yds. 45,066	11 3 1	C. yd.	5,04,510		43,341⅛	11 10 3	5,04,510 0 0	...	5,04,510 0 0	...	5,04,510 0 0	
22 Setting blocks at commencement	,, 2,556	3 1 6	,,	7,912		2,556	3 1 6	7,911 13 3	...	7,911 13 3	...	7,911 13 3	
23 Do. from 2,550 to 3,700 feet	,, 30,160	3 7 11	,,	1,05,461		30,160	3 7 11	1,05,461 0 0	...	1,05,461 0 0	...	1,05,461 0 0	
24 Do. at Pierhead	,, 12,350	11 1 3	,,	1,36,845		12,350	11 0 10	1,36,476 1 6	0 4 2	1,36,476 5 8	...	1,36,476 5 8	
25 Concrete in mass for filling	,, 602	7 9 1	,,	4,555		602	7 9 1	4,554 14 4	...	4,554 14 4	...	4,554 14 4	
26 Do. in Cylindrical Pierhead	,, 2,355	15 0 0	,,	35,325		...	...	32,952 3 7	2,370 15 5	35,323 3 0	1 13 0	35,325 0 0	
27 *Do. in filling in between Coursed Block-work and Caisson*	,, *184*	*15 0 0*	,,	*2,760*		*790¼*	*15 0 4*	*11 5 0*	*11,853 11 0*	*11,865 0 0*	...	*11,865 0 0*	
28 Wavebreaker concrete blocks	,, 47,231	11 1 6	,,	5,24,070		42,589¾	12 4 7	5,19,240 8 7	3,963 2 5	5,23,203 11 0	...	5,23,203 11 0	
29 Depositing do.	,, 47,714	1 5 8	,,	64,708		41,073	1 9 0	64,260 3 9	...	64,260 3 9	...	64,260 3 9	
30 Concrete in protection to Rubble Base	,, 1,700	9 10 6	,,	16,420		1,173⅛	13 10 5	14,932 9 1	1,029 4 1	15,961 13 2	51 2 9	16,012 15 11	
31 Cramps, Iron	No. 259	11 7 7	Each	2,972		220	13 8 1	2,972 0 0	...	2,972 0 0	...	2,972 0 0	
32 Concrete capping	C. yds. 16,247	11 5 8	C. yd.	1,84,495		669	... ...	23,646 4 6	7,329 8 7	30,975 13 1	1,741 1 11	32,716 15 0	
33 Iron Caisson	No. 1	... ...	,,	18,000		...	... ...	18,000 0 0	...	18,000 0 0	...	18,000 0 0	
34 Preparing Base for and setting Cylindrical Pierhead	,, ...	... ...	,,	28,665		...	... ...	38,434 14 4	—35 3 5	38,399 10 11	...	38,399 10 11	
Total for South Pier	.....	... ...	...	...	21,00,826	—	... ...	19,32,565 12 3	26,511 10 3	19,59,077 6 6	6,720 0 4	19,65,797 6 10	
Extending the Rubble Revetment protecting the foreshore North of Harbour.													
35 Rubble Stone Revetment	Tons 70,600	2 1 0	Ton	1,45,613	...	91,051	1 8 8	1,40,093 13 2	...	1,40,093 13 2	...	1,40,093 13 2	
36 Railway Lines	.....	... ...	...	9,849	...	...	... ...	11,665 7 10	...	11,665 7 10	...	11,665 7 10	
				...	1,55,462	...	... ...	1,51,759 5 0	...	1,51,759 5 0	...	1,51,759 5 0	
37 Tools and Plant	.....	... ...	...	...	6,11,656	...	... ..	6,11,541 9 10	...	6,11,541 9 10	...	6,11,541 9 10	
38 Contingencies	.....	... ...	...	...	2,17,415	...	... ..	2,25,984 4 2	1,025 9 9	2,27,009 13 11	72 8 0	2,27,082 5 11	
39 Establishment	.....	... ...	...	...	5,34,369	...	... ..	6,08,444 15 11	22,768 2 5	6,31,213 2 4	5,966 14 10	6,37,180 1 2	
40 Materials at site (Concrete blocks in yards)	C. yds.	... ...	...	...	...	2,301¹⁰¹⁄₁₀₀	14 6 5	36,184 0 7	—7,292 8 7	28,891 8 0	4,242 13 1	33,134 5 1	
41 Advances to Work-people	.....	... ...	...	...	...	...	... ...	34 3 2	... ...	34 3 2	... ...	34 3 2	
Total of Estimate and value of work done	...	... ...	...	...	61,06,227	...	... ...	59,87,230 2 6	1,07,928 9 1	60,95,158 11 7	28,501 14 7	61,23,660 10 2	
Deduct Probable recoveries due to sales of Tools and Plant	.....	... ...	...	...	2,77,331	...	... ...	—29,799 11 9	...	—29,799 11 9	... ...	—29,799 11 9	
										60,65,358 15 10	28,501 14 7	60,93,860 14 5	

Expenditure up to 31st March 1895 from commencement of Works ... Rs. 1,25,11,921-5-7
Do. during current official year from 1st April 1895 to 30th June 1895 ,, 1,07,928-9-1 Grant for 1895-96 Rs.
Total outlay to 30th June 1896... Rs. 1,26,19,849-14-8

Progress Statement No. 41 (d).

MADRAS HARBOUR WORKS.

Statement showing Progress during Quarter ending 30th June 1895 as shown on accompanying Lithographed Plan, No. 40.

	Particulars and Quantity of Work done during the Quarter ending 30th June 1895.	Sub-heads of Works.	North Pier Concrete Capping.	North Pier Apron or Base Protection.	South Pier Head Concrete backing between Caisson and Superstructure.	South Pier Head Apron or Base Protection.	Pallavaram Quarries out-turn.	Concrete made for Work.	Railway Line at Work.	Total Expenditure during Quarter.	
		Column.	A.	B.	C.	D.	E.	F.	G.	H	
1	Rubble Stone deposited from boats ... Tons...	...	...	...	...	...	...	...	...	...	
2	Do. do. from wagons ... ,,	...	...	...	...	...	...	...	...	...	
3	Total quantity blasted chips received on works ... ... Tons.	...	...	...	...	...	7,597½	...	...	...	
4	Concrete Blocks set by Divers ... No...	...	...	...	63	...	...	...	...	...	
5	Do. do. raised by Divers ... ,,	...	...	...	63	...	...	...	...	...	
6	Do. do. made in situ, capping... ,,	...	31	...	...	...	...	...	...	...	
7	Total out-turn of concrete c. yds...	...	4,073¾	43	790¼	65½	...	4,465½	...	...	
8	Advance or progress of completed work. Ry. ft.	...	760¾	...	...	...	...	...	...	...	
9	Rubble base protected with concrete ,,	...	...	70	...	105	...	...	...	...	
10	Broad Gauge line, per yard laid new ,,	...	...	...	...	...	...	...	450	...	
11	Do. do. do. taken up ,,	...	...	...	...	...	...	...	450	...	
12	Approximate Expenditure under sub-heads of work ... ... Rs...	...	46,841	532	24,612	1,080	9,945	...	...	83,010	

		Tons.	Cwt.	Qrs.	lbs.	Quantity due on Indents	Tons.	Cwt.	Qrs.	lbs.
1,994	Casks of cement received on Works during quarter ending 30th June 1895 containing.	356	1	1	20	... ...				
5,198½	Do. do. issued for do. do. do.	928	6	0	12	... ...	2,142	17	0	16.
6,099¾	Do. do. balance in store at the end of do. do.	1,089	5	1	17	... ...				

MADRAS HARBOUR WORKS,
29th August 1895.

A. LEE-POGSON,
Engineer, Harbour Trust Board.

23. **Summary of Progress.**—The following statement is the summary of progress made on the Harbour Works during the quarter under review.

24. **Supply of Portland Cement.**—The S.S. "Manora" arrived with 1,500 casks of Portland Cement, containing Tons 267-17-0-16 and the SS. "Gorkha" brought 500 casks, containing Tons 89-5-2-24 of Cement from England; and a further supply of Tons 2,142-17-0-16 was due on previous Indents.

25. The balance of Cement in store on 30th June 1895, was 6,099¾ casks containing Tons 1089-5-1-17 of Cement.

26. The issues during the quarter ending 30th June 1895, was 5,198½ casks containing Tons 928-6-0-12.

27. **Expenditure.**—The expenditure upon the Works during the quarter was Rs. 1,07,929, including Establishment, &c., and the quarter closed with a balance upon the Sanctioned Estimate of Rs. 40,867 in materials, Cement and Stores, already upon the works, on the 30th June 1895.

28. **Miscellaneous.**—The usual repairs and the upkeep of all machinery, cranes, Railway lines, &c., and all haulage of coal and other traffic was done by the Harbour Works locomotives for the Traffic Department as usual.

A. LEE POGSON,
Engineer, Harbour Trust Board.

MADRAS HARBOUR WORKS OFFICE,
29th August 1895.

15. **Sea Bottom within the Harbour.**—The depth of water inside the Harbour has remained the same, excepting immediately along the South Pier, where the usual sand bank has formed again, by the sand being sucked through the South Pier old work.

16. This bank is at its maximum height, and ranges from low water along the wall, with a steep slope down to its foot, which dies out at 90 to 100 feet from the Pier; in this position it remains each year, until a rough sea rolling down the South Pier drifts the sand on shore, which has gradually advanced the foreshore inside the Harbour each year.

17. As soon as the All-round Titan Crane is relieved of construction, the sand to the south of the Pier will have to be dredged down to the holes in the wall, which must be filled up with concrete, and then the bank inside the Harbour can be removed; or the other alternative is to re-wall the South Pier with a water-tight deep wall, which forms part of the Harbour Improvements Scheme, and therefore this sand bank is best left alone until it has been decided what form the improvements are to take, and meanwhile the berthing area for steamers is not effected in entering or leaving the Harbour; but should the sternfast mooring of No. 1 Berth part, a long and deep vessel would touch the sand bank.

18. The High Water Mark along a portion of the south half of the Harbour shows an advance of 40 feet in the quarter, while the northern half has receded by 20 to 35 feet throughout its length, due to there being more wave motion along the North Pier in the quarter.

19. It will be noticed the High Water Mark shown this quarter, is DeHavilland's High Water Mark, which is nearly a foot below the maximum High Water and therefore the maximum High Water line, if the tide always rose to the same height, would be some 10 feet further inshore than the water line shown as DeHavilland's sea level, or Harbour Works Datum.

20. The reason DeHavilland's water line has been adopted, is because, with the tide gauge now erected, it is always possible to survey a fixed level of water line, and show a correct advance, or erosion of foreshore, while hitherto the highest water line could only be recorded, and as the height of High Water varies, no two records have hitherto been identical, as to sea level; and therefore of little practical value in determining the *actual* changes in the foreshore from time to time.

21. **Foreshore South of the Harbour.**—The High Water Mark south of the Harbour on the 30th June, shows an average advance of 80 feet of foreshore during the quarter, which is less than previoue years, *viz.*, in the same quarter 1892 the advance was 150 feet, and in 1893 it was 120 feet.

22. Soundings are being taken to show how far the advance of foreshore has effected the depth of water along the south arm, but the sea has been too rough to continue the survey. As far as the soundings have gone, there does not appear to be any change, since the last survey in 1893 in the depths between the 10 and 6 fathom lines. The inshore soundings will be taken in the calm weather in September, and a complete survey with sections will be submitted, as soon as the soundings can be plotted.

the 31st March. The work from that date to the close of the quarter, consisted in uniting the cylindrical mass of concrete formed in the caisson, with the bonded block-work behind it, by a backing of mass concrete, as shown on plan, and to prevent this portion of concrete, between the vertical face of the caisson and the sloping face of the superstructure, from forming a wedge, of concrete; certain blocks were removed from the superstructure to form steps, so as to bring the weight of this mass of concrete to bear upon the superstructure foundations. The gap so formed between the caisson, and the end of the masonry wall, was therefore 37 feet long and 38 feet wide at the surface, and to confine the concrete to the required slope, and position, during the process of depositing the concrete below water, 63 blocks were set abutting the sides of the Pier, and the caisson, and these blocks were then caulked to form a mould, down to 40 feet below sea level, into which 790¼ cubic yards of concrete was lowered in specially designed double canvas bags, which on reaching the bottom, turned inside-out, releasing the concrete on the bottom, in still water.

8. This work was completed on the 26th April, and as the water was so calm, which was not the case with the same work at the North Pier last year and caused so much delay, the divers were able to recover the whole of these blocks in two days; and the crane was then travelled to shore on the 29th April, where it remained for the monsoon, during which time it was generally overhauled.

9. **South Pier Rubble Base Protection.**—On the 26th May, the Titan Crane repairs were completed, and it was at once run out and commenced dredging, to lower the rubble base around the caisson, necessary for consolidating or protecting the base with a layer of concrete, at 39 feet below water level, as has been done along the inner face of the superstructure, to prevent scour.

10. By the 27th June, this dredging was completed, and from the 28th to 30th June, 65⅓ cubic yards of concrete was deposited under water, around the caisson, and along the base for a distance of 105 feet, which enabled the caisson, capping being started at once, and to date the lighthouse has been built, and 300 feet of the South Pier head completed with its lighthouse and capping.

11. **Pallavaram Quarries and Concrete-making Machinery**—The concrete-making machinery was thoroughly-overhauled from the 1st to 14th May, otherwise it was running steadily during the quarter, and the total out-turn of concrete for both Piers was 4,465½ cubic yards; and the out-turn of blasted chips, received from the Pallavaram quarries during the quarter, amounted to 7,597½ tons.

12. **Protective Works North of Harbour.**—Throughout the line of revetment, there has been no change or movement in the stone during the quarter, but the rails and sleepers are now so rusty and rotten that a new line of rails will be required as soon as the revetment requires feeding with stone.

13. The High Water Line between the North Pier, and the old railway jetty, which is not revetted; shows an advance of 50 feet during the quarter, but this change is only temporary and due to the absence of a rough sea, which has allowed the surf to form a much steeper slope of foreshore, and so advance the water-line.

14. Along the revetment, north of the railway jetty, no sand has accreted, due to there being a steep bank of stone, with 8 to 10 feet of water always along the revetment.

MADRAS HARBOUR WORKS.

Report of Progress on the Madras Harbour Works for the Quarter ending 30th June 1895.

1. Accompanying this report are the following plans and statements :—

40 (*a*) A plan of the Harbour to a scale of 200 feet to an inch, showing in red the position and quantity of work done during the quarter. The contours in half fathoms, shown on this plan inside and outside the Harbour, are those of the last complete Marine Survey, made in 1893.

2. The positions of the High Water Marks of 30th June 1895, and that of the previous three months, both to the north of the revetment and the south of the Harbour, are shown for comparison.

40 (*b*) A revised plan showing in detail the work done during the quarter at the Pier Heads as now constructed, and the positions of the Caissons at the Pier Heads of the Harbour, with a completed eastern entrance, having a width of 515′ 6″ and deep water alongside each Pier Head.

41 (*c*) A statement comparing the expenditure on different sub-heads of work up to the end of quarter, with the provisions of the estimate.

41 (*d*) A statement showing work done under different sub-heads and particulars of cement received, and issued.

3. **North Pier.**—The work of the North Pier during the quarter consisted in extending the concrete capping towards shore, and the work progressed rapidly until the 20th April, when arrangements had to be made to bring the old Titan Crane to shore, during the monsoon; and as the smaller crane available for continuing this work during the monsoon, was not capable of dealing with the heavy blocks necessary to be moved, the Titan Crane placed a sufficient number of blocks in position before returning to shore on the 28th April. By this arrangement, the North Pier capping was proceeded with during the monsoon.

4. From the 20th to 28th April, there was therefore no capping done on account of the crane being upon other work, and from 1st to 14th May, the 80 HP. stationary engines, boilers, and crushing machinery were thoroughly overhauled. On the 15th May, the capping work was re-started and continued till the 9th June, when the Titan Crane was run out again, as fair weather had set in, and the capping made good progress to the close of the quarter, to which date 760¾ feet of the Pier, had been capped in the quarter, by building 31 large blocks, each covering 4 courses of the superstructure, which required an out-turn of 4,073¾ cubic yards of concrete.

5. The total length of the North Pier completed with capping, measured from the end of the Pier Head, at the close of the quarters, was 1,590′ 9″.

6. **Rubble Base Protection.**—During April and May, whenever the sea was quiet enough, the Divers levelled up the base, ready to receive concrete, and from the 19th to 27th June, 43 cubic yards of concrete was deposited under water, along the base, consolidating it for a length of 70 feet near the landing steps at the North Pier.

7. **South Pier-Head.**—The South Pier caisson was filled with concrete "*en masse*" and completed to seven feet above water level on

STATEMENT OF STORES, &c., EXPORTED BY GOVERNMENT (*Continued.*

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease
Consulting Engineer to Government Railways.	Packages ...	No.	20	...	...	...	...	...	...
Civil Engineering College ...	,, ...	,,	...	1	...	...	...	...	...
Superintendent, Census Operations.	,, ...	,,	...	4	1	...	...	...	..
Post Office ...	,, ..	,,	...	2	2	...	...	...	...
Sanitary Commissioner. ...	,, ...	,,	...	2	2	...	...	...	...
Registrar of High Court ...	,, ...	,,	...	...	...	31	5	4	− 1
Supt., District Jail, Bellary ...	,, ...	,,	...	...	...	1	...	...	...
Asst.Engr., D.P.W. Govt. Brick field	,, ...	,,	...	...	...	52	...	...	...
O. O., 6th Regt. M. I., Madras ...	,, ...	,,	...	...	...	17	...	...	...
Supt.,Jail, Vizagapatam.	,, ...	,,	...	...	...	...	...	2	+ 2
Meteorological Reporter.	,, ...	,,	...	...	...	...	...	8	+ 8
Inspector of Salt...	,, ...	,,	...	...	...	...	...	32	+ 32
Revenue Board, L. R., Forest.	,, ...	,,	...	...	...	...	...	8	+ 8

To

THE SECRETARY,
Harbour Trust Board, Madras.

S. HUTCHENCE,
Traffic Manager,
Harbour Trust.

VIII. STATEMENT OF STORES, &c., EXPORTED BY GOVERNMENT.

Department.	Description.	Class.	1891-92	1892-93	1893-94	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease
Accountant-General	Specie Silver.	Boxes.	411	45	95	...	...	...	...
	,, Copper.	,,	965	200	163	180	10	15	+ 5
	,, Notes...	,,	6	13	8	6	2	...	− 2
	,, Packages	No.	4	1	1	5	...	...	...
Bank of Madras...	,, Silver...	Boxes.	34	...	...	...	...	...	...
,, ,, ...	,, Copper.	,,	...	62	84	...	...	...	...
Ordnance ...	Packages & Pieces.	No.	8,595	5,831	9,257	8,819	1,918	3,573	+ 1,655
Public Works Department ...	,, ...	,,	1,784	488	3,203	1,173	137	784	+ 647
	Iron ...	Tons.	...	...	...	...	...	7	+ 7
	Packages & Pieces.	,,	1,327	1,096	998	1,160	165	346	+ 181
Clothing ...	,, ..	,,	889	974	955	933	288	253	− 35
Police ...	,, ..	,,	591	785	724	960	107	51	− 56
Salt Revenue ...	,, ...	,,	1,377	1,610	2,166	1,027	351	305	− 46
Medical ...	,, ...	,,	8,845	4,330	4,945	3,045	28	298	+ 270
Telegraph ...	,, ...	,,	693	780	623	680	165	203	+ 38
Stationery ...	,, ...	,,	220	298	236	221	30	69	+ 39
Stamps ...	,, ...	,,	7,971	6,205	5,301	6,030	2,056	2,162	+ 106
Commissariat ...	,, ...	,,	526	503	478	618	197	156	− 41
Gazette Press ...	,, ...	,,	390	366	37	98	7	6	− 1
Marine ...	,, ...	,,	77	37	87	105	25	2	− 23
Revenue Board ...	,, ...	,,	51	84	53	35	13	2	− 11
Revenue Settlement	,, ...	,,	75	452	223	138	20	17	− 3
Revenue Survey...	,, ..	,,	...	...	...	...	...	...	...
Superintendent of Prisons ...	,, ...	,,	69	196	103	58	8	4	+ 1
Registration ...	,, ...	,,	66	43	17	62	7	20	+ 13
Conservator of Forests ...	,, ...	,,	34	33	5	5	...	...	...
Quarter-Master General ...	,, ..	,,	...	4	...	...	...	...	...
Government Central Museum ...	,, ...	,,	10	22	13	...	...	2	+ 2
Deputy Collectors.	,, ...	,,	2	9	...	...	...	1	+ 1
Government Astronomer ...	,, ...	,,	...	18	13	21	2	...	− 2
Agriculture ..	,, ...	,,	15	8	2	...	...	...	...
General Hospital..	,, ...	,,	...	...	...	...	...	...	...
State Railways ...	,, ...	,,	100	...	...	...	...	...	...
Govt. Botanist ...	,, ...	,,	...	...	...	48	...	1	+ 1
Inspector of Cattle Diseases ...	,, ...	,,	3	1	...	...	...	...	...
Chemical Examiner.	,, ...	,,	...	1	...	1	...	1	+ 1
Director of Public Instruction ...	,, ...	,,	10	6	13	1	...	...	...
Registrar of University ...	,, ...	,,	13	10	5	5	...	...	...
Collectors ...	,, ...	,,	10	...	6	...	...	...	...
Curator of Government Garden, Ooty	,, ...	,,	11	...	12	...	...	...	...
Engineer, H. T. Board ...	,, ...	,,	...	...	2	...	...	...	...
Crown Officer, High Court ...	,, ...	,,	14	18	5	...	...	...	...
School of Arts ...	,, ...	,,	...	...	...	...	...	...	...
Secretary to Government, Public Department ...	,, ...	,,	2	...	...	...	...	...	...
Registrar-General of Births, Deaths and Marriages ...	,, ...	,,	...	...	...	...	...	...	...
Inam Commissioner	,, ...	,,	1	...	...	...	...	...	...

VII. STATEMENT OF STORES, &c., IMPORTED BY GOVERNMENT.—(Contd.)

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease
Qr.-Master Genl...	Packages ...	No.	...	3	14	...	3	...	— 3
Registrar of High Court ...	,, ...	,,	...	1	4	2	1	1	...
Curator, Govt. Gardens, Ooty ...	,, ...	,,	...	...	...	40	...	68	... — 68
Civil Engineering College ...	,, ...	,,	...	...	...	44	21	1	1 ...
Secy. to the Chief Commissioner of Coorg, Bangalore.	,, ...	,,	...	...	...	...	3	1	... — 1
Rev. Settlement...	,, ...	,,	...	...	...	...	1	6	... — 6
Executive Engineer, Military Works ...	,, ...	,,	...	...	...	...	2,003	6	740 + 734
	Bricks ...	100	...	...	...	...	45	...	... ...
Controller, Military Accounts...	,, ...	,,	...	...	...	...	2	1	2 + 1
Agent for Government Consignments ...	,, ...	,,	...	...	...	...	591	76	... — 76
Government Botanical Gardens ...	,, ...	,,	...	...	...	...	282	40	131 + 91
Steam Dredge Wenlock ...	,, ...	,,	...	...	...	...	...	...	3 + 3
Secretary for Berar, Hyderabad ...	,, ...	,,	...	7	...	...	4	...	1 + 1
Collector ...	,, ...	,,	...	...	...	...	4	...	... ...
O. C., No. 4 Co., E. Dn., R.A., Fort.	,, ...	,,	...	...	...	...	...	...	... ...
O. C. 21st Madras Pion., Bangalore	,, ...	,,	...	...	...	...	...	...	6 + 6
Major C. B. Wilkinson Q.O. Sap. and M., Bangalore ...	,, ...	,,	...	...	...	...	...	...	1 + 1
Commissioner of Paper Currency	,, ...	,,	...	...	...	...	13	...	... ...
O. C., 9th Co., S. Dn., R.A., Fort St. George ...	,, ...	,,	...	...	...	...	1	...	... ...
O. C., ½ Bn. 1st Cheshire Regt., Fort ...	,, ...	,,	...	...	...	...	5	...	2 + 2
Officer in Charge, Pensioners, Madras ...	,, ...	,,	...	...	...	...	3	...	... ...
O. C., Q. O. Sap. and Miners, Bangalore ...	,, ...	,,	...	...	...	...	1	...	17 + 17
O. C., S. Dn., R. A., Madras ...	,, ...	,,	...	...	...	...	1	...	... ...
Sanitary Commissioner ...	,, ...	,,	...	...	...	...	...	...	... ...
Pay Examiner ...	,, ...	,,	...	...	...	...	1	...	12 + 12
Supt. Madras Presidency Trading School ...	,, ...	,,	...	...	...	...	...	..	2 + 2

VII. STATEMENT OF STORES, &c., IMPORTED BY GOVERNMENT.

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Accountant-General.	Specie Silver.	Boxes	403	582	533	489	267	167	— 100
	,, Copper.	,,	5,100	710	780	480	100	...	— 100
	Silver&Copper	,,	...	...	...	...	10	...	— 10
	Notes ...	,,	32	19	30	...	2	...	— 2
	Packages ...	No.	27	1	...	...	...	...	...
Public Works Department	Boilers ...	No.	2	...	...	1	...	...	...
	Coal ...	Tons	50	20	...	...	...	...	...
	Coke ...	,,	...	...	...	64	...	...	...
	Iron ...	,,	271	9	19	151	77	...	— 77
	Bricks ...	100	...	...	...	17	...	...	...
	Stores ...	Pkgs.	15,148	6,494	10,812	1,875	76	121	+ 45
Ordnance ...	Iron ...	Tons.	...	...	...	...	...	7	+ 7
	Coal ...	,,	...	...	1,450	145	...	...	...
	Boilers ...	No.	...	...	...	...	...	2	+ 2
	Ammunition..	Boxes	2,148	...	109	13,465	4,667	2,543	— 2,124
	Gun Powder..	Barrel.	...	...	...	...	...	53	+ 53
	Stores ...	Pkgs.	13,017	28,566	21,057	16,390	5,494	1,023	— 4,471
Madras Harbour Works	Bricks ...	100	...	...	...	50	...	...	...
	Cement ...	Casks	1,869	...	...	14,000	...	2,000	+ 2,000
	Stores ...	Pkgs.	3,869	...	...	40	...	...	...
	Coal ...	Tons.	...	...	...	...	...	...	...
Clothing ...	Packages ...	No.	1,983	2,324	2,176	1,900	143	940	+ 797
Police ...	,, ...	,,	122	167	196	131	106	26	— 80
Salt Revenue ...	,, ...	,,	272	291	109	79	58	9	— 49
Post Office ...	,, ...	,,	1,119	858	742	2,886	814	406	— 408
Medical ...	,, ...	,,	1,779	1,007	1,920	1,012	149	39	— 110
Telegraphs ...	,, ...	,,	34,768	24,126	9,129	10,770	1,115	2,461	+ 1,346
Stationery ...	,, ...	,,	732	1,197	1,156	1,115	211	128	— 83
Stamps ...	,, ...	,,	1,961	1,122	1,861	1,611	321	1,255	+ 934
Commissariat ...	,, ...	,,	8,588	7,420	2,562	3,611	716	421	— 295
Gazette Press ...	,, ...	,,	161	149	97	249	285	176	— 109
Marine ...	,, ...	,,	729	880	806	317	2	...	— 2
Revenue Survey...	,, ...	,,	297	208	25	37	13	16	+ 3
Agriculture ...	,, ...	,,	380	320	140	6	6	...	— 6
Government Central Museum ...	,, ...	,,	...	15	10	9	6	3	2 — 1
Under-Secy. to Government ...	,, ...	,,	235	504	85	68	13	19	+ 6
Supt. of Prisons...	,, ...	,,	1	17	7	16	14	...	— 14
Revenue Board ...	,, ...	,,	424	...	9	13	19	1	— 18
Forests ...	,, ...	,,	1,196	...	3	1	...	...	...
Presidency College	,, ...	No.	28	1	2	4	1	15	+ 14
School of Arts ...	,, ...	,,	3	1	1	...	...	...	...
Inspector of Cattle Diseases ...	,, ...	,,	9	100	...	...	...	...	...
Chemical Examiner	,, ...	,,	31	31	36	35	6	5	— 1
Medical College...	,, ...	,,	73	31	41	31	2	2	...
Dy. Collectors ...	,, ...	,,	9	15	12	...	...	6	+ 6
Astronomer ...	,, ...	,,	23	13	20	7	2	6	+ 4
Presy. Pay Master.	,, ...	,,	2	8	4	...	8	...	— 8
Registration ...	,, ...	,,	7	4	1	...	...	1	+ 1
Director of Public Instruction ...	,, ...	,,	9	139	4	3	...	...	...
Superintendent, Remount Depôt, Hussur.	,, ...	,,	...	600	214	2	...	...	...
Resident, Mysore, in Bangalore.	,, ...	,,	...	2	9	4	1	1	...

VII. STATEMENT OF STORES, &c., IMPORTED BY GOVERNMENT.—(Contd.)

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease
Qr.-Master Genl...	Packages ...	No.	...	3	14	...	3	...	— 3
Registrar of High Court ...	,, ...	,,	...	1	4	2	1	1	...
Curator, Govt. Gardens, Ooty ...	,, ...	,,	...	...	40	...	68	...	— 68
Civil Engineering College ...	,, ...	,,	...	...	44	21	1	1	...
Secy. to the Chief Commissioner of Coorg, Bangalore.	,, ...	,,	...	...	...	3	1	...	— 1
Rev. Settlement...	,, ...	,,	...	...	...	1	6	...	— 6
Executive Engineer, Military Works ...	,, ...	,,	...	...	...	2,003	6	740	+ 734
	Bricks ...	100	...	...	...	45	...	...	...
Controller, Military Accounts...	,, ...	,,	...	...	...	2	1	2	+ 1
Agent for Government Consignments ...	,, ...	,,	...	...	...	501	76	...	— 76
Government Botanical Gardens ...	,, ...	,,	...	...	...	282	40	131	+ 91
Steam Dredge Wenlock ...	,, ...	,,	...	...	...	...	...	3	+ 3
Secretary for Berar, Hyderabad ...	,, ...	,,	...	7	...	4	...	1	+ 1
Collector ...	,, ...	,,	...	...	...	4	...	...	...
O. C., No. 4 Co., E. Dn., R.A., Fort.	,, ...	,,	...	...	...	...	...	...	...
O. C. 21st Madras Pion., Bangalore.	,, ...	,,	...	...	...	...	...	6	+ 6
Major C. B. Wilkinson Q.O. Sap. and M., Bangalore ...	,, ...	,,	...	...	...	...	...	1	+ 1
Commissioner of Paper Currency	,, ...	,,	...	...	...	13	...	...	...
O. C., 9th Co., S. Dn., R.A., Fort St. George ...	,, ...	,,	...	...	...	1	...	...	...
O. C., ½ Bn. 1st Cheshire Regt., Fort ...	,, ...	,,	...	...	...	5	...	2	+ 2
Officer in Charge, Pensioners, Madras ...	,, ...	,,	...	...	...	3	...	...	...
O. C., Q. Q. Sap. and Miners, Bangalore ...	,, ...	,,	...	...	...	1	...	17	+ 17
O. C., S. Dn., R. A., Madras ...	,, ...	,,	...	...	...	1	...	...	...
Sanitary Commissioner ...	,, ...	,,	...	...	...	...	...	...	...
Pay Examiner ...	,, ...	,,	...	...	...	1	...	12	+ 12
Supt. Madras Presidency Trading School ...	,, ...	,,	...	...	...	...	..	2	+ 2

VII. STATEMENT OF STORES, &c., IMPORTED BY GOVERNMENT.

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Accountant-General.	Specie Silver.	Boxes	403	582	533	489	267	167	— 100
	,, Copper.	,,	5,100	710	780	480	100	...	— 100
	Silver&Copper	,,	...	...	...	...	10	...	— 10
	Notes ...	,,	32	19	30	...	2	...	— 2
	Packages ...	No.	27	1	...	...	...	...	...
Public Works Department	Boilers ...	No.	2	...	...	1	...	...	...
	Coal ...	Tons	50	20	...	...	64	...	...
	Coke ...	,,	...	...	...	...	151	77	... — 77
	Iron ...	,,	271	9	19	...	17	...	...
	Bricks ...	100	...	...	...	1,875	76	121	+ 45
	Stores ...	Pkgs.	15,148	6,494	10,812	...	...	7	+ 7
Ordnance ...	Iron ...	Tons.	...	...	...	...	...	...	...
	Coal ...	,,	...	...	1,450	145	...	2	+ 2
	Boilers ...	No.	...	...	...	...	...	...	...
	Ammunition..	Boxes	2,148	...	109	13,465	4,667	2,543	— 2,124
	Gun Powder..	Barrel.	...	...	...	...	...	53	+ 53
	Stores ...	Pkgs.	13,017	28,566	21,057	16,390	5,494	1,023	— 4,471
Madras Harbour Works	Bricks ...	100	...	...	...	...	50	...	...
	Cement ...	Casks	1,869	...	...	14,000	...	2,000	+ 2,000
	Stores ...	Pkgs.	3,869	...	...	40	...	...	...
	Coal ...	Tons.	...	...	...	...	...	...	...
Clothing ...	Packages ...	No.	1,983	2,324	2,176	1,900	143	940	+ 797
Police ...	,, ...	,,	122	167	196	131	106	26	— 80
Salt Revenue ...	,, ...	,,	272	291	109	79	58	9	— 49
Post Office ...	,, ...	,,	1,119	858	742	2,886	814	406	— 408
Medical ...	,, ...	,,	1,779	1,007	1,920	1,012	149	39	— 110
Telegraphs ...	,, ...	,,	34,768	24,126	9,129	10,770	1,115	2,461	+ 1,346
Stationery ...	,, ...	,,	732	1,197	1,156	1,115	211	128	— 83
Stamps ...	,, ...	,,	1,961	1,122	1,861	1,611	321	1,255	+ 934
Commissariat ...	,, ...	,,	8,588	7,420	2,562	3,611	716	421	— 295
Gazette Press ...	,, ...	,,	161	149	97	249	285	176	— 109
Marine ...	,, ...	,,	729	880	806	317	2	...	— 2
Revenue Survey...	,, ...	,,	297	208	25	37	13	16	+ 3
Agriculture ...	,, ...	,,	380	320	140	6	6	...	— 6
Government Central Museum ...	,, ...	,,	15	10	9	6	3	2	— 1
Under-Secy. to Government ...	,, ...	,,	235	504	85	68	13	19	+ 6
Supt. of Prisons...	,, ...	,,	1	17	7	16	14	...	— 14
Revenue Board ...	,, ...	,,	424	[illegible]	9	13	19	1	— 18
Forests ...	,, ...	,,	1,196	[illegible]	3	1	...	...	...
Presidency College	,, ...	No.	28	1	2	4	1	15	+ 14
School of Arts ...	,, ...	,,	3	1	1	...	...	...	...
Inspector of Cattle Diseases ...	,, ...	,,	9	100	...	...	...	...	...
Chemical Examiner	,, ...	,,	31	31	36	35	6	5	— 1
Medical College...	,, ...	,,	73	31	41	31	2	2	...
Dy. Collectors ...	,, ...	,,	9	15	12	...	...	6	+ 6
Astronomer ...	,, ...	,,	23	13	20	7	2	6	+ 4
Presy. Pay Master.	,, ...	,,	2	8	4	...	8	...	— 8
Registration ...	,, ...	,,	7	4	1	...	...	1	+ 1
Director of Public Instruction ...	,, ...	,,	9	139	4	3	...	...	...
Superintendent, Remount Depôt, Hussur.	,, ...	,,	...	600	214	2	...	...	...
Resident, Mysore, in Bangalore.	,, ...	,,	...	2	9	4	1	1	...

STATEMENT OF GOODS EXPORTED TO COAST PORTS—*Contd.*

——	Packages.	1891-92.	1892-93.	1893-94.	1894-05.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Hides ...	Bales & Bundles	379	526	535	252	155	38	— 117
Hardware ...	Cases & Casks	...	...	...	800	...	364	+ 364
Indigo	Cases & Chests..	165	816	1,162	264	46	20	— 26
Iron	Tons ...	2,244	2,611	755	695	241	208	— 33
Old Iron ...	,, ...	...	...	...	165	...	39	+ 39
Jaggery	Bags ...	258	1,448	336	488	38	60	+ 22
Kerosine Oil ...	Cases ...	10,327	659	1,117	11,005	5,741	9,671	+ 3,930
Myrabolams ...	Bags ...	1,054	291	1,112	131	...	67	+ 67
Miscellaneous ...	Packages ...	50,510	69,584	61,706	18,312	9,528	15,697	+ 6,169
Onions	Bags & Baskets	22,442	53,406	47,062	94,737	2,258	9,468	+ 7,210
Oil	Casks ...	807	637	346	641	265	140	— 125
Piece-goods	Bales ... / Cases ...	5,615	8,651	6,368	8,852	1,832	2,628 / 208	+ 1,004
Potatoes	Bags & Baskets	23,637	24,388	30,592	20,068	259	180	— 79
Poonac	Bags ...	4,770	22,131	9,853	396	383	289	— 94
Piano	No. ...	23	16	17	11	...	...	...
Paddy	Bags ..	...	8,806	8,400	4,123	500	...	— 500
Provisions ...	Packages ...	...	...	...	1,565	...	365	+ 365
Rice	Bags ...	5,448	31,893	11,083	8,196	2,479	1,834	— 645
Redwood	Tons ...	119	693	4	134	2	21	+ 19
Seeds, Gingelly and Castor	Bags ...	16,803	2,787	36,799	68,201	19,451	18,688	— 763
Skins, Sheep & Goat, Tanned ...	Bales	721	1,046	871	1,706	211	83	— 128
Sandalwood ...	Bundles ..	153	256	2,786	373	92	...	— 92
Spirits and wines.	Cases	2,982	3,783	3,045	2,534	610	790	+ 180
	Casks	727	716	992	409	188	99	— 89
	Puncheons ...	13	189	214	...	4	...	— 4
Sugar	Bags	773	1,419	473	1,725	77	100	+ 23
Specie	Boxes	236	510	47	75	38	11	— 27
Salt	Bags ...	...	...	...	4,001	...	8	+ 8
Tamarind ...	Bundles ...	3,624	8,253	5,090	3,028	1,025	1,816	+ 791
Turmeric	Bags	19,258	17,883	38,147	53,374	21,706	16,980	— 4,726
Tea	Cases	341	62	50	114	19	31	+ 12
Wool	Bales	769	603	463	478	177	172	— 5
Yellow Metal ...	Tons	53	67	256	31	13	11	— 2
Timber	,, ...	...	...	...	...	...	4	+ 4
Bricks	,, ...	...	...	...	...	...	5	+ 5

V. STATEMENT OF GOODS EXPORTED TO FOREIGN PORTS.—(contd.)

——	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Spirits and Wine	Cases	332	41	67	22	7	9	+ 2
	Casks	977	65	40	9	9	8	— 1
	Puncheons ...	...	...	...	...	...	...	...
Sugar	Bags	599	161	1,197	1,762	927	3,355	+ 2,428
Specie	Boxes	94	48	29	104	28	9	— 19
Tamarind ...	Bundles ...	6,445	5,331	3,076	1,737	1,729	1,292	— 437
Turmeric	Bags	2,159	941	1,562	3,651	1,883	1,129	— 754
Tea	Cases	2,265	1,769	1,649	2,156	611	333	— 278
Timber ...	Tons	...	...	...	...	...	5	+ 5
Wool	Bales	1,021	1,470	1,532	2,049	294	765	+ 471
Yellow Metal ...	Tons	107	100	417	7	½	...	— ½
Horses	No. ...	...	...	...	24	...	...	...
Ponies	,, ...	...	...	...	2	...	...	...
Elephant	,, ...	...	...	...	1	...	...	...
Lion	,, ...	...	...	...	1	...	...	...
Tiger	,, ...	...	...	...	6	...	...	...
Leopards	,, ...	...	...	...	1	...	...	...
Bear	,, ...	...	...	...	79	...	...	...
Sheep	,, ...	...	...	...				

VI. STATEMENT OF GOODS EXPORTED TO COAST PORTS.

——	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Beer and Ale ...	Cases ...	352	294	305	354	143	47	— 96
	Casks ...	159	94	91	166	33	22	— 11
	Hogsheads ...	7	41	161	107	23	25	+ 2
Boiler ...	No. ...	...	...	1	...	...	...	...
Cinchona Bark ...	Bales ..	395	84	80	...	...	...	...
Chillies	Bags & Bundles	2,064	2,907	9,207	2,444	1,144	419	— 725
Cigars	Cases ...	1,418	1,136	789	732	190	193	+ 3
Coffee	Bags ..	507	1,449	541	449	28	134	+ 106
Cotton	Bales ...	5,721	4,245	7,080	5,295	1,115	2,397	+ 1,282
Cotton Twist ...	,, ...	4,698	6,138	3,220	3,034	742	1,169	+ 427
Coriander and Omum Seeds	Bags ...	2,970	7,002	6,894	2,067	399	102	— 297
Cement ..	Casks ..	...	8,908	132	195	14	38	+ 24
Carpets	Bales ...	68	51	41	27	3	7	+ 4
Coal	Tons ...	275	450	157	480	30	30	...
Carriage ...	No. ...	21	47	39	85	14	11	— 3
Deer Horns ..	Packages ...	108	151	52	...	19	...	— 19
Explosive ...	Cases ...	2,668	1,331	1,067	46	17	1	— 16
Eggs	Pots ...	1,165	1,125	1,198	1,263	260	123	— 137
Firewood	Tons ...	2	..	...	...	...	...	...
Groundnuts ...	Bags ...	27,790	17,839	16,116	63,700	27,153	16,485	— 10,673
Gram, Peas, &c. ...	,, ...	521	1,226	233	372	1,828	14	— 1,814
Horns, Cow and Buffalo ...	Tons ...	310	307	166	106	32½	59	+ 26½

IV. STATEMENT OF GOODS IMPORTED FROM COAST PORTS.—(contd.)

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Earthenware	Crates	392	2,941	407	271	16	5	— 11
Do.	Pipes	2,626	6,315	950	182	150	...	— 150
Firewood	Tons	...	...	...	18,641	3,848	2,717	— 1,131
Flour	Bags & Barrels.	7,248	11,682	12,270	...	...	...	...
Gunnies	Bales	7,930	9,661	9,755	11,341	2,565	2,352	— 213
Gram and Peas, &c.	Bags	271,682	380,145	395,249	264,890	81,736	66,643	— 15,093
Garlic	"	2,945	1,215	6,007	7,495	2,130	1,753	— 377
Hardware	Cases	641	1,197	1,507	2,920	109	169	+ 60
Horns	Bundles	880	980	511	856	249	235	— 14
Hides	Bales	6,127	9,539	6,013	6,896	1,702	1,728	+ 26
Iron	Tons	231	293	155	202	66	54	— 12
Iron Safes	No.	31	38	34	18	5	7	+ 2
Kerosine Oil	Cases	...	...	500	...	...	1,993	+ 1,993
Leaves	Bundles	6,508	3,742	5,113	4,393	162	1,666	+ 1,504
Liquor	Cases	...	...	2,193	2,071	558	1,265	+ 707
Machinery	Tons	158	79	49	202	31	...	— 31
Millinery and Haberdashery	Cases	208	245	144	371	45	61	+ 16
Oil and Turpentine.	Drums	8,340	6,369	5,941	5,829	1,201	1,189	— 12
Paddy	Bags	...	75,980	23,737	19,988	5,085	9,881	+ 4,796
Piece-goods	Cases	3,802	4,756	3,499	4,814	1,322	835	— 123
	Bales	3,128	4,898	5,420	7,962	1,145	364	
Paper	Bales	224	693	247	277	52	91	+ 39
Paint	Kegs	15	12	5	8	3	...	— 3
Pianoes	No.							
Rice	Bags	1,147,048	205,176	110,181	111,384	27,398	21,557	— 5,841
Rose Water	Cases	1,434	1,815	1,357	1,594	340	889	+ 549
Seeds	Bags	30,406	25,747	13,916	12,061	3,595	5,493	+ 1,898
Skins	Bales	6,199	50,502	6,807	7,108	1,588	2,021	+ 433
Silk	"	1,051	699	290	488	75	106	+ 31
Sandalwood	Bundles	143	121	42	265	82	71	— 11
Sugar	Bags	1,381	866	1,333	2,686	192	459	+ 267
Specie	No.	202	190	193	124	3	15	+ 12
Sundries	Packages	47,533	47,137	48,614	52,303	15,634	12,729	— 2,905
Soap	Cases	445	40	147	863	352	436	+ 84
Sulphur	Casks	471	544	506	295	265	3	— 262
Spice	Packages	359	740	640	944	19	192	+ 173
Stationery	"	...	...	...	184	...	55	+ 55
Soda water Bottles	Crates	...	...	241	1,651	303	...	— 303
Twine and Rope	Bales and Coils	839	775	1,063	1,309	204	135	— 69
Tin Plates	Boxes	1,807	912	858	1,248	406	252	— 154
	Slabs	...	...	...	78	...	123	+ 123
Twist	Bales	1,126	1,147	1,206	1,187	168	505	+ 337
Turmeric	Bags	7,224	4,977	5,433	5,185	1,857	2,368	+ 511
Timber	Tons	15,137	10,595	15,264	14,154	3,422	4,809	+ 1,387
Tea	Cases	1,321	3,411	37	205	30	46	+ 16
Tamarind	Bundles	...	...	140	86	58	5	— 53
Yellow Metal	Cases	6	542	1,078	281	25	...	— 25
Horses	No.	1	15	8	...	...	...	...
Carriages	No.	...	7	24	14	2	4	+ 2
Tramway Materials.	Tons	...	...	...	13	...	...	...

V. STATEMENT OF GOODS EXPORTED TO FOREIGN PORTS.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Bone-Meal	Bags	...	...	...	5,448	...	3,132	+ 3,132
Beer and Ale	Cases	18	2	13	...	...	...	...
	Casks	60	7	...	...	...	...	...
	Hogsheads	3	...	...	...	...	...	...
Cinchona Bark	Bales	471	529	411	123	...	...	...
Chillies	Bags & Bundles.	2,760	9	816	883	503	377	— 126
Cigars	Cases	1,249	556	643	613	229	183	— 46
Coffee	Bags	23,764	34,613	17,737	27,864	5,947	8,703	+ 2,756
Cotton	Bales	48,202	26,140	56,768	39,607	14,963	17,932	+ 2,969
Cotton Twist	"	4,229	5,260	1,946	1,664	567	55	— 512
Coriander and Omum Seeds	Bags	8,218	1,814	7,377	10,473	2,809	839	— 1,970
Carpets	Bales	418	288	391	239	40	95	+ 55
Coal	Tons	905	313	599	152	152	180	— 28
Deer Horns	Packages	1,574	1,549	767	1,477	267	281	+ 14
Explosive	Cases	21	1	...	2	5	...	— 5
Firewood	Tons	...	...	...	...	...	...	...
Four-wheeled Carriages	No.	8	5	8	2	...	...	...
Ground Nuts	Bags	93,132	26,209	138,211	110,328	61,605	25,915	— 35,690
Gram, Peas, &c.	"	519	161	1,662	489	17	35	+ 18
Horns, Cow and Buffalo	Tons	62	29	1,026	71	8	...	— 8
Hides, Tanned	Bales & Bundles.	21,848	21,812	11,149	18,519	3,749	6,878	+ 3,129
Hardware	Cases & Casks.	...	...	...	522	...	31	+ 31
Indigo	Cases & Chests.	14,622	29,933	25,008	27,416	4,644	6,906	+ 2,262
Iron	Tons	2	11	17	3	2	14	+ 12
Jaggery	Bags	28,985	56,672	52,668	17,809	16,557	7,779	— 8,778
Myrabolams	Bags	235	91	563	237	...	1	+ 1
Miscellaneous	Packages	37,808	28,547	36,531	17,763	9,958	9,212	— 746
Onions	Bags & Baskets	21,964	5,617	17,517	16,094	1,481	2,484	+ 1,003
Oil	Casks	434	56	208	451	21	17	— 4
Provisions	Packages	...	...	...	4,417	...	1,548	+ 1,548
Piece-goods	Bales	6,205	4,857	7,305	7,788	1,335	938	— 69
	Cases.						436	
Potatoes	Bags & Baskets.	2,437	282	1,716	1,648	922	750	— 172
Poonac	Bags	33,880	16,127	31,311	47,253	9,479	17,841	+ 8,362
Pianoes	No.	41	10	15	5	1	4	+ 3
Paddy	Bags	...	5	22	...	...	...	...
Rice	"	1,138	3,229	16,915	44,694	18,422	353	— 18,069
Redwood	Tons	699	1,654	783	1,113	278	250	— 28
Salt	"	...	...	...	7	...	...	...
Seeds, Gingelly and Castor	Bags	1,313	12,654	14,777	90,571	16,543	4,814	— 11,729
Skins, Sheep and Goat, Tanned	Bales	32,194	34,063	31,535	38,649	9,722	10,814	+ 1,091
Sandalwood	Bundles	1,534	330	699	288	219	381	+ 162

II. STATEMENT OF STORES IMPORTED BY THE MADRAS RAILWAY COMPANY.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Stores	Packages	82,105	72,434	47,040	8,915	947	178	— 769
	Tons	3,605	499	156	1,173	...	2,519	+ 2,519
Fuel	,,	...	...	...	...	...	...	...
Coke	,,	1,437	544	716	703	452	291	+ 161
Coal	,,	27	300	237	2,948	...	470	+ 470
Timber	,,	2,477	2,083	1,448	1,364	853	970	+ 117
Fire Brick	100	115	330	...	75	368	50	— 318
Boiler	No.	4	...	...	6	...	4	+ 4

III. STATEMENT OF STORES IMPORTED BY THE SOUTH INDIAN RAILWAY COMPANY.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Stores	Packages	68,282	22,171	28,640	13,933	1,337	443	— 894
	Tons	...	...	992	113	220	24	— 196
Coke	,,	14	...	...	...	...	...	...
Coal	,,	...	...	...	...	...	...	...
Timber	,,	..	...	...	...	...	...	...
Boiler	No.	4	12	10	1	...	...	...
Fire Bricks	100	...	...	...	190	160	60	— 100

IV. STATEMENT OF GOODS IMPORTED FROM COAST PORTS.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th Junel 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Apparel and Effects	Packages	451	343	527	520	121	128	+ 7
Alum	Barrels	10	187	7	149	...	5	+ 5
Acids	Cases	89	125	269	305	123	31	— 92
Animals	No.	...	10	...	9	...	...	...
Arms and Guns	Cases	45	12	13	10	29	1	— 28
Boilers	No.	2	...	...	...	...	...	...
Bricks and Tiles	100	1,396	57	837	852	...	...	...
Coffee	Bags	379	595	575	476	168	82	— 86
Candles	Cases	...	...	11	1	1	...	— 1
Colours	,,	1,225	1,531	1,591	1,244	56	221	+ 165
Crockery and Glassware	,,	322	466	426	1,233	382	161	— 221
Coal	Tons	13,249	13,792	22,152	17,556	7,517	5,818	— 1,699
Coke	,,	...	...	...	...	...	...	...
Carpets	Bales	77	94	99	95	...	...	...
Camphor and Benjamin	Tubs	682	1,306	432	1,060	24	14	— 10
Copra	Bags	32	...	122	68	47	53	+ 6
Crackers	Cases	...	...	...	2	16	253	+ 237
Copper	,,	1,667	986	557	10	...	...	...
Do.	Tiles & Ingots	96	421	2,180	3,755	52	187	+ 135
Cutch and Lac	Packages	4,415	3,191	3,554	5,208	2,589	10	— 2,579
Cast Iron Tubs, Pipes	Tons	...	...	...	61	1,476	1,059	— 417
Cocoanuts	No.	3	415	2,023	...	...	104	+ 104

STATEMENT OF GOODS IMPORTED FROM FOREIGN PORTS—*contd.*

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Millinery and Haberdashery	Cases	1,609	1,566	1,370	1,881	192	500	+ 308
Matches ...	,,	10,665	9,125	8,927	8,140	1,650	2,648	+ 998
Machinery	Tons	3,099	3,241	4,817	3,603	1,025	601	— 424
Nails ...	Kegs	13,744	10,547	14,022	11,948	937	6,155	+ 5,218
Oil and Turpentine.	Drums	7,225	15,500	4,581	4,021	1,613	853	— 760
Piece Goods	Cases / Bales	70,000	51,551	57,676	78,435	12,143	11,900 / 9,461	+ 9,218
Paper	Bales	6,546	5,518	6,038	4,435	1,201	1,385	+ 184
Pianoes	No.	153	99	112	49	86	32	— 54
Printing Types	Cases	492	727	346	231	51	10	— 41
Pig Lead	No.	2,198	1,098	2,612	629	...	423	+ 423
Paint ...	Kegs	7,758	10,257	5,770	8,436	1,498	2,078	+ 580
Rattan	Bundles	3,823	5,669	2,362	4,519	297	304	+ 7
Rails	...	...	...	...	...	...	2,750	+ 2,750
Soaps	Cases	1,650	970	2,172	1,050	275	364	+ 89
Salt ...	,,	383	329	153	458	42	60	+ 18
Steel ...	Cases & Casks	864	3,343	794	395	21	9	— 12
Steel Bundles and Bars	No.	11,261	10,401	10,768	8,905	1,459	6,896	+ 5,437
Steel Hoop	Bundles	5,567	1,597	4,930	2,439	2,230	3,815	+ 1,585
Shovels	,,	275	499	29	127	12	...	— 12
Soda Water Bottles	Crates	1,395	1,768	1,570	2,155	547	329	— 218
Sulphur	Casks	752	435	1,128	10	10	250	+ 240
Shot	Kegs	177	56	248	130	34	35	+ 1
Sundries	Packages	48,408	32,606	56,235	53,125	16,758	11,621	— 5,137
Specie	No.	1,229	888	768	612	110	181	+ 71
Sugar	Bags	2,152	1,196	4,198	1,527	130	1,145	+ 1,015
Stationery	Cases	1,242	848	1,333	2,939	490	1,010	+ 520
Spelter	Cakes	836	8,786	22,921	4,013	2,128	1,519	— 609
Saw	Cases	70	48	79	36	10	10	...
Twine and Rope	Bales & Coils	438	455	458	862	28	21	— 7
Tin Plates	Boxes	5,608	4,649	6,669	4,389	621	1,274	+ 653
Tin Slabs	No.	...	...	...	2,496	...	873	+ 873
Tramway Materials	Packages	...	...	...	5,370	...	...	...
	Tons	...	...	...	202	...	...	...
Twist	Bales	15,079	18,664	24,071	29,432	4,707	5,940	+ 1,203
Wine and Spirits	Cases	37,877	44,739	36,048	36,519	5,699	9,629	+ 3,930
	Casks	863	658	514	713	695	722	+ 27
	Puncheons	369	733	1,058	139	60	28	— 32
Window Glasses	Cases	5,972	12,000	10,425	8,053	975	2,350	+ 1,375
White and Red Lead	Kegs	681	951	737	715	95	245	+ 150
Yellow Metal	Cases	3,076	3,361	2,784	3,275	1,706	1,456	— 250
Zinc Sheets	Packages	2,749	1,690	1,761	1,342	447	12	— 435
Horses	No.	816	959	835	709	...	...	...
Ponies	,,	70	112	134	208	...	...	...
Cows	,,	59	15	7	7	...	...	...
Dogs	,,	13	14	3	45	...	...	...
Elephants	,,	10	7	6	4	4	...	— 4
Two-wheeled Carriage	..	...	8	9	9	1	6	+ 5

I. STATEMENT OF GOODS IMPORTED FROM FOREIGN PORTS.

—	Packages.	1891-92.	1892-93.	1893-94	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or Decrease.
Apparel and Effects ...	Packages...	1,347	1,068	1,017	985	180	149	— 31
Alum	Barrels ...	326	686	910	773	50	154	+ 104
Asphalte, Tar, & Pitch.	Casks ...	4,439	2,329	2,638	2,493	251	1,039	+ 788
Acids	Cases ...	1,854	1,408	1,560	2,151	236	213	— 23
Arms and Guns ...	,, ...	442	221	250	93	14	...	— 14
Arrack	Casks ..	884	833	1,031	1,218	224	276	+ 52
Blankets... ...	Bales ...	119	168	28	55	...	9	+ 9
Beef and Pork ...	Cases ...	36	...	...	...	...	...	...
Bricks ...	100 ...	1,021	551	1,550	900	30	30	...
Beer	Cases ...	6,123	8,710	7,013	5,408	1,839	2,027	+ 188
	Barrels ...	1,140	1,707	1,401	1,800	117	215	+ 98
	Hogsheads	6,808	8,210	4,310	6,743	1,410	2,111	+ 701
Boiler	No. ...	51	32	48	25	4	8	+ 4
Corks	Bundles ...	88	72	50	60	8	6	— 2
Canvas	Bales ...	121	193	615	148	66	42	— 24
Candles	Cases ...	16,637	31,017	27,463	28,458	5,729	14,191	+ 8,462
Colours	,, ...	3,838	3,286	2,998	3,999	874	639	— 235
Confectionery Provisions and Oilmanstores	,, ..	23,395	22,129	20,829	16,508	2,527	4,218	+ 1,691
Crockery & Glassware.	Crates & Casks.	4,538	3,817	5,300	3,627	684	1,579	+ 895
Chalk	Barrels ...	370	140	134	366	13	17	+ 4
	Tons ..	...	...	...	30	...	...	...
	Casks ...	14,522	7,369	8,904	10,235	2,637	3,362	+ 725
Cement ...		335	1,436	989	1,472	171	368	+ 197
Cast Iron Pipes and Tubes ...	Tons ...	4,739	4,349	5,765	5,523	1,400	1,020	— 380
Camphor ...	Tubs ...	33,686	49,508	58,179	76,851	22,780	24,915	+ 2,135
Coal	Tons ...	578	778	1,018	896	488	441	— 47
Coke	,, ...	...	2,953	..	...	...	...	...
Fuel ...	,, ...	...	840	327	975	1	...	— 1
Crackers... ...	Cases ..	470	521	7,260	4,096	1,456	3,366	+ 1,910
Copper Plates and Tiles	No. ...	4,802	2,512	2,638	3,234	443	1,399	+ 956
Corrugated Iron ...	Packages...	805	8,035	10,598	9,426	2,443	3,126	+ 683
Dynamite ..	Cases ...	13,040	1,886	2,168	1,492	287	922	+ 635
Earthenware ...	Crates ...	2,318	272	312	454	20	50	+ 30
Fire Clay ...	Casks ...	2,768	821	1,251	1,348	147	148	+ 1
Flour	Bags and Barrels ...	1,317	30	64	23	...	5	+ 5
Flannel ...	Bales ...	54	5,987	5,883	3,384	399	1,129	+ 730
Gunpowder ...	Packages...	6,667	27	24	15	3	5	+ 2
Harmonium ...	Cases ...	30	6,783	8,189	11,532	468	7,082	+ 6,614
Hardware ...	Cases & Casks..	8,234	64	297	287	7	178	+ 171
Hops ...	Packages	129	17,929	18,627	10,863	2,432	6,912	+ 4,480
Iron ...	Tons ...	13,737	150	167	56	26	31	+ 5
Iron Safes ...	No. ...	296	251,320	342,671	343,365	23	...	— 23
Kerosine Oil	Cases ...	397,862	3,361	5,455	7,899	1,741	2,831	+ 1,090
	Tons ...	...	407	22	56	4	...	— 4
Malt ...	Bags ...	445						

Comparative Statement of receipt and charges of the Madras Harbour Trust, under Act II of 1886 for the Quarters ending 30th June 1894 and 1895.

Items.	Actuals from 1st April to 30th June 1894.	Actuals from 1st April to 30th June 1895.	Plus or Minus.	Remarks.
	Rs.	Rs.	Rs.	
Opening Balances	11,68,742	7,53,318	— 4,15,424	
Receipts.				
I. Contribution from Port Funds	57,607	33,900	— 23,707	
II. Beach Imports: dues under Sections 45 (*a*) I (i) (ii) (iii)..	39,939	43,313	+ 3,374	
Pier do. do. do....	14,733	17,228	+ 2,495	
Beach Exports do. do....	8,968	7,464	— 1,504	
Pier do. do. do....	14,081	11,920	— 2,161	
Wharfage do. II ...	1,765	1,312	— 453	
Cranage do. III ...	11,673	10,855	— 818	
Storage do. IV ...	426	267	— 159	
Demurrage do. V ...	136	73	— 63	
Dues for entry of Vehicles under Section 45 (*c*) VI	3,841	3,644	— 197	
Provisions:—Dues on under Section 45 (*a*) I (i)	178	154	— 24	
Rent of Properties	170	171	+ 1	
Water: charge for—delivered at pier head ...	1,398	1,396	— 2	
Penalties under Section 84	...	...	...	
Sundries	...	...	...	
III. Porterage under Section 45 (*a*) I (iv)	18,301	18,340	+ 39	
Beach	7,505	9,564	+ 2,059	
Pier	93	3	— 90	
Miscellaneous	5,274	3,314	— 1,960	
IV. Interest realized on Govt. of India, 4 per cent. Pro. Notes	...	79,000	+ 79,000	
Amount refunded from Construction Funds in repayment of advances made from time to time from Revenue Account	1,86,088	2,41,918	...	
Total...	13,54,830	9,95,236	...	
Total including the opening Balance...				
Charges.				
I. Interest (under Section 30)...	2,22,913	2,27,607	+ 4,694	
II. Repayment of Loan for Construction of Harbour under Sec. 31	1,00,000	1,00,000	...	
III Refunds	177	110	— 67	
IV. Fees to Trustees	1,710	1,740	+ 30	
V. Chairman's allowances	1,200	1,200	...	
VI. *Establishment*—				
1. Secretary's salary	2,400	2,400	...	
2. Correspondence Department	931	895	— 36	
3. Accounts Department	1,630	1,665	+ 35	
4. Cash Department	1,112	1,211	+ 99	
5. Traffic Department (Shore Staff) ...	6,781	7,653	+ 872	
6. Preventive Service	3,154	2,875	— 279	
7. Preventive Service Boatmen	283	305	+ 22	
8. Tidal Observatory	...	90	+ 90	
9. Exchange Compensation Allowance ..	...	940	+ 940	
10. Contribution to Government for Pensions	214	203	— 11	
11. Do. to Provident Fund... ...	11	18	+ 7	
VII. Contingencies.				
(*a*)—*Subject to Regular Audit.*—				
Postage	20	10	— 10	
Receipt Stamps	58	59	+ 1	
Telegrams	24	3	— 21	
Furniture	32	61	+ 29	
Fees for Audit	...	...	...	
Law Charges	...	...	...	
Stationery and Printing	1,073	1,234	+ 161	
Advertisement Charges	230	75	— 155	
Uniform for Preventive Service, &c. ...	791	678	— 113	
(*b*)—*Admissible without detailed Audit.*—				
Overtime Fees to Establishment ...	1,404	1,166	— 238	
Do. Preventive Service and Boatmen	968	898	— 70	
Miscellaneous	975	887	— 88	
VIII. *Petty Construction and Repairs.*—				
New Works	3,831	535	— 3,296	
Repairs	937	1,111	+ 174	
Tools and Plant	887	...	— 887	
IX. *Porterage.*—				
1. Coolies, Beach	11,114	11,345	+ 231	
2. Do. Pier	4,065	4,338	+ 273	
3. Do. Custom House	2,223	3,758	+ 1,535	
4. Coasting Cargo	383	358	— 25	
5. Cart Hire	...	202	+ 202	
6. Engine Charges	351	...	— 351	
7. Steam Cranage Charges	368	513	+ 145	
8. Refunds	961	1,607	+ 646	
9. Claims for Losses and Damage of Cargo ..	274	584	+ 310	
10. Provident Fund Deductions from Coolies' wages	285	301	+ 16	
11. Do. Contributions by the Trust ...	285	301	+ 16	
(*a*) *Contingencies, Subject to Regular Audit.*—				
Postage	...	...	...	
Receipt Stamps	1	..	— 1	
Telegrams	...	...	...	
Furniture	...	30	+ 30	
Tarpaulins	946	1,472	+ 526	
Law Charges	...	...	...	
Stationery and Printing	125	...	— 125	
Advertisement Charges	...	...	...	
Lighting Pier and Yards	943	460	— 483	
(*b*) *Contingencies, Admissible without Detailed Audit.*—				
Miscellaneous...	446	458	+ 12	
X. Advances to Construction Account	...	79,000	+ 79,000	
Total...	3,76,516	4,60,356	...	
Closing Balance ...	9,78,314	5,34,880	...	
Total ...	13,54,830	9,95,236	...	

H. E. HOPE-ROSS,
Chief Accountant, Harbour Trust.

Madras Harbour Trust, Statement of Receipts and Charges from 1st April to 30th June 1895.

OPENING BALANCE.				RS.	A.	P.	RS. A. P.	RS. A. P.
Government Securities (Par value 3,80,000)							3,66,163 14 10
1. Cash in the Bank of Madras ...				3,66,276	15	9	
2. General Cash in Office				376	14	1	
3. Advance for Contingencies... ...				500	0	0	
							3,87,153 13 10
							7,53,317 12 8
Receipts.							
I. Contributions from Port Funds ...							33,900 0 0
II. Beach Imports: dues under Section 45 (*a*) I (i) (ii) (iii) ...				43,312	12	2	
Pier do. do. do. ...				17,228	7	4	
Beach Exports do. do. ...				7,463	13	5	
Pier do. do. do. ...				11,920	5	1	
Wharfage do. II. ...				1,311	15	0	
Cranage do. III. ...				10,855	2	6	
Storage do. IV. ...				266	9	9	
Demurrage do. V. ...				73	3	9	
Dues for entry of Vehicles under Section 45 (*c*) VI ...				3,643	8	4	
Provisions:—Dues on under Section 45 (*a*) I (i)				153	9	0	
Rent of Properties				170	13	8	
Water: charge for—delivered at pier head				1,396	8	0	
Penalties under Section 3[illegible]				...	...	...	
Sundries				...	...	...	
							97,796 12 0
III. Porterage under Section 45 (*a*) I (iv)				...	...	...	
Beach				18,340	6	11	
Pier				9,564	6	3	
Miscellaneous				2	10	0	
							27,907 7 2
							1,25,704 3 2
IV. Interest on Government of India, 3½ per cent. Promissory Notes....							3,313 10 4
Amount refunded from Construction Funds in repayment of advances made from time to time from Revenue Account from 1st March to 6th May 1895							79,000 0 0
Total Rupees							9,95,235 10 2
Charges.							
I. Interest (under Section 30)							2,27,607 4 10
II. Repayment of Loan for Construction of Harbour under Sec. 31							1,00,000 0 0
							3,27,607 4 10
III. Refunds				109	9	6	
IV. Fees to Trustees				1,740	0	0	
V. Chairman's Allowance				1,200	0	0	
							3,049 9 6
VI. *Establishment, etc.*—							
1. Secretary's salary				2,400	0	0	
2. Correspondence Department ...				894	7	11	
3. Accounts Department				1,665	1	10	
4. Cash Department				1,211	3	10	
5. Traffic Department (Shore Staff) ...				7,653	7	2	
6. Preventive Service				2,875	0	0	
7. Do. Boatmen ...				305	7	0	
8. Tidal Observatory				90	0	0	
9. Exchange Compensation Allowance				940	2	3	
10. Contribution to Govt. for Pensions...				202	15	9	
11. Do. to Provident Fund ...				17	11	11	
							18,255 9 8
Carried over...							21,305 3 2 3,27,607 4 10

				RS.	A.	P.	RS. A. P.
	Brought forward...			21,305	3	2	3,27,607 4 10
VII. CONTINGENCIES—							
(*a*) *Subject to Regular Audit.*—				RS.	A.	P.	
Postage				10	7	8	
Receipt Stamps				59	5	10	
Telegrams				3	5	0	
Furniture				60	12	0	
Fees for Audit				...	...	...	
Law Charges				...	...	...	
Stationery and Printing				1,234	5	1	
Advertisement Charges				75	0	0	
Uniform for Preventive Service, &c. ...				678	6	0	
							2,121 8 9
(*b*) *Admissible without Detailed Audit.*—							
Overtime Fees to Establishment ...				1,166	1	8	
Do. Preventive Service and Boatmen... ...				897	13	6	
Miscellaneous				886	14	3	
							2,930 13 5
VIII. *Petty Construction and Repairs.*—							
New Works...				534	13	9	
Repairs				1,110	13	5	
Tools and Plant				...	...	...	
							1,645 11 2
							28,023 4 6
IX. *Porterage.*—							
1. Coolies, Beach				11,344	14	6	
2. Do. Pier				4,337	8	9	
3. Do. Custom House				3,757	14	10	
4. Coasting Cargo				358	3	2	
5. Cart Hire				202	2	6	
6. Engine Charges				...	...	...	
7. Steam Crane Charges				511	12	0	
8. Refunds				1,606	10	11	
9. Claims for Losses and Damage of Cargo				583	9	2	
10. Provident Fund Deductions from Coolies' wages...				300	14	10	
11. Do. Contributions by the Trust... ...				300	14	10	
							23,304 9 6
(*a*) CONTINGENCIES—*Subject to Regular Audit*—							
Postage				...	...	...	
Receipt Stamps				0	3	0	
Telegrams				...	...	...	
Furniture				30	0	0	
Tarpaulins				1,471	8	8	
Law Charges				...	...	...	
Stationery and Printing				...	...	...	
Advertisement Charges				...	...	...	
Lighting Pier and Yards				460	6	1	
							1,962 1 9
(*b*) CONTINGENCIES—*Admissible without Detailed Audit*—							
Miscellaneous							457 14 6
							25,724 9 9
X. Advances to Construction Account							79,000 0 0
Total, Expenditure							4,60,355 3 1
Closing Balance on the 30th June 1895—							
Government Securities (Par value 4,13,900)							4,00,063 14 10
Cash in the Bank of Madras				1,33,974	0	11	
General Cash in Office				342	7	4	
Advance for Contingencies				500	0	0	
							1,34,816 8 3
							5,34,880 7 1
Total Rupees							9,95,235 10 2

N. B.—These balances exclude Rs. 500 with the Traffic Manager for meeting daily Porterage charges and Rs. 15 with the Cashier for meeting charges on account of Postage and Receipt stamps.

H. E. HOPE-ROSS,
Chief Accountant, Harbour Trust.

						Rs.	A.	P.	Rs. A. P.
VII.	Contingencies—				Brought forward...	21,305	3	2	3,27,607 4 10
	(a) *Subject to Regular Audit.*—								
	Postage	...	...	...		10	7	8	
	Receipt Stamps	...	...	...		59	5	0	
	Telegrams	...	...	...		3	5	0	
	Furniture	...	...	...		60	12	0	
	Fees for Audit	...	...	...		...	...	...	
	Law Charges	...	...	...		...	...	...	
	Stationery and Printing	...	...	...		1,234	5	1	
	Advertisement Charges	...	...			75	0	0	
	Uniform for Preventive Service, &c.	...				678	6	0	
									2,121 8 9
	(b) *Admissible without Detailed Audit.*—								
	Overtime Fees to Establishment	...				1,166	1	8	
	Do. Preventive Service and Boatmen	...	...			897	13	6	
	Miscellaneous	...	...	...		886	14	3	
									2,950 13 5
VIII.	*Petty Construction and Repairs.*—								
	New Works...	...	...	...		534	13	9	
	Repairs	...	...	...		1,110	13	5	
	Tools and Plant	...	...	...		...	...	...	
									1,645 11 2
IX.	*Porterage.*—								28,023 4 6
	1. Coolies, Beach	...	...	...		11,344	14	6	
	2. Do. Pier	...	...	...		4,337	8	9	
	3. Do. Custom House	...	...			3,757	14	10	
	4. Coasting Cargo	...	...	...		358	3	2	
	5 Cart Hire	...	...	...		202	2	6	
	6. Engine Charges	...	...	...		...	...	...	
	7. Steam Crane Charges	...	...			511	12	0	
	8. Refunds	...	...	...		1,606	10	11	
	9. Claims for Losses and Damage of Cargo					583	9	2	
	10. Provident Fund Deductions from Coolies' wages...					300	14	10	
	11. Do. Contributions by the Trust...					300	14	10	
									23,304 9 6
	(a) Contingencies—*Subject to Regular Audit*—								
	Postage	...	...	...		...	...	...	
	Receipt Stamps	...	...	...		0	3	0	
	Telegrams	...	...	...		...	...	...	
	Furniture	...	...	...		30	0	0	
	Tarpaulins	...	...	...		1,471	8	8	
	Law Charges	...	...	...		...	...	...	
	Stationery and Printing	...	...	...		...	...	...	
	Advertisement Charges	...	...	...		...	...	...	
	Lighting Pier and Yards	...	...	...		460	6	1	
									1,962 1 9
	(b) Contingencies—*Admissible without Detailed Audit*—								
	Miscellaneous	...	...	...	...				457 14 6 25,724 9 9
X.	Advances to Construction Account				...	...			79,000 0 0
	Total, Expenditure	...	...	...		...			4,60,355 3 1
	Closing Balance on the 30th June 1895—								
	Government Securities (Par value 4,13,900)			...	...				4,00,063 14 10
	Cash in the Bank of Madras	...	...			1,33,974	0	11	
	General Cash in Office	...	...			342	7	4	
	Advance for Contingencies	...	...			500	0	0	
									1,34,816 8 3
									5,34,880 7 1
	Total Rupees	...	...			...			9,95,235 10 2

N. B.—These balances exclude Rs. 500 with the Traffic Manager for meeting daily Porterage charges and Rs. 15 with the Cashier for meeting charges on account of Postage and Receipt stamps.

H. E. HOPE-ROSS,
Chief Accountant, Harbour Trust.

SECRETARIAT NO.

MARINE DEPARTMENT.

OFFICE OF THE CHIEF SECRETARY TO GOVT. OF MADRAS
24 SEP 1895

From

THE CHAIRMAN,
Harbour Trust Board,
MADRAS.

To

The Chief Secretary to Government,
Marine Department.

Dated 20*th September* 1895.
Despatched 21*st* " "
Received 24 " "
Enclosure Plans will follow

S.C.2

No. 2497.

SUBJECT.

MADRAS HARBOUR.

Submitting report for the quarter ending 30th June 1895.

LAWRENCE ASYLUM PRESS, MADRAS.

Madras Harbour Trust,

SECRETARY'S OFFICE,

20th September 1895.

No. 2497.

From

H. LE FANU, ESQ., I.C.S.,

CHAIRMAN, HARBOUR TRUST BOARD,

Madras.

To

THE HON'BLE MR. J. F. PRICE, C.S.I., I.C.S.,

CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

SIR,

I have the honour to submit, for the information of Government, a report from the Board's Engineer upon the progress made upon the Madras Harbour during the quarter ending 30th June 1895.

I also submit the usual statements of receipts and charges, Revenue Account, from 1st April to 30th June, and returns of cargo imported and exported during the period.

2. The work upon the Harbour has consisted exclusively of placing in position along and upon the walls cement concrete *en masse*. Before the commencement of the quarter the caisson had been set at the south pier head and completed. During the current quarter the interval between the caisson and the wall was filled in with concrete *en masse*, for which purpose 790¼ cubic yards were used and 65½ cubic yards were placed upon the base around the pier head. At the north pier 4,073¾ cubic yards of concrete were deposited in the capping, and this was thus advanced shorewards by 760¾ feet: 43 cubic yards of concrete were deposited upon the base near the steps, at the bend of the north pier.

3. The total outturn of concrete by machinery was 4,465½ cubic yards during the quarter, and 7,597½ tons of chips were received from the Pallaveram quarries. The cement issued from store amounted to 928½ tons or 5,198 casks. There remained on hand upon the 30th June 6,100 casks containing 1,089 tons.

4. The cash expenditure upon the work during the quarter has amounted to Rs. 1,07,929.

5. The advance of sand outside the south arm of the Harbour continues to be rapid; during the quarter it amounted to 80 feet which, although as remarked by the Engineer, is less than in the corresponding quarters of 1892 and 1893, it is 15 feet more than reported during the corresponding period last year.

This sand the Engineer also reports has been sucked through the interstices of the south arm, and has formed the usual sand bank alongside the wall inside the Harbour. The Engineer now admits that this accumulation of sand does interfere with vessels berthed in the south-west corner of the Harbour,

which has been asserted by the Marine Officers of the Port for some years past, and in G. O., Marine, Nos. 241 and 242, dated 7th August 1895, Government called the attention of the Board to the discrepancy between the statements of the Engineer and the Deputy Port Conservator, and the Engineer now admits that the Deputy Conservator is correct in his assertion that the sand is encroaching upon No. 1 berth.

The survey promised by the Engineer during the month of September is awaited by the Board. The result will be communicated to Government as early as possible when received.

6. The tonnage of vessels which entered the Harbour varies only slightly from the corresponding quarter in 1894 having been 160 vessels of 289,549 tons net register, against 172 vessels of 295,882 tons last year. Port Dues received have amounted to Rs. 29,754 against Rs. 28,767.

Pilotage Fund receipts have amounted to Rs. 7,660 against Rs. 7,592 in 1893 and Rs. 9,276 last year as follows :—

——	Pilotage Fees	Stern fast Boat Hire.	Fees for Shifting Berths.	Harbour Master's Fees.	Miscellaneous.	Total.
1894.	Rs. A. P.	Rs. A. P.		Rs. A. P.		Rs. A. P.
April ...	2,710 0 0	267 0 0	.....	960 0 0	.....	3,937 0 0
May	1,330 0 0	126 0 0	.....	500 0 0	.....	1.956 0 0
June	2,187 0 0	216 0 0	.....	980 0 0	.....	3,383 0 0
Total	6,227 0 0	609 0 0	.....	2,440 0 0	.....	9,276 0 0
1895.						
April	1,465 0 0	153 0 0	.....	460 0 0	.....	2,078 0 0
May	2,158 0 0	225 0 0	.....	820 0 0	.....	3,203 0 0
June	1,604 0 0	165 0 0	.....	610 0 0	.....	2,379 0 0
Total ...	5,227 0 0	543 0 0	.....	1,890 0 0	.....	7,660 0 0

7. The opening cash balance in the Revenue Account amounted on the 1st April to Rs. 7,53,318, after the payment of Rs. 5,00,000 in reduction of capital advances, under Section 32. This balance included Government 3½% Pro. Notes of the par value of Rs. 3,80,000, which stood in the Trust books at a net cost of Rs. 3,66,164. Cash in the Bank of Madras and in office was on that date Rs. 3,87,154; and out of this sum Rs. 2,27,607 interest, and the usual refund of one lakh, under Sections 30 and 31, were paid to the credit of Government with the Bank of Madras, on the same date.

8. Harbour Dues have, during the quarter, amounted to Rs. 97,797 and Porterage Receipts Rs. 27,907, total Rs. 1,25,704 against Rs. 1,23,207 in the corresponding period last year.

The Expenditure has been Rs. 53,748 against Rs. 53,604.

Details are given of the comparative receipts and charges under each item on page 6.

9. Referring to the Traffic Manager's returns :—*Foreign Imports* show a substantial increase of 2,135 tons of coal, 4,480 tons of iron and 1,090 tons of kerosine

oil in bulk. Piece-goods are also 9,218 bales and cases more than in the first quarter of 1894-95, and twist 1,203 bales more. These are the principal items, but the whole return shows considerable advance throughout, with a few exceptions, the most important of which is machinery 424 tons less.

Coasting Imports, show little variation except gram, peas, and rice 21,000 bags less, paddy 4,796 more, and timber an extra 1,387 tons.

Foreign Exports, show a large reduction in many items, ground-nuts—35,690 bags, jaggery, 8,778 bags; rice, 18,069 bags; seeds, 13,699 bags; while on the other hand, coffee has increased by 2,756 bags. Cotton + 2,969 bales; hides + 3,129 bales; indigo + 2,262 chests, poonac + 8,362 bags; tanned skins + 1,091 bales; sugar + 2,428 bags.

Coasting Exports, have been generally well maintained, but ground-nuts show a large reduction—10,673 bags, and turmeric—4,726 bags. The chief items showing increases are cotton + 1,282 bales; twist + 427 bales; kerosine oil + 3,930 cases; piece-goods + 1,004 bales and cases.

10. I take this opportunity of reporting, with reference to para. 4 of G. O., No. 241-242, dated 7th August 1895, that the refunds of Harbour Dues referred to in the Administration Report for the year 1894-95 Rs. 764-5-2 is caused almost entirely by consignees paying dues upon the full invoiced quantities of coal and iron, the dues being adjusted by refund when the actual quantities landed have been ascertained by weighment upon delivery, and are found to be less than has been paid for.

The refunds on account of Porterage Rs. 4,395-15-8 have been caused as follows :—A small portion is due to the adjustment of charges when weights as explained above are ascertained to be less than invoiced quantities; but the great bulk of the refunds is due to consignees paying in advance for coal to be stacked and afterwards loaded into Railway vehicles, while owing to the improved facilities afforded by the Board large quantities by every steamer are now loaded direct from the Beach, as landed, into Railway trucks, and consignees thus save two annas per ton which after allowing for refunds on account of short weight landed, a very small item, showed a clear gain to the Trade of the Port of over Rs. 4,000 during the year.

During the quarter under review the refunds on account of Harbour Dues have been Rs. 109-9-6 and in the Porterage account the refunds have amounted to Rs. 1,606-10-11.

As facilities are further improved these refunds are likely to become still larger.

I have the honor to be,
Sir,
Your obedient Servant,

Chairman, Harbour Trust Board.

Madras Harbour Trust, Statement of Receipts and Charges from 1st April to 30th June 1895.

		Rs. A. P.	Rs. A. P.	Rs. A. P.
Opening Balance.				
Government Securities (Par value 3,80,000)			3,66,163 14 10	
1. Cash in the Bank of Madras		3,66,276 15 9		
2. General Cash in Office		376 14 1		
3. Advance for Contingencies		500 0 0		
			3,87,153 13 10	
				7,53,317 12 8
Receipts.				
I. Contributions from Port Funds				33,900 0 0
II. Beach Imports: dues under Section 45 (*a*) I (i) (ii) (iii)		43,312 12 2		
Pier do. do. do.		17,228 7 4		
Beach Exports do. do. do.		7,463 13 5		
Pier do. do. do.		11,920 5 1		
Wharfage do. II.		1,311 15 0		
Cranage do. III.		10,855 2 6		
Storage do. IV.		266 9 9		
Demurrage do. V.		73 3 9		
Dues for entry of Vehicles under Section 45 (*c*) VI		3,643 8 4		
Provisions:—Dues on under Section 45 (*a*) I (i)		153 9 0		
Rent of Properties		170 13 8		
Water: charge for—delivered at pier head		1,396 8 0		
Penalties under Section 24				
Sundries				
			97,796 12 0	
III. Porterage under Section 45 (*a*) I (iv)				
Beach		18,340 6 11		
Pier		9,564 6 3		
Miscellaneous		2 10 0		
			27,907 7 2	
				1,25,704 3 2
IV. Interest on Government of India, 3½ per cent. Promissory Notes				3,318 10 4
Amount refunded from Construction Funds in repayment of advances made from time to time from Revenue Account from 1st March to 6th May 1895				79,000 0 0
Total Rupees				9,95,235 10 2
Charges.				
I. Interest (under Section 30)			2,27,607 4 10	
II. Repayment of Loan for Construction of Harbour under Sec. 31			1,00,000 0 0	
				3,27,607 4 10
III. Refunds		109 9 6		
IV. Fees to Trustees		1,740 0 0		
V. Chairman's Allowance		1,200 0 0		
			3,049 9 6	
VI. *Establishment, etc.*—				
1. Secretary's salary		2,400 0 0		
2. Correspondence Department		894 7 11		
3. Accounts Department		1,665 1 10		
4. Cash Department		1,211 3 10		
5. Traffic Department (Shore Staff)		7,653 7 2		
6. Preventive Service		2,875 0 0		
7. Do. Boatmen		305 7 0		
8. Tidal Observatory		90 0 0		
9. Exchange Compensation Allowance		940 2 3		
10. Contribution to Govt. for Pensions		202 15 9		
11. Do. to Provident Fund		17 11 11		
			18,255 9 8	
Carried over...			21,305 3 2	3,27,607 4 10

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. $\frac{10}{2614}$ W., dated 24th Oct. 1895.

FORWARDING the progress report of the Madras Harbour Works for the quarter ending 30th June 1895.

Madras Harbour Trust, Statement of Receipts and Charges from 1st April to 30th June 1895.

		Rs. A. P.	Rs. A. P.	Rs. A. P.
Opening Balance.				
Government Securities (Par value 3,80,000)		... ...	3,66,163 14 10	
1. Cash in the Bank of Madras ...		3,66,276 15 9		
2. General Cash in Office		376 14 1		
3. Advance for Contingencies... ...		500 0 0		
			3,87,153 13 10	7,53,317 12 8
Receipts.				
I. Contributions from Port Funds ...		...	... ...	33,900 0 0
II. Beach Imports: dues under Section 45 (*a*) I (i) (ii) (iii)		43,312 12 2		
Pier do. do. do. ...		17,228 7 4		
Beach Exports do. do. ...		7,463 13 5		
Pier do. do. do. ...		11,920 5 1		
Wharfage do. II. ...		1,311 15 0		
Cranage do. III. ...		10,855 2 6		
Storage do. IV. ...		266 9 9		
Demurrage do. V. ...		73 3 9		
Dues for entry of Vehicles under Section 45 (*c*) VI ...		3,643 8 4		
Provisions:—Dues on under Section 45 (*a*) I (i)		153 9 0		
Rent of Properties		170 13 8		
Water: charge for—delivered at pier head		1,396 8 0		
Penalties under Section 3[illegible] ...		... ...		
Sundries		... ...		
			97,796 12 0	
III. Porterage under Section 45 (*a*) I (iv)		... ...		
Beach		18,340 6 11		
Pier		9,564 6 3		
Miscellaneous		2 10 0		
			27,907 7 2	1,25,704 3 2
IV. Interest on Government of India, 3½ per cent. Promissory Notes.... ...		...	...	3,313 10 4
Amount refunded from Construction Funds in repayment of advances made from time to time from Revenue Account from 1st March to 6th May 1895		...	...	79,000 0 0
Total Rupees ...			...	9,95,235 10 2
Charges.				
I. Interest (under Section 30) ...		...	2,27,607 4 10	
II. Repayment of Loan for Construction of Harbour under Sec. 31 ...		...	1,00,000 0 0	
				3,27,607 4 10
III. Refunds		109 9 6		
IV. Fees to Trustees		1,740 0 0		
V. Chairman's Allowance		1,200 0 0		
			3,049 9 6	
VI. *Establishment, etc.*—				
1. Secretary's salary		2,400 0 0		
2. Correspondence Department ...		894 7 11		
3. Accounts Department		1,665 1 10		
4. Cash Department		1,211 3 10		
5. Traffic Department (Shore Staff) ...		7,653 7 2		
6. Preventive Service		2,875 0 0		
7. Do. Boatmen ...		305 7 0		
8. Tidal Observatory		90 0 0		
9. Exchange Compensation Allowance ...		940 2 3		
10. Contribution to Govt. for Pensions ...		202 15 9		
11. Do. to Provident Fund ...		17 11 11		
			18,255 9 8	
Carried over...			21,305 3 2	3,27,607 4 10

No. $\frac{10}{2614}$ W., 24th October 1895.

PUBLIC WORKS DEPARTMENT.

Letter—to

The Right Honourable the Secretary of State for India.

My Lord,

In continuation of our despatch No. $\frac{7}{1553}$ W., dated 26th June 1895, we have the honour to forward the progress report of the Madras Harbour Works for the quarter ending 30th June 1895.

2. The report is accompanied by two drawings showing the position and quantity of work done during the quarter.

We have the honour to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) WENLOCK.

(,,) H. W. BLISS.

(,,) J. GROSE.

Madras,
24th October 1895.

Exd. T. K. Narayana Aiyangar.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. $\frac{10}{2614}$ W., dated 24th Oct. 1895.

FORWARDING the progress report of the Madras Harbour Works for the quarter ending 30th June 1895.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1895} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

G.O. Nos. 2614, 2615 W., 24th Oct. 1895.

OCTOBER.

Madras Harbour Works

Forwarding copy of Proceedings embodying the progress report of the — for the quarter ending 30th June 1895.

No. 2318, Marine.

Transferred to the Public Works Department.

OOTACAMUND,
30th September 1895.

(Signed) W. FRANCIS,
Acting Under Secretary.

ORDER—No. 2614 W., dated 24th October 1895.

Ordered that the report be forwarded for the information of the Secretary of State and the Government of India.

[Here enter No. 2615 W., dated 24th October 1895.]

(True Extract.)

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

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

ENDORSEMENT—No. 2615 W., dated 24th October 1895.

Copy of the above, with two plans showing the progress of the work, forwarded to the Government of India.

(By order.)

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

Comparison of expenditure to date with sanctioned estimate for the quarter ending 30th June 1895—*cont.*

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					As executed.					Arrears not paid.	Value of work done up to date, columns 11 and 12.
	Quantity.	Rate.	Per	Cost.	Total.	Quantity.	Rate.	Expenditure. Total up to end of last quarter.	During the quarter.	Up to date.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Extending the Rubble Revetment protecting the Foreshore north of Harbour—cont.		RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Total of revised estimate sanctioned in Secretary of State's despatch *plus* expenditure before 31st Dec. 1884	..	..	..	..	1,23,83,386	..	..	1,25,11,921 5 7	1,07,928 9 1	1,26,19,849 14 8	28,501 14 7	1,26,48,351 13 3
Total sanctioned cost for completion of works	..	..	..	..	1,23,83,386							
Add recovery on tools and plant ..	..	..	..	..	2,77,331	126,60,717						
Deduct total expenditure as per column 11	..	..	..	..	1,26,19,850							
Total amount available for completing works after quarter ending 30th June 1895	..	..	..	..	..	126,19,850						
						49,867						

	RS.	A.	P.	
Expenditure up to 31st March 1895 from commencement of works	1,25,11,921	5	7	
" during current official year from 1st April 1895 to 30th June 1895 ..	1,07,928	9	1	Grant for 1895-96, Rs. .
Total outlay to 30th June 1895 ..	1,26,19,849	14	8	

MADRAS,
29th August 1895.

(Signed) G. MOOTHOOSAWMY NAIDU,
Accountant, M. H. Works Office.

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

Exd. T. K. Narayana Aiyangar.

Spare Copies

No. 2318, Marine.

Transferred to the Public Works Department.

Ootacamund,
30th September 1895.

(Signed) W. FRANCIS,
Acting Under Secretary.

Order—No. 2614 W., dated 24th October 1895.

Ordered that the report be forwarded for the information of the Secretary of State and the Government of India.

[Here enter No. 2615 W., dated 24th October 1895.]

(True Extract.)

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

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

Endorsement—No. 2615 W., dated 24th October 1895.

Copy of the above, with two plans showing the progress of the work, forwarded to the Government of India.

(By order.)

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

Exd. T. K. Narayana Aiyangar.
Spare Copies

19. It will be noticed the high water mark shown this quarter is DeHavilland's high water mark, which is nearly a foot below the maximum high water and therefore the maximum high water line, if the tide always rose to the same height, would be some 10 feet further inshore than the water line shown as DeHavilland's sea level or harbour works datum.

20. The reason DeHavilland's water line has been adopted is because, with the tide gauge now erected, it is always possible to survey a fixed level of water line and show a correct advance or erosion of foreshore, while hitherto the heighest water line could only be recorded, and as the height of high water varies, no two records have hitherto been identical as to sea level; and therefore of little practical value in determining the *actual* changes in the foreshore from time to time.

21. *Foreshore south of the harbour.*—The high water mark south of the harbour on the 30th June shows an average advance of 80 feet of foreshore during the quarter, which is less than previous year, viz., in the same quarter 1892 the advance was 150 feet and in 1893 it was 120 feet.

22. Soundings are being taken to show how far the advance of foreshore has affected the depth of water along the south arm, but the sea has been too rough to continue the survey. As far as the soundings have gone, there does not appear to be any change, since the last survey in 1893 in the depths between the 10 and 6 fathom lines. The inshore soundings will be taken in the calm weather in September, and a complete survey with sections will be submitted as soon as the soundings can be plotted.

23. *Summary of progress.*—The following statement is the summary of progress made on the harbour works during the quarter under review.

24. *Supply of Portland Cement.*—The S.S. *Manora* arrived with 1,500 casks of Portland cement, containing tons 267–17–0–16 and the S.S. *Goorkha* brought 500 casks, containing tons 89–5–2–24 of cement from England; and a further supply of tons 2,142–17–0–16 was due on previous indents.

25. The balance of cement in store on 30th June 1895 was 6,099¾ casks containing tons 1,089–5–1–17 of cement.

26. The issues during the quarter ending 30th June 1895 was 5,198½ casks containing tons 928–6–0–12.

27. *Expenditure.*—The expenditure upon the works during the quarter was Rs. 1,07,929 including establishment, &c., and the quarter closed with a balance upon the sanctioned estimate of Rs. 40,867 in materials, cement and stores, already upon the works on the 30th June 1895.

28. *Miscellaneous.*—The usual repairs and the upkeep of all machinery, cranes, railway lines, &c., and all haulage of coal and other traffic was done by the harbour works locomotives for the Traffic Department as usual.

Madras,
29th August 1895.

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

Statement showing progress during quarter ending 30th June 1895 as shown on accompanying Lithographed Plan No. 40.

Item number.	Particulars and quantity of work done during the quarter ending 30th June 1895.	Sub-heads of works.	North pier concrete capping.	North pier apron or base protection.	South pier head concrete backing between caisson and superstructure.	South pier head apron or base protection.	Pallavaram quarries outturn.	Concrete made for work.	Railway line at work.	Total expenditure during quarter.
		Column.	A	B	C	D	E	F	G	H
1	Rubble stone deposited from boats. Tons.	..	..	..	..	..	..	..	..	..
2	Do. from wagons. ,,	..	..	..	..	..	..	..	..	..
3	Total quantity blasted chips received on works .. .. ,,	..	..	..	..	..	7,597½	..	..	..
4	Concrete blocks set by divers .. No.	..	..	..	63	..	..	..	..	..
5	Do. raised by divers .. ,,	..	..	..	63	..	..	..	..	..
6	Do. made *in situ*, capping ,,	..	31	..	..	..	..	..	..	..
7	Total outturn of concrete .. C.yds.	..	4,073¾	43	790¼	65½	..	4,465½	..	..
8	Advance or progress of completed work .. .. .. Ry. ft.	..	760¾	..	..	..	..	..	..	..
9	Rubble base protected with concrete ,,	..	..	70	..	105	..	..	..	..
10	Broad gauge line, per yard laid new ,,	..	..	..	..	..	..	..	450	..
11	Do. do. taken up ,,	..	..	..	..	..	..	..	450	..
12	Approximate expenditure under sub-heads of work .. .. Rs.	..	46,841	532	24,612	1,080	9,945	..	..	83,010

		Tons	Cwt.	Qrs.	lb.	Quantity due on indents	Tons.	Cwt.	Qrs.	lb.
1,994	Casks of cement received on works during quarter ending 30th June 1895 containing ..	356	1	1	20	.. ..	..	..	..	..
5,198½	Casks of cement issued for works during quarter ending 30th June 1895 containing ..	928	6	0	12	 2,142	17	0	16	
6,099¾	Casks of cement, balance in store at the end of quarter ending 30th June 1895 containing ..	1,089	5	1	17	.. ..	..	..	..	..

Madras,
29th August 1895.

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

COMPARISON of expenditure to date with sanctioned estimate for the quarter ending 30th June 1895.

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					As executed.					Arrears not paid.	Value of work done up to date, columns 11 and 12.
	Quantity.	Rate.	Per	Cost.	Total.	Quantity.	Rate.	Expenditure. Total up to end of last quarter.	During the quarter.	Up to date.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Expenditure up to 31st Dec. 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	..	55,09,324 8 10
2. Establishment	..	..	..	5,29,904		..	..	5,29,904 0 0	..	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	..	5,15,262 6 0
Total ..	..	..	..	..	65,54,490	..	..	65,54,490 14 10	..	65,54,490 14 10	..	65,54,490 14 10
Revised Estimate.												
4. Alteration and extension of block ground .. Prely.	..	..	..	5,892		..	..	5,892 0 11	..	5,892 0 11	..	5,892 0 11
					5,892							
North Pier.												
5. Ordinary rubble deposited from breakwater .. Tons.	13,930	1 12 0	Ton.	24,378		13,930	1 12 0	24,377 9 0	..	24,377 9 0	..	24,377 9 0
6. Ordinary rubble deposited from boats .. .. ,,	206,896	2 0 5	,,	4,19,218		205,477	2 0 8	4,15,132 8 10	..	4,15,132 8 10	4,085 7 2	4,19,218 0 0
7. Concrete blocks for building .. .. C. yds.	51,320	11 8 0	C. yd.	5,90,110		51,320	11 8 0	5,90,110 0 0	..	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		2,615	2 1 1	5,414 11 2	..	5,414 11 2	..	5,414 11 2
9. Setting blocks from 2,200 to 3,600 feet .. ,,	36,520	2 14 3	,,	1,05,569		36,520	2 14 3	1,05,569 0 0	..	1,05,569 0 0	..	1,05,569 0 0
10. Setting blocks at pier head ,,	12,185	9 8 11	,,	1,16,424		12,185	9 8 10	1,16,415 4 0	..	1,16,415 4 0	..	1,16,415 4 0
11. Concrete in mass for filling .. .. ,,	263	4 8 3	,,	1,188		263	4 8 3	1,188 0 7	..	1,188 0 7	..	1,188 0 7
12. Wave-breaker blocks .. ,,	288	9 5 7	,,	2,692		288	9 5 7	2,692 0 0	..	2,692 0 0	..	2,692 0 0
13. Wave-breaker concrete blocks .. .. ,,	77,355	10 14 11	,,	8,45,591		69,863	12 1 8	8,45,459 12 4	..	8,45,459 12 4	..	8,45,459 12 4
14. Depositing concrete blocks ,,	77,932	1 0 0	,,	77,928		70,457	1 1 8	77,918 8 4	..	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		2,029	10 4 8	20,358 0 0	502 1 8	20,860 1 8	30 0 2	20,890 1 10
16. Cramps, iron .. .. No.	331	9 10 1	Each.	3,188		313	10 3 0	3,188 0 0	..	3,188 0 0	..	3,188 0 0
17. Concrete capping .. C. yds.	16,352	11 3 10	C. yd.	1,83,798		10,471½	16 11 4	1,06,542 14 1	61,016 4 1	1,67,559 2 2	7,374 11 4	1,74,933 13 6
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	3,397 5 6	1,03,854 15 10	..	1,03,854 15 10
Total for North Pier ..	..	..	..	..	24,80,607	..	..	24,14,823 14 8	64,915 11 3	24,79,739 9 11	11,499 10 4	24,91,239 4 3
South Pier.												
19 Ordinary rubble deposited from boats .. Tons.	175,078	2 9 0	Ton.	4,49,052		173,659	2 9 4	4,44,126 1 4	..	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		8,615	1 12 0	15,075 13 0	..	15,075 13 0	..	15,075 13 0
21. Concrete blocks for building .. .. C. yds.	45,066	11 3 1	C. yd.	5,04,510		43,341⅝	11 10 3	5,04,510 0 0	..	5,04,510 0 0	..	5,04,510 0 0
22. Setting blocks at commencement .. ,,	2,556	3 1 6	,,	7,912		2,556	3 1 6	7,911 13 3	..	7,911 13 3	..	7,911 13 3
23. Setting blocks from 2,550 to 3,700 feet .. ,,	30,160	3 7 11	,,	1,05,461		30,160	3 7 11	1,05,461 0 0	..	1,05,461 0 0	..	1,05,461 0 0
24. Setting blocks at pier head .. .. ,,	12,350	11 1 3	,,	1,36,845		12,350	11 0 10	1,36,476 1 6	0 4 2	1,36,476 5 8	..	1,36,476 5 8
25. Concrete in mass for filling .. ... ,,	602	7 9 1	,,	4,555		602	7 9 1	4,554 14 4	..	4,554 14 4	..	4,554 14 4
26. Concrete in cylindrical pier head .. .. ,,	2,355	15 0 0	,,	35,325		..	..	32,952 3 7	2,370 15 5	35,323 3 0	1 13 0	35,325 0 0
27. Concrete in filling in between coursed blockwork and caisson .. ,,	184	15 0 0	,,	2,760		790¼	15 0 4	11 5 0	11,853 11 0	11,865 0 0	..	11,865 0 0
28. Wave-breaker concrete blocks .. ,,	47,231	11 1 6	,,	5,24,070		42,589⅞	12 4 7	5,19,240 8 7	3,963 2 5	5,23,203 11 0	..	5,23,203 11 0
29. Depositing concrete blocks .. .. ,,	47,714	1 5 8	,,	64,708		41,073	1 9 0	64,260 3 9	..	64,260 3 9	..	64,260 3 9
30. Concrete in protection to rubble base .. ,,	1,700	9 10 6	,,	16,420		1,173½	13 10 5	14,932 9 1	1,029 4 1	15,961 13 2	51 2 9	16,012 15 11
31. Cramps, iron .. .. No.	259	11 7 7	Each.	2,972		220	13 8 1	2,972 0 0	..	2,972 0 0	..	2,972 0 0
32. Concrete capping .. C. yds	16,247	11 5 8	C. yd.	1,84,495		669	..	23,646 4 6	7,329 8 7	30,975 13 1	1,741 1 11	32,716 15 0
33. Iron caisson .. .. No.	1	..	,,	18,000		..	..	18,000 0 0	..	18,000 0 0	..	18,000 0 0
34. Preparing base for and setting cylindrical pier head .. .. ,,	..	..	,,	28,665		..	..	38,434 14 4	— 35 3 5	38,399 10 11	..	38,399 10 11
Total for South Pier ..	..	..	..	..	21,00,826	..	..	19,32,565 12 3	26,511 10 3	19,59,077 6 6	6,720 0 4	19,65,797 6 10
Extending the rubble revetment protecting the foreshore north of Harbour.												
35. Rubble stone revetment. Tons.	70,600	2 1 0	Ton.	1,45,613	..	91,051	1 8 8	1,40,093 13 2	..	1,40,093 13 2	..	1,40,093 13 2
36. Railway lines	..	..	..	9,849	..	..	..	11,665 7 10	..	11,665 7 10	..	11,665 7 10
	..	..	..	..	1,55,462	..	..	1,51,759 5 0	..	1,51,759 5 0	..	1,51,759 5 0
37. Tools and plant	..	..	..	..	6,11,656	..	..	6,11,541 9 10	..	6,11,541 9 10	..	6,11,541 9 10
38. Contingencies	..	..	..	..	2,17,415	..	..	2,25,984 4 2	1,025 9 9	2,27,009 13 11	72 8 0	2,27,082 5 11
39. Establishment	..	..	..	..	5,34,369	..	..	6,08,444 15 11	22,768 2 5	6,31,213 2 4	5,966 14 10	6,37,180 1 2
40. Materials at site (concrete blocks in yards) C.yds.	..	..	..	..	..	2,301¹⁰¹⁄₃₅₅	14 6 5	36,184 0 7	— 7,292 8 7	28,891 8 0	4 242 13 1	33,134 5 1
41. Advances to work-people ..	..	..	..	..	..	..	..	34 3 2	..	34 3 2	..	34 3 2
Total of estimate and value of work done	..	..	..	..	61,06,227	..	..	59,87,230 2 6	1,07,928 9 1	60,95,158 11 7	28,501 14 7	61,23,660 10 2
Deduct probable recoveries due to sales of tools and plant ..	..	..	..	..	2,77,331	..	..	— 29,799 11 9	..	— 29,799 11 9	..	— 29,799 11 9
Total ..	..	..	..	..	58,28,896	..	..	59,57,430 6 9	1,07,928 9 1	60,65,358 15 10	28,501 14 7	60,93,860 14 5

Comparison of expenditure to date with sanctioned estimate for the quarter ending 30th June 1895—*cont.*

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.			As executed.					
				Expenditure.			Arrears not paid.	Value of work done up to date, columns 11 and 12.	
	Quantity.	Rate.	Per	Cost.	Total up to end of last quarter.	During the quarter.	Up to date.		
1	2	3	4	5	6	7	8	9	10	11	12	13
		Rs. A. P.		Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Extending the Rubble Revetment protecting the Foreshore north of Harbour—cont.												
Total of revised estimate sanctioned in Secretary of State's despatch *plus* expenditure before 31st Dec. 1884	..	..	..	..	1,25,11,921 5 7	1,07,928 9 1	1,26,19,849 14 8	28,501 14 7	1,26,48,351 13 3			
Total sanctioned cost for completion of works	..	..	..	1,23,83,386								
Add recovery on tools and plant	..	..	..	2,77,331								
Deduct total expenditure as per column 11	..	..	..	1,26,19,850								
Total amount available for completing works after quarter ending 30th June 1895	..	..	..	49,867								

Expenditure up to 31st March 1895 from commencement of works .. .. Rs. 1,25,11,921 A. 5 P. 7
" during current official year from 1st April 1895 to 30th June 1895 .. .. 1,07,928 9 1
Total outlay to 30th June 1895 .. .. 1,26,19,849 14 8
Grant for 1895-96, Rs.

MADRAS,
29th August 1895.

(Signed) G. MOOTHOOSAWMY NAIDU,
Accountant, M. H. Works Office.

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

5. The total length of the north pier completed with capping, measured from the end of the pier head at the close of the quarters was 1,590′ 9″.

6. *Rubble base protection.*—During April and May, whenever the sea was quiet enough, the divers levelled up the base, ready to receive concrete, and from the 19th to 27th June, 43 cubic yards of concrete was deposited under water along the base, consolidating it for a length of 70 feet near the landing steps at the north pier.

7. *South pier-head.*—The south pier caisson was filled with concrete "*en masse*" and completed to 7 feet above water level on the 31st March. The work from that date to the close of the quarter consisted in uniting the cylindrical mass of concrete formed in the caisson with the bonded book-work behind it by a backing of mass concrete, as shown on plan, and to prevent this portion of concrete between the vertical face of the caisson and the sloping face of the superstructure, from forming a wedge of concrete; certain blocks were removed from the superstructure to form steps, so as to bring the weight of this mass of concrete to bear upon the superstructure foundations. The gap so formed between the caisson and the end of the masonry wall was therefore 37 feet long and 38 feet wide at the surface, and to confine the concrete to the required slope and position, during the process of depositing the concrete below water, 63 blocks were set abutting the sides of the pier and the caisson, and these blocks were then caulked to form a mould, down to 40 feet below sea level, into which 790¼ cubic yards of concrete was lowered in specially designed double canvas bags, which on reaching the bottom, turned inside-out, releasing the concrete on the bottom in still water.

8. This work was completed on the 26th April, and as the water was so calm, which was not the case with the same work at the north pier last year and caused so much delay, the divers were able to recover the whole of these blocks in two days; and the crane was then travelled to shore on the 29th April, where it remained for the monsoon, during which time it was generally overhauled.

9. *South pier rubble base protection.*—On the 26th May the titan crane repairs were completed, and it was at once run out and commenced dredging, to lower the rubble base around the caisson, necessary for consolidating or protecting the base with a layer of concrete at 39 feet below water level, as has been done along the inner face of the superstructure to prevent scour.

10. By the 27th June, this dredging was completed, and from the 28th to 30th June 65½ cubic yards of concrete was deposited under water around the caisson, and along the base for a distance of 105 feet, which enabled the caisson, capping being started at once, and to date the lighthouse has been built, and 390 feet of the south pier head completed with its lighthouse and capping.

11. *Pallávaram quarries and concrete-making machinery.*—The concrete-making machinery was thoroughly overhauled from the 1st to 14th May, otherwise it was running steadily during the quarter, and the total outturn of concrete for both piers was 4,465½ cubic yards; and the outturn of blasted chips received from the Pallávaram quarries during the quarter amounted to 7,597½ tons.

12. *Protective works north of harbour.*—Throughout the line of revetment there has been no change or movement in the stone during the quarter, but the rails and sleepers are now so rusty and rotten that a new line of rails will be required as soon as the revetment requires feeding with stone.

13. The high water line between the north pier and the old railway jetty, which is not revetted, shows an advance of 50 feet during the quarter, but this change is only temporary and due to the absence of a rough sea, which has allowed the surf to form a much steeper slope of foreshore and so advance the water-line.

14. Along the revetment, north of the railway jetty, no sand has accreted, due to there being a steep bank of stone with 8 to 10 feet of water always along the revetment.

15. *Sea Bottom within the harbour.*—The depth of water inside the harbour has remained the same, excepting immediately along the south pier, where the usual sand bank has formed again by the sand being sucked through the south pier old work.

16. This bank is at its maximum height, and ranges from low water along the wall with a steep slope down to its foot, which dies out at 90 to 100 feet from the pier; in this position it remains each year, until a rough sea rolling down the south pier drifts the sand on shore, which has gradually advanced the foreshore inside the harbour each year.

17. As soon as all-round titan crane is relieved of construction, the sand to the south of the pier will have to be dredged down to the holes in the wall, which must be filled up with concrete, and then the bank inside the harbour can be removed; or the other alternative is to re-wall the south pier with a water-tight deep wall, which forms part of the harbour improvements scheme, and therefore this sand bank is best left alone until it has been decided what form the improvements are to take, and meanwhile the berthing area for steamers is not affected in entering or leaving the harbour, but should the sternfast mooring of No. 1 berth part, a long and deep vessel would touch the sand bank.

18. The high water mark along a portion of the south half of the harbour shows an advance of 40 feet in the quarter, while the northern half has receded by 20 to 35 feet throughout its length, due to there being more wave motion along the north pier in the quarter.

Comparison of expenditure to date with sanctioned estimate for the quarter ending 30th June 1895—*cont.*

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.			Arrears not paid.	Value of work done up to date, columns 11 and 12.
								Total up to end of last quarter.	During the quarter.	Up to date.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Extending the Rubble Revetment protecting the Foreshore north of Harbour—cont.		Rs. A. P.		Rs.	Rs.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Total of revised estimate sanctioned in Secretary of State's despatch *plus* expenditure before 31st Dec. 1884	..	..	..	..	1,23,83,386	..	..	1,25,11,921 5 7	1,07,928 9 1	1,26,19,849 14 8	28,501 14 7	1,26,48,351 13 3
Total sanctioned cost for completion of works	..	..	..	..	1,23,83,386							
Add recovery on tools and plant ..	..	..	..	..	2,77,331							
Deduct total expenditure as per column 11	..	..	..	..		126,60,717						
Total amount availabe for completing works after quarter ending 30th June 1895	..	..	..	..	1,26,19,850							
	..	..	..	..	..	126,19,850						
						49,867						

Expenditure up to 31st March 1895 from commencement of works .. .. Rs. 1,25,11,921 A. 5 P. 7
" during current official year from 1st April 1895 to 30th June 1895 .. .. 1,07,928 9 1 Grant for 1895-96, Rs.

Total outlay to 30th June 1895 .. 1,26,19,849 14 8

MADRAS,
29th August 1895.

(Signed) G. MOOTHOOSAWMY NAIDU,
Accountant, M. H. Works Office.

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

VII.—Statement of Stores, &c., imported by Government—*cont.*

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Commissariat ..	Packages ..	No.	8,588	7,420	2,562	3,611	716	421	— 295
Gazette Press ..	" ..	"	161	149	97	249	285	176	— 109
Marine	" ..	"	729	880	806	317	2	..	— 2
Revenue Survey ..	" ..	"	297	208	25	37	13	16	+ 3
Agriculture ..	" ..	"	380	320	140	6	6	..	— 6
Government Central Museum	" ..	"	16	10	9	6	3	2	— 1
Under Secretary to Government ..	" ..	"	235	504	85	68	13	19	+ 6
Superintendent of Prisons ..	" ..	"	1	17	7	16	14	..	— 14
Revenue Board ..	" ..	"	424	33	9	13	19	1	— 18
Forests	" ..	"	1,196	10	8	1	..	..	
Presidency College.	" ..	"	28	15	2	4	..	1	+ 1
School of Arts ..	" ..	"	3	1	1	..	..	15	+ 14
Inspector of Cattle Diseases ..	" ..	"	9	100	..	..	..	..	
Chemical Examiner.	" ..	"	31	31	36	35	..	..	— 1
Medical College ..	" ..	"	73	31	41	31	6	5	— 1
Deputy Collectors ..	" ..	"	9	15	12	..	2	2	
Astronomer ..	" ..	"	23	13	20	7	..	6	+ 6
Presidency Paymaster ..	" ..	"					2	6	+ 4
Registration ..	" ..	"	8	8	4	..	..	..	
Director of Public Instruction ..	" ..	"	2	4	1	..	8	1	+ 8
Superintendent, Bemount Depot, Hosur ..	" ..	"	7	139	4	3	..	1	+ 1
Resident, Mysore, in Bangalore ..	" ..	"	..	600	214	2	..	..	
Quarter Master ..	" ..	"	..	2	9	4	..	1	
General	" ..	"	..	8	14	..	..	..	
Registrar of High Court	" ..	"	..	1	4	2	3	..	— 3
Curator, Govt. Gardens, Ooty ..	" ..	"	..	..	40	..	1	1	
Civil Engineering College ..	" ..	"	..	..	44	21	68	..	— 68
Secretary to the Chief Commissioner of Coorg, Bangalore ..	" ..	"	..	..	..	..	1	1	
Revenue Settl. ..	" ..	"	..	..	..	3	1	..	— 1
Executive Engineer, Military Works ..	" ..	Bricks	..	..	..	1	6	..	— 6
Controller, Military Accounts ..	" ..	100	..	..	..	2,003	6	740	+ 734
Agent for Govt. Consignments ..	" ..	"	..	..	..	45	..	..	
Government Botanical Gardens ..	" ..	"	..	..	..	2	1	2	+ 1
Steam Dredge Wenlock ..	" ..	"	..	..	..	501	76	..	— 76
Secretary for Berar, Hyderabad ..	" ..	"	..	..	..	282	40	131	+ 91
Collector	" ..	"	7	..	..	..	..	3	+ 3
Officer Commanding No. 4 Company, Eastern Division, Royal Artillery, Fort ..	" ..	"	..	..	..	4	..	1	+ 1
Officer Commanding No. 21, Madras Pioneers, Bangalore.	" ..	"	..	..	..	4	..	..	
Major C. B. Wilkinson "Queen's Own" Sappers and Miners, Bangalore ..	" ..	"	..	..	..	..	..	6	+ 6
Commissioner of Paper Currency ..	" ..	"	..	..	..	..	..	1	+ 1
Officer Commanding 9th Company, Southern Division, Royal Artillery, Fort St. George ..	" ..	"	..	..	..	13	..	..	
	" ..	"	..	..	..	1	..	..	

Comparison of expenditure to date with sanctioned estimate for the quarter ending 30th June 1895—*cont.*

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.			Arrears not paid.	Value of work done up to date, columns 11 and 12.
								Total up to end of last quarter.	During the quarter.	Up to date.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Extending the Rubble Revetment protecting the Foreshore north of Harbour—cont.		RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Total of revised estimate sanctioned in Secretary of State's despatch *plus* expenditure before 31st Dec. 1884	..	..	..	..	1,23,83,386	..	..	1,25,11,921 5 7	1,07,928 9 1	1,26,19,849 14 8	28,501 14 7	1,26,48,351 13 3
Total sanctioned cost for completion of works	..	..	..	..	1,23,83,386							
Add recovery on tools and plant ..	..	..	..	..	2,77,331							
Deduct total expenditure as per column 11	..	..	..	..		126,60,717						
Total amount availabe for completing works after quarter ending 30th June 1895	..	..	..	..	1,26,19,850							
	..	..	..	..	..	126,19,850						
						49,867						

Expenditure up to 31st March 1895 from commencement of works .. .. RS. 1,25,11,921 A. 5 P. 7
„ during current official year from 1st April 1895 to 30th June 1895 .. 1,07,928 9 1 Grant for 1895-96, Rs.

Total outlay to 30th June 1895 .. 1,26,19,849 14 8

MADRAS,
29th August 1895.

(Signed) G. MOOTHOOSAWMY NAIDU,
Accountant, M. H. Works Office.

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

VII.—Statement of Stores, &c., imported by Government—*cont.*

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Commissariat ..	Packages ..	No.	8,588	7,420	*2,562	3,611	716	421	— 295
Gazette Press ..	„ ..	„	161	149	97	249	285	176	— 109
Marine	„ ..	„	729	880	806	317	2	16	— 2
Revenue Survey ..	„ ..	„	297	208	25	37	13	..	— 3
Agriculture ..	„ ..	„	380	220	140	6	6	..	— 6
Government Central Museum ..	„ ..	„	15	10	9	6	3	2	— 1
Under Secretary to Government ..	„ ..	„	235	504	85	68	13	19	+ 6
Superintendent of Prisons ..	„ ..	„	1	117	7	16	14	..	— 14
Revenue Board ..	„ ..	„	424	83	9	13	19	1	— 18
Forests	„ ..	„	1,196	10	3	1	..	15	+ 14
Presidency College.	„ ..	„	98	15	2	4	1	..	..
School of Arts ..	„ ..	„	3	1	1	..	..	..	..
Inspector of Cattle Diseases ..	„ ..	„	9	100	..	35	..	5	.. 1
Chemical Examiner.	„ ..	„	31	31	36	35	6	2	— 4
Medical College ..	„ ..	„	73	31	41	31	..	6	+ 6
Deputy Collectors..	„ ..	„	9	15	12	..	2	6	+ 4
Astronomer ..	„ ..	„	23	13	20	7	..	..	..
Presidency Paymaster ..	„ ..	„	2	8	4	..	8	.. 1	— 8
Registration ..	„ ..	„	7	4	1	..	..	..	+ 1
Director of Public Instruction ..	„ ..	„	9	139	4	3	..	..	..
Superintendent, Remount Depôt, Hosur ..	„ ..	„	..	600	214	2	..	..	..
Resident, Mysore, in Bangalore ..	„ ..	„	..	2	9	4	1	1	..
Quarter Master General ..	„ ..	„	..	8	14	..	3	..	— 3
Registrar of High Court	„ ..	„	..	1	4	2	..	1	..
Curator, Govt. Gardens, Ooty ..	„ ..	„	..	..	40	..	68	..	— 68
Civil Engineering College ..	„ ..	„	..	..	44	21	1	1	..
Secretary to the Chief Commissioner of Coorg, Bangalore ..	„ ..	„	..	..	..	3	1	6	— 1
Revenue Settl. ..	„ ..	„	..	..	..	1	6	..	— 6
Executive Engineer, Military Works..	„ ..	Bricks	..	..	..	2,003	6	740	+ 734
			..	..	..	45	..	..	..
Controller, Military Accounts ..	„ ..	„	100	..	..	2	1	2	+ 1
Agent for Govt. Consignments ..	„ ..	„	..	..	..	501	76	..	— 76
Government Botanical Gardens ..	„ ..	„	..	..	..	282	40	131	+ 91
Steam Dredge Wenlock ..	„ ..	„	..	..	..	..	..	3	+ 3
Secretary for Berar, Hyderabad ..	„ ..	„	..	..	..	..	..	..	..
Collector ..	„ ..	„	..	7	..	4	..	1	+ 1
Officer Commanding No. 4 Company, Eastern Division, Royal Artillery, Fort ..	„ ..	„	..	..	..	4	..	..	..
Officer Commanding No. 21, Madras Pioneers, Bangalore.	„ ..	„	..	..	..	..	..	..	..
Major C. B. Wilkinson "Queen's Own" Sappers and Miners, Bangalore	„ ..	„	..	..	..	..	..	6	+ 6
Commissioner of Paper Currency..	„ ..	„	..	..	..	..	..	..	..
Officer Commanding 9th Company, Southern Division, Royal Artillery, Fort St. George..	„ ..	„	..	..	..	..	..	1	+ 1
			..	..	..	..	1	..	..

VII.—Statement of Stores, &c., imported by Government—*cont.*

Department.	Description.	Class.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Officer Commanding ½ Battalion, 1st Cheshire Regiment, Fort.	Bricks ..	100	..	..	..	5	..	2	+ 2
Officer in charge, Pensioners, Madras ..	,, ..	100	..	..	..	3	..	..	..
Officer Commanding "Queen's Own" Sappers and Miners, Bangalore ..	,, ..	100	..	..	..	1	..	17	+ 17
Officer Commanding Southern Division, Royal Artillery, Madras.	,, ..	100	..	..	..	1	..	..	..
Sanitary Commissioner ..	,, ..	100	..	..	..	..	..	..	..
Pay Examiner ..	,, ..	100	..	..	..	1	..	12	+ 12
Superintendent, Madras Presidency Training School ..	,, ..	100	..	..	..	..	..	2	+ 2

VIII.—Statement of Stores, &c., exported by Government.

Department.	Description.	Class.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Accountant-General ..	Specie, silver.	Boxes.	411	45	95	..	..	..	..
	,, copper	,,	965	200	163	180	10	15	+ 5
	,, notes.	,,	6	13	8	6	2	..	— 2
	,, packages.	No.	4	1	1	5	..	..	..
Bank of Madras ..	,, silver.	Boxes.	34	..	..	..	..	..	..
	,, copper.	,,	..	62	84	..	..	..	..
Ordnance	Packages and pieces.	No.	8,595	5,831	9,257	8,819	1,918	3,573	+ 1,655
Public Works Department.	,,	,,	1,784	488	3,203	1,173	137	784	+ 647
Clothing	Iron ..	Tons.	..	..	..	..	..	7	+ 7
	Packages and pieces.	,,	1,327	1,096	998	1,160	165	346	+ 181
Police	,,	,,	889	974	955	933	288	253	— 35
Salt Revenue	,,	,,	591	785	724	960	107	51	— 56
Medical	,,	,,	1,377	1,610	2,166	1,027	351	305	— 46
Telegraph	,,	,,	8,845	4,330	4,945	3,045	28	298	+ 270
Stationery	,,	,,	693	780	623	680	165	203	+ 38
Stamps	,,	,,	220	268	236	221	30	69	+ 39
Commissariat	,,	,,	7,071	6,205	5,301	6,030	2,056	2,162	+ 106
Gazette Press	,,	,,	526	503	478	618	197	156	— 41
Marine	,,	,,	390	366	37	98	7	6	— 1
Revenue Board ..	,,	,,	77	84	53	35	13	2	— 11
Do. Settlement ..	,,	,,	51	452	223	138	20	17	— 3
Do. Survey ..	,,	,,	75	196	103	58	3	4	+ 1
Superintendent of Prisons.	,,	,,	69	43	17	62	7	20	+ 13
Registration	,,	,,	66	33	5	5	..	..	..
Conservator of Forests ..	,,	,,	34	4	..	..	..	..	..
Quarter Master General ..	,,	,,	..	22	13	..	..	2	+ 2
Government Central Museum	,,	,,	10	9	..	..	..	1	+ 1
Deputy Collectors ..	,,	,,	2	18	13	21	2	..	— 2
Government Astronomer.	,,	,,	..	8	2	..	..	..	..
Agriculture	,,	,,	15	..	..	..	..	..	..
General Hospital ..	,,	,,	..	..	..	..	..	..	..
State Railways ..	,,	,,	100	..	..	..	..	..	..
Government Botanist ..	,,	,,	..	..	..	48	..	1	+ 1
Inspector of Cattle Diseases	,,	,,	3	1	..	..	..	..	..
Chemical Examiner ..	,,	,,	..	1	..	1	..	1	+ 1
Director of Public Instruction	,,	,,	10	6	13	1	..	..	..
Registrar of University ..	,,	,,	13	10	5	5	..	..	..
Collectors	,,	,,	10	..	6	..	..	..	..
Curator of Government Gardens, Ootacamund ..	,,	,,	11	..	12	..	..	..	..

VIII.—Statement of Stores, &c., exported by Government—*cont.*

Department.	Description.	Class.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Engineer, Harbour Trust Board	Packages and pieces.	Tons.	..	..	2	..	..	..	..
	,,	,,	14	18	5	..	..	..	..
Crown Officer, High Court.	,,	,,	..	..	..	..	..	..	..
School of Arts	,,	,,	..	..	..	..	..	..	..
Secretary to Government, Public Department ..	,,	,,	2	..	..	..	..	..	..
Registrar-General of Births, Deaths and Marriages	,,	,,	..	..	..	..	..	..	..
	,,	,,	1	..	..	..	..	..	..
Inam Commissioner ..	,,	,,	..	..	..	..	..	..	..
Consulting Engineer to Government Railways..	Packages.	No.	20	..	..	..	..	..	..
Civil Engineering College.	,,	,,	..	1	..	..	..	..	..
Superintendent, Census Operations	,,	,,	..	4	1	..	..	..	..
	,,	,,	..	2	2	..	..	..	..
Post office	,,	,,	..	2	2	..	..	..	..
Sanitary Commissioner ..	,,	,,	..	..	..	31	5	4	— 1
Registrar of High Court..	,,	,,	..	..	..	1	..	..	..
Superintendent, District Jail, Bellary ..	,,	,,	..	..	..	52	..	..	..
Assistant Engineer, Public Works Department, Government Brickfield.	,,	,,	..	..	..	17	..	..	..
Officer Commanding 6th Regiment, M.I., Madras.	,,	,,	..	..	..	..	..	2	+ 2
Superintendent, Jail, Vizagapatam ..	,,	,,	..	..	..	..	..	8	+ 8
Meteorological Reporter ..	,,	,,	..	..	..	..	..	32	+ 32
Inspector of Salt ..	,,	,,	..	..	..	..	..	8	+ 8
Revenue Board, Land Revenue, Forest ..	,,	,,	..	..	..	..	..	..	..

(Signed) S. HUTCHENCE,
Traffic Manager, Harbour Trust Board.

To the Secretary, Harbour Trust Board, Madras.

MADRAS HARBOUR WORKS.

REPORT of Progress on the Madras Harbour Works for the quarter ending 30th June 1895.

1. Accompanying this report are the following plans and statements :—

40. (*a*) A plan of the harbour to a scale of 200 feet to an inch, showing in red the position and quantity of work done during the quarter. The contours in half fathoms, shown on this plan inside and outside the harbour, are those of the last complete marine survey made in 1893.

2. The positions of the high water marks of 30th June 1895, and that of the previous three months, both to the north of the revetment and the south of the harbour, are shown for comparison.

40. (*b*) A revised plan showing in detail the work done during the quarter at the pier heads as now constructed, and the positions of the caissons at the pier heads of the harbour with a completed eastern entrance, having a width of 515′ 6″ and deep water alongside each pier head.

41. (*c*) A statement comparing the expenditure on different sub-heads of work up to the end of quarter with the provisions of the estimate.

41. (*d*) A statement showing work done under different sub-heads and particulars of cement received and issued.

3. *North pier.*—The work of the north pier during the quarter consisted in extending the concrete capping towards shore, and the work progressed rapidly until the 20th April, when arrangements had to be made to bring the old titan crane to shore during the monsoon; and as the smaller crane available for continuing this work during the monsoon was not capable of dealing with the heavy blocks necessary to be moved, the titan crane placed a sufficient number of blocks in position before returning to shore on the 28th April. By this arrangement the north pier capping was proceeded with during the monsoon.

4. From the 20th to 28th April there was therefore no capping done on account of the crane being upon other work, and from 1st to 14th May the 80 H.P. stationary engines, boilers and crushing machinery were thoroughly overhauled. On the 15th May, the capping work was re-started and continued till the 9th June, when the titan crane was run out again, as fair weather had set in and the capping made good progress to the close of the quarter to which date 760¾ feet of the pier had been capped in the quarter by building 31 large blocks, each covering 4 courses of the superstructure, which required an outturn of 4,073¾ cubic yards of concrete.

5. The total length of the north pier completed with capping, measured from the end of the pier head at the close of the quarters was 1,590′ 9″.

6. *Rubble base protection.*—During April and May, whenever the sea was quiet enough, the divers levelled up the base, ready to receive concrete, and from the 19th to 27th June, 43 cubic yards of concrete was deposited under water along the base, consolidating it for a length of 70 feet near the landing steps at the north pier.

7. *South pier-head.*—The south pier caisson was filled with concrete "*en masse*" and completed to 7 feet above water level on the 31st March. The work from that date to the close of the quarter consisted in uniting the cylindrical mass of concrete formed in the caisson with the bonded book-work behind it by a backing of mass concrete, as shown on plan, and to prevent this portion of concrete between the vertical face of the caisson and the sloping face of the superstructure, from forming a wedge of concrete; certain blocks were removed from the superstructure to form steps, so as to bring the weight of this mass of concrete to bear upon the superstructure foundations. The gap so formed between the caisson and the end of the masonry wall was therefore 37 feet long and 38 feet wide at the surface, and to confine the concrete to the required slope and position, during the process of depositing the concrete below water, 63 blocks were set abutting the sides of the pier and the caisson, and these blocks were then caulked to form a mould, down to 40 feet below sea level, into which 790¼ cubic yards of concrete was lowered in specially designed double canvas bags, which on reaching the bottom, turned inside-out, releasing the concrete on the bottom in still water.

8. This work was completed on the 26th April, and as the water was so calm, which was not the case with the same work at the north pier last year and caused so much delay, the divers were able to recover the whole of these blocks in two days; and the crane was then travelled to shore on the 29th April, where it remained for the monsoon, during which time it was generally overhauled.

9. *South pier rubble base protection.*—On the 26th May the titan crane repairs were completed, and it was at once run out and commenced dredging, to lower the rubble base around the caisson, necessary for consolidating or protecting the base with a layer of concrete at 39 feet below water level, as has been done along the inner face of the superstructure to prevent scour.

10. By the 27th June, this dredging was completed, and from the 28th to 30th June 65½ cubic yards of concrete was deposited under water around the caisson, and along the base for a distance of 105 feet, which enabled the caisson, capping being started at once, and to date the lighthouse has been built, and 390 feet of the south pier head completed with its lighthouse and capping.

11. *Pallávaram quarries and concrete-making machinery.*—The concrete-making machinery was thoroughly overhauled from the 1st to 14th May, otherwise it was running steadily during the quarter, and the total outturn of concrete for both piers was 4,465½ cubic yards; and the outturn of blasted chips received from the Pallavaram quarries during the quarter amounted to 7,597½ tons.

12. *Protective works north of harbour.*—Throughout the line of revetment there has been no change or movement in the stone during the quarter, but the rails and sleepers are now so rusty and rotten that a new line of rails will be required as soon as the revetment requires feeding with stone.

13. The high water line between the north pier and the old railway jetty, which is not revetted, shows an advance of 50 feet during the quarter, but this change is only temporary and due to the absence of a rough sea, which has allowed the surf to form a much steeper slope of foreshore and so advance the water-line.

14. Along the revetment, north of the railway jetty, no sand has accreted, due to there being a steep bank of stone with 8 to 10 feet of water always along the revetment.

15. *Sea Bottom within the harbour.*—The depth of water inside the harbour has remained the same, excepting immediately along the south pier, where the usual sand bank has formed again by the sand being sucked through the south pier old work.

16. This bank is at its maximum height, and ranges from low water along the wall with a steep slope down to its foot, which dies out at 90 to 100 feet from the pier; in this position it remains each year, until a rough sea rolling down the south pier drifts the sand on shore, which has gradually advanced the foreshore inside the harbour each year.

17. As soon as all-round titan crane is relieved of construction, the sand to the south of the pier will have to be dredged down to the holes in the wall, which must be filled up with concrete, and then the bank inside the harbour can be removed; or the other alternative is to re-wall the south pier with a water-tight deep wall, which forms part of the harbour improvements scheme, and therefore this sand bank is best left alone until it has been decided what form the improvements are to take, and meanwhile the berthing area for steamers is not affected in entering or leaving the harbour, but should the sternfast mooring of No. 1 berth part, a long and deep vessel would touch the sand bank.

18. The high water mark along a portion of the south half of the harbour shows an advance of 40 feet in the quarter, while the northern half has receded by 20 to 35 feet throughout its length, due to there being more wave motion along the north pier in the quarter.

VI.—Statement of Goods exported to Coast Ports—*cont.*

—	Packages.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Indigo	Cases and chests ..	165	816	1,162	264	46	20	— 26
Iron	Tons ..	2,244	2,611	755	695	241	208	— 33
Old iron ..	,, ..	..	..	..	165	..	39	+ 39
Jaggery	Bags ..	258	1,448	336	488	38	60	+ 22
Kerosine-oil ..	Cases ..	10,327	659	1,117	11,005	5,741	9,671	+ 3,930
Myrabolams ..	Bags ..	1,054	291	1,112	131	..	67	+ 67
Miscellaneous ..	Packages ..	50,510	69,584	61,706	18,312	9,528	15,697	+ 6,169
Onions ..	Bags and baskets ..	22,442	53,406	47,062	94,737	2,258	9,468	+ 7,210
Oil	Casks ..	807	637	346	641	265	140	— 125
Piece-goods {	Bales ..	} 5,615	8,651	6,368	8,852	1,832	{ 2,628	+ 1,004
	Cases ..						208	
Potatoes ..	Bags and baskets ..	23,637	24,388	30,592	20,068	259	180	— 79
Poonac	Bags ..	4,770	22,181	9,853	396	383	289	— 94
Piano	No. ..	23	16	17	11	..	..	..
Paddy	Bags ..	..	8,806	8,400	4,123	500	..	— 500
Provisions ..	Packages ..	..	..	..	1,565	..	365	+ 365
Rice	Bags ..	5,448	31,893	11,083	8,196	2,479	1,834	— 645
Redwood ..	Tons ..	119	693	4	134	2	21	+ 19
Seeds, gingelly and castor	Bags ..	16,803	2,787	36,799	68,201	19,451	18,688	— 763
Skins, sheep and goat, tanned ..	Bales ..	721	1,046	871	1,706	211	83	— 128
Sandalwood ..	Bundles ..	153	256	2,786	373	92	..	— 92
Spirits and wines. {	Cases ..	2,982	3,783	3,045	2,534	610	790	+ 180
	Casks ..	727	716	992	409	188	99	— 89
	Puncheons ..	13	189	214	..	4	..	— 4
Sugar	Bags ..	773	1,419	473	1,725	77	100	+ 23
Specie	Boxes ..	236	510	47	75	38	11	— 27
Salt	Bags ..	..	..	..	4,001	..	8	+ 8
Tamarind ..	Bundles ..	3,624	8,253	5,090	3,028	1,025	1,816	+ 791
Turmeric ..	Bags ..	19,258	17,883	38,147	53,374	21,706	16,980	— 4,726
Tea	Cases ..	341	62	50	114	19	31	+ 12
Wool	Bales ..	769	603	463	478	177	172	— 5
Yellow metal ..	Tons ..	53	67	256	31	13	11	— 2
Timber	,, ..	..	..	..	..	..	4	+ 4
Bricks	,, ..	..	..	..	..	..	5	+ 5

VII.—Statement of Stores, &c., imported by Government.

Department.	Description.	Class.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Accountant-General. {	Specie, silver	Boxes.	403	582	533	489	267	167	— 100
	,, copper	,,	5,100	710	780	480	100	..	— 100
	Silver and copper ..	,,	..	..	..	..	10	..	— 10
	Notes ..	,,	32	19	30	..	2	..	— 2
	Packages ..	No.	27	1	..	..	..	..	..
Public Works Department. {	Boilers ..	,,	2	..	..	1	..	..	..
	Coal ..	Tons.	50	20	..	..	..	..	..
	Coke ..	,,	..	..	..	64	..	..	..
	Iron ..	,,	271	9	19	151	77	..	— 77
	Bricks ..	100	..	..	..	17	..	..	..
	Stores .	Pkgs.	15,148	6,494	10,812	1,875	76	121	+ 45
	Iron ..	Tons.	..	..	..	..	..	7	+ 7
Ordnance .. {	Coal ..	,,	..	..	1,450	145	..	..	..
	Boilers ..	No.	..	..	..	..	..	2	+ 2
	Ammunition.	Boxes	2,148	..	109	13,465	4,667	2,543	— 2,124
	Gunpowder.	Barrel.	..	..	..	..	..	53	+ 53
	Stores ..	Pkgs.	13,017	28,566	21,057	16,390	5,494	1,023	— 4,471
Madras Harbour Works. {	Bricks ..	100	..	..	..	50	..	..	..
	Cement ..	Casks.	1,869	..	..	14,000	..	2,000	+ 2,000
	Stores ..	Pkgs.	3,869	..	..	40	..	..	..
	Coal ..	Tons.	..	..	..	..	..	..	..
Clothing ..	Packages ..	No.	1,983	2,324	2,176	1,900	143	940	+ 797
Police	,, ..	,,	122	167	196	131	106	26	— 80
Salt Revenue ..	,, ..	,,	272	291	109	79	58	9	— 49
Post office ..	,, ..	,,	1,119	858	742	2,886	814	406	— 408
Medical	,, ..	,,	1,779	1,007	1,920	1,012	149	39	— 110
Telegraph ..	,, ..	,,	34,768	24,126	9,129	10,770	1,115	2,461	+ 1,346
Stationery ..	,, ..	,,	732	1,197	1,156	1,115	211	128	— 83
Stamps	,, ..	,,	1,961	1,122	1,861	1,611	321	1,255	+ 934

5. The total length of the north pier completed with capping, measured from the end of the pier head at the close of the quarters was 1,590′ 9″.

6. *Rubble base protection.*—During April and May, whenever the sea was quiet enough, the divers levelled up the base, ready to receive concrete, and from the 19th to 27th June, 43 cubic yards of concrete was deposited under water along the base, consolidating it for a length of 70 feet near the landing steps at the north pier.

7. *South pier-head.*—The south pier caisson was filled with concrete "*en masse*" and completed to 7 feet above water level on the 31st March. The work from that date to the close of the quarter consisted in uniting the cylindrical mass of concrete formed in the caisson with the bonded book-work behind it by a backing of mass concrete, as shown on plan, and to prevent this portion of concrete between the vertical face of the caisson and the sloping face of the superstructure, from forming a wedge of concrete; certain blocks were removed from the superstructure to form steps, so as to bring the weight of this mass of concrete to bear upon the superstructure foundations. The gap so formed between the caisson and the end of the masonry wall was therefore 37 feet long and 38 feet wide at the surface, and to confine the concrete to the required slope and position, during the process of depositing the concrete below water, 63 blocks were set abutting the sides of the pier and the caisson, and these blocks were then caulked to form a mould, down to 40 feet below sea level, into which 790¼ cubic yards of concrete was lowered in specially designed double canvas bags, which on reaching the bottom, turned inside-out, releasing the concrete on the bottom in still water.

8. This work was completed on the 26th April, and as the water was so calm, which was not the case with the same work at the north pier last year and caused so much delay, the divers were able to recover the whole of these blocks in two days; and the crane was then travelled to shore on the 29th April, where it remained for the monsoon, during which time it was generally overhauled.

9. *South pier rubble base protection.*—On the 26th May the titan crane repairs were completed, and it was at once run out and commenced dredging, to lower the rubble base around the caisson, necessary for consolidating or protecting the base with a layer of concrete at 39 feet below water level, as has been done along the inner face of the superstructure to prevent scour.

10. By the 27th June, this dredging was completed, and from the 28th to 30th June 65½ cubic yards of concrete was deposited under water around the caisson, and along the base for a distance of 105 feet, which enabled the caisson, capping being started at once, and to date the lighthouse has been built, and 390 feet of the south pier head completed with its lighthouse and capping.

11. *Pallávaram quarries and concrete-making machinery.*—The concrete-making machinery was thoroughly overhauled from the 1st to 14th May, otherwise it was running steadily during the quarter, and the total outturn of concrete for both piers was 4,465½ cubic yards; and the outturn of blasted chips received from the Pallavaram quarries during the quarter amounted to 7,597½ tons.

12. *Protective works north of harbour.*—Throughout the line of revetment there has been no change or movement in the stone during the quarter, but the rails and sleepers are now so rusty and rotten that a new line of rails will be required as soon as the revetment requires feeding with stone.

13. The high water line between the north pier and the old railway jetty, which is not revetted, shows an advance of 50 feet during the quarter, but this change is only temporary and due to the absence of a rough sea, which has allowed the surf to form a much steeper slope of foreshore and so advance the water-line.

14. Along the revetment, north of the railway jetty, no sand has accreted, due to there being a steep bank of stone with 8 to 10 feet of water always along the revetment.

15. *Sea Bottom within the harbour.*—The depth of water inside the harbour has remained the same, excepting immediately along the south pier, where the usual sand bank has formed again by the sand being sucked through the south pier old work.

16. This bank is at its maximum height, and ranges from low water along the wall with a steep slope down to its foot, which dies out at 90 to 100 feet from the pier; in this position it remains each year, until a rough sea rolling down the south pier drifts the sand on shore, which has gradually advanced the foreshore inside the harbour each year.

17. As soon as all-round titan crane is relieved of construction, the sand to the south of the pier will have to be dredged down to the holes in the wall, which must be filled up with concrete, and then the bank inside the harbour can be removed; or the other alternative is to re-wall the south pier with a water-tight deep wall, which forms part of the harbour improvements scheme, and therefore this sand bank is best left alone until it has been decided what form the improvements are to take, and meanwhile the berthing area for steamers is not affected in entering or leaving the harbour, but should the sternfast mooring of No. 1 berth part, a long and deep vessel would touch the sand bank.

18. The high water mark along a portion of the south half of the harbour shows an advance of 40 feet in the quarter, while the northern half has receded by 20 to 35 feet throughout its length, due to there being more wave motion along the north pier in the quarter.

III.—Statement of Stores imported by the South Indian Railway Company.

—	Packages.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Stores ..	Packages ..	68,282	22,171	28,640	13,933	1,337	443	— 894
	Tons ..	..	..	992	113	220	24	— 196
Coke	,, ..	14	..	..	..	..	..	..
Coal	,, ..	..	..	..	..	..	..	..
Timber	,, ..	..	..	..	..	..	..	..
Boiler	No. ..	4	12	10	1	..	..	..
Fire bricks ..	100 ..	..	..	..	190	160	60	— 100

IV.—Statement of Goods imported from Coast Ports.

—	Packages.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Apparel and effects.	Packages ..	451	343	527	520	121	128	+ 7
Alum	Barrels ..	10	187	7	149	..	5	+ 5
Acids	Cases ..	89	125	269	305	123	31	— 92
Animals	No. ..	..	10	..	9	..	..	..
Arms and guns ..	Cases ..	45	12	13	10	29	1	— 28
Boilers	No. ..	2	..	..	..	..	..	..
Bricks and tiles ..	100 ..	1,396	57	837	852	..	..	..
Coffee	Bags ..	379	595	575	476	168	82	— 86
Candles	Cases ..	..	..	11	1	1	..	— 1
Colours	,, ..	1,225	1,531	1,591	1,244	56	221	+ 165
Crockery and glassware	,, ..	322	466	426	1,233	382	161	— 221
Coal	Tons ..	13,249	13,792	22,152	17,556	7,517	5,818	— 1,699
Coke	,, ..	..	..	..	..	..	..	..
Carpets	Bales ..	77	94	99	95	24	14	— 10
Camphor and benjamin	Tubs ..	682	1,306	432	1,060	47	53	+ 6
Copra	Bags ..	32	..	122	68	16	253	+ 237
Crackers ..	Cases ..	..	..	..	2	..	..	..
Copper	,, ..	1,667	936	557	10	52	187	+ 135
Do. ..	Tiles and ingots ..	96	421	2,180	3,755	2,589	10	— 2,579
Cutch and lac ..	Packages ..	4,415	3,191	3,554	5,208	1,476	1,059	— 417
Cast iron tubs pipes.	Tons ..	..	..	..	61	..	104	+ 104
Cocoanuts ..	No. ..	3	415	2,023	..	..	..	..
Earthenware ..	Crates ..	392	2,941	407	271	16	5	— 11
Do. ..	Pipes ..	2,626	6,315	950	182	150	..	— 150
Firewood ..	Tons ..	..	..	..	..	..	..	..
Flour	Bags and barrels ..	7,248	11,682	12,270	18,641	3,848	2,717	— 1,131
Gunnies ..	Bales ..	7,930	9,661	9,755	11,341	2,565	2,352	— 213
Gram and peas, &c.	Bags ..	271,682	380,145	395,249	264,890	81,736	66,643	— 15,093
Garlic	,, ..	2,945	1,215	6,007	7,495	2,130	1,753	— 377
Hardware ..	Cases ..	641	1,197	1,507	2,920	109	169	+ 60
Horns	Bundles ..	880	980	511	856	249	235	— 14
Hides	Bales ..	6,127	9,539	6,013	6,896	1,702	1,728	+ 26
Iron	Tons ..	231	293	155	202	66	54	— 12
Iron-safes ..	No. ..	31	38	34	18	5	7	+ 2
Kerosine-oil ..	Cases ..	..	..	500	..	..	1,993	+ 1,993
Leaves	Bundles ..	6,508	3,742	5,113	4,393	162	1,666	+ 1,504
Liquor	Cases ..	..	..	2,193	2,071	558	1,265	+ 707
Machinery ..	Tons ..	158	79	49	202	31	..	— 31
Millinery and haberdashery ..	Cases ..	208	245	144	371	45	61	+ 16
Oil and turpentine.	Drums ..	8,340	6,369	5,941	5,829	1,201	1,189	— 12
Paddy	Bags ..	..	75,980	23,737	19,988	5,085	9,881	+ 4,796
Piece-goods ..	Cases and bales.	3,802	4,756	3,499	4,148	1,322	835	— 123
Deer ..	Bales ..	3,128	4,898	5,420	7,962	1,145	364	— 1,820
Explosives ..	Kegs ..	224	693	247	277	52	2,965	+ 39
Eggs	No. ..	15	12	5	8	3	91	+ 3
Firewood ..	Bags ..	1,147,048	205,176	110,181	111,384	27,398	..	— 3
Pianos	Cases ..	1,434	1,815	1,357	1,594	340	21,557	— 5,841
Rice	Bags ..	30,406	25,747	13,916	12,061	3,595	889	+ 549
Rose-water ..	Cases ..	6,199	50,502	6,807	7,108	1,588	5,493	+ 1,898
Seeds	Bags ..	1,051	699	290	488	75	2,021	+ 433
Skins	Bales ..	143	121	42	265	82	106	+ 31
Silk	,, Bundles ..						71	— 11
Sandalwood ..								

IV.—Statement of Goods imported from Coast Ports—*cont.*

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Sugar	Bags	1,381	866	1,333	2,686	192	459	+ 267
Specie	No.	202	190	193	124	3	15	+ 12
Sundries	Packages	47,533	47,137	48,614	52,303	15,634	12,729	— 2,905
Soap	Cases	445	40	147	863	352	436	+ 84
Sulphur	Casks	471	544	506	295	265	3	— 262
Spice	Packages	359	740	640	944	19	192	+ 173
Stationery	,,	..	..	..	184	..	55	+ 55
Sodawater bottles	Crates	..	..	241	1,651	303	..	— 303
Twine and rope	Bales and coils	839	775	1,063	1,309	204	135	— 69
Tin plates	Boxes	1,807	912	858	1,248	406	252	— 154
	Slabs	..	..	..	78	..	123	+ 123
Twist	Bales	1,126	1,147	1,206	1,187	168	505	+ 337
Turmeric	Bags	7,224	4,977	5,433	5,185	1,857	2,368	+ 511
Timber	Tons	15,137	10,595	15,264	14,154	3,422	4,809	+ 1,387
Tea	Cases	1,321	37	205	30	46	5	+ 16
Tamarind	Bundles	..	..	140	86	58	..	— 53
Yellow metal	Cases	6	542	1,078	281	25	..	— 25
Horses	No.	1	15	8	..	..	..	..
Carriages	,,	..	7	24	14	2	4	+ 2
Tramway materials	Tons	..	..	..	13	..	..	..

V.—Statement of Goods exported to Foreign Ports.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Bone-meal	Bags	..	..	..	5,448	..	3,132	+ 3,132
Beer and ale	Cases	18	2	13	..	..	..	..
	Casks	60	7	..	..	..	..	..
	Hogsheads	3	..	..	..	..	..	..
Cinchona bark	Bales	471	529	411	123	..	..	..
Chillies	Bags and bundles	2,760	9	816	883	503	377	— 126
Cigars	Cases	1,249	556	643	613	229	183	— 46
Coffee	Bags	23,764	34,613	17,737	27,864	5,947	8,703	+ 2,756
Cotton	Bales	48,202	26,140	56,768	39,607	14,963	17,932	+ 2,969
Do. twist	,,	4,229	5,266	1,946	1,664	567	55	— 512
Coriander and omum seeds	Bags	8,218	1,814	7,377	10,473	2,809	839	— 1,970
Carpets	Bales	418	288	391	239	40	95	+ 55
Coal	Tons	905	313	599	152	152	180	+ 28
Deer horns	Packages	1,574	1,549	767	1,477	267	281	+ 14
Explosive	Cases	21	1	..	2	5	..	— 5
Firewood	Tons	..	..	..	..	..	..	..
Four-wheeled carriages	No.	8	5	8	2	..	..	..
Ground-nuts	Bags	93,132	26,209	138,211	110,328	61,605	25,915	— 35,690
Gram, peas, &c.	,,	519	161	1,662	489	17	35	+ 18
Horns, cow and buffalo	Tons	62	29	1,026	71	8	..	— 8
Hides, tanned	Bales and bundles	21,848	21,812	11,149	18,519	3,749	6,878	+ 3,129
Hardware	Cases and casks	..	..	..	522	..	31	+ 31
Indigo	Cases and chests	14,622	29,933	25,008	27,416	4,644	6,906	+ 2,262
Iron	Tons	2	11	17	3	2	14	+ 12
Jaggery	Bags	28,985	56,672	52,668	17,809	16,557	7,719	— 8,838
Myrabolams	,,	235	91	563	237	..	1	+ 1
Miscellaneous	Packages	37,808	28,547	36,531	17,763	9,958	9,212	— 746
Onions	Bags and baskets	21,964	5,617	17,517	16,094	1,481	2,484	+ 1,003
Oil	Casks	434	56	208	451	21	17	— 4
Provisions	Packages	..	..	..	4,417	..	1,548	+ 1,548
Piece-goods	Bales.	6,205	4,857	7,305	7,788	1,335	938	— 69
	Cases.						436	

V.—Statement of Goods exported to Foreign Ports—*cont.*

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Potatoes	Bags and baskets	2,437	282	1,716	1,648	922	750	— 172
	Bags	33,880	16,127	31,311	47,253	9,479	17,841	+ 8,362
Poonac	No.	41	10	15	5	1	4	+ 3
Pianoes	Bags	..	5	22	..	..	..	..
Paddy	,,	1,138	3,229	16,915	44,694	18,422	353	— 18,069
Rice	Tons	699	1,654	733	1,113	278	250	— 28
Redwood	,,	..	..	..	7	..	..	..
Salt	,,	..	..	14,777	90,571	16,543	4,814	— 11,729
Seeds, gingelly and castor	Bags	1,313	12,654	31,535	38,649	9,722	10,814	+ 1,091
Skins, sheep and goat, tanned	Bales	32,194	34,063	699	288	219	381	+ 162
	Bundles	1,534	330	67	22	7	9	+ 2
Sandalwood	Cases	332	41	40	9	9	8	— 1
Spirits and wine	Casks	977	65	..	..	..	..	..
	Puncheons	..	..	..	..	..	3,355	+ 2,428
Sugar	Bags	599	161	1,197	1,762	927	9	— 19
Specie	Boxes	94	48	29	104	28	1,292	— 437
Tamarind	Bundles	6,445	5,331	3,076	1,737	1,729	1,129	— 754
Turmeric	Bags	2,159	941	1,562	3,651	1,883	333	— 278
Tea	Cases	2,265	1,769	1,649	2,156	611	5	+ 5
Timber	Tons	..	..	..	..	..	765	+ 471
Wool	Bales	1,021	1,470	1,532	2,049	294	..	— ½
Yellow metal	Tons	107	100	417	7	½	..	..
Horses	No.	..	..	..	24	..	..	..
Ponies	,,	..	..	..	9	..	..	..
Elephant	,,	..	..	..	2	..	..	..
Lion	,,	..	..	..	1	..	..	..
Tiger	,,	..	..	..	6	..	..	..
Leopards	,,	..	..	..	1	..	..	..
Bear	,,	..	..	..	79	..	..	..
Sheep	,,	..	..	..	..	..	..	..

VI.—Statement of Goods exported to Coast Ports.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Beer and ale	Cases	352	294	305	354	143	47	— 96
	Casks	159	94	91	166	33	22	— 11
	Hogsheads	7	41	161	107	23	25	+ 2
Boiler	No.	395	84	1	..	..	..	..
Cinchona bark	Bales	..	..	80	..	..	..	..
Chillies	Bags and bundles	2,064	2,907	9,207	2,444	1,144	419	— 725
		1,418	1,136	789	732	190	193	+ 3
Cigars	Cases	507	1,449	541	449	28	134	+ 106
Coffee	Bags	5,721	4,245	7,080	5,295	1,115	2,397	+ 1,282
Cotton	Bales	4,698	6,138	3,220	3,034	742	1,169	+ 427
Do. twist	,,	..	..	..	..	..	..	..
Coriander seeds	Bags	2,970	7,002	6,894	2,067	399	102	— 297
Cutch	Casks	..	8,908	132	195	14	38	+ 24
Carpets	Bales	68	51	41	27	3	7	+ 4
Coal	Tons	275	450	157	480	30	30	..
Carriage	No.	21	47	39	35	14	11	— 3
Deer horns	Packages	108	151	52	..	19	..	— 19
Explosive	Cases	2,663	1,331	1,067	46	17	1	— 16
Eggs	Pots	1,165	1,125	1,198	1,263	260	123	— 137
Firewood	Tons	..	..	..	..	..	..	..
Ground-nuts	Bags	27,790	17,839	16,116	63,700	27,153	16,485	— 10,673
Gram, peas, &c.	,,	521	1,226	233	372	1,828	14	— 1,814
Horns, cow and buffalo	Tons	310	307	166	106	32½	59	+ 26½
Hides	Bales and bundles	379	526	535	252	155	38	— 117
	Cases and casks	..	..	..	800	..	364	+ 364
Hardware								

VI.—Statement of Goods exported to Coast Ports—*cont.*

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Indigo	Cases and chests	165	816	1,162	264	46	20	− 26
Iron	Tons	2,244	2,611	755	695	241	208	− 33
Old iron	,,	..	..	..	165	..	39	+ 39
Jaggery	Bags	258	1,448	336	488	38	60	+ 22
Kerosine-oil	Cases	10,327	659	1,117	11,005	5,741	9,671	+ 3,930
Myrabolams	Bags	1,054	291	1,112	131	..	67	+ 67
Miscellaneous	Packages	50,510	69,584	61,706	18,312	9,528	15,697	+ 6,169
Onions	Bags and baskets	22,442	53,406	47,062	94,737	2,258	9,468	+ 7,210
Oil	Casks	807	637	346	641	265	140	− 125
Piece-goods	Bales	5,615	8,651	6,368	8,852	1,832	2,628	+ 1,004
	Cases						208	
Potatoes	Bags and baskets	23,637	24,388	30,592	20,068	259	180	− 79
Poonac	Bags	4,770	22,181	9,853	396	383	289	− 94
Piano	No.	23	16	17	11	..	..	..
Paddy	Bags	..	8,806	8,400	4,123	500	..	− 500
Provisions	Packages	..	..	..	1,565	..	365	+ 365
Rice	Bags	5,448	31,893	11,083	8,196	2,479	1,834	− 645
Redwood	Tons	119	693	4	134	2	21	+ 19
Seeds, gingelly and castor	Bags	16,803	2,787	36,799	68,201	19,451	18,688	− 763
Skins, sheep and goat, tanned	Bales	721	1,046	871	1,706	211	83	− 128
Sandalwood	Bundles	153	256	2,786	373	92	..	− 92
Spirits and wines	Cases	2,982	3,783	3,045	2,534	610	790	+ 180
	Casks	727	716	992	409	188	99	− 89
	Puncheons	13	189	214	..	4	..	− 4
Sugar	Bags	773	1,419	473	1,725	77	100	+ 23
Specie	Boxes	236	510	47	75	38	11	− 27
Salt	Bags	..	..	..	4,001	..	8	+ 8
Tamarind	Bundles	3,624	8,253	5,090	3,028	1,025	1,816	+ 791
Turmeric	Bags	19,258	17,883	38,147	53,374	21,706	16,980	− 4,726
Tea	Cases	341	62	50	114	19	31	+ 12
Wool	Bales	769	603	463	478	177	172	− 5
Yellow metal	Tons	53	67	256	31	13	11	− 2
Timber	,,	..	..	..	..	..	4	+ 4
Bricks	,,	..	..	..	..	..	5	+ 5

VII.—Statement of Stores, &c., imported by Government.

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Accountant-General.	Specie, silver	Boxes.	403	582	533	489	267	167	− 100
	,, copper	,,	5,100	710	780	480	100	..	− 100
	Silver and copper	,,	..	..	..	..	10	..	− 10
	Notes	,,	32	19	30	..	2	..	− 2
	Packages	No.	27	1	..	..	..	..	..
Public Works Department.	Boilers	,,	2	..	..	1	..	..	..
	Coal	Tons.	50	20	..	..	..	..	..
	Coke	,,	..	..	..	64	..	..	..
	Iron	,,	271	9	19	151	77	..	− 77
	Bricks	100	..	..	..	17	..	..	..
	Stores	Pkgs.	15,148	6,494	10,812	1,875	76	121	+ 45
Ordnance	Iron	Tons.	..	..	..	..	..	7	+ 7
	Coal	,,	..	..	1,450	145	..	..	..
	Boilers	No.	..	..	..	..	..	2	+ 2
	Ammunition.	Boxes	2,148	..	109	13,465	4,667	2,543	− 2,124
	Gunpowder.	Barrel.	..	..	..	..	..	53	+ 53
	Stores	Pkgs.	13,017	28,566	21,057	16,390	5,494	1,023	− 4,471
Madras Harbour Works.	Bricks	100	..	..	..	50	..	..	..
	Cement	Casks.	1,869	..	..	14,000	..	2,000	+ 2,000
	Stores	Pkgs.	3,869	..	..	40	..	..	..
	Coal	Tons.	..	..	..	..	..	..	..
Clothing	Packages	No.	1,983	2,324	2,176	1,900	143	940	+ 797
Police	,,	,,	122	167	196	131	106	26	− 80
Salt Revenue	,,	,,	272	291	109	79	58	9	− 49
Post office	,,	,,	1,119	858	742	2,886	814	406	− 408
Medical	,,	,,	1,779	1,007	1,920	1,012	149	39	− 110
Telegraph	,,	,,	34,768	24,126	9,129	10,770	1,115	2,461	+ 1,346
Stationery	,,	,,	732	1,197	1,156	1,115	211	128	− 83
Stamps	,,	,,	1,961	1,122	1,861	1,611	321	1,255	+ 934

I.—Statement of Goods imported from Foreign Ports—*cont.*

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Harmonium	Cases	30	27	24	15	3	5	+ 2
Hardware	Cases and casks	8,234	6,783	8,189	11,532	468	7,082	+ 6,614
Hops	Packages	129	64	297	287	7	178	+ 171
Iron	Tons	13,737	17,929	18,627	10,863	2,432	6,912	+ 4,480
Iron safes	No.	296	150	167	56	26	31	+ 5
Kerosine-oil	Cases	397,862	251,320	342,671	343,365	23	..	− 23
	Tons	..	3,361	5,455	7,899	1,741	2,831	+ 1,090
Malt	Bags	445	407	22	56	4	..	− 4
Millinery and haberdashery	Cases	1,609	1,566	1,370	1,881	192	500	+ 308
Matches	,,	10,665	9,125	8,927	8,140	1,650	2,648	+ 998
Machinery	Tons	3,099	3,241	4,817	3,603	1,025	601	− 424
Nails	Kegs	13,744	10,547	14,022	11,948	937	6,155	+ 5,218
Oil and turpentine.	Drums	7,225	15,500	4,581	4,021	1,613	853	− 760
Piece-goods	Cases and bales.	70,000	51,551	57,676	78,435	12,143	11,900	+ 9,218
							9,461	
Paper	Bales	6,546	5,518	6,038	4,435	1,201	1,385	+ 184
Pianos	No.	153	99	112	49	86	32	− 54
Printing types	Cases	492	727	346	231	51	10	− 41
Pig lead	No.	2,198	1,098	2,612	629	..	423	+ 423
Paint	Kegs	7,758	10,257	5,770	8,436	1,498	2,078	+ 580
Rattan	Bundles	3,823	5,669	2,362	4,519	297	304	+ 7
Rails	..	..	..	..	..	..	2,750	+ 2,750
Soaps	Cases	1,650	970	2,172	1,050	275	364	+ 89
Salt	,,	383	329	153	458	42	60	+ 18
Steel	Cases and casks	864	3,343	794	395	21	9	− 12
Steel bundles and bars	No.	11,261	10,401	10,768	8,905	1,459	6,896	+ 5,437
Steel hoop	Bundles	5,567	1,597	4,930	2,439	2,230	3,815	+ 1,585
Shovels	,,	275	499	29	127	12	..	− 12
Sodawater bottles	Crates	1,395	1,768	1,570	2,155	547	329	− 218
Sulphur	Casks	752	435	1,128	10	10	250	+ 240
Shot	Kegs	177	56	248	130	34	35	+ 1
Sundries	Packages	48,468	33,606	56,235	53,125	16,758	11,621	− 5,137
Specie	No.	1,229	888	768	612	110	181	+ 71
Sugar	Bags	2,152	1,196	4,198	1,527	130	1,145	+ 1,015
Stationery	Cases	1,242	848	1,333	2,939	490	1,010	+ 520
Spelter	Cakes	836	8,786	22,921	4,013	2,123	1,519	− 609
Saw	Cases	70	48	79	36	10	10	..
Twine and rope	Bales and coils	438	455	458	862	28	21	− 7
Tin plates	Boxes	5,608	4,649	6,669	4,389	621	1,274	+ 653
Tin slabs	No.	..	..	..	2,496	..	873	+ 873
Tramway material.	Packages	..	..	..	5,370	..	..	..
	Tons	..	..	..	202	..	..	..
Twist	Bales	15,079	18,664	24,071	29,432	4,707	5,940	+ 1,203
Wine and spirits	Cases	37,877	44,739	36,048	36,519	5,699	9,629	+ 3,930
	Casks	863	658	514	713	695	722	+ 27
	Puncheons	369	733	1,058	139	60	28	− 32
Window glasses	Cases	5,972	12,000	10,425	8,053	975	2,350	+ 1,375
White and red lead.	Kegs	681	951	737	715	95	245	+ 150
Yellow metal	Cases	3,076	3,361	2,784	3,275	1,706	1,456	− 250
Zinc sheets	Packages	2,749	1,690	1,761	1,342	447	12	− 435
Horses	No.	816	959	835	709	..	..	..
Ponies	,,	70	112	131	208	..	..	..
Cows	,,	59	15	7	7	..	..	..
Dogs	,,	13	14	3	45	..	..	..
Elephants	,,	10	7	6	4	4	..	− 4
Two-wheeled carriages	..	..	8	9	9	1	6	+ 5

II.—Statement of Stores imported by the Madras Railway Company.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Stores	Packages	82,105	72,434	47,040	8,915	947	178	− 769
	Tons	3,605	499	156	1,173	..	2,519	+ 2,519
Fuel	,,	..	..	..	..	..	..	..
Coke	,,	1,437	544	716	703	452	291	+ 161
Coal	,,	27	300	237	2,948	.	470	+ 470
Timber	,,	2,477	2,083	1,448	1,364	853	970	+ 117
Fire brick	100	115	330	..	75	368	50	− 318
Boiler	No.	4	..	..	6	..	4	+ 4

VI.—Statement of Goods exported to Coast Ports—*cont.*

—	Packages.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Indigo	Cases and chests	165	816	1,162	264	46	20	— 26
Iron	Tons ..	2,244	2,611	755	695	241	208	— 33
Old iron	,, ..	..	..	..	165	..	39	+ 39
Jaggery	Bags ..	258	1,448	336	488	38	60	+ 22
Kerosine-oil ..	Cases ..	10,327	659	1,117	11,005	5,741	9,671	+ 3,930
Myrabolams ..	Bags ..	1,054	291	1,112	131	..	67	+ 67
Miscellaneous ..	Packages ..	50,510	69,584	61,706	18,312	9,528	15,697	+ 6,169
Onions ..	Bags and baskets ..	22,442	53,406	47,062	94,737	2,258	9,468	+ 7,210
Oil	Casks ..	807	637	346	641	265	140	— 125
Piece-goods	Bales ..	5,615	8,651	6,368	8,852	1,832	2,628	+ 1,004
Potatoes ..	Cases ..	23,637	24,388	30,592	20,068	259	208	— 79
Poonac	Bags and baskets ..	4,770	22,181	9,853	396	383	180	— 94
Piano	Bags ..	23	16	17	11	..	289	— 500
Paddy	No. ..	..	8,806	8,400	4,123	500	..	— 365
Provisions ..	Packages ..	5,448	..	..	1,565	..	365	+ 645
Rice	Bags ..	119	31,893	11,083	8,196	2,479	1,834	— 19
Redwood	Tons ..	16,803	693	4	134	2	21	+ 763
Seeds, gingelly and castor	Bags ..	721	2,787	36,799	68,201	19,451	18,688	— 128
Skins, sheep and goat, tanned ..	Bales ..	153	1,046	871	1,706	211	83	— 92
Sandalwood ..	Bundles ..	2,982	256	2,786	373	92	..	— 180
Spirits and wines.	Cases ..	727	3,783	3,045	2,534	610	790	+ 89
Sugar	Casks ..	13	716	992	409	188	99	— 4
Specie	Puncheons ..	773	189	214	..	4	..	— 23
Salt	Bags ..	236	1,419	473	1,725	77	100	+ 27
Tamarind ..	Boxes ..	..	510	47	75	38	11	— 8
Turmeric ..	Bags ..	3,624	..	..	4,001	..	8	+ 791
Tea	Bundles ..	19,258	8,253	5,090	3,028	1,025	1,816	+ 4,726
Wool	Bags ..	341	17,883	38,147	53,374	21,706	16,980	— 12
Yellow metal ..	Cases ..	769	62	50	114	19	31	+ 5
Timber	Bales ..	53	603	463	478	177	172	— 2
Bricks	Tons ..	..	67	256	31	13	11	— 4
	,, ..	..	..	..	..	..	4	+ 5
	,, ..	..	..	..	..	..	5	+

VII.—Statement of Stores, &c., imported by Government.

Department.	Description.	Class.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Accountant-General.	Specie, silver	Boxes.	403	582	533	489	267	167	— 100
	,, copper	,,	5,100	710	780	480	100	..	— 100
	Silver and copper	,,	..	..	..	..	10	..	— 10
	Notes ..	No.	32	19	30	..	2	..	— 2
	Packages ..	,,	27	1	..	..	..	..	..
	Boilers ..	Tons.	2	..	..	1	..	..	..
Public Works Department.	Coal ..	,,	50	20	..	..	..	..	..
	Coke ..	,,	..	..	..	64	..	..	..
	Iron ..	,,	271	9	19	151	77	..	..
	Bricks ..	100	..	..	..	17	..	..	— 77
	Stores .	Pkgs.	15,148	6,494	10,812	1,875	76	121	+ 45
	Iron ..	Tons.	..	..	..	..	..	7	+ 7
	Coal ..	,,	..	..	..	..	..	..	..
	Boilers ..	No.	..	..	1,450	145	..	2	+ 2
Ordnance ..	Ammunition.	Boxes	2,148	..	..	..	..	..	..
	Gunpowder.	Barrel.	..	..	109	13,465	4,667	2,543	— 2,124
	Stores ..	Pkgs.	13,017	28,566	21,057	16,390	..	53	+ 53
	Bricks ..	100	..	..	..	..	5,494	1,023	— 4,471
Madras Harbour Works.	Cement ..	Casks.	1,869	..	..	50	..	..	..
	Stores ..	Pkgs.	3,869	..	..	14,000	..	2,000	+ 2,000
	Coal ..	Tons.	..	..	..	40	..	..	..
Clothing	Packages ..	No.	1,983	2,324	2,176	1,900	143	940	+ 797
Police	,, ..	,,	122	167	196	131	106	26	— 80
Salt Revenue ..	,, ..	,,	272	291	109	79	58	9	— 49
Post office ..	,, ..	,,	1,119	858	742	2,886	814	406	— 408
Medical	,, ..	,,	1,779	1,007	1,920	1,012	149	39	— 110
Telegraph ..	,, ..	,,	34,768	24,126	9,129	10,770	1,115	2,461	+ 1,346
Stationery ..	,, ..	,,	732	1,197	1,156	1,115	211	128	— 83
Stamps	,, ..	,,	1,961	1,122	1,861	1,611	321	1,255	+ 934

		RS. A. P.	RS. A. P.	RS. A. P.
Charges—cont.				
10. Provident fund deductions from coolies' wages		360 14 10		
11. Provident fund contributions by the Trust		300 14 10		
			23,304 9 6	
(*a*) Contingencies subject to regular audit—				
Postage		...		
Receipt stamps		0 3 0		
Telegrams		...		
Furniture		30 0 0		
Tarpaulins		1,471 8 8		
Law charges		...		
Stationery and printing ...		...		
Advertisement charges ...		...		
Lighting pier and yards ...		460 6 1		
			1,962 1 9	
(*b*) Contingencies admissible without detailed audit—				
Miscellaneous		...	457 14 6	
X. Advances to construction account		...		25,724 9 9
Total, Expenditure ...		...	...	79,000 0 0
Closing balance on the 30th June 1895—		...	...	4,60,355 3 1
Government securities (par value Rs. 4,13,900)		...	4,00,063 14 10	
Cash in the Bank of Madras ...		1,33,974 0 11		
General cash in office		342 7 4		
Advance for contingencies		500 0 0		
			1,34,816 8 3	
				5,34,880 7 1
		Total ...		9,95,235 10 2

N.B.—These balances exclude Rs. 500 with the Traffic Manager for meeting daily porterage charges and Rs. 15 with the Cashier for meeting charges on account of postage and receipt stamps.

(Signed) H. E. HOPE-ROSS,
Chief Accountant, Harbour Trust.

COMPARATIVE statement of receipts and charges of the Madras Harbour Trust under Act II of 1886 for the quarters ending 30th June 1894 and 1895.

Items.	Actuals from 1st April to 30th June 1894.	Actuals from 1st April to 30th June 1895.	Plus or minus.
REVENUE ACCOUNT.			
Opening balances	RS. 11,68,742	RS. 7,53,318	RS. —4,15,424
Receipts.			
I. Contribution from Port funds	57,607	33,900	— 23,707
II. Beach imports: Dues under sec. 45 (*a*) I (i), (ii), (iii)	39,939	43,313	+ 3,374
Pier do. do. do. ...	14,733	17,228	+ 2,495
Beach exports do. do. do. ...	8,968	7,464	— 1,504
Pier do. do. do. ...	14,081	11,920	— 2,161
Wharfage do. II ...	1,765	1,312	— 453
Cranage do. III ...	11,673	10,855	— 818
Storage do. IV ...	426	267	— 159
Demurrage do. V ...	136	73	— 63
Dues for entry of vehicles under sec. 45 (*c*) VI.	3,841	3,644	— 197
Provisions: Dues on—under sec. 45 (*a*) I (i)...	178	154	— 24
Rent of properties	170	171	+ 1
Water: Charge for—delivered at pier head ...	1,398	1,396	— 2
Penalties under section 84	...	...	...
Sundries	...	...	...

Comparative statement of receipts and charges of the Madras Harbour Trust, &c.—*cont.*

Items.	Actuals from 1st April to 30th June 1894.	Actuals from 1st April to 30th June 1895.	Plus or minus.
	Rs.	Rs.	Rs.
III. Porterage under section 45 (*a*) I (iv)			
Beach	...	...	..
Pier	18,301	18,340	+ 39
Miscellaneous	7,505	9,564	+ 2,059
IV. Interest realized on Government of India, 4 per cent. promissory notes	93	3	— 90
Amount refunded from Construction Funds in repayment of advances made from time to time from Revenue Account	5,274	3,314	— 1,960
	...	79,000	+ 79,000
Total ...	1,86,088	2,41,918	...
Total including the opening balance ...	13,54,830	9,95,236	...
Charges.			
I. Interest (under section 30)	2,22,913	2,27,607	+ 4,694
II. Repayment of loan for construction of harbour under section 31	1,00,000	1,00,000	...
III. Refunds	177	110	— 67
IV. Fees to trustees	1,710	1,740	+ 30
V. Chairman's allowances	1,200	1,200	...
VI. Establishment—			
1. Secretary's salary	2,400	2,400	...
2. Correspondence department	931	895	— 36
3. Accounts department	1,630	1,665	+ 35
4. Cash department	1,112	1,211	+ 99
5. Traffic department (shore staff)	6,781	7,653	+ 872
6. Preventive service	3,154	2,875	— 279
7. Do. boatmen	283	305	+ 22
8. Tidal observatory	...	90	+ 90
9. Exchange compensation allowance ...	...	940	+ 940
10. Contribution to Government for Pensions.	214	203	— 11
11. Do. to Provident fund ...	11	18	+ 7
VII. Contingencies—			
(*a*) Subject to regular audit—			
Postage	20	10	— 10
Receipt stamps	58	59	+ 1
Telegrams	24	3	— 21
Furniture	32	61	+ 29
Fees for audit	...	...	...
Law charges	...	...	...
Stationery and printing	1,073	1,234	+ 161
Advertisement charges	230	75	— 155
Uniform for Preventive service, &c. ...	791	678	— 113
(*b*) Admissible without detailed audit—			
Overtime fees to establishment ...	1,404	1,166	— 238
Do. to Preventive service and boatmen			
Miscellaneous	968	898	— 70
VIII. Petty construction and repairs—	975	887	— 88
New works	3,831	535	— 3,296
Repairs	937	1,111	+ 174
Tools and plant	887	...	— 887
IX. Porterage—			
1. Coolies, beach	11,114	11,345	+ 231
2. Do. pier	4,065	4,338	+ 273
3. Do. custom-house	2,223	3,758	+ 1,535
4. Coasting cargo	383	358	— 25
5. Cart hire	...	202	+ 202
6. Engine charges	351	...	— 351
7. Steam cranage charges	368	513	+ 145
8. Refunds	961	1,607	+ 646
9. Claims for losses and damage of cargo.	274	584	+ 310
10. Provident Fund deductions from coolies' wages	285	301	+ 16

Comparative statement of receipts and charges of the Madras Harbour Trust, &c.—*cont.*

Items.	Actuals from 1st April to 30th June 1893.	Actuals from 1st April to 30th June 1894.	Plus or minus.
	Rs.	Rs.	Rs.
IX. Porterage—*cont.*			
11. Provident Fund contributions by the Trust.	285	301	+ 16
(*a*) Contingencies subject to regular audit—			
Postage	...	...	...
Receipt stamps	1	...	— 1
Telegrams	...	...	...
Furniture	...	30	+ 30
Tarpaulins	946	1,472	+ 526
Law charges	...	...	...
Stationery and printing	125	...	— 125
Advertisement charges	...	...	...
Lighting pier and yards	943	460	— 483
(*b*) Contingencies admissible without detailed audit—			
Miscellaneous	446	458	+ 12
X. Advances to construction Account ...	...	79,000	+ 79,000
Total ...	3,76,516	4,60,356	...
Closing Balance ...	9,78,314	5,34,880	...
Total ...	13,54,830	9,95,236	...

(Signed) H. E. HOPE-ROSS,
Chief Accountant, Harbour Trust.

I.—Statement of Goods imported from Foreign Ports.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Apparel and effects.	Packages ..	1,347	1,068	1,017	985	180	149	— 31
Alum	Barrels ..	326	686	910	773	50	154	+ 104
Asphalte, tar and pitch	Casks ..	4,439	2,329	2,638	2,493	251	1,039	+ 788
Acids	Cases ..	1,854	1,408	1,560	2,151	236	213	— 23
Arms and guns ..	,, ..	442	221	250	93	14	..	— 14
Arrack	Casks ..	884	833	1,031	1,218	224	276	+ 52
Blankets ..	Bales ..	119	168	28	55	..	9	+ 9
Beef and pork ..	Cases ..	36	..	..	..	..	..	..
Bricks	100 ..	1,021	551	1,550	900	30	30	..
Beer	Cases ..	6,123	8,710	7,013	5,408	1,839	2,027	+ 188
	Barrels ..	1,140	1,707	1,401	1,800	117	215	+ 98
	Hogsheads ..	6,808	8,210	4,310	6,743	1,410	2,111	+ 701
Boiler	No. ..	51	32	48	25	4	8	+ 4
Corks	Bundles ..	88	72	50	60	8	6	— 2
Canvas	Bales ..	121	193	615	148	66	42	— 24
Candles	Cases ..	16,637	31,017	27,463	28,458	5,729	14,191	+ 8,462
Colours	,, ..	3,838	3,286	2,998	2,763	874	639	— 235
Confectionery, provisions and oilmanstores ..	,, ..	23,395	22,120	20,829	3,999	2,527	4,218	+ 1,691
Crockery and glassware.	Crates and casks ..	4,538	5,817	5,300	16,508	684	1,579	+ 895
	Barrels ..	..	140	134	3,627	13	17	+ 4
Chalk	Tons	14,522	7,369	8,904	366	..	..	..
Cement	Casks ..	335	1,436	989	30	2,637	3,362	+ 725
Cast-iron pipes and tubes	Tubs ..	4,739	4,349	5,765	10,235	171	368	+ 197
Camphor	Tons ..	33,686	49,508	58,179	1,472	1,400	1,020	— 380
Coal	,, ..	578	778	1,018	5,523	22,780	24,915	+ 2,135
Diesel	,, ..	..	2,953	..	76,851	488	441	— 47
Crackers	Cases ..	470	840	327	896	..	..	..
Copper-plates and tiles	No. ..	4,802	521	7,260	..	1	..	— 1
Corrugated iron ..	Packages ..	805	2,512	2,688	975	1,456	3,366	+ 1,910
Dynamite ..	Cases ..	13,040	8,035	10,598	4.096	443	1,399	+ 956
Earthenware ..	Crates ..	2,318	1,886	2,168	3,234	2,443	3,126	+ 683
Fire clay ..	Casks ..	2,768	272	312	9,426	287	922	+ 635
Flour	Bags and barrels ..	1,317	821	1,251	1,492	20	50	+ 30
Flannel	Bales ..	54	30	64	454	147	148	+ 1
Gunpowder ..	Packages ..	6,667	5,987	5,883	23	..	5	+ 5
					3,384	399	1,129	+ 730

I.—Statement of Goods imported from Foreign Ports—*cont.*

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Harmonium ..	Cases ..	30	27	24	15	3	5	+ 2
Hardware ..	Cases and casks ..	8,234	6,783	8,189	11,532	468	7,082	+ 6,614
Hops	Packages ..	129	64	297	287	7	178	+ 171
Iron	Tons ..	13,737	17,929	18,627	10,863	2,432	6,912	+ 4,480
Iron safes ..	No. ..	296	150	167	56	26	31	+ 5
Kerosine-oil.	Cases ..	397,862	251,320	342,671	343.365	23	..	— 23
	Tons ..	..	3,361	5,455	7,899	1,741	2,831	+ 1,090
Malt	Bags ..	445	407	22	56	4	..	— 4
Millinery and haberdashery ..	Cases ..	1,609	1,566	1,370	1,881	192	500	+ 308
Matches ..	,, ..	10,665	9,125	8,927	8,140	1,650	2,648	+ 998
Machinery ..	Tons ..	3,099	3,241	4,817	3,603	1,025	601	— 424
Nails	Kegs ..	13,744	10,547	14,022	11,948	937	6,155	+ 5,218
Oil and turpentine.	Drums ..	7,225	15,500	4,581	4,021	1,613	853	— 760
Piece-goods ..	Cases and bales.	70,000	51,551	57,676	78,435	12,143	11,900 / 9,461	+ 9,218
Paper	Bales ..	6,546	5,518	6,038	4,435	1,201	1,385	+ 184
Pianos	No. ..	153	99	112	49	86	32	— 54
Printing types ..	Cases ..	492	727	346	231	51	10	— 41
Pig lead ..	No. ..	2,198	1,098	2,612	629	..	423	+ 423
Paint	Kegs ..	7,758	10,257	5,770	8,436	1,498	2,078	+ 580
Rattan	Bundles ..	3,823	5,669	2,362	4,519	297	304	+ 7
Rails	..	..	..	..	..	..	2,750	+ 2,750
Soaps	Cases ..	1,650	970	2,172	1,050	275	364	+ 89
Salt	,, ..	383	329	153	458	42	60	+ 18
Steel	Cases and casks ..	864	3,343	794	395	21	9	— 12
Steel bundles and bars	No. ..	11,261	10,401	10,768	8,905	1,459	6,896	+ 5,437
Steel hoop ..	Bundles ..	5,567	1,597	4,930	2,439	2,230	3,815	+ 1,585
Shovels ..	,, ..	275	499	29	127	12	..	— 12
Sodawater bottles ..	Crates ..	1,395	1,768	1,570	2,155	547	329	— 218
Sulphur	Casks ..	752	435	1,128	10	10	250	+ 240
Shot	Kegs ..	177	56	248	130	34	35	+ 1
Sundries ..	Packages ..	48,468	33,606	56,235	53,125	16,758	11,621	— 5,137
Specie	No. ..	1,229	888	768	612	110	181	+ 71
Sugar	Bags ..	2,152	1,196	4,198	1,527	130	1,145	+ 1,015
Stationery ..	Cases ..	1,242	848	1,333	2,939	490	1,010	+ 520
Spelter	Cakes ..	836	8,786	22,921	4,013	2,123	1,519	— 609
Saw	Cases ..	70	48	79	36	10	10	..
Twine and rope ..	Bales and coils ..	438	455	458	862	28	21	— 7
Tin plates ..	Boxes ..	5,608	4,649	6,669	4,389	621	1,274	+ 653
Tin slabs ..	No. ..	..	..	..	2,496	..	873	+ 873
Tramway material.	Packages ..	..	..	..	5,370	..	..	..
	Tons ..	..	..	..	202	..	..	..
Twist	Bales ..	15,079	18,664	24,071	29,432	4,707	5,940	+ 1,203
Wine and spirits.	Cases ..	37,877	44,739	36,048	36,519	5,699	9,629	+ 3,930
	Casks ..	863	658	514	713	695	722	+ 27
	Puncheons ..	369	733	1,058	139	60	28	— 32
Window glasses ..	Cases ..	5,972	12,000	10,425	8,053	975	2,350	+ 1,375
White and red lead.	Kegs ..	681	951	737	715	95	245	+ 150
Yellow metal ..	Cases ..	3,076	3,361	2,784	3,275	1,706	1,456	— 250
Zinc sheets ..	Packages ..	2,749	1,690	1,761	1,342	447	12	— 435
Horses	No. ..	816	959	835	709	..	..	..
Ponies	,, ..	70	112	131	208	..	..	..
Cows	,, ..	59	15	7	7	..	..	..
Dogs	,, ..	13	14	3	45	..	..	..
Elephants ..	,, ..	10	7	6	4	4	..	— 4
Two-wheeled carriages ..	.. ..	..	8	9	9	1	6	+ 5

II.—Statement of Stores imported by the Madras Railway Company.

—	Packages.	1891-92.	1892-93.	1893-94.	1894-95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Stores ..	Packages ..	82,105	72,434	47,040	8,915	947	178	— 769
	Tons ..	3,605	499	156	1,173	..	2,519	+ 2,519
Fuel	,, ..	..	..	..	..	..	..	..
Coke	,, ..	1,437	544	716	703	452	291	+ 161
Coal	,, ..	27	300	237	2,948	..	470	+ 470
Timber ..	,, ..	2,477	2,083	1,448	1,364	853	970	+ 117
Fire brick ..	100 ..	115	330	..	75	368	50	— 318
Boiler	No. ..	4	..	..	6	..	4	+ 4

Receipts—cont.

	Rs. A. P.	Rs. A. P.	Rs. A. P.
IV. Interest on Government of India, 3½ per cent. promissory notes ...	...	...	3,313 10 4
Amount refunded from construction funds in repayment of advances made from time to time from Revenue account from 1st March to 6th May 1895	...	...	79,000 0 0
		Total ...	9,95,235 10 2

Charges.

I. Interest (under section 30) ...	...	2,27,607 4 10	
II. Repayment of loan for construction of harbour under section 31 ...	...	1,00,000 0 0	3,27,607 4 10
III. Refunds	109 9 6		
IV. Fees to trustees	1,740 0 0		
V. Chairman's allowance	1,200 0 0	3,049 9 6	
VI. Establishment, &c.—			
1. Secretary's salary	2,400 0 0		
2. Correspondence department ...	894 7 11		
3. Accounts department ...	1,665 1 10		
4. Cash department	1,211 3 10		
5. Traffic department (shore staff).	7,353 7 2		
6. Preventive service	2,875 0 0		
7. Do. boatmen ...	305 7 0		
8. Tidal observatory	90 0 0		
9. Exchange compensation allowance	940 2 3		
10. Contribution to Government for pensions	202 15 9		
11. Contribution to Provident fund.	17 11 11	18,255 9 8	
VII. Contingencies—			
(*a*) Subject to regular audit—			
Postage	10 7 8		
Receipt stamps	59 5 0		
Telegrams	3 5 0		
Furniture	60 12 0		
Fees for audit	...		
Law charges	...		
Stationery and printing ...	1,234 5 1		
Advertisement charges ..	75 0 0		
Uniform for Preventive service, &c.	678 6 0	2,121 8 9	
(*b*) Admissible without detailed audit—			
Overtime fees to establishment.	1,166 1 8		
Do. to Preventive service and boatmen	897 13 6		
Miscellaneous	886 14 3	2,950 13 5	
VIII. Petty construction and repairs—			
New works	534 13 9		
Repairs	1,110 13 5		
Tools and plant	...	1,645 11 2	28,023 4 6
IX. Porterage—			
1. Coolies, beach	11,344 14 6		
2. Do. pier	4,337 8 9		
3. Do. custom-house	3,757 14 1[illegible]		
4. Coasting cargo	358 3 2		
5. Cart hire	202 2 6		
6. Engine charges	...		
7. Steam crane charges	511 12 0		
8. Refunds	1,606 10 11		
9. Claims for losses and damage of cargo	583 9 2		

I.—Statement of Goods imported from Foreign Ports—*cont.*

—	Packages.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Harmonium ..	Cases ..	30	27	24	15	3	5	+ 2
Hardware ..	Cases and casks ..	8,234	6,783	8,189	11,532	468	7,082	+ 6,614
Hops	Packages ..	129	64	297	287	7	178	+ 171
Iron	Tons ..	13,737	17,929	18,627	10,863	2,432	6,912	+ 4,480
Iron safes ..	No. ..	296	150	167	56	26	31	+ 5
Kerosine-oil.	Cases ..	397,862	251,320	342,671	343,365	23	..	— 23
	Tons ..	..	3,361	5,455	7,899	1,741	2,831	+ 1,090
Malt	Bags ..	445	407	22	56	4	..	— 4
Millinery and haberdashery ..	Cases ..	1,609	1,566	1,370	1,881	192	500	+ 308
Matches ..	,, ..	10,665	9,125	8,927	8,140	1,650	2,648	+ 998
Machinery ..	Tons ..	3,099	3,241	4,817	3,603	1,025	601	— 424
Nails	Kegs ..	13,744	10,547	14,022	11,948	937	6,155	+ 5,218
Oil and turpentine.	Drums ..	7,225	15,500	4,581	4,021	1,613	853	— 760
Piece-goods ..	Cases and bales.	70,000	51,551	57,676	78,435	12,143	11,900 9,461	+ 9,218
Paper	Bales ..	6,546	5,518	6,038	4,435	1,201	1,385	+ 184
Pianos	No. ..	153	99	112	49	86	32	— 54
Printing types ..	Cases ..	492	727	346	231	51	10	— 41
Pig lead ..	No. ..	2,198	1,098	2,612	629	..	423	+ 423
Paint	Kegs ..	7,758	10,257	5,770	8,436	1,498	2,078	+ 580
Rattan	Bundles ..	3,823	5,669	2,362	4,519	297	304	+ 7
Rails	..	..	..	..	..	..	2,750	+ 2,750
Soaps	Cases ..	1,650	970	2,172	1,050	275	364	+ 89
Salt	,, ..	383	329	153	458	42	60	+ 18
Steel	Cases and casks ..	864	3,343	794	395	21	9	— 12
Steel bundles and bars	No. ..	11,261	10,401	10,768	8,905	1,459	6,896	+ 5,437
Steel hoop ..	Bundles ..	5,567	1,597	4,930	2,439	2,230	3,815	+ 1,585
Shovels ..	,, ..	275	499	29	127	12	..	— 12
Sodawater bottles ..	Crates ..	1,395	1,768	1,570	2,155	547	329	— 218
Sulphur	Casks ..	752	435	1,128	10	10	250	+ 240
Shot	Kegs ..	177	56	248	130	34	35	+ 1
Sundries ..	Packages ..	48,468	33,606	56,235	53,125	16,758	11,621	— 5,137
Specie	No. ..	1,229	888	768	612	110	181	+ 71
Sugar	Bags ..	2,152	1,196	4,198	1,527	130	1,145	+ 1,015
Stationery ..	Cases ..	1,242	848	1,333	2,939	490	1,010	+ 520
Spelter	Cakes ..	836	8,786	22,921	4,013	2,123	1,519	— 609
Saw	Cases ..	70	48	79	36	10	10	..
Twine and rope ..	Bales and coils ..	438	455	458	862	28	21	— 7
Tin plates ..	Boxes ..	5,608	4,649	6,669	4,389	621	1,274	+ 653
Tin slabs ..	No. ..	..	..	..	2,496	..	873	+ 873
Tramway material.	Packages ..	..	..	..	5,370	..	..	..
	Tons ..	..	..	..	202	..	..	..
Twist	Bales ..	15,079	18,664	24,071	29,432	4,707	5,940	+ 1,203
Wine and spirits.	Cases ..	37,877	44,739	36,048	36,519	5,699	9,629	+ 3,930
	Casks ..	863	658	514	713	695	722	+ 27
	Puncheons ..	369	733	1,058	139	60	28	— 32
Window glasses ..	Cases ..	5,972	12,000	10,425	8,053	975	2,350	+ 1,375
White and red lead.	Kegs ..	681	951	737	715	95	245	+ 150
Yellow metal ..	Cases ..	3,076	3,361	2,784	3,275	1,706	1,456	— 250
Zinc sheets ..	Packages ..	2,749	1,690	1,761	1,342	447	12	— 435
Horses	No. ..	816	959	835	709	..	..	..
Ponies	,, ..	70	112	131	208	..	..	..
Cows	,, ..	59	15	7	7	..	..	..
Dogs	,, ..	13	14	3	45	..	..	..
Elephants ..	,, ..	10	7	6	4	4	..	— 4
Two-wheeled carriages ..	.. ..	..	8	9	9	1	6	+ 5

II.—STATEMENT of Stores imported by the Madras Railway Company.

—	Packages.	1891–92.	1892–93.	1893–94.	1894–95.	Quarter ending 30th June 1894.	Quarter ending 30th June 1895.	Increase or decrease.
Stores ..	Packages ..	82,105	72,434	47,040	8,915	947	178	— 769
	Tons ..	3,605	499	156	1,173	..	2,519	+ 2,519
Fuel	,, ..	..	..	..	..	..	..	..
Coke	,, ..	1,437	544	716	703	452	291	+ 161
Coal	,, ..	27	300	237	2,948	..	470	+ 470
Timber ..	,, ..	2,477	2,083	1,448	1,364	853	970	+ 117
Fire brick ..	100 ..	115	330	..	75	368	50	— 318
Boiler	No. ..	4	..	..	6	..	4	+ 4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From W. J. H. LE FANU, Esq., I.C.S., Chairman, Harbour Trust Board, Madras, to the Chief Secretary to Government, dated 20th September 1895, No. 2497.

I have the honour to submit, for the information of Government, a report from the Board's Engineer upon the progress made upon the Madras Harbour during the quarter ending 30th June 1895.

I also submit the usual statements of receipts and charges, revenue account, from 1st April to 30th June, and returns of cargo imported and exported during the period.

2. The work upon the harbour has consisted exclusively of placing in position along and upon the walls cement concrete *en masse*. Before the commencement of the quarter the caisson had been set at the south pier head and completed. During the current quarter the interval between the caisson and the wall was filled in with concrete *en masse*, for which purpose 790¼ cubic yards were used and 65½ cubic yards were placed upon the base around the pier head. At the north pier 4,073¾ cubic yards of concrete were deposited in the capping, and this was thus advanced shorewards by 760¾ feet; 43 cubic yards of concrete were deposited upon the base near the steps at the bend of the north pier.

3. The total outturn of concrete by machinery was 4,465½ cubic yards during the quarter, and 7,597½ tons of chips were received from the Pallávaram quarries. The cement issued from store amounted to 928½ tons or 5,198 casks. There remained on hand upon the 30th June 6,100 casks containing 1,089 tons.

4. The cash expenditure upon the work during the quarter has amounted to Rs. 1,07,929.

5. The advance of sand outside the south arm of the harbour continues to be rapid; during the quarter it amounted to 80 feet which, although as remarked by the Engineer, is less than in the corresponding quarters of 1892 and 1893, it is 15 feet more than reported during the corresponding period last year.

This sand the Engineer also reports has been sucked through the interstices of the south arm, and has formed the usual sand bank alongside the wall inside the harbour. The Engineer now admits that this accumulation of sand does interfere with vessels berthed in the south-west corner of the harbour, which has been asserted by the marine officers of the port for some years past, and in G.O. Nos. 241 and 242, Marine, dated 7th August 1895, Government called the attention of the Board to the discrepancy between the statements of the Engineer and the Deputy Port Conservator, and the Engineer now admits that the Deputy Conservator is correct in his assertion that the sand is encroaching upon No. 1 berth.

The survey promised by the Engineer during the month of September is awaited by the Board. The result will be communicated to Government as early as possible when received.

6. The tonnage of vessels which entered the harbour varies only slightly from the corresponding quarter in 1894 having been 160 vessels of 289,549 tons net register, against 172 vessels of 295,882 tons last year. Port dues received have amounted to Rs. 29,754 against Rs. 28,767.

Pilotage fund receipts have amounted to Rs. 7,660 against Rs. 7,592 in 1893 and Rs. 9,276 last year as follows:—

—	Pilotage fees.	Stern fast boat hire.	Fees for shifting berths.	Harbour Master's fees.	Miscellaneous.	Total.
1894.	Rs.	Rs.		Rs.		Rs.
April	2,710	267	..	960	..	3,937
May	1,330	126	..	500	..	1,956
June	2,187	216	..	980	..	3,383
Total ..	6,227	609	..	2,440	..	9,276
1895.						
April	1,465	153	..	460	..	2,078
May	2,158	225	..	820	..	3,203
June	1,604	165	..	610	..	2,379
Total ..	5,227	543	..	1,890	..	7,660

7. The opening cash balance in the revenue account amounted on the 1st April to Rs. 7,53,318 after the payment of Rs. 5,00,000 in reduction of capital advances under section 32. This balance included Government 3½ per cent. promissory notes of the par value of Rs. 3,80,000 which stood in the Trust books at a net cost of Rs. 3,66,164. Cash in the Bank of Madras and in office was on that date Rs 3,87,154; and out of this sum Rs. 2,27,607 interest, and the usual refund of one lakh, under sections 30 and 31, were paid to the credit of Government with the Bank of Madras on the same date.

8. Harbour dues have, during the quarter, amounted to Rs. 97,797 and porterage receipts Rs. 27,907, total Rs. 1,25,704 against Rs. 1,23,207 in the corresponding period last year.

The expenditure has been Rs. 53,748 against Rs. 53,604.

Details are given of the comparative receipts and charges under each item on page 6.

9. Referring to the Traffic Manager's returns—*Foreign Imports* show a substantial increase of 2,135 tons of coal, 4,480 tons of iron and 1,090 tons of kerosine oil in bulk. Piece-goods are also 9,218 bales and cases more than in the first quarter of 1894–95, and twist 1,203 bales more. These are the principal items, but the whole return shows considerable advance throughout, with a few exceptions, the most important of which is machinery 424 tons less.

Coasting Imports show little variation except gram, peas, and rice 21,000 bags less, paddy 4,796 more, and timber an extra 1,387 tons.

Foreign Exports show a large reduction in many items, ground-nuts—35,690 bags, jaggery 8,778 bags, rice 18,069 bags, seeds 13,699 bags; while on the other hand coffee has increased by 2,756 bags. Cotton + 2,969 bales, hides + 3,129 bales, indigo + 2,262 chests, poonac + 8,362 bags, tanned skins + 1,091 bales, sugar + 2,428 bags.

Coasting Exports have been generally well maintained, but ground-nuts show a large reduction — 10,673 bags and turmeric 4,726 bags. The chief items showing increases are cotton + 1,282 bales, twist + 427 bales, kerosine-oil + 3,930 cases, piece-goods + 1,004 bales and cases.

10. I take this opportunity of reporting, with reference to paragraph 4 of G.O. Nos. 241,242, dated 7th August 1895, that the refunds of harbour dues referred to in the Administration report for the year 1894–95 Rs. 764–5–2 is caused almost entirely by consignees paying dues upon the full invoiced quantities of coal and iron, the dues being adjusted by refund when the actual quantities landed have been ascertained by weighment upon delivery and are found to be less than has been paid for.

The refunds on account of porterage Rs. 4,395–15–8 have been caused as follows: A small portion is due to the adjustment of charges when weights as explained above are ascertained to be less than invoiced quantities; but the great bulk of the refunds is due to consignees paying in advance for coal to be stacked and afterwards loaded into railway vehicles, while owing to the improved facilities afforded by the Board large quantities by every steamer are now loaded direct from the beach, as landed, into railway trucks, and consignees thus save 2 annas per ton which after allowing for refunds on account of short weight landed, a very small item, showed a clear gain to the trade of the port of over Rs. 4,000 during the year.

During the quarter under review the refunds on account of harbour dues have been Rs. 109–9–6 and in the porterage account the refunds have amounted to Rupees 1,606–10–11.

As facilities are further improved, these refunds are likely to become still larger.

—

Enclosures.

Madras Harbour Trust—Statement of Receipts and Charges from 1st April to 30th June 1895.

	Rs. A. P.	Rs. A. P.	Rs. A. P.
Opening balance—			
Government securities (par value Rs. 3,80,000)		3,66,163 14 10	
1. Cash in the Bank of Madras ...	3,86,276 15 9		
2. General cash in office	376 14 1		
3. Advance for contingencies ...	500 0 0		
		3,87,153 13 10	
			7,53,317 12 8
Receipts.			
I. Contributions from Port funds ...		...	33,900 0 0
II. Beach imports: Dues under section 45 (*a*) I (i), (ii), (iii)	43,312 12 2		
Pier do. do. do. ...	17,228 7 4		
Beach exports do. do. do. ...	7,463 13 5		
Pier do. do. do. II	11,920 5 1		
Wharfage do. do. III	1,311 15 0		
Cranage do. do. IV	10,855 2 6		
Storage do. do. V	266 9 9		
Demurrage	73 3 9		
Dues for entry of vehicles under section 45 (*c*) VI	3,643 8 4		
Provisions: Dues on—under section 45 (*a*) I (i)	153 9 0		
Rent of properties	170 13 8		
Water: Charge for—delivered at pier head	1,396 8 0		
Penalties under section 84	...		
Sundries	...		
		97,796 12 0	
III. Porterage under section 45 (*a*) I (iv)—			
Beach	18,340 6 11		
Pier	9,564 6 3		
Miscellaneous	2 10 0		
		27,907 7 2	
			1,25,704 3 2

Receipts—cont.

	RS. A. P.	RS. A. P.	RS. A. P.
IV. Interest on Government of India, 3½ per cent. promissory notes ...	...	...	3,313 10 4
Amount refunded from construction funds in repayment of advances made from time to time from Revenue account from 1st March to 6th May 1895	...	...	79,000 0 0
		Total ...	9,95,235 10 2

Charges.

I. Interest (under section 30) ...	...	2,27,607 4 10	
II. Repayment of loan for construction of harbour under section 31 ...	...	1,00,000 0 0	3,27,607 4 10
III. Refunds	109 9 6		
IV. Fees to trustees	1,740 0 0		
V. Chairman's allowance	1,200 0 0		
VI. Establishment, &c.—		3,049 9 6	
1. Secretary's salary	2,400 0 0		
2. Correspondence department ...	894 7 11		
3. Accounts department ...	1,665 1 10		
4. Cash department	1,211 3 10		
5. Traffic department (shore staff).	7,353 7 2		
6. Preventive service ...	2,875 0 0		
7. Do. boatmen ...	305 7 0		
8. Tidal observatory ...	90 0 0		
9. Exchange compensation allowance	940 2 3		
10. Contribution to Government for pensions	202 15 9		
11. Contribution to Provident fund.	17 11 11		
VII. Contingencies—		18,255 9 8	
(*a*) Subject to regular audit—			
Postage	10 7 8		
Receipt stamps	59 5 0		
Telegrams	3 5 0		
Furniture	60 12 0		
Fees for audit	...		
Law charges	...		
Stationery and printing ...	1,234 5 1		
Advertisement charges ...	75 0 0		
Uniform for Preventive service, &c.	678 6 0		
(*b*) Admissible without detailed audit—		2,121 8 9	
Overtime fees to establishment.	1,166 1 8		
Do. to Preventive service and boatmen	897 13 6		
Miscellaneous	886 14 3		
VIII. Petty construction and repairs—		2,950 13 5	
New works	534 13 9		
Repairs	1,110 13 5		
Tools and plant	...		
		1,645 11 2	
IX. Porterage—			28,023 4 6
1. Coolies, beach	11,344 14 6		
2. Do. pier	4,337 8 9		
3. Do. custom-house	3,757 14 10		
4. Coasting cargo	358 3 2		
5. Cart hire	202 2 6		
6. Engine charges	...		
7. Steam crane charges	511 12 0		
8. Refunds	1,606 10 11		
9. Claims for losses and damage of cargo	583 9 2		