Cyc 1696

Govt. of Madras. 1895

PUBLIC WORKS.

1/5/95

Dated

Rec'd

Encl.

G.O. 22nd March 1895. Nos. 691-924

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691 W

Madras Harbour Works

Progress report of the — the quarter ending 31st with remarks December/94, ordered to be forwarded for the information of the Secy: of State & the Govt: of India.

—do—

forwarding copy of Pros: applying the progress of the — for the quarter ending 31st December/94, with plans showing the progress of the works.

Forwarding the progress report of the Madras Harbour works for the quarter ending 31st December/94, together with plans showing the position & quantity of work done during the quarter.

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INDEXED

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From E. TURNER, Esq., I.C.S., Chairman, Harbour Trust Board, Madras, to the Chief Secretary to Government, dated 20th February 1895, No. 4177.

I have the honour to submit, for the information of Government, the usual report upon the progress made in the reconstruction of the Madras Harbour, during the quarter ending 31st December 1894, together with the various tracings and statements referred to by the Board's Engineer, also the Traffic Manager's returns of imports and exports for the quarter, and statement of cash receipts, to which is appended a comparison between the receipts for the two periods, 1st April to 31st December 1893 and 1894.

2. The progress upon harbour construction has been very slow, for which various reasons are adduced by the Board's Engineer in his report. It is noted that he still expects to place the caisson for the south pier-head in position next March, but now refers to difficulties, which he anticipates will be greater than experienced at the North pier.

3. In this report, dated 4th February, the Engineer shows a balance of Rupees 2,53,751 available for completing the harbour, or for work to be done; and in his letter No. 195, dated 4th June 1894, he clearly stated, in reply to an enquiry from the Government of India, that the amount of the revised sanctioned estimate for reconstruction "shown in 1891, viz., Rs. 61,06,227, is all that is required;" but the Trustees have been much surprised to receive an estimate, dated 6th February, forwarded to me by the Engineer on the 8th idem, only two days later than his report, stating that the sum required for the completion of the harbour will be Rs. 4,70,682 from 1st April 1895. This estimate was considered by the Board at its special meeting held on Friday 15th instant, and the Engineer has been called upon to frame a detailed estimate in the form appended to this report, which shows the comparison of expenditure with sanctioned estimate; and this will be submitted to Government for information and orders as soon as possible. I refer to the matter now, although not alluded to by the Engineer in his report, to afford Government the earliest intimation now possible, that the balance of the sanctioned estimate still available will not be sufficient to complete the harbour, as previously reported it would.

When further information has been gathered, Government will be specially addressed upon the subject.

4. I need not now refer in detail to the revenue receipts and charges, or to the tabulated statements of exports and imports annexed hereto, as the *plus* and *minus* columns show the variations at a glance; but need only observe that cash receipts for dues upon goods landed and shipped show, for the nine months ending 31st December 1894, an increase of Rs. 3,069 as compared with the corresponding period of 1893. The trade of the port may therefore be regarded as showing upon the whole very little variation in volume from the corresponding period of the previous year; the variations in detail can better be compared and commented upon when submitting the report for the full twelve months in April next.

5. The shipping accommodated in the harbour during the quarter under review, aggregated a tonnage of 286,726 net register, represented by 160 vessels; and one vessel of 41 register tons, anchored outside the harbour within port limits.

ENCLOSURES.

EXTRAT of Proceedings of the Trustees of the Harbour of Madras, at a meeting held at the offices of the Board, on Friday the 22nd day of February 1895.

* * * * *

6. Read draft letter to the Chief Secretary to Government, submitting progress report upon the reconstruction of the harbour, for the quarter ending 31st December 1894, and bringing to notice that the balance of the sanctioned estimate is insufficient to complete the harbour.

Approved.

* * * * *

(True Extract.)

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

MADRAS HARBOUR TRUST—Statement of Receipts and Charges from 1st April to 31st December 1894.

	RS. A. P.	RS. A. P.	RS. A. P.
Opening balance—			
Government securities (par value Rs. 8,20,000)		8,16,547 10 10	
1. Cash in the Bank of Madras ...	3,51,356 14 1		
2. General cash in office	337 10 8		
3. Advance for contingencies ...	500 0 0		
		3,52,194 8 9	11,68,742 3 7
Receipts.			
I. Contributions from Port funds ...	...	...	57,607 5 6
II. Beach imports: Dues under section 45 (*a*) I (i), (ii), (iii)	1,09,890 3 9		
Pier do. do. do. ...	45,924 2 6		
Beach exports do. do. ...	23,873 12 2		
Pier do. do. do. ...	36,548 5 9		
Wharfage do. do. II	4,120 0 0		
Cranage do. do. III	31,670 8 9		
Storage do. do. IV	1,025 1 5		
Demurrage do. do. V	361 8 10		
Dues for entry of vehicles under section 45 (*c*) VI	8,948 2 11		
Provisions: Dues on—under section 45 (*a*) I (i)	464 12 6		
Rent of properties	503 10 8		
Water: Charge for—delivered at pier head	3,474 12 0		
Penalties under section 84	...		
Sundries	0 0 4		
		2,66,805 1 7	
III. Porterage under section 45 (*a*) I (iv)—			
Beach	45,818 7 7		
Pier	23,270 7 3		
Miscellaneous	130 10 6		
		69,219 9 4	
			3,36,024 10 11

Receipts—cont.	RS. A. P.	RS. A. P.	RS. A. P.
IV. Interest on Government of India 4 per cent. promissory notes ...	...	...	27,700 14 7
Amount refunded from construction funds in repayment of advances made from time to time from Revenue Account from 1st April to 31st October 1894	...	...	31,000 0 0
Total ...	...	...	16,21,075 2 7
Charges.			
I. Interest (under section 30) ...	...	2,22,912 8 1	
II. Repayment of loan for construction of harbour under section 31 ...	...	1,00,000 0 0	3,22,912 8 1
III. Refunds	...	655 5 1	
IV. Establishment, &c.—			
1. Chairman's salary	3,600 0 0		
2. Secretary's do.	7,200 0 0		
3. Correspondence department ...	2,683 0 6		
4. Accounts department ...	4,974 5 11		
5. Cash department	3,495 7 1		
6. Traffic department (shore staff).	20,806 5 4		
7. Preventive service	9,271 1 2		
8. Do. boatmen ...	894 11 10		
9. Exchange compensation allowance	3,539 15 0		
10. Contribution to Government for pensions	623 5 2		
11. Contribution to Provident fund.	60 5 4		
12. Fees to Trustees	4,620 0 0		
13. Tidal observatory	30 0 0	61,798 9 4	
V. Contingencies—			
(*a*) Subject to regular audit—			
Postage	47 1 9		
Receipt stamps	156 2 0		
Telegrams	27 6 0		
Furniture	130 13 0		
Fees for audit	...		
Law charges	31 5 0		
Stationery and printing ...	2,950 1 11		
Advertisement charges ..	230 0 0		
Uniform for Preventive service, &c.	1,441 12 0	5,014 9 8	
(*b*) Admissible without detailed audit—			
Overtime fees to establishment.	3,363 15 6		
Do. to Preventive service and boatmen	2,484 1 3		
Miscellaneous	2,580 14 11	8,428 15 8	
VI. Petty construction and repairs—			
New works	8,992 10 2		
Repairs	8,341 11 2		
Tools and plant	887 3 5	18,221 8 9	
			94,119 0 6
VII. Porterage—			
1. Coolies, beach	28,316 7 6		
2. Do. pier	12,272 14 8		
3. Do. custom-house	7,321 13 1		
4. Coasting cargo	1,175 2 6		
5. Boat hire	...		
6. Engine charges	1,835 7 9		
7. Steam crane charges	1,797 15 3		
8. Refunds	3,656 9 5		
9. Claims for losses and damage ...	678 10 4		

Charges—cont.	RS. A. P.	RS. A. P.	RS. A. P.
10. Provident fund deductions from coolies' wages	810 6 4		
11. Provident fund contributions by the Trust	810 6 4		
		58,675 13 2	
(*a*) Contingencies subject to regular audit—			
Postage	...		
Receipt stamps	2 6 0		
Telegrams	...		
Furniture	29 2 0		
Tarpaulins	1,225 9 2		
Law charges	...		
Stationery and printing ...	311 8 4		
Advertisement charges ...	...		
Lighting pier and yards ...	1,395 15 3		
		2,964 8 9	
(*b*) Contingencies admissible without detailed audit—			
Miscellaneous	...	2,208 8 0	
			63,848 13 11
VIII. Advances to construction account.	...	...	31,000 0 0
Total Expenditure ...	...	...	5,11,880 6 6
Closing balance on the 30th September 1894—			
Government securities (par value Rs. 10,80,000)	...	10,86,113 10 10	
Cash in the Bank of Madras ...	16,524 15 11		
General cash in office	6,056 1 4		
Advance for contingencies	500 0 0		
		23,081 1 3	
			11,09,194 12 1
Total ...			16,21,075 2 7

(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 nine months ending 31st December 1893 and 1894.

Items.	Actuals from 1st April to 31st Dec. 1893.	Actuals from 1st April to 31st Dec. 1894.	Plus or minus.
REVENUE ACCOUNT.	RS.	RS.	RS.
Opening balance	11,65,852	11,68,742	+ 2,890
Receipts.			
I. Contributions from Port funds	20,000	57,607	+ 37,607
II. Beach imports: Dues under sec. 45 (*a*) I (i), (ii), (iii)	1,12,005	1,09,890	— 2,115
Pier do. do. do. ...	44,711	45,924	+ 1,213
Beach exports do. do. do. ...	22,173	23,874	+ 1,701
Pier do. do. do. ...	32,841	36,548	+ 3,707
Wharfage do. II ...	5,280	4,120	— 1,160
Cranage do. III ...	30,211	31,671	+ 1,460
Storage do. IV ...	1,779	1,025	— 754
Demurrage do. V ...	...	362	+ 362
Dues for entry of vehicles under sec. 45 (*c*) VI.	9,197	8,948	— 249
Provisions: Dues on—under sec. 45 (*a*) I (i)...	434	465	+ 31
Rent of properties	852	504	— 348
Water: Charge for—delivered at pier head ...	3,188	3,475	+ 287
Penalties under section 84	...	...	...
Sundries	* 4,307	...	— 4,307

* Sale-proceeds of casuarina plantation and unserviceable articles; also Law charges recovered from the Trustees of Pachaiyappah's charities.

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

Items.	Actuals from 1st April to 31st Dec. 1893.	Actuals from 1st April to 31st Dec. 1894.	Plus or minus.
	RS.	RS.	RS.
III. Porterage under section 45 (*a*) I (iv) ...	44,528	45,818	+ 1,290
Beach	24,351	23,270	— 1,081
Pier	1,406	131	— 1,275
Miscellaneous	20,565	27,701	+ 7,136
IV. Interest on Government of India 4 per cent. promissory notes			
Amount refunded from construction funds in repayment of advances made from time to time from Revenue Account	92,000	31,000	— 61,000
Total ...	4,69,828	4,52,333	...
Total, including the opening balance ...	16,35,680	16,21,075	...
Charges.			
I. Interest (under section 30)	2,18,478	2,22,913	+ 4,435
II. Repayment of loan for construction of harbour under section 31	1,00,000	1,00,000	...
III. Refunds	1,704	655	— 1,049
IV. Establishment, &c.—			
1. Chairman's salary	3,600	3,600	...
2. Secretary's do.	8,500	7,200	— 1,300
3. Correspondence department	2,781	2,683	— 98
4. Accounts department	4,699	4,974	+ 275
5. Cash department	3,358	3,495	+ 137
6. Traffic department (shore staff) ...	19,084	20,806	+ 1,722
7. Preventive service	9,089	9,271	+ 182
8. Do. boatmen	876	895	+ 19
9. Tidal observatory	...	30	+ 30
10. Exchange compensation allowance ...	...	3,540	+ 3,540
11. Contribution to Government for pensions.	369	623	+ 254
12. Do. to Provident fund ...	74	60	— 14
13. Fees to Trustees	4,860	4,620	— 240
V. Contingencies—			
(*a*) Subject to regular audit—			
Postage	82	47	— 35
Receipt stamps	145	156	+ 11
Telegrams	8	27	+ 19
Furniture	210	131	— 79
Fees for audit	...	...	...
Law charges	1,223	31	— 1,192
Stationery and printing	1,396	2,950	+ 1,554
Advertisement charges	393	230	— 163
Uniform for Preventive service, &c. ...	1,318	1,442	+ 124
(*b*) Admissible without detailed audit—			
Overtime fees to establishment ...	3,448	3,364	— 84
Do. to Preventive service and boatmen	2,103	2,484	+ 381
Miscellaneous	4,798	2,581	— 2,217
VI. Petty construction and repairs—			
New works	61	8,993	+ 8,932
Repairs	9,246	8,342	— 904
Tools and plant	711	887	+ 176
VII. Porterage—			
1. Coolies, beach	30,487	28,316	— 2,171
2. Do. pier	11,118	12,273	+ 1,155
3. Do. custom-house	7,158	7,322	+ 164
4. Coasting cargo	814	1,175	+ 361
5. Boat hire	6	...	— 6
6. Engine charges	862	1,836	+ 974
7. Steam crane charges	1,554	1,798	+ 244
8. Refunds	656	3,657	+ 3,001
9. Claims for losses and damage	319	679	+ 360
10. Provident Fund deductions from coolies' wages	331	810	+ 479

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

Items.	Actuals from 1st April to 31st Dec. 1893.	Actuals from 1st April to 31st Dec. 1894.	Plus or minus.
	RS.	RS.	RS.
11. Provident Fund contributions by the Trust.	674	810	+ 136
(*a*) Contingencies subject to regular audit—			
Postage	...	...	...
Receipt stamps	11	2	— 9
Telegrams	...	...	...
Furniture	106	29	— 77
Tarpaulins	1,401	1,226	— 175
Law charges	...	...	...
Stationery and printing	390	312	— 78
Advertisement charges	...	...	...
Lighting pier and yards	1,246	1,396	+ 150
(*b*) Contingencies admissible without detailed audit—			
Miscellaneous	2,049	2,209	+ 160
VIII. Advances to Construction Account	92,000	31,000	— 61,000
Total ...	5,53,796	5,11,880	...
Closing Balance ...	10,81,884	11,09,195	...
Total ...	16,35,680	16,21,075	...

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

I.—STATEMENT of goods imported from Foreign Ports.

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Apparel and effects.	Packages ..	1,347	1,068	1,017	723	632	— 91
Alum	Barrels ..	326	686	910	900	648	— 252
Asphalte, tar and pitch	Casks ..	4,439	2,329	2,638	1,949	1,738	— 211
Acids	Cases ..	1,854	1,408	1,560	1,447	1,578	+ 131
Arms and guns ..	,, ..	442	221	250	214	65	— 149
Arrack	Casks ..	884	833	1,031	804	892	+ 88
Blankets ..	Bales ..	119	168	28	24	45	+ 21
Beef and pork ..	Cases ..	36	..	..	..	..	..
Bricks	100 ..	1,021	551	1,550	1,550	858	— 692
Beer	Cases ..	6,123	8,710	7,013	5,158	3,715	— 1,443
	Barrels ..	1,140	1,707	1,401	1,061	1,501	+ 440
	Hogsheads ..	6,808	8,210	4,310	3,957	4,561	+ 604
Boiler	No. ..	51	32	48	43	17	— 26
Corks	Bundles ..	88	72	50	19	44	+ 25
Canvas	Bales ..	121	193	615	472	66	— 406
Candles	Cases ..	16,637	31,017	27,463	20,849	20,066	— 783
Colours	,, ..	3,838	3,286	2,998	2,430	2,271	— 159
Confectionery, provisions and oilman stores ..	,, ..	23,395	22,129	20,829	16,531	12,292	— 4,239
Crockery and glassware.	Crates and casks ..	4,538	3,817	5,300	4,299	2,015	— 2,284
Chalk ..	Barrels ..	370	140	134	25	50	+ 25
	Tons ..	..	..	..	..	30	+ 30
Cement	Casks ..	14,522	7,369	8,904	6,968	5,559	— 1,409
Cast-iron pipes and tubes	Tons ..	335	1,436	989	826	1,182	+ 356
Camphor ..	Tubs ..	4,739	4,349	5,765	4,066	3,854	— 212
Coal	Tons ..	33,686	49,508	58,179	45,372	58,705	+ 13,333
Coke	,, ..	578	778	1,018	640	569	— 71
Fuel	,, ..	..	2,953	..	..	..	..
Crackers	Cases ..	470	840	327	325	975	+ 650
Copper-plates and tiles	No. ..	4,802	521	7,260	6,541	2,589	— 3,952
Corrugated iron ..	Packages ..	805	2,512	2,688	1,299	1,369	+ 70
Dynamite ..	Cases ..	13,040	8,035	10,598	6,928	5,403	— 1,525
Earthenware ..	Crates ..	2,318	1,886	2,168	1,280	854	— 426
Fire clay ..	Casks ..	2,768	272	312	60	82	+ 22
Flour	Bags and barrels ..	1,317	821	1,251	777	1,084	+ 307
Flannel	Bales ..	54	30	64	53	8	— 45
Gunpowder ..	Packages ..	6,667	5,987	5,883	3,205	3,168	— 37

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

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Harmonium ..	Cases ..	30	27	24	24	11	— 13
Hardware ..	,, and casks ..	8,234	6,783	8,189	6,385	8,333	+ 1,948
Hops	Packages ..	129	64	297	53	202	+ 149
Iron	Tons ..	13,737	17,929	18,627	14,424	5,839	— 8,585
Iron safes ..	No. ..	296	150	167	71	41	— 30
Kerosine-oil ..	Cases ..	397,862	251,320	342,671	183,016	166,395	— 16,621
	Tons ..	..	3,361	5,455	3,066	6,299	+ 3,233
Malt	Bags ..	445	407	22	13	56	+ 43
Millinery and haberdashery ..	Cases ..	1,609	1,566	1,370	970	1,496	+ 526
Matches ..	,, ..	10,665	9,125	8,927	6,553	6,304	— 249
Machinery ..	Tons ..	3,099	3,241	4,817	3,177	2,671	— 506
Nails	Kegs ..	13,744	10,547	14,022	11,630	7,478	— 4,152
Oil and turpentine.	Drums ..	7,225	15,500	4,581	3,117	2,976	— 141
Piece-goods.	Cases and bales.	85,079	51,551	57,676	42,788	50,876	+ 8,088
	Piece-goods		18,664	24,071	16,903	18,513	+ 1,610
	twist ..		5,518	6,038	4,693	3,094	— 1,599
Paper	Bales ..	6,546	99	112	87	37	— 50
Piano	No. ..	153	727	346	245	144	— 101
Printing types ..	Cases ..	492	1,098	2,612	2,088	288	— 1,800
Pig lead ..	No. ..	2,198	10,257	5,770	5,153	5,269	+ 116
Paint	Kegs ..	7,758	5,669	2,362	1,693	1,677	— 16
Rattan	Bundles ..	3,813	970	2,172	1,742	669	— 1,073
Soaps	Cases ..	1,650	329	153	124	315	+ 191
Salt	,, ..	383	3,343	794	760	238	— 522
Steel	,, and casks ..	864	10,401	10,768	8,422	6,183	— 2,239
Steel bundles and bars	No. ..	11,261	1,597	4,930	4,874	1,855	— 3,019
Steel hoop ..	Bundles ..	5,567	499	29	2	39	+ 37
Shovels ..	,, ..	275	1,768	1,570	1,237	1,545	+ 308
Soda water bottles ..	Crates ..	1,395	435	1,128	225	10	— 215
Sulphur	Casks ..	752	56	248	216	108	— 108
Shot	Kegs ..	177	33,606	56,235	42,994	40,647	— 2,347
Sundries ..	Packages ..	48,468	888	768	535	441	— 94
Specie	No. ..	1,229	1,196	4,198	2,666	81	— 2,585
Sugar	Bags ..	2,152	848	1,333	971	1,905	+ 934
Stationery ..	Cases ..	1,242	8,786	22,921	9,264	3,128	— 6,136
Spelter	Cakes ..	836	48	79	64	10	— 54
Saw	Cases ..	70	455	458	414	138	— 276
Twine and rope ..	Bales and coils ..	438	4,649	6,669	4,834	3,203	— 1,631
Tin plates ..	Boxes ..	5,608	..	..	..	1,474	+ 1,474
Tin slabs ..	No. ..	..	..	..	..	5,231	+ 5,231
Tramway material ..	Packages ..	..	..	..	..	87	+ 87
	Tons ..	..	..	..	25,981	22,618	— 3,363
Wine and spirits.	Cases ..	37,877	44,739	36,048	351	541	+ 190
	Casks ..	863	658	514	876	100	— 776
	Puncheons ..	369	733	1,058	9,669	5,178	— 4,491
Window glasses ..	Cases ..	5,972	12,000	10,425	554	631	+ 87
White and red lead.	Kegs ..	681	951	737	2,314	2,270	— 44
Yellow metal ..	Cases ..	3,076	3,361	2,784	1,013	1,119	+ 106
Zinc sheets ..	Packages ..	2,749	1,690	1,761	651	679	+ 28
Horses	No. ..	816	959	835	141	109	— 32
Ponies	,, ..	70	112	131	6	7	+ 1
Cows	,, ..	59	15	7	..	45	+ 45
Dogs	,, ..	13	14	3	6	4	— 2
Elephants ..	,, ..	10	7	6	9	7	— 2
Carriages ..	..	..	8	9			

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

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Stores ..	Packages ..	82,105	72,434	47,040	46,648	7,356	— 39,292
	Tons ..	3,605	499	156	156	901	+ 745
Fuel	,, ..	..	..	..	..	..	..
Coke	,, ..	1,437	544	716	628	703	+ 75
Coal	,, ..	27	300	237	..	2,948	+ 2,948
Timber ..	,, ..	2,477	2,083	1,448	..	853	+ 853
Fire brick ..	100 ..	115	330	..	..	75	+ 75
Boiler	No. ..	..	..	..	..	4	+ 4

III.—STATEMENT of stores imported by the South Indian Railway Company.

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for months 9 ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Stores ..	Packages ..	68,282	22,171	28,640	10,444	13,349	+ 2,905
	Tons ..	..	..	992	22	..	— 22
Coke	,, ..	14	..	..	..	..	..
Coal	,, ..	..	..	..	..	..	..
Timber	,, ..	..	..	..	..	..	..
Boiler	No. ..	4	..	..	..	1	— 9
Fire bricks ..	100 ..	..	12	10	10	160	+ 160

IV.—STATEMENT of goods imported from Coast Ports.

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Apparel and effects.	Packages ..	451	343	527	266	411	+ 145
Alum	Barrels ..	10	187	7	7	144	+ 137
Acids	Cases ..	89	125	269	249	276	+ 27
Animals	No. ..	..	10	..	..	9	+ 9
Arms and guns ..	Cases ..	45	12	13	6	10	+ 4
Boilers	No. ..	2	..	..	..	..	..
Bricks and tiles ..	100 ..	1,396	57	837	587	603	+ 16
Coffee	Bags ..	379	595	575	513	434	— 79
Candles	Cases ..	..	..	11	7	1	— 6
Colours	,, ..	1,225	1,531	1,591	1,430	1,012	— 418
Crockery and glass-ware	,, ..	322	466	426	313	921	+ 608
Coal	Tons ..	13,249	13,792	22,152	15,475	15,905	+ 430
Coke	,, ..	..	..	..	..	..	..
Carpets	Bales ..	77	94	99	73	76	+ 3
Camphor and benjamin	Tubs ..	682	1,306	432	383	801	+ 418
Copra	Bags ..	32	..	122	..	68	+ 68
Crackers ..	Cases ..	..	..	..	..	2	+ 2
Copper	,, ..	1,667	936	557	558	10	— 548
Do. ..	Tiles and ingots ..	96	421	2,180	2,180	3,585	+ 1,405
Cutch and lac ..	Packages ..	4,415	3,191	3,554	2,854	3,867	+ 1,013
Cast iron tubs pipes.	Tons ..	..	..	..	..	27	+ 27
Cocoanuts ..	No. ..	3	415	2,023	2,023	..	— 2,023
Earthenware ..	Crates ..	392	2,941	407	390	202	— 188
Do. ..	Pipes ..	2,626	6,315	950	950	156	— 794
Firewood ..	Tons ..	..	..	..	..	..	..
Flour	Bags and barrels ..	7,248	11,682	12,270	8,744	13,498	+ 4,754
Gunnies ..	Bales ..	7,930	9,661	9,755	7,359	7,994	+ 635
Gram and peas, &c.	Bags ..	271,682	380,145	395,249	330,103	222,945	— 107,158
Garlic	,, ..	2,945	1,215	6,007	5,492	7,159	+ 1,667
Hardware ..	Cases ..	641	1,197	1,507	1,315	1,889	+ 574
Horns	Bundles ..	880	980	511	325	725	+ 400
Hides	Bales ..	6,127	9,539	6,013	4,031	4,980	+ 949
Iron	Tons ..	231	293	155	106	156	+ 50
Iron-safes ..	No. ..	31	38	34	16	13	— 3
Kerosine-oil ..	Cases ..	..	..	500	500	..	— 500
Leaves	Bundles ..	6,508	3,742	5,113	4,635	2,491	— 2,144
Liquor	Cases ..	..	..	2,193	1,545	1,409	— 136
Machinery ..	Tons ..	158	79	49	31	195	+ 164
Millinery and haberdashery ..	Cases ..	208	245	144	93	259	+ 166
Oil and turpentine.	Drums ..	8,340	6,369	5,941	4,143	4,573	+ 430
Paddy	Bags ..	..	75,980	23,737	14,107	5,163	— 8,944
Piece-goods ..	Cases and bales ..	3,802	4,756	3,499	2,680	3,805	+ 1,125
Paper	Bales ..	3,128	4,898	5,420	4,973	5,708	+ 735
Paint	Kegs ..	224	693	247	184	243	+ 59
Piano	No. ..	15	12	5	4	6	+ 2
Rice	Bags ..	1,147,048	205,176	110,181	82,404	80,721	— 1,683
Rose-water ..	Cases ..	1,434	1,815	1,357	1,001	1,383	+ 382
Seeds	Bags ..	30,406	25,747	13,916	10,971	10,514	— 457
Skins	Bales ..	6,199	50,502	6,807	5,084	5,446	+ 362
Silk	,, ..	1,051	699	290	251	423	+ 172
Sandalwood ..	Bundles ..	143	121	42	34	218	+ 184

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

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Sugar	Bags ..	1,381	866	1,333	923	1,897	+ 974
Specie	No. ..	202	190	193	47	25	— 22
Sundries ..	Packages ..	47,533	47,137	48,614	30,285	39,574	+ 9,289
Soap	Cases ..	445	40	147	46	675	+ 629
Sulphur ..	Casks ..	471	544	506	320	295	— 25
Spice	Packages ..	359	740	640	587	765	+ 178
Station	,, ..	..	..	..	..	124	+ 124
Sodawater bottles ..	Crates ..	..	..	241	232	1,446	+ 1,214
Twine and rope ..	Bales and coils ..	839	775	1,063	967	1,166	+ 199
Tin plates	Boxes ..	1,807	912	858	651	977	+ 326
	Slabs ..	..	..	..	..	61	+ 61
Twist	Bales ..	1,126	1,147	1,206	965	812	— 153
Turmeric ..	Bags ..	7,224	4,977	5,433	3,669	4,517	+ 848
Timber	Tons ..	15,137	10,595	15,264	9,691	9,434	— 257
Tea	Cases ..	1,321	3,411	37	37	156	+ 119
Tamarind ..	Bundles ..	..	..	140	88	86	— 2
Yellow metal ..	Cases ..	6	542	1,078	1,078	279	— 799
Horses	No. ..	1	15	8	..	..	8
Two-wheeled carriages ..	,, ..	..	4	5	8	5	+ 2
Four-wheeled carriages ..	,, ..	..	3	19	3	2	— 3
Tramway materials.	Tons ..	..	..	..	5	13	+ 13

V.—STATEMENT of goods exported to Foreign Ports.

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Bone meal ..	.. ..	..	..	..	..	5,057	+ 5,057
	Cases ..	18	2	13	12	..	— 12
Beer and ale ..	Casks ..	60	7	..	..	..	..
	Hogsheads ..	3	..	..	..	..	..
Cinchona bark ..	Bales ..	471	529	411	411	121	— 290
Chillies	Bags and bundles ..	2,760	9	816	446	669	+ 223
Cigars	Cases ..	1,249	556	643	369	452	+ 83
Coffee	Bags ..	23,764	34,613	17,737	3,618	10,070	+ 6,452
Cotton	Bales ..	48,202	26,140	56,768	52,552	38,904	— 13,648
Do. twist ..	,, ..	4,229	5,266	1,946	1,211	1,557	+ 346
Coriander and omum seeds ..	Bags ..	8,218	1,814	7,377	5,076	10,100	+ 5,024
Carpets	Bales ..	418	288	391	215	145	— 70
Coal	Tons ..	905	313	599	305	152	— 153
Deer horns ..	Packages ..	1,574	1,549	767	567	1,124	+ 557
Explosive ..	Cases ..	21	1	..	..	2	+ 2
Firewood ..	Tons ..	..	..	..	..	..	..
Four-wheeled carriages	No. ..	8	2	3	3	1	— 2
Ground-nuts ..	Bags ..	93,132	26,209	138,211	130,432	106,793	— 23,639
Gram, peas, &c. ..	,, ..	519	161	1,662	1,639	430	— 1,209
Horns, cow and buffalo ..	Tons ..	62	29	1,026	23	70	+ 47
Hides, tanned ..	Bales and bundles ..	21,848	21,812	11,149	7,566	13,019	+ 5,453
Hardware ..	Cases and casks ..	..	..	..	..	273	+ 273
Indigo	Cases and chests ..	14,622	29,933	25,008	15,065	14,515	— 550
	Tons ..	2	11	17	13	3	— 10
Iron	Bags ..	28,985	56,672	52,668	52,668	17,809	— 34,859
Jaggery	,, ..	235	91	563	563	234	— 329
Myrabolams ..	Packages ..	37,808	28,547	36,531	17,920	11,798	— 6,122
Miscellaneous ..	Bags and baskets ..	21,964	5,617	17,517	13,714	5,531	— 8,183
Onions	Casks ..	434	56	208	202	443	+ 241
Oil	Packages ..	..	..	..	..	3,285	+ 3,285
Provisions ..	Bales and cases ..	6,205	4,857	7,305	5,096	6,001	+ 905

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

—	Packages.	1891–92.	1892–93.	1893–94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Potatoes ..	Bags and baskets ..	..	..	..	..	1,346	+ 378
Poonac	Bags ..	2,437	282	1,716	968	36,513	+ 11,147
Piano	No. ..	33,880	16,127	31,311	25,366	..	..
Paddy	Bags ..	41	10	15	15	3	— 12
Rice	Bags ..	..	5	22	22	..	— 22
Redwood ..	,, ..	1,138	3,229	16,915	12,469	38,944	+ 26,475
Salt	Tons ..	699	1,654	733	431	699	+ 268
Seeds, gingelly and castor	,, ..	..	..	..	..	7	+ 7
Skins, sheep and goat, tanned ..	Bags ..	1,313	12,654	14,777	9,724	75,330	+ 65,606
Sandalwood ..	Bales ..	32,194	34,063	31,535	19,966	29,008	+ 9,042
Spirits and wine.	Bundles ..	1,534	330	699	698	250	— 448
	Cases ..	332	41	67	19	16	— 3
	Casks ..	977	65	40	39	9	— 30
	Puncheons ..	..	..	..	..	..	..
Sugar	Bags ..	..	..	1,197	854	1,410	+ 556
Specie	Boxes ..	599	161	29	27	119	+ 92
Tamarind ..	Bundles ..	94	48	3,076	1,095	3,445	+ 2,350
Turmeric ..	Bags ..	6,445	5,331	1,562	1,137	3,135	+ 1,998
Tea	Cases ..	2,159	941	1,649	1,409	1,613	+ 204
Two-wheeled carriages ..	No. ..	2,265	1,769	3	2	3	+ 1
Wool	Bales ..	1	..	1,532	954	1,430	+ 476
Yellow metal ..	Tons ..	1,021	1,470	417	287	7	— 280
Horses	..	107	100	..	..	24	+ 24
Ponies	..	..	..	..	..	9	+ 9
Elephant ..	..	..	..	..	..	2	+ 2
Lion	..	..	..	..	..	1	+ 1
Tiger	..	..	..	..	..	1	+ 1
Leopards ..	..	..	..	..	..	6	+ 6
Bear	..	..	..	..	..	1	+ 1
Sheep	..	..	..	..	..	79	+ 79

VI.—Statement of goods exported to Coast Ports.

—	Packages.	1891–92.	1892–93.	1893–94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Beer and ale ..	Cases ..	352	294	305	179	293	+ 114
	Casks ..	159	94	91	30	115	+ 85
	Hogsheads ..	7	41	161	137	86	— 51
Boiler	No.	..	..	1	1	..	— 1
Cinchona bark ..	Bales ..	395	..	84	80	..	..
Chillies ..	Bags and bundles ..	2,064	2,907	9,207	7,788	2,160	— 5,628
Cigars ..	Cases ..	1,418	1,136	789	528	484	— 44
Coffee ..	Bags ..	507	1,449	541	358	404	+ 46
Cotton ..	Bales ..	5,721	4,245	7,080	6,844	4,912	— 1,932
Do. twist ..	,, ..	4,698	6,138	3,220	2,187	2,343	+ 156
Coriander and omum seeds	Bags ..	2,970	7,002	6,894	4,283	2,037	— 2,246
Cement	Casks ..	..	8,908	132	54	45	— 9
Carpets	Bales ..	68	51	41	32	22	— 10
Coal	Tons ..	275	450	157	107	340	+ 233
Deer horns ..	Packages ..	108	151	52	52	..	— 52
Explosive ..	Cases ..	2,668	1,331	1,067	32	33	+ 1
Eggs	Pots ..	1,165	1,125	1,198	750	731	— 19
Firewood ..	Tons ..	2	..	..	..	..	..
Four-wheeled carriage ..	No.	21	31	27	20	16	— 4
Ground-nuts ..	Bags ..	27,790	17,839	16,116	9,110	46,168	+ 37,058
Gram, peas, &c. ..	,, ..	521	1,226	233	206	304	+ 98
Horns, cow and buffalo ..	Tons ..	310	307	166	94	680	+ 586
Hides	Bales and bundles ..	379	526	535	412	190	— 222
Hardware ..	Cases and casks ..	..	..	..	..	501	+ 501

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

—	Packages.	1891–92.	1892–93.	1893–94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Indigo	Cases and chests ..	165	816	1,162	910	155	— 755
Iron	Tons ..	2,244	2,611	755	430	371	— 59
Old iron ..	,, ..	..	..	..	..	65	+ 65
Jaggery	Bags ..	258	1,448	336	195	363	+ 168
Kerosine oil ..	Cases ..	10,327	659	1,117	592	5,754	+ 5,162
Myrabolams ..	Bags ..	1,054	291	1,112	1,097	42	— 1,055
Miscellaneous ..	Packages ..	50,510	69,584	61,706	45,054	14,111	— 30,943
Onions ..	Bags and baskets ..	22,442	53,406	47,062	42,644	69,322	+ 26,678
Oil	Casks ..	807	637	346	226	575	+ 349
Piece-goods ..	Bales & cases.	5,615	8,651	6,368	4,471	6,510	+ 2,039
Potatoes ..	Bags and baskets ..	23,637	24,388	30,592	30,088	19,811	— 10,277
Poonac	Bags ..	4,770	22,181	9,853	8,438	365	— 8,073
Piano	No. ..	23	16	17	12	8	— 4
Paddy	Bags ..	..	8,806	8,400	8,400	4,123	— 4,277
Provisions ..	Packages ..	..	..	..	..	1,409	+ 1,409
Rice	Bags ..	5,448	31,893	11,083	9,020	6,135	— 2,885
Redwood ..	Tons ..	119	693	4	4	43	+ 39
Seeds, gingelly and castor	Bags ..	16,803	2,787	36,799	17,369	59,408	+ 42,039
Skins, sheep and goat, tanned ..	Bales ..	721	1,046	871	676	1,476	+ 800
Sandalwood ..	Bundles ..	153	256	2,786	2,765	317	— 2,448
	Cases ..	2,982	3,783	3,045	2,338	2,034	— 304
Spirits and wines.	Casks ..	727	716	992	905	307	— 598
	Puncheons ..	13	189	214	210	..	— 210
Sugar	Bags ..	773	1,419	473	450	575	+ 125
Specie	Boxes ..	236	510	47	36	56	+ 20
Salt	Bags ..	..	..	..	..	3,997	+ 3,997
Tamarind ..	Bundles ..	3,624	8,253	5,090	3,006	2,061	— 945
Turmeric ..	Bags ..	19,258	17,883	38,147	28,426	42,898	+ 14,472
Tea	Cases ..	341	62	50	36	74	+ 38
Two-wheeled carriage	No. ..	15	16	12	8	13	+ 5
Wool	Bales ..	769	603	463	340	160	— 180
Yellow metal ..	Tons ..	53	67	256	256	28	— 228

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

Department.	Description.	Class.	1891–92.	1892–93.	1893–94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Accountant-General.	Specie, silver	Boxes.	403	582	533	258	277	+ 19
	,, copper	,,	5,100	710	780	560	180	— 380
	Silver and copper ..	,,	..	..	..	..	..	..
	Notes ..	,,	32	19	30	1	..	— 1
	Packages ..	No.	27	1	..	..	..	..
Public Works Department.	Boilers ..	,,	2	..	..	..	..	..
	Coal ..	Tons.	50	20	..	..	..	..
	Coke ..	,,	..	..	..	..	64	+ 64
	Iron ..	,,	.. 271	.. 9	19	..	..	..
	Stores .	Pkgs.	15,148	6,494	10,812	10,278	1,202	— 9,076
	Coal ..	Tons.	..	..	1,450	..	145	+ 145
Ordnance ..	Ammunition.	Boxes.	2,148	..	109	..	8,756	+ 8,756
	Stores ..	Pkgs.	13,017	28,566	21,057	19,925	14,284	— 5,640
	Cement ..	Casks.	1,869	..	..	..	5,600	+ 5,600
Madras Harbour Works.	Stores ..	Pkgs.	3,869	..	..	..	40	+ 40
	Coal ..	Tons.	..	..	..	..	..	..
	Packages ..	No.	1,983	2,324	2,176	1,537	825	— 712
Clothing ..			122	167	196	139	127	— 12
Police	,, ..	,,	272	291	109	72	73	+ 2
Salt Revenue ..	,, ..	,,	1,119	858	742	545	2,322	+ 1,777
Post office ..	,, ..	,,	1,779	1,007	1,920	1,071	229	— 842
Medical	,, ..	,,	34,768	24,126	9,129	7,928	8,211	+ 283
Telegraph ..	,, ..	,,	732	1,197	1,156	874	709	— 165
Stationery ..	,, ..	,,	1,961	1,122	1,861	1,711	1,410	— 301
Stamps	,, ..	,,	8,588	7,420	2,562	2,118	2,987	+ 869
Commissariat ..	,, ..	,,	161	149	97	90	242	+ 152
Gazette Press ..	,, ..	,,	729	880	806	473	214	— 259
Marine	,, ..	,,	297	208	25	18	33	+ 15
Revenue Survey ..	,, ..	,,	380	320	140	140	5	— 135
Agriculture ..	,, ..	,,						

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

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Government Central Museum ..	Packages ..	No.	15	10	9	8	5	— 3
Under Secretary to Government ..	,, ..	,,	235	504	85	68	53	— 15
Superintendent of Prisons ..	,, ..	,,	1	17	7	7	14	+ 7
Revenue Board ..	,, ..	,,	1,196	10	3	8	9	+ 1
Forests ..	,, ..	,,	28	15	2	2	1	— 1
Presidency College.	,, ..	,,	3	1	1	1	2	+ 1
School of Arts ..	,, ..	,,	9	100	..	..	..	..
Inspector of Cattle Diseases ..	,, ..	,,	31	31	36	10	33	+ 20
Chemical Examiner.	,, ..	,,	73	31	41	16	..	— 16
Medical College ..	,, ..	,,	9	15	12	6	..	— 6
Deputy Collectors ..	,, ..	,,	23	13	20	17	4	— 13
Astronomer ..	,, ..	,,	2	8	4	4	10	+ 6
Presidency Paymaster ..	,, ..	,,	7	4	1	..	..	..
Registration ..	,, ..	,,	9	139	4	4	1	— 3
Director of Public Instruction ..	,, ..	,,	..	600	214	211	1	— 210
Superintendent, Remount Depôt, Hosúr ..	,, ..	,,	..	2	9	8	3	— 5
Resident, Mysore, in Bangalore ..	,, ..	,,	..	3	14	14	..	— 14
Quarter Master General ..	,, ..	,,	..	1	4	2	2	..
Registrar of High Court ..	,, ..	,,	..	..	40	..	..	..
Curator, Govt. Garden, Ooty ..	,, ..	,,	..	..	44	20	15	— 5
Civil Engineering College ..	,, ..	,,	..	..	..	..	1	+ 1
Secretary to the Chief Commissioner of Coorg, Bangalore ..	,, ..	,,	..	..	..	..	..	..
Revenue Settl. ..	,, ..	,,	..	..	..	..	581	+ 581
Executive Engineer, Military Works ..	,, ..	,,	..	..	..	..	..	..
Secretary for Berar, Hyderabad ..	,, ..	,,	..	..	..	..	4	+ 4
Collector ..	,, ..	,,	..	7	..	..	..	..
Officer Commanding No. 4 Company, Eastern Division, Royal Artillery, Fort St. George ..	,, ..	,,	..	..	..	..	1	+ 1
Officer Commanding No. 21, Madras Pioneers, Bangalore.	,, ..	,,	..	..	..	..	1	+ 1
Controller, Military Accounts ..	,, ..	,,	..	..	..	..	2	+ 2
Agent for Govt. Consignments ..	,, ..	,,	..	..	..	..	474	+ 474
Government Botanical Gardens ..	,, ..	,,	..	..	..	..	279	+ 279
Commissioner of Paper Currency ..	,, ..	,,	..	..	..	..	7	+ 7
Officer Commanding 9th Company, Southern Division, Royal Artillery, Fort St. George ..	,, ..	,,	..	..	..	..	1	+ 1
Officer Commanding ½ Battalion, 1st Cheshire Regiment, Fort.	,, ..	,,	..	..	..	..	5	+ 5
Officer in charge, Pensioners, Madras ..	,, ..	,,	..	..	..	..	1	+ 1
Officer Commanding "Queen's Own" Sappers and Miners, Bangalore ..	,, ..	,,	..	..	..	..	3	+ 3
Officer Commanding Southern Division, Royal Artillery, Madras.	,, ..	,,	..	..	..	..	1	+ 1
Sanitary Commissioner ..	,, ..	,,	..	..	..	1	..	— 1
Pay Examiner ..	,, ..	,,	..	..	..	..	..	+ 1

VIII.—STATEMENT of stores, &c., exported by Government.

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or decrease as compared with corresponding period of last year.
Accountant-General ..	Specie, silver.	Boxes.	411	45	95	95	17	— 78
	,, copper.	,,	965	200	163	103	75	— 28
	,, notes.	,,	6	13	8	6	4	— 2
	,, packages.	No.	4	1	1	1	1	..
Bank of Madras ..	,, silver.	Boxes.	34	..	..	..	..	..
	,, copper.	,,	..	62	84	84	45	— 39
Ordnance	Packages and pieces.	No.	8,595	5,831	9,257	4,988	6,760	+ 1,772
Public Works Department.	,,	,,	1,784	488	3,203	466	888	+ 422
Clothing	,,	,,	1,327	1,096	998	878	734	— 144
Police	,,	,,	889	974	955	769	886	+ 117
Salt Revenue	,,	,,	591	785	724	528	826	+ 298
Medical	,,	,,	1,377	1,610	2,166	1,381	641	— 740
Telegraph	,,	,,	8,845	4,330	4,945	2,671	2,639	— 32
Stationery	,,	,,	693	780	623	356	350	— 6
Stamps	,,	,,	220	208	236	159	161	+ 2
Commissariat	,,	,,	7,971	6,205	5,301	4,376	4,824	+ 448
Gazette Press	,,	,,	526	366	478	323	449	+ 126
Marine	,,	,,	390	37	37	30	85	+ 55
Revenue Board ..	,,	,,	77	84	87	86	67	— 19
Do. Settlement ..	,,	,,	51	452	53	40	22	— 18
Do. Survey ..	,,	,,	75	196	223	206	120	— 86
Superintendent of Prisons.	,,	,,	69	43	103	88	58	— 30
Registration	,,	,,	66	33	17	1	50	+ 49
Conservator of Forests ..	,,	,,	34	4	5	1	4	+ 3
Quarter Master General ..	,,	,,	..	..	..	..	..	..
Government Central Museum	,,	,,	10	22	13	13	..	— 13
Deputy Collectors ..	,,	,,	2	9	..	..	..	..
Government Astronomer.	,,	,,	..	18	13	9	11	+ 2
Agriculture	,,	,,	15	8	2	2	..	— 2
General Hospital ..	,,	,,	..	..	..	..	..	..
State Railways ..	,,	,,	100	..	..	..	37	+ 37
Government Botanist ..	,,	,,	..	..	..	..	..	..
Inspector of Cattle Diseases	,,	,,	3	1	..	..	..	..
Chemical Examiner ..	,,	,,	..	1	..	..	..	..
Director of Public Instruction	,,	,,	10	6	13	13	1	+ 12
Registrar of University ..	,,	,,	13	10	5	5	5	..
Collectors	,,	,,	10	..	6	6	..	— 6
Curator of Government Garden, Ootacamund ..	,,	,,	11	..	12	9	..	— 9
Engineer, Harbour Trust Board	,,	,,	..	..	2	..	..	..
Crown Officer, High Court.	,,	,,	14	18	5	5	..	— 5
School of Arts	,,	,,	..	..	..	..	..	..
Secretary to Government, Public Department ..	,,	,,	2	..	..	..	..	..
Registrar-General of Births, Deaths and Marriages	,,	,,	..	..	..	..	..	..
Inam Commissioner ..	,,	,,	1	..	..	..	..	..
Consulting Engineer to Government Railways ..	,,	,,	20	..	..	..	..	..
Civil Engineering College.	,,	,,	..	1	..	..	..	..
Superintendent, Census Operations	,,	,,	..	4	1	1	..	— 1
Post office	,,	,,	..	2	2	2	..	— 2
Sanitary Commissioner ..	,,	,,	..	2	2	2	..	— 2
Registrar of High Court ..	,,	,,	..	..	..	..	22	+ 22
Superintendent, District Jail, Bellary ..	,,	,,	..	..	..	..	1	+ 1
Assistant Engineer, Public Works Department, Government Brickfield.	,,	,,	..	..	..	..	52	+ 52
Officer Commanding 6th Regiment, Madras Infantry, Madras	,,	,,	..	..	..	..	17	+ 17

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

To the Secretary, Harbour Trust Board, Madras.

4

MADRAS HARBOUR WORKS.

REPORT of progress on the Madras Harbour Works for the quarter ending 31st December 1894.

Accompanying this report are the following plans and statements:—

No. 38 (*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 outside the harbour are those of the last complete marine survey of 1889, and the contours inside the harbour are from the latest survey of 1893.

2. The positions of the high water mark of 31st December 1893 and those of the previous twelve months, both to the north of the revetment and the south of the harbour, are shown in comparison.

No. 38 (*b*).—A revised plan showing in detail the advance made during the quarter at the pier heads as now being constructed and the positions of the caissons for completing both the piers of the harbour with an eastern entrance of 520 feet.

No. 39 (*c*).—A statement comparing the expenditure on different sub-heads of work up to end of the quarter with the provisions of the sanctioned estimate.

No. 39 (*d*).—A statement showing work done under different sub-heads and particulars of cement received and issued.

3. The various sub-heads of work, &c., throughout the harbour works are reported as follows.

4. *North Pier Head.*—At the north pier head all work to be done during the quarter, October, November and December 1894, was above water level and due to the north-east monsoon setting in early in October; the concrete work in the capping and building of the lighthouse had to be proceeded with continuously at intervals when the weather appeared settled for a few days.

5. Fortunately there was no storm during the quarter, but the spray from the wave-breakers and rain stopped all work for days together.

6. The north pier caisson was completed to the full height of 53 feet by the 7th October, and in five days from the 9th October the pier head lighthouse and tidal observatory was built of concrete *en masse*.

7. To the close of the quarter, or in 24 working days, 257 lineal feet of capping × 38 feet wide × an average depth of 6½ feet was completed, bringing up the finished height of the masonry wall to 13 feet above DeHavilland's mean sea level, completing the north pier head to the sanctioned design.

8. Early in December the self-registering tidal instruments were erected in the lower chamber in the lighthouse, and the Madras tidal observations were recommenced under most favorable conditions, which has met the approval of Colonel Hill, R.E., in charge of the Tidal and Levelling Operations of India.

9. *South Pier Head.*—Early in October the state of the sea around the south pier head was just quiet enough to allow the divers to set in position the two last temporary courses required for compressing the caisson foundations, and this work was completed by the 13th October, or in eight working days forty superstructure blocks were set, advancing the south pier head by a length of 10′ 8½″.

10. The crane was then withdrawn to shore for the monsoon.

11. By the 17th December the sea was calm and the water clearer; the crane was therefore run out to the end of the pier to make an attempt at the removal of the old blocks overthrown from the old pier head, but the water was so thick below and with so strong an under-current that a diver cannot stand.

12. Dredging was therefore resorted to, to the close of the quarter, to undermine and overthrow the old blocks into deep water, where the divers have since been able to sling and raise over thirty of these blocks, which were left in a heaped up mass by the storm of 1881 and lying in the way of the caisson.

13. It is due to the general rough sea and these overthrown old blocks being left in such confusion by the storm which wrecked the harbour that the work of reconstruction has been so costly, difficult, and slow. Every block has had to be slung by two divers, securing it by a 1½″ chain, 35 feet in length, which is as much as the men can handle even in quiet water, and most of these blocks were found half-buried in the rubble, all of which had to be removed by hand as no dredger could approach the blocks near enough or into the interstices between the blocks to remove it.

14. Where the blocks were heaped up, the divers had to crawl through these interstices, in water thicker and darker than the densest fog, to sling each block, and this could only be done when the sea was calm and without any motion below, and therefore a new work would have

cost considerably less and have been completed in much less time; but I am pleased to be able to report at this date that the last old block has been recovered and this difficulty and delay overcome.

15. Progress at the close of the quarter at the south pier head was as advanced as it was at the north arm in the corresponding quarter last year, so that the caisson will be set early in March 1895 or earlier if sufficient rubble base can be dredged up before then.

16. I should mention there will be greater difficulties to overcome in the setting of the south pier caisson than I met with at the north pier, due to more rubble base having originally been deposited than at the north pier head, all of which has to be excavated 7 feet deeper and raised in boxes charged by divers, as the mound of rubble to be removed is out of reach of the crane till the caisson has been set.

17. The caisson must, therefore, draw less water on being set; consequently more temporary ballast in the form of blocks will be required to hold it down while the concrete filling is being put in and there will be the additional risk of movement by wave motion while light, due to there being at this south arm no old pier head left to afford the shelter which was rendered to the north pier caisson while in this condition by the standing portion of the old damaged north pier head.

18. The caisson for the south pier head was erected to a height of 23 feet and made watertight inside the small basin built for the purpose, which was pumped dry by No. 7½ pulsometer provided for the purpose.

19. The arms protecting this small dock from the surf during the building of the caisson were temporarily extended until a sufficient depth of water was obtained, and on Sunday, the 6th January 1895, the caisson was successfully launched through the surf and towed to the north arm where it is being charged with concrete and built to the full height of 53 feet and will be set in position early in March, or as soon as the work at the south pier head can be made ready to receive it.

20. *Protective Works North of the Harbour.*—No further settlement along the line of revetment above water level could be detected during the quarter.

21. The bay at the end of the revetment increased slightly to the 10th October after which date, with the setting in of the north-east monsoon, further scouring ceased and the high water mark advanced by 200 feet to the close of the quarter.

22. *Foreshore South of the Harbour.*—The high water mark to the south of the harbour has receded, or a scour of 150 to 160 feet has taken place during the quarter, September to December 1894, which has left the foreshore at an unnatural steep slope which from the first rough sea in the monsoon must level down to its natural slope, when the high water mark will return shorewards or nearer to the line of the high water recorded in December 1893.

23. *Sea Bottom within the Harbour.*—The high water line within the harbour has considerably receded along the southern half of the foreshore during the quarter and was inshore of the high water mark of September 1893, showing a maximum decrease of foreshore during the quarter of 90 feet near the south pier.

24. Throughout the length of the foreshore along the north half of the harbour the high water line has advanced 20 feet, which accretion is about equivalent to the erosion to the southern half of the harbour, showing the usual shifting foreshore, due to the change of the monsoon, but no permanent advance.

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

MADRAS HARBOUR WORKS.

STATEMENT showing progress during quarter ending 31st December 1894 as shown on accompanying tracings Nos. 38 (*a*) and 38 (*b*).

No. of item.	Particulars and quantity of work, &c.	Sub-heads of work.	North Pier. Rubble base.	North Pier. Pier head.	North Pier. Wave-breaker.	North Pier. Concrete capping.	North Pier. Base protection.	South Pier. Rubble base.	South Pier. Pier head.	South Pier. Wave-breaker.	South Pier. Concrete capping.	South Pier. Base protection.	Railway Lines. At works.	Railway Lines. At quarries.	Railway Lines. Sand line.	Railway Lines. Beach improvements.	Railway Lines. Pallávaram quarries outturn.	Railway Lines. Concrete block-making.	Protective works.	Total expenditure.
	NOTE.—The figures' in block type denote for comparison progress and quantity of work done in quarter ending 31st December 1893.																			
		Column.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Rubble stone dredged up from base ..	Tons.	..	..	..	..	..	..	351	..	..	..	..	..	..	..	..	..	..	..
2	Do. redeposited in base ..	,,	351	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Total quantity rubble stone received on works ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	Do. blasted chips do. ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	Concrete blocks—set by divers ..	No.	..	..	..	..	..	..	3	..	..	..	..	.	..	..	..	..	..	..
6	Do. recovered from old work ..	,,	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..
7	Do. made for superstructure ..	,,	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
8	Do. made at pier head *in situ* ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	Total outturn of concrete	C. yds.	..	..	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	Advance or progress of completed capping ..	Ry. ft.	..	..	..	2,712¾	..	..	576	..	..	..	..	..	..	..	..	..	..	..
11	Do. do. superstructure ..	,,	..	..	..	257	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	Rubble base protected with concrete.	,,	..	..	..	..	..	..	10·9	..	..	..	..	..	..	..	..	..	..	..
13	Metre gauge, 40 lb. per yard, laid new.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	Do. do. relaid or renewed.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	Do. do. taken up.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	Broad gauge, 50 lb. per yard, laid ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	Do. do. relaid or renewed.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	Do. do. taken up ..	,,	..	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	Titan gauge, 75 lb. per yard, laid new.	,,	..	300	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	Do. do. relaid or renewed.	,,	..	..	..	..	..	..	332	..	..	..	..	..	..	..	..	..	..	..
21	Do. do. taken up ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	....		..	260	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	Approximate expenditure under sub-heads of work	Rs.	..	31,626				..	28,466	..	70	..	..	..	..	..	..	..	..	60,162

	TONS.	CWTS.	QRS.	LB.		TONS.	CWTS.	QRS.	LB.
Casks of cement received on works during quarter ending 31st Dec. 1894 containing ..	..	..	..	..	Quantity due on indents ..	..	..	..	..
2,200¼ do. issued for do. do. do. do.	392	18	0	5	8,400 casks ..	1,500	..	..	..
6,045¼ do. balance in store at end of do. do. do.	1,079	11	5	7					

MADRAS,
4th February 1895.

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

26. *Expenditure.*—The expenditure to the end of the quarter including establishment, tools and plant and contingencies is Rs. 1,24,06,966

Out of the total estimated cost of	...	...	,, 1,23,83,386
Add recovery on tools and plant	...	...	... ,, 2,77,331
			2,53,751

Leaving a balance of ... ... ,, to be spent for completion or work to be done.

27. *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,
4th February 1895.

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

COMPARISON of expenditure to date with sanctioned estimate for the quarter ending 31st December 1894.

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	..	..	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. 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	1,16,423 6 0	— 8 2 0	1,16,415 4 0	0 10 0	1,16,415 14 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	8,45,458 13 0	0 15 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	1,986	10 4 0	20,358 0 0	..	20,358 0 0	..	20,358 0 0
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	3,303¾	..	34,232 9 1	32,973 15 4	67,206 8 5	1,069 5 1	68,275 13 6
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34	,,	..	..	,,	84,750	..	..	84,605 12 5	121 5 4	84,727 1 9	10 10 6	84,737 12 3
Total for North Pier	..	..	..	..	..	24,80,607	..	..	23,26,668 14 5	33,088 2 0	23,59,757 0 5	5,175 8 5	23,64,932 8 10

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	43,341⅛	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. 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 9 6	— 8 2 0	1,36,468 7 6	0 6 0	1,36,468 13 6
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	..	..	6,496 6 8	6,408 5 2	12,904 11 10	1,598 2 1	14,502 13 11
27. Concrete in filling in between coursed blockwork and caisson	,,	184	15 0 0	,,	2,760	..	..	..	..	..	..	..
28. Wave-breaker concrete blocks	,,	47,231	11 1 6	,,	5,24,070	42,589⅞	12 2 9	4,93,085 3 4	20,976 12 8	5,14,062 0 0	4,231 1 11	5,18,293 1 11
29. Depositing concrete blocks	,,	47,714	1 5 8	,,	64,708	41,073	1 9 0	58,767 15 6	5,492 4 3	64,260 3 9	..	64,260 3 9
30. Concrete in protection to rubble base	,,	1,700	9 10 6	,,	16,420	1,108	13 7 7	14,932 9 1	..	14,932 9 1	..	14,932 9 1
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	..	15,118 12 1	69 15 11	15,188 12 0	..	15,188 12 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	..	..	23,803 15 7	4,599 3 3	28,403 2 10	..	28,403 2 10
Total for South Pier	..	..	..	..	..	21,00,826	..	..	18,51,293 1 8	37,538 7 3	18,88,831 8 11	10,755 8 8	18,99,587 1 7
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	98 0 0	1,40,191 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	98 0 0	1,51,857 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	..	2,18,902 4 9	3,606 13 10	2,22,509 2 7	616 15 3	2,23,126 1 10
39. Establishment	..	..	..	..	..	5,34,369	..	5,87,348 15 3	10,505 0 11	5,97,854 0 2	..	5,97,854 0 2
40. Materials at site (concrete blocks in yards).	C. yds.	..	..	..	..	..	3,355½	14 6 5	52,635 9 1	— 8,563 6 2	44,072 2 11	4,242 13 1	48,315 0 0
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	..	..	58,06,076 0 1	76,175 1 10	58,82,251 1 11	20,888 13 5	59,03,139 15 4
Deduct probable recoveries due to sales of tools and plant	..	..	..	..	..	2,77,331	..	..	— 27,986 2 1	—1,789 10 6	— 29,775 12 7	..	— 29,775 12 7
Total	..	..	..	..	..	58,28,896	..	..	57,78,089 14 0	74,385 7 4	58,52,475 5 4	20,888 13 5	58,73,364 2 9

Comparison of expenditure to date with sanctioned estimate for the quarter ending 31st December 1894—*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.	Expenditure. During the quarter.	Expenditure. 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	..	..	1,23,32,580 12 10	74,385 7 4	1,24,06,966 4 2	20,888 13 5	1,24,27,855 1 7
Estimated cost of additional works found necessary up to end of last quarter	..	..	..	..	..	..	..	..	..	..	..	..
Estimated cost of additional works found necessary during quarter ending	..	..	..	..	..	..	..	..	..	..	..	..
Total estimated cost for completion of works, net	..	..	..	..	1,23,83,386		..	..	..	..	..	..
Add recovery in tools and plant ..	..	..	..	..	2,77,331		..	..	..	..	..	..
						1,26,60,717						
Deduct total expenditure as per column 11	..	..	..	..	1,24,06,966		..	..	..	..	..	..
Total estimated cost of completing work after quarter ending 31st Dec. 1894	..	..	..	..	..	1,24,06,966	..	..	..	..	..	..
						2,53,751						

	RS.	A.	P.	
Expenditure up to 31st March 1894 from commencement of works	1,21,92,104	7	4	
Do. during current official year from 1st April 1894 to 31st December 1894 ..	2,14,861	12	10	Grant for 1894–95, Rs. 1,50,000.
Total outlay to 31st December 1894 ..	1,24,06,966	4	2	

MADRAS,
4th February 1895.

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

No. 444, Marine.

Transferred to the Public Works Department.

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

4th March 1895.

ORDER—dated 22nd March 1895, No. 691 W., Public Works.

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

It would appear that the latest sanctioned * estimate for the works is likely to be exceeded. The revised estimate called for by the Board will be awaited. It should be accompanied by full explanation as to the causes of the excess.

* G.O., No. 430 W., dated 12th February 1892.

[Here enter No. 692 W., dated 22nd March 1895.]

(True Extract.)

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

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

ENDORSEMENT—dated 22nd March 1895, No. 692 W., Public Works.

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.

Ext. C. A. Muniswamy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1895} Madras.

PUBLIC WORKS.

Dated March, 22nd.

Recd. *Encl.*

G.O., 22nd March 1895, Nos. 691, 692 W.

MARCH.

Madras Harbour Works

Forwarding copy of Proceedings embodying the progress report of the — for the quarter ending 31st December 1894 together with plans showing the progress of the work.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

RIGHT HONORABLE SIR,

In continuation of our despatch No. $\frac{11}{3248}$ W., dated 18th December 1894, we have the honour to forward the progress report of the Madras Harbour Works for the quarter ending 31st December 1894. The report is accompanied by two plans showing the position and quantity of work done during the quarter.

It will be observed that an excess over the sanctioned estimate of the works is now anticipated. Information as to the causes of this excess has been called for and will in due course be laid before you, when your despatch No. 2, Public Works, dated 7th February 1895, which has since been received, will be formally replied to.

We have the honour to be,
Right Honorable Sir,
Your most obedient, humble servants,

(Signed) WENLOCK.
(„) H. W. BLISS.
(„) J. GROSE.

FORT ST. GEORGE,
22nd March 1895.

Exd. C. A. Munisawmy.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. $\frac{2}{691}$ W., dated 22nd Mar. 1895.

FORWARDING, with remarks, the progress report of the Madras Harbour Works for the quarter ending 31st December 1894 together with plans showing the position and quantity of work done during the quarter.

Received
The two queries referred to in your note of date - the figures printed viz 5-8 179 and 418 are correct.

Rec'd. Pinto
Manager
Secy's office
Harbour Trust Board

Madras
23rd March
1895-

To
The Head clerk
Public Works Secretariat
Chepauk.

Proof and the report of 31st Decr 1894 herewith returned

CORRESPONDENCE No. 129

MARINE DEPARTMENT.

FROM

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

To

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

UNDER SECRETARY'S OFFICE
24 FEB 95
PUBLIC DEPARTMENT

DATED 20th February 1895.

DESPATCHED 23rd "

RECEIVED 24th "
Reply 25th

ENCLOSURES. The plans referred to by the Engineer—in duplicate.

25.C.

No. 4177.

SUBJECT.

MADRAS HARBOUR.

Submitting report for quarter ending 31st December 1894, and bringing to notice that the balance of the sanctioned estimate is insufficient to complete the Harbour.

LAWRENCE ASYLUM PRESS, MADRAS.

MADRAS HARBOUR TRUST,
SECRETARY'S OFFICE,
20th February 1895.

No. 4177.

From

EDWARD TURNER, 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, the usual report upon the progress made in the reconstruction of the Madras Harbour, during the Quarter ending 31st December 1894: together with the various tracings and statements referred to by the Board's Engineer; also the Traffic Manager's returns of Imports and Exports for the Quarter: and statement of cash receipts, to which is appended a comparison between the receipts for the two periods, 1st April to 31st December 1893 and 1894.

2. The progress upon Harbour Construction has been very slow; for which various reasons are adduced by the Board's Engineer, in his report. It is noted that he still expects to place the caisson for the South Pier-Head in position next March, but now refers to difficulties, which he anticipates will be greater than experienced at the North pier.

3. In this report, dated 4th February the Engineer shows a balance of Rs. 2,53,751 available for completing the Harbour, or for work to be done; and in his letter No. 195, dated 4th June 1894 he clearly stated, in reply to an enquiry from the Government of India, that the amount of the revised sanctioned estimate for reconstruction "shown in 1891, viz., Rupees 61,06,227 is all that is required;" but the Trustees have been much surprised to receive an estimate, dated 6th February forwarded to me by the Engineer on the 8th idem, only two days later than his report, stating that the sum required for the completion of the Harbour will be Rs. 4,70,682 from 1st April 1895. This estimate was considered by the Board at its special meeting held on Friday 15th instant, and the Engineer has been called upon to frame a detailed estimate in the form appended to this report, which shows the comparison of expenditure with sanctioned estimate; and this will be submitted to Government for information and orders as soon as possible. I refer to the matter now, although not alluded to by the Engineer in his report, to afford Government the earliest intimation now possible, that the balance of the sanctioned estimate still available will not be sufficient to complete the Harbour, as previously reported it would.

When further information has been gathered Government will be specially addressed upon the subject.

4. I need not now refer in detail to the Revenue receipts and charges : or to the tabulated statements of exports and imports annexed hereto ; as the *plus* and *minus* columns show the variations at a glance ; but need only observe that cash receipts for dues upon goods landed and shipped show, for the nine months ending 31st December 1894, an increase of Rs. 3,069 as compared with the corresponding period of 1893. The trade of the port may therefore be regarded as showing upon the whole very little variation in volume from the corresponding period of the previous year ; the variations in detail can better be compared and commented upon when submitting the report for the full twelve months in April next.

5. The shipping accommodated in the Harbour during the quarter under review, aggregated a tonnage of 286,726 net register, represented by 160 vessels ; and one vessel of 41 register tons, anchored outside the Harbour within port limits.

I have the honor to be,

Sir,

Your obedient servan

Chairman, Harbour Trust Board.

Extract of Proceedings of the Trustees of the Harbour of Madras, at a Meeting held atthe Offices of the Board on Friday the 22nd day of February 1895.

* * * *

6. Read draft letter to the Chief Secretary to Government, submitting progress report upon the reconstruction of the Harbour, for the Quarter ending 31st December 1894, and bringing to notice that the balance of the sanctioned estimate is insufficient to complete the Harbour.

Approved.

* * *

True Extract.

C. PINSENT,

Secretary, Harbour Trust Board.

Madras Harbour Trust, Statement of Receipts and Charges from 1st April to 31st December 1894.

		Rs. A. P.	Rs. A. P.	Rs. A. P.
Opening balance—				
Government Securities (Par value 8,20,000)			8,16,547 10 10	
1. Cash in the Bank of Madras ...		3,51,356 14 1		
2. General Cash in Office		337 10 8		
3. Advance for Contingencies... ...		500 0 0		
			3,52,194 8 9	
				11,68,742 3 7
RECEIPTS.				
I. Contributions from Port Funds ...		...	.....	57,607 5 6
II. Beach Imports : dues under Section 45 (*a*) I (i) (ii) (iii) ...		1,09,890 3 9		
Pier do. do. do. ...		45,924 2 6		
Beach Exports do. do. ...		23,873 12 2		
Pier do. do. do. ...		36,548 5 9		
Wharfage do. II. ...		4,120 0 0		
Cranage do. III. ...		31,670 8 9		
Storage do. IV.		1,025 1 5		
Demurrage do. V. ...		361 8 10		
Dues for entry of Vehicles under Section 45 (*c*) VI ...		8,948 2 11		
Provisions :—Dues on under Section 45 (*a*) I (i)		464 12 6		
Rent of Properties		503 10 8		
Water : charge for—delivered at pier head		3,474 12 0		
Penalties under Section 84... ...		... ...		
Sundries		0 0 4	2,66,805 1 7	
III. Porterage under Section 45 (*a*) I (iv)		... ...	... ...	
Beach		45,818 7 7		
Pier		23,270 7 3		
Miscellaneous		130 10 6		
			69,219 9 4	
				3,36,024 10 11
IV. Interest on Government of India, 4 per cent. Promissory Notes.... ...		...	...	27,700 14 7
Amount refunded from Construction Funds in repayment of advances made from time to time from Revenue Account from 1st April to 31st October 1894				31,000 0 0
Total Rupees ...			...	16,21,075 2 7
Charges.				
I. Interest (under Section 30) ...		...	2,22,912 8 1	
II. Repayment of Loan for Construction of Harbour under Sec. 31		...	1,00,000 0 0	
				3,22,912 8 1
III. Refunds		...	655 5 1	
IV. Establishment, etc.—				
1. Chairman's salary		3,600 0 0		
2. Secretary's do.		7,200 0 0		
3. Correspondence Department ...		2,683 0 6		
4. Accounts Department		4,974 5 11		
5. Cash Department		3,495 7 1		
6. Traffic Department (Shore Staff) ...		20,806 5 4		
7. Preventive Service		9,271 1 2		
8. Do. Boatmen ...		894 11 10		
9. Exchange Compensation Allowance		3,539 15 0		
10. Contribution to Govt. for Pensions...		623 5 2		
11. Do. to Provident Fund ...		60 5 4		
12. Fees to Trustees		4,620 0 0		
13. Tidal Observatory		30 0 0		
			61,798 9 4	
Forward ...Rs.			62,453 14 5	3,22,912 8 1

						Rs.	A.	P.	Rs.	A.	P.
	Brought forward					62,453	14	5	3,22,912	8	1
V.	Contingencies—										
	(a) Subject to Regular Audit.—					Rs.	A.	P.			
	Postage					47	1	9			
	Receipt Stamps					156	2	0			
	Telegrams					27	6	0			
	Furniture					130	13	0			
	Fees for Audit					...	...	...			
	Law Charges					31	5	0			
	Stationery and Printing					2,950	1	11			
	Advertisement Charges					230	0	0			
	Uniform for Preventive Service, &c.					1,441	12	0			
									5,014	9	8
	(b) Admissible without Detailed Audit.—										
	Overtime Fees to Establishment					3,363	15	6			
	Do. Preventive Service and Boatmen					2,484	1	3			
	Miscellaneous					2,580	14	11			
									8,428	15	8
VI.	Petty Construction and Repairs—										
	New Works					8,992	10	2			
	Repairs					8,341	11	2			
	Tools and Plant					887	3	5			
									18,221	8	9
VII.	Porterage—										
	1. Coolies, Beach					28,316	7	6			
	2. Do. Pier					12,272	14	8			
	3. Do. Custom House					7,321	13	1			
	4. Coasting Cargo					1,175	2	6			
	5. Boat Hire					...	...	...			
	6. Engine Charges					1,835	7	9			
	7. Steam Crane Charges					1,797	15	3			
	8. Refunds					3,656	9	5			
	9. Claims for Losses and Damage					678	10	4			
	10. Provident Fund Deductions from Coolies' wages					810	6	4			
	11. Do. Contributions by the Trust					810	6	4			
									58,675	13	2
	(a) Contingencies Subject to Regular Audit—										
	Postage					...	...	...			
	Receipt Stamps					2	6	0			
	Telegrams					...	...	...			
	Furniture					29	2	0			
	Tarpaulins					1,225	9	2			
	Law Charges					...	...	...			
	Stationery and Printing					311	8	4			
	Advertisement Charges					...	...	...			
	Lighting Pier and Yards					1,395	15	3			
									2,964	8	9
	(b) Contingencies Admissible without Detailed Audit—										
	Miscellaneous								2,208	8	0
											63,848 13 11
VIII.	Advances to Construction Account										31,000 0 0
	Total Expenditure										5,11,880 6 6
	Closing Balance on the 31st December 1894—										
	Government Securities (Par value 10,80,000)								10,86,113	10	10
	Cash in the Bank of Madras					16,524	15	11			
	General Cash in Office					6,056	1	4			
	Advance for Contingencies					500	0	0	23,081	1	3
											11,09,194 12 1
	Total Rupees										16,21,075 2 7

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

omparative Statement of Receipts and Charges of the Madras Harbour Trust under Act II of 1886 for nine months ending 31st December 1893 and 1894.

Items.	Actuals from 1st April to 31st Dec. 1893.	Actuals from 1st April to 31st Dec. 1894.	Plus or Minus.	Remarks.
REVENUE ACCOUNT.				
Opening Balance	Rs. 11,65,852	Rs. 11,68,742	+ Rs. 2,890	
Receipts.				
I. Contributions from Port Funds	20,000	57,607	+ 37,607	
II. Beach Imports: dues under Section 45 (a) I (i) (ii) (iii)	1,12,005	1,09,890	— 2,115	
Pier do. do. do.	44,711	45,924	+ 1,213	
Beach Exports do. do.	22,173	23,874	+ 1,701	
Pier do. do.	32,841	36,548	+ 3,707	
Wharfage do. II	5,280	4,120	— 1,160	
Cranage do. III	30,211	31,671	+ 1,460	
Storage do. IV	1,779	1,025	— 754	
Demurrage do. V	...	362	+ 362	
Dues for entry of Vehicles under Section 45 (c) VI	9,197	8,948	— 249	
Provisions:—Dues on under Section 45 (a) I (i)	434	465	+ 31	
Rent of Properties	852	504	— 348	
Water: charge for—delivered at pier head	3,188	3,475	+ 287	
Penalties under Section 84	...	...	...	
Sundries	*4,307	...	— 4,307	*Sale proceeds of Casurina Plantation, and Unserviceable articles; also Law Charges recovered from the Trustees of Pachaiyappah's Charities.
III. Porterage under Section 45 (a) I (iv)	...	...	...	
Beach	44,528	45,818	+ 1,290	
Pier	24,351	23,270	— 1,081	
Miscellaneous	1,406	131	— 1,275	
IV. Interest on Govt. of India, 4 per cent Pro Notes	20,565	27,701	+ 7,136	
Amount refunded from construction Funds in repayment of advances made from time to time from Revenue Account	92,000	31,000	— 61,000	
Total	4,69,828	4,52,333	...	
Total including the opening Balance	16,35,680	16,21,075	...	
Charges.				
I. Interest (under Section 30)	2,18,478	2,22,913	+ 4,435	
II. Repayment of Loan for Construction of Harbour under Sec. 31	1,00,000	1,00,000	...	
III. Refunds	1,704	655	— 1,049	
IV. *Establishment, Etc.*—				
1. Chairman's salary	3,600	3,600	...	
2. Secretary's salary	8,500	7,200	— 1,300	
3. Correspondence Department	2,781	2,683	— 98	
4. Accounts Department	4,699	4,974	+ 275	
5. Cash Department	3,358	3,495	+ 137	
6. Traffic Department (Shore Staff)	19,084	20,806	+ 1,722	
7. Preventive Service	9,089	9,271	+ 182	
8. Preventive Service Boatmen	876	895	+ 19	
9. Tidal Observatory	...	30	+ 30	
10. Exchange Compensation Allowance	...	3,540	+ 3,540	
11. Contribution to Government for Pensions	369	623	+ 254	
12. Do. to Provident Fund	74	60	— 14	
13. Fees to Trustees	4,860	4,620	— 240	
V. CONTINGENCIES.				
(a)—Subject to Regular Audit.—				
Postage	83	47	— 35	
Receipt Stamps	145	156	+ 11	
Telegrams	8	27	+ 19	
Furniture	210	131	— 79	
Fees for Audit	...	...	...	
Law Charges	1,223	31	— 1,192	
Stationery and Printing	1,396	2,950	+ 1,554	
Advertisement Charges	393	230	— 163	
Uniform for Preventive Service, &c.	1,318	1,442	+ 124	
(b)—Admissible without detailed Audit—				
Overtime Fees to Establishment	3,448	3,364	— 84	
Do. Preventive Service and Boatmen	2,103	2,484	+ 381	
Miscellaneous	4,798	2,581	— 2,217	
VI. *Petty Construction and Repairs.*—				
New Works	61	8,993	+ 8,932	
Repairs	9,246	8,342	— 904	
Tools and Plant	711	887	+ 176	
VII *Porterage*—				
1. Coolies, Beach	30,487	28,316	— 2,171	
2. Do. Pier	11,118	12,273	+ 1,155	
3. Do. Custom House	7,158	7,322	+ 164	
4. Coasting Cargo	814	1,175	+ 361	
5. Boat Hire	6	...	— 6	
6. Engine Charges	862	1,836	+ 974	
7. Steam Crane Charges	1,554	1,798	+ 244	
8. Refunds	656	3,657	+ 3,001	
9. Claims for Losses and Damage	319	679	+ 360	
10. Provident Fund Deductions from Coolies' wages	331	810	+ 479	
11. Do. Contributions by the Trust	674	810	+ 136	
(a) Contingencies, Subject to Regular Audit.—				
Postage	...	...	...	
Receipt Stamps	11	2	— 9	
Telegrams	...	...	...	
Furniture	106	29	— 77	
Tarpaulins	1,401	1,226	— 175	
Law Charges	...	...	...	
Stationery and Printing	390	312	— 78	
Advertisement Charges	...	...	...	
Lighting Pier and Yards	1,246	1,396	+ 150	
(b) Contingencies, Admissible without Detailed Audit.—				
Miscellaneous	2,049	2,209	+ 160	
VIII Advances to Construction Account	92,000	31,000	— 61,000	
Total	5,53,796	5,11,880	...	
Closing Balance	10,81,884	11,09,195	...	
Total	16,35,680	16,21,075	...	

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

STATEMENT OF GOODS IMPORTED FROM FOREIGN PORTS.

	Packages.	1891-92.	1892-93.	1893-94	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Apparel and Effects ...	Packages...	1,347	1,068	1,017	723	632	— 91
Alum	Barrels ...	326	686	910	900	648	— 252
Asphalte, Tar, & Pitch.	Casks ...	4,439	2,329	2,638	1,949	1,738	— 211
Acids	Cases ...	1,854	1,408	1,560	1,447	1,578	+ 131
Arms and Guns ...	,, ...	442	221	250	214	65	— 149
Arrack	Casks ...	884	833	1,031	804	892	+ 88
Blankets... ...	Bales ...	119	168	28	24	45	+ 21
Beef and Pork ...	Cases ...	36	...	...	...	...	...
Bricks ...	100 ...	1,021	551	1,550	1,550	858	— 692
Beer	Cases ...	6,123	8,710	7,013	5,158	3,715	— 1,443
	Barrels ...	1,140	1,707	1,401	1,061	1,501	+ 440
	Hogsheads	6,808	8,210	4,310	3,957	4,561	+ 604
Boiler	No. ...	51	32	48	43	17	— 26
Corks	Bundles ...	88	72	50	19	44	+ 25
Canvas	Bales ...	121	193	615	472	66	— 406
Candles	Cases ...	13,637	31,017	27,463	20,849	20,066	— 783
Colours	,, ...	3,838	3,286	2,998	2,430	2,271	— 159
Confectionery Provisions and Oilmanstores	,, ..	23,395	22,129	20,829	16,531	12,292	— 4,239
Crockery & Glassware.	Crates & Casks.	4,538	3,817	5,300	4,299	2,015	— 2,284
Chalk	Barrels ...	370	140	134	25	50	+ 25
	Tons ..	...	...	...	...	30	+ 30
Cement ...	Casks ...	14,522	7,369	8,904	6,968	5,559	— 1,409
Cast Iron Pipes and Tubes ...	Tons ...	335	1,436	989	826	1,182	+ 356
Camphor ...	Tubs ...	4,739	4,349	5,765	4,066	3,854	— 212
Coal	Tons ...	33,686	49,508	58,119	45,372	58,705	+ 13,333
Coke	,, ...	578	778	1,018	640	569	— 71
Fuel ...	,, ...	...	2,953	..	...	...	...
Crackers... ...	Cases ..	470	840	327	325	975	+ 650
Copper Plates and Tiles	No. ...	4,802	521	7,260	6,541	2,589	— 3,952
Corrugated Iron ...	Packages...	805	2,512	2,638	1,299	1,369	+ 70
Dynamite ..	Cases ...	13,040	8,035	10,598	6,928	5,403	— 1,525
Earthenware ...	Crates ...	2,313	1,886	2,168	1,280	854	— 426
Fire Clay ...	Casks ...	2,768	272	312	60	82	+ 22
Flour	Bags and Barrels ...	1,317	821	1,251	777	1,084	+ 307
Flannel ...	Bales ...	54	30	64	53	8	— 45
Gunpowder ...	Packages...	6,667	5,987	5,883	3,205	3,168	— 37
Harmonium ...	Cases ...	30	27	24	24	11	— 13
Hardware ...	Cases & Casks..	8,234	6,783	8,189	6,385	8,333	+ 1,948
Hops ...	Packages	129	64	297	53	202	+ 149
Iron ...	Tons ...	13,737	17,929	18,627	14,424	5,839	— 8,585
Iron Safes ...	No. ...	296	150	167	71	41	— 30
Kerosine Oil	Cases ...	397,862	251,320	342,671	1,83,016	166,395	— 16,621
	Tons ...	...	3,361	5,455	3,066	6,299	+ 3,233
Malt ...	Bags ...	445	407	22	13	56	+ 43
Millinery and Haberdashery ...	Cases ...	1,609	1,566	1,370	970	1,496	+ 526
Matches	,, ...	10,665	9,125	8,927	6,553	6,304	— 249
Machinery ...	Tons ...	3,099	3,241	4,817	3,177	2,671	— 506
Nails	Kegs ...	13,744	10,547	14,022	11,630	7,478	— 4,152
Oil and Turpentine ...	Drums ...	7,225	15,500	4,581	3,117	2,976	— 141
Piece Goods ... Piece Goods	Cases&Bales	85,079	51,551	57,676	42,788	50,876	+ 8,088
Piece Goods ... Twist.	Cases&Bales		18,664	24,071	16,903	18,513	+ 1,610
Paper ...	Bales ...	6,546	5,518	6,038	4,693	3,094	— 1,599

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

——	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months end ing 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Piano ...	No. ...	153	99	112	87	37	— 50
Printing Types ...	Cases ...	492	727	346	245	144	— 101
Pig Lead ...	No. ...	2,198	1,098	2,612	2,088	288	— 1,800
Paint	Kegs ...	7,758	10,257	5,770	5,153	5,269	+ 116
Rattan ...	Bundles ...	3,823	5,669	2,362	1,693	1,677	— 16
Soaps ...	Cases ...	1,650	970	2,172	1,742	669	— 1,073
Salt	,, ...	383	329	153	124	315	+ 191
Steel	Cases & Casks	864	3,343	794	760	238	— 522
Steel Bundles and Bars ...	No. ...	11,261	10,401	10,768	8,422	6,183	— 2,239
Steel Hoop ...	Bundles ...	5,567	1,597	4,930	4,874	1,855	— 3,019
Shovels ...	,, ...	275	499	29	2	39	+ 37
Sodawater Bottles ...	Crates ...	1,395	1,768	1,570	1,237	1,545	+ 308
Sulphur ...	Casks ...	752	435	1,128	225	10	— 215
Shot ...	Kegs ...	177	56	248	216	108	— 108
Sundries ...	Packages ...	48,408	33,606	56,235	42,994	40,647	— 2,347
Specie ...	No. ...	1,229	888	768	535	441	— 94
Sugar	Bags ...	2,152	1,196	4,198	2,666	81	— 2,585
Stationery ...	Cases ...	1,242	848	1,333	971	1,905	+ 934
Spelter ...	Cakes ...	836	8,786	22,921	9,264	3,128	— 6,136
Saw ...	Cases ...	70	48	79	64	10	— 54
Twine and Rope ...	Bales & Coils	438	455	458	414	138	— 276
Tin Plates ...	Boxes ...	5,608	4,649	6,669	4,834	3,203	— 1,631
Tin slabs ..	No. ...	...	...	...	...	1,474	+ 1,474
Tramway Material	Packages ..	...	...	...	...	5,231	+ 5,231
	Tons ...	...	...	...	...	87	+ 87
Wine and Spirits	Cases ...	37,877	44,739	36,048	25,981	22,618	— 3,363
	Casks ...	863	658	514	351	541	+ 190
	Puncheons ...	369	733	1,058	876	100	— 776
Window Glasses ...	Cases ...	5,972	12,000	10,425	9,669	5,178	— 4,491
White and Red Lead	Kegs ...	681	951	737	544	631	+ 87
Yellow Metal ...	Cases ...	3,076	3,361	2,784	2,314	2,270	— 44
Zinc Sheets ...	Packages ...	2,749	1,690	1,761	1,013	1,119	+ 106
Horses ...	No. ...	816	959	835	651	679	+ 28
Ponies	,, ...	70	112	131	141	109	— 32
Cows	,, ...	59	15	7	6	7	+ 1
Dogs	,, ...	13	14	3	...	45	+ 45
Elephants	,, ...	10	7	6	6	4	— 2
Carriages	...	...	8	9	9	7	— 2

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

——	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Stores	Packages ...	82,105	72,434	47,040	46,648	7,356	— 39,292
	Tons ...	3,605	499	156	156	901	+ 745
Fuel ...	,, ...	...	...	...	...	...	...
Coke ...	,, ...	1,437	544	716	628	703	+ 75
Coal ...	,, ...	27	300	237	...	2,948	+ 2,948
Timber ...	,, ...	2,477	2,083	1,448	...	853	+ 853
Fire Brick ...	100 ..	115	330	...	...	75	+ 75
Boiler ...	No. ...	...	...	...		4	+ 4

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

——	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Stores	Packages ...	68,282	22,171	28,640	10,444	13,349	+ 2,905
	Tons ...	...	...	992	22	...	— 22
Coke ...	,, ...	14	...	...	...	...	...
Coal ...	,, ...	...	...	...	...	...	...
Timber ...	,, ...	..	...	...	...	...	...
Boiler ...	No. ...	4	12	10	10	1	— 9
Fire Bricks ...	100 ...	...	...	...	...	160	+ 160

IV. STATEMENT OF GOODS IMPORTED FROM COAST PORTS.

——	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Apparel and Effects	Packages ...	451	343	527	266	411	+ 145
Alum ..	Barrels ...	10	187	7	7	144	+ 137
Acids ...	Cases ...	89	125	269	249	276	+ 27
Animals ...	No. ...	...	10	...	...	9	+ 9
Arms and Guns ...	Cases ...	45	12	13	6	10	+ 4
Boilers ...	No. ...	2	...	...	...	...	...
Bricks and Tiles ...	100 ...	1,396	57	837	587	603	+ 16
Coffee ...	Bags ...	379	595	575	513	434	— 79
Candles ...	Cases ..	...	...	11	7	1	— 6
Colours ...	,, ...	1,225	1,531	1,591	1,430	1,012	— 418
Crockery and Glassware ...	,, ...	322	466	426	313	921	+ 608
Coal ...	Tons ...	13,249	13,792	22,152	15,475	15,905	+ 430
Coke ..	,, ...	...	...	..	...	...	...
Carpets ...	Bales ...	77	94	99	73	76	+ 3
Camphor and Benjamin .	Tubs ...	682	1,306	432	383	801	+ 418
Copra ...	Bags ...	32	...	122	...	68	+ 68
Crackers ...	Cases ...	...	...	...	...	2	+ 2
Copper ..	,, ...	1,667	986	557	558	10	— 548
Do. ...	Tiles & Ingots...	96	421	2,180	2,180	3,585	+ 1,405
Cutch and Lac ...	Packages ...	4,415	3,191	3,554	2,854	3,867	+ 1,013
Cast Iron Tubs Pipes	Tons ...	...	...	...	...	27	+ 27
Cocoanuts ...	No. ..	3	415	2,023	2,023	...	— 2,023
Earthenware ...	Crates ...	392	2,941	407	390	202	— 188
Do. ...	Pipes ...	2,626	6,315	950	950	156	— 794
Firewood ...	Tons ..	...	...	...	...	...	...
Flour ...	Bags & Barrels.	7,248	11,682	12,270	8,744	13,498	+ 4,754
Gunnies ...	Bales ...	7,930	9,661	9,755	7,359	7,994	+ 635
Gram and Peas, &c.	Bags ...	271,682	380,145	395,249	3,30,103	222,945	— 1,07,158
Garlic ...	,, ...	2,945	1,215	6,007	5,492	7,159	+ 1,667
Hardware ...	Cases ...	641	1,157	1,507	1,315	1,889	+ 574
Horns ...	Bundles ...	880	980	511	325	725	+ 400
Hides ...	Bales ...	6,127	9,539	6,013	4,031	4,980	+ 949
Iron ...	Tons ...	231	293	155	106	156	+ 50
Iron Safes ...	No. ...	31	38	34	16	13	— 3
Kerosine Oil ...	Cases ...	...	...	500	500	...	— 500
Leaves ...	Bundles ...	6,508	3,742	5,113	4,635	2,491	— 2,144
Liquor ...	Cases ...	...	...	2,193	1,545	1,409	— 136
Machinery ..	Tons ...	158	79	49	31	195	+ 164
Millinery and Haberdashery ...	Cases ..	208	245	144	93	259	+ 166
Oil and Turpentine.	Drums ...	8,340	6,369	5,941	4,143	4,573	+ 430
Paddy ...	Bags ...	...	75,980	23,737	14,107	5,163	— 8,944
Piece-goods ...	Cases and Bales	3,802	4,756	13,499	2,680	3,805	+ 1,125
Paper ...	Bales	3,128	4,898	5,420	4,973	5,708	+ 735
Paint ...	Kegs ...	224	693	247	184	243	+ 59
Piano ...	No. ...	15	12	5	4	6	+ 2
Rice ...	Bags ...	1,147,048	205,176	110,181	82,404	80,721	— 1,683
Rose Water ...	Cases ...	1,434	1,815	1,357	1,001	1,383	+ 382
Seeds ..	Bags ...	30,406	25,747	13,916	10,971	10,514	— 457
Skins ...	Bales ...	6,199	50,502	6,807	5,084	5,446	+ 362
Silk ...	,, ...	1,051	699	290	251	423	+ 172
Sandalwood ..	Bundles ...	143	121	42	34	218	+ 184
Sugar ...	Bags ...	1,381	866	1,333	923	1,897	+ 974
Specie ...	No. ...	202	190	193	47	25	— 22
Sundries ...	Packages ...	47,533	47,137	48,614	30,285	39,574	+ 9,289
Soap ...	Cases ...	445	440	147	46	675	+ 629
Sulphur ...	Casks ...	471	544	506	320	295	— 25
Spice ...	Packages ...	359	740	640	587	765	+ 178
Station	,, ...	...	...	...	...	124	+ 124
Soda water Bottles...	Crates ...	...	...	241	232	1,446	+ 1,214
Twine and Rope ...	Bales and Coils	839	775	1,063	967	1,166	+ 199
Tin Plates	Boxes ...	1,807	912	858	651	977	+ 326
	Slabs ...	...	...	...	...	61	+ 61
Twist ...	Bales ...	1,126	1,147	1,206	965	812	— 153
Turmeric ..	Bags ...	7,224	4,977	5,433	3,669	4,517	+ 848
Timber ...	Tons ...	15,137	10,595	15,264	9,691	9,434	— 257
Tea ...	Cases ...	1,321	3,411	37	37	156	+ 119
Tamarind ...	Bundles ...	...	...	140	88	86	— 2
Yellow Metal ...	Cases ...	6	542	1,078	1,078	279	— 799
Horses.. ..	No. ...	1	15	8	8	...	— 8
Two-wheeled Carriages.	No. ...	...	4	5	3	5	+ 2
Four-wheeled Carriages.	No. ...	...	3	19	5	2	— 3
Tramway Materials..	Tons	...	...	...	...	13	+ 13

V. STATEMENT OF GOODS EXPORTED TO FOREIGN PORTS.

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Bone Meal ...	...	...	...	...	...	5,057	+ 5,057
Beer and Ale ...	Cases	18	2	13	12	...	— 12
	Casks	60	7	...	...	...	...
	Hogsheads ...	3	...	...	...	...	...
Cinchona Bark ...	Bales	471	529	411	411	121	— 290
Chillies	Bags & Bundles.	2,760	9	816	446	669	+ 223
Cigars	Cases	1,249	556	643	369	452	+ 83
Coffee	Bags	23,764	34,613	17,737	3,618	10,070	+ 6,452
Cotton	Bales	48,202	26,140	56,768	52,552	38,904	— 13,648
Cotton Twist ...	„	4,229	5,266	1,946	1,211	1,557	+ 346
Coriander and Omum Seeds ...	Bags	8,218	1,814	7,377	5,076	10,100	+ 5,024
Carpets	Bales	418	288	391	215	145	— 70
Coal	Tons	905	313	599	305	152	— 153
Deer Horns ...	Packages ...	1,574	1,549	767	567	1,124	+ 557
Explosive ...	Cases	21	1	...	...	2	+ 2
Firewood ...	Tons	...	...	...	...	...	...
Four-wheeled Carriages ...	No.	8	2	3	3	1	— 2
Ground Nuts ...	Bags	93,132	26,209	138,211	130,432	1,06,793	— 23,639
Gram, Peas, &c....	„	519	161	1,662	1,639	430	— 1,209
Horns, Cow and Buffalo ...	Tons	62	29	1,026	23	70	+ 47
Hides, Tanned ...	Bales & Bundles.	21,848	21,812	11,149	7,566	13,019	+ 5,453
Hardware ..	Cases & Casks.	...	...	...	...	273	+ 273
Indigo	Cases & Chests.	14,622	29,933	25,008	15,065	14,515	— 550
Iron	Tons	2	11	17	13	3	— 10
Jaggery	Bags	28,985	56,672	52,668	52,668	17,809	— 34,859
Myrabolams ...	Bags	235	91	563	563	234	— 329
Miscellaneous ...	Packages ...	37,808	28,547	36,531	17,920	11,798	— 6,122
Onions	Bags & Baskets	21,964	5,617	17,517	13,714	5,531	— 8,183
Oil	Casks	434	56	208	202	443	+ 241
Provisions ...	Packages ...	...	...	...	...	3,285	+ 3,285
Piece-goods ...	Bales and Cases.	6,205	4,857	7,305	5,096	6,001	+ 905
Potatoes	Bags & Baskets.	2,437	282	1,716	968	1,346	+ 378
Poonac	Bags	33,880	16,127	31,311	25,366	36,513	+ 11,147
Piano	No.	41	10	15	15	3	— 12
Paddy ...	Bags	...	5	22	22	...	— 22
Rice	„	1,138	3,229	16,915	12,469	38,944	+ 26,475
Redwood	Tons	699	1,654	733	431	699	+ 268
Salt	„	...	...	...	...	7	+ 7
Seeds, Gingelly and Castor ...	Bags	1,313	12,654	14,777	9,724	75,330	+ 65,606
Skins, Sheep and Goat, Tanned...	Bales	32,194	34,063	31,535	19,966	29,008	+ 9,042
Sandalwood ...	Bundles ...	1,534	330	699	698	256	— 448
Spirits and Wine	Cases	332	41	67	19	16	— 3
	Casks	977	65	40	39	9	— 30
	Puncheons ...	...	...	...	...	...	...
Sugar	Bags	599	161	1,197	854	1,410	+ 556
Specie	Boxes	94	48	29	27	119	+ 92
Tamarind ...	Bundles ...	6,445	5,331	3,076	1,095	3,445	+ 2,350
Turmeric... ...	Bags	2,159	941	1,562	1,137	3,135	+ 1,998
Tea	Cases	2,265	1,769	1,649	1,409	1,613	+ 204
Two-wheeled Carriages ...	No.	1	...	3	2	3	+ 1
Wool	Bales	1,021	1,470	1,532	954	1,430	+ 476
Yellow Metal ...	Tons	107	100	417	287	7	— 280
Horses	... ...	...	...	...	...	24	+ 24
Ponies	... ...	...	...	...	...	9	+ 9
Elephant... ...	... ...	...	...	...	...	2	+ 2
Lion	... ...	...	...	...	...	1	+ 1
Tiger	... ...	...	...	...	...	1	+ 1
Leopards... ...	... ...	...	...	...	...	6	+ 6
Bear	... ...	...	..	...	...	1	+ 1
Sheep	... ...	...	...	...	...	79	+ 79

VI. STATEMENT OF GOODS EXPORTED TO COAST PORTS.

—	Packages.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year
Beer and Ale ...	Cases ...	352	294	305	179	293	+ 114
	Casks ...	159	94	91	30	115	+ 85
	Hogsheads ...	7	41	161	137	86	— 51
Boiler ...	No. ...	...	...	1	1	...	— 1
Cinchona Bark ...	Bales	395	84	80	...	...	...
Chillies	Bags & Bundles	2,064	2,907	9,207	7,788	2,160	— 5,628
Cigars	Cases ...	1,418	1,136	789	528	484	— 44
Coffee	Bags ..	507	1,449	541	358	404	+ 46
Cotton	Bales ...	5,721	4,245	7,080	6,844	4,912	— 1,932
Cotton Twist ...	„ ...	4,698	6,138	3,220	2,187	2,343	+ 156
Coriander and Omum Seeds	Bags ...	2,970	7,002	6,894	4,283	2,037	— 2,246
Cement ..	Casks ...	...	8,908	132	54	45	— 9
Carpets	Bales ...	68	51	41	32	22	— 10
Coal	Tons ...	275	450	157	107	340	+ 233
Deer Horns ..	Packages ...	108	151	52	52	...	— 52
Explosive ...	Cases ...	2,668	1,331	1,067	32	33	+ 1
Eggs	Pots ...	1,165	1,125	1,198	750	731	— 19
Firewood... ..	Tons ..	2	....	...	...	...	...
Four-wheeled Carriage	No. ...	21	31	27	20	16	— 4
Groundnuts ...	Bags ...	27,790	17,839	16,116	9,110	46,168	+ 37,058
Gram, Peas, &c. ...	„ ...	521	1,226	233	206	304	+ 98
Horns, Cow and Buffalo...	Tons ...	310	307	166	94	680	+ 586
Hides ...	Bales & Bundles	379	526	535	412	190	— 222
Hardware ..	Cases and Casks.	...	...	...	...	501	+ 501
Indigo	Cases & Chests..	165	816	1,162	910	155	— 755
Iron	Tons ...	2,244	2,611	755	430	371	— 59
Old Iron ...	Tons ...	...	...	...	...	65	+ 65
Jaggery	Bags ...	258	1,448	336	195	363	+ 168
Kerosine Oil ...	Cases ...	10,327	659	1,117	592	5,754	+ 5,162
Myrabolams ...	Bags ...	1,054	291	1,112	1,097	42	— 1,055
Miscellaneous ...	Packages ...	50,510	69,584	61,706	45,054	14,111	— 30,943
Onions	Bags & Baskets	22,442	53,406	47,062	42,644	69,322	+ 26,678
Oil	Casks ...	807	637	346	226	575	+ 349
Piece-goods ...	Bales & Cases	5,615	8,651	6,368	4,471	6,510	+ 2,039
Potatoes	Bags & Baskets	23,637	24,388	30,592	30,088	19,811	— 10,277
Poonac	Bags ...	4,770	22,131	9,853	8,438	365	— 8,073
Piano	No. ...	23	16	17	12	8	— 4
Paddy	Bags ..	...	8,806	8,400	8,400	4,123	— 4,277
Provisions ...	Packages ...	...	...	...	...	1,409	+ 1,409
Rice	Bags ...	5,448	31,893	11,083	9,020	6,135	— 2,885
Redwood	Tons ...	119	693	4	4	43	+ 39
Seeds, Gingelly and Castor	Bags ...	16,803	2,787	36,799	17,369	59,408	+ 42,039
Skins, Sheep & Goat, Tanned ...	Bales	721	1,046	871	676	1,476	+ 800
Sandalwood ...	Bundles ..	153	256	2,786	2,765	317	— 2,448
Spirits and wines.	Cases	2,982	3,783	3,045	2,338	2,034	— 304
	Casks	727	716	992	905	307	— 598
	Puncheons ...	13	189	214	210	...	— 210
Sugar	Bags	773	1,419	473	450	575	+ 125
Specie	Boxes	236	510	47	36	56	+ 20
Salt	Bags ...	...	...	...	...	3,997	+ 3,997
Tamarind ...	Bundles ...	3,624	8,253	5,090	3,006	2,061	— 945
Turmeric... ...	Bags	19,258	17,883	38,147	28,426	42,898	+ 14,472
Tea	Cases	341	62	50	36	74	+ 38
Two-wheeled Carriage	No.	15	16	12	8	13	+ 5
Wool	Bales	769	603	463	340	160	— 180
Yellow Metal ...	Tons	53	67	256	256	28	— 228

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

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Accountant-General.	Specie Silver.	Boxes	403	582	533	258	277	+ 19
	,, Copper.	,,	5,100	710	780	560	180	— 380
	Silver&Copper	,,	...	...	...	...	...	...
	Notes ...	,,	32	19	30	1	...	— 1
	Packages ...	No.	27	K	...	...	...	...
Public Works Department	Boilers ...	No.	2	...	...	...	...	...
	Coal ...	Tons	50	20	...	...	...	...
	Coke ...	,,	...	...	...	...	64	+ 64
	Iron ...	,,	271	9	19	...	...	...
	Stores ...	Pkgs.	15,148	6,494	10,812	10,278	1,202	— 9,076
Ordnance ...	Coal ...	Tons	...	...	1,450	...	145	+ 145
	Ammunition ..	Boxes	2,148	...	109	...	8,756	+ 8,756
	Stores ...	Pkgs.	13,017	28,566	21,057	19,925	14,284	— 5,640
Madras Harbour Works	Cement ...	Casks	1,869	...	...	...	5,600	+ 5,600
	Stores ...	Pkgs.	3,869	...	...	...	40	+ 40
	Coal ...	Tons.	...	...	...	...	...	...
Clothing ...	Packages ...	No.	1,983	2,324	2,176	1,537	825	— 712
Police ...	,, ...	,,	122	167	196	139	127	— 12
Salt Revenue ...	,, ...	,,	272	291	109	72	74	+ 2
Post Office ...	,, ...	,,	1,119	858	742	545	2,322	+ 1,777
Medical ...	,, ...	,,	1,779	1,007	1,920	1,071	229	— 842
Telegraphs ...	,, ...	,,	34,768	24,126	9,129	7,928	8,211	+ 283
Stationery ...	,, ...	,,	732	1,197	1,156	874	709	— 165
Stamps ...	,, ...	,,	1,961	1,122	1,861	1,711	1,410	— 301
Commissariat ...	,, ...	,,	8,588	7,420	2,562	2,118	2,987	+ 869
Gazette Press ...	,, ...	,,	161	149	97	90	242	+ 152
Marine ...	,, ...	,,	729	880	806	473	214	— 259
Revenue Survey...	,, ...	,,	297	208	25	18	33	+ 15
Agriculture ...	,, ...	,,	380	320	140	140	5	— 135
Government Central Museum ...	,, ...	,,	15	10	9	8	5	— 3
Under-Secy. to Government ...	,, ...	,,	235	504	85	68	53	— 15
Supt. of Prisons...	,, ...	,,	1	17	7	7	14	+ 7
Revenue Board ...	,, ...	,,	424	33	9	8	9	+ 1
Forests ...	,, ...	,,	1,196	10	3	2	1	— 1
Presidency College	,, ...	No.	28	15	2	2	2	...
School of Arts ...	,, ...	,,	3	1	1	1	...	— 1
Inspector of Cattle Diseases ...	,, ...	,,	9	100	...	...	...	...
Chemical Examiner	,, ...	,,	31	31	36	10	33	+ 20
Medical College...	,, ...	,,	73	31	41	16	...	— 16
Dy. Collectors ...	,, ...	,,	9	15	12	6	...	— 6
Astronomer ...	,, ...	,,	23	13	20	17	4	— 13
Presy. Pay Master.	,, ...	,,	2	8	4	4	10	+ 6
Registration ...	,, ...	,,	7	4	1	...	...	...
Director of Public Instruction ...	,, ...	,,	9	139	4	4	1	— 3
Superintendent, Remount Depôt, Hussur.	,, ...	,,	...	600	214	211	1	— 210
Resident, Mysore, in Bangalore.	,, ...	,,	...	2	9	8	3	— 5
Qr.-Master Genl...	,, ...	,,	...	3	14	14	...	— 14
Registrar of High Court ...	,, ...	,,	...	1	4	2	2	...
Curator Govt. Garden, Ooty ...	,, ...	,,	...	...	40	...	...	...
Civil Engineering College ...	,, ...	,,	...	...	44	20	15	— 5
Secy. to the Chief Commissioner of Coorg, Bangalore.	,, ...	,,	...	...	...	...	1	+ 1
Rev. Settlement..	,, ...	,,	...	...	...	...	...	...
Executive Engineer, Military Works ...	,, ...	,,	...	...	...	...	581	+ 581
Secretary for Berar Hyderabad ...	,, ...	,,	...	...	...	...	...	— 18
Collector ...	,, ...	,,	...	...	...	...	4	+ 4
O/c. No. 4 Co. E. Dn. R. A. Fort.	,, ...	,,	...	...	...	...	1	+ 1
							1	+ 1

STATEMENT OF STORES, &c., IMPORTED BY GOVERNMENT.—*Contd.*

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Controller, Military Accounts...	Packages ...	No.	...	...	...	...	2	+ 2
Agent for Government Consignments ..	,, ...	,,	...	...	...	...	474	+ 474
Government Botanical Gardens...	,, ...	,,	...	...	...	...	279	+ 279
Commissioner of Paper currency	,, ...	,,	...	...	...	...	7	+ 7
O. C., 9th Co., S. Dn. R.A., Fort St. George	,, ...	,,	...	...	...	...	1	+ 1
O. C., ½ Bn. 1st Cheshire Regt., Fort ...	,, ...	,,	...	...	...	...	5	+ 5
Officer in charge, Pensioners, Madras ...	,, ...	,,	...	...	...	...	1	+ 1
O. C., Q. O. Sap. and Miners, Bangalore ...	,, ...	,,	...	...	...	...	3	+ 3
O. C., S. Dn., R. A., Madras ...	,, ...	,,	...	...	...	...	1	+ 1
Sanitary Commissioner ...	,, ...	,,	...	...	...	1	...	— 1
Pay Examiner ...	,, ...	,,	...	...	...	...	...	+ 1

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

Department.	Description.	Class.	1891-92	1892-93	1893-94	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.
Accountant-General	Specie Silver.	Boxes.	411	45	95	95	17	— 78
	,, Copper.	,,	965	200	103	103	75	— 28
	,, Notes...	,,	6	13	8	6	4	— 2
	,, Packages	No.	4	1	1	1	1	...
Bank of Madras...	,, Silver...	Boxes.	34	...	...	...	...	...
,, ,, ...	,, Copper.	,,	...	62	84	84	45	— 39
Ordnance	Packages & Pieces.	No.	8,595	5,831	9,257	4,988	6,760	+ 1,772
Public Works Department ...	,, ...	,,	1,784	488	3,203	466	888	+ 422
Clothing ...	,, ...	,,	1,327	1,096	998	878	734	— 144
Police ...	,, ...	,,	889	974	955	769	886	+ 117
Salt Revenue ...	,, ...	,,	591	785	724	528	826	+ 298
Medical ...	,, ...	,,	1,377	1,610	2,166	1,381	641	— 740
Telegraph ...	,, ...	,,	8,845	4,330	4,945	2,671	2,639	— 32
Stationery ...	,, ...	,,	693	780	623	356	350	— 6
Stamps ...	,, ...	,,	220	298	236	159	161	+ 2
Commissariat ...	,, ...	,,	7,971	6,205	5,301	4,376	4,824	+ 448
Gazette Press ...	,, ...	,,	526	503	478	323	449	+ 126
Marine ...	,, ...	,,	390	366	37	30	85	+ 55
Revenue Board ...	,, ...	,,	77	37	87	86	67	— 19
Revenue Settlement	,, ...	,,	51	84	53	40	22	— 18
Revenue Survey...	,, ...	,,	75	452	223	206	120	— 86
Superintendent of Prisons ...	,, ...	,,	69	196	103	88	58	— 30
Registration ...	,, ...	,,	66	43	17	1	50	+ 49
Conservator of Forests ...	,, ...	,,	34	33	5	1	4	+ 3
Quarter-Master General ...	,, ...	,,	...	4	...	...	...	...
Government Central Museum ...	,, ...	,,	10	22	13	13	...	— 13
Deputy Collectors.	,, ...	,,	2	9	...	...	...	...
Government Astronomer ...	,, ...	,,	...	18	13	9	11	+ 2
Agriculture ..	,, ...	,,	15	8	2	2	...	— 2
General Hospital..	,, ...	,,	...	...	...	...	...	...
State Railways ...	,, ...	,,	100	...	...	...	...	...

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

Department.	Description.	Class.	1891-92.	1892-93.	1893-94.	Total for 9 months ending 31st December 1893.	Total for 9 months ending 31st December 1894.	Increase or Decrease as compared with corresponding period of last year.	
Govt. Botanists ...	,, ...	,,	...	...	...	...	37	+	37
Inspector of Cattle Diseases ...	,, ...	,,	3	1	...	...	...	...	...
Chemical Examiner.	,, ...	,,	...	1	...	...	...	...	...
Director of Public Instruction ...	,, ...	,,	19	6	13	13	1	+	12
Registrar of University ...	,, ...	,,	13	10	5	5	5	...	...
Collectors ...	,, ...	,,	10	...	6	6	...	—	6
Curator of Government Garden, Ooty	,, ...	,,	11	...	12	9	...	—	9
Engineer, H. T. Board ...	,, ...	,,	...	...	2	...	...	...	...
Crown Officer, High Court ...	,, ...	,,	14	18	5	5	...	—	5
School of Arts ...	,, ...	,,	...	...	...	...	...	...	...
Secretary to Government, Public Department ...	,, ...	,,	2	...	...	...	...	...	...
Registrar-General of Births, Deaths and Marriages ...	,, ...	,,	...	...	...	...	...	...	...
Inam Commissioner	,, ...	,,	1	...	...	...	...	...	...
Consulting Engineer to Government Railways.	,, ...	,,	20	...	...	...	...	...	...
Civil Engineering College ...	,, ...	,,	...	1	...	...	...	...	...
Superintendent, Census Operations.	,, ...	,,	...	4	1	1	...	—	1
	,, ...	,,	...	2	2	2	...	—	2
Post Office ...	,, ..	,,	...	2	2	2	...	—	2
Sanitary Commissioner. ...	,, ...	,,	...	...	...	...	22	+	22
Registrar of High Court ...	,, ...	,,	...	...	...	...	1	+	1
Supt., District Jail Bellary ...	,, ...	,,	...	...	...	...	52	+	52
Asst. Engr. D.P.W. Govt. Brick field	,, ...	,,	...	...	...	...	17	+	17
O/c. 6th Regt. M. I. Madras ...	,, ...	,,	...	...	...	..			

S. HUTCHENCE,
Traffic Manager,
Harbour Trust Board.

To

THE SECRETARY,
Harbour Trust Board, Madras.

MARINE DEPARTMENT.

FROM

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

To

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

DATED *20th February* 1895.

DESPATCHED 28th ,,

RECEIVED ,,

ENCLOSURES. The plans referred to by the Engineer—in duplicate.

No. 4177.

SUBJECT.

MADRAS HARBOUR.

Submitting report for quarter ending 31st December 1894, and bringing to notice that the balance of the sanctioned estimate is insufficient to complete the Harbour.

MADRAS HARBOUR WORKS

Report of Progress on the Madras Harbour Works for the Quarter ending 31st December 1894.

Accompanying this report are the following plans and statements :—

No. 38 (*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 outside the Harbour are those of the last complete Marine Survey of 1889, and the contours inside the Harbour are from the latest Survey of 1893.

2. The positions of the High Water Mark of 31st December 1893, and those of the previous twelve months, both to the North of the revetment and the South of the Harbour, are shown in comparison.

No. 38 (*b*) A revised plan showing in detail the advance made during the quarter at the Pier-heads as now being constructed, and the positions of the caissons for completing both the Piers of the Harbour with an Eastern Entrance of 520 feet.

No. 39 (*c*) A statement comparing the expenditure on different sub-heads of work up to end of the quarter, with the provisions of the sanctioned estimate.

No. 39 (*d*) A statement showing work done under different sub-heads and particulars of cement received and issued.

3. The various sub-heads of work, etc., throughout the Harbour Works are reported as follows :—

4. **North Pier-head.**—At the North Pier-Head, all work to be done during the quarter, October, November and December 1894, was above water-level, and due to the North-East Monsoon setting in, early in October, the concrete work in the capping, and building of the Lighthouse, had to be proceeded with continuously, at intervals when the weather appeared settled for a few days.

5. Fortunately there was no storm during the quarter, but the spray from the wave-breakers and rain, stopped all work for days together.

6. The North Pier Caisson was completed to the full height of 53 feet by the 7th October, and in five days from the 9th October, the Pier-Head, Lighthouse, and Tidal Observatory was built of concrete *en masse*.

7. To the close of the quarter, or in 24 working days, 257 lineal feet of capping × 38 feet wide × an average depth of 6½ feet, was completed, bringing up the finished height of the masonry wall to 13 feet above DeHavilland's Mean Sea Level, completing the North Pier-Head, to the sanctioned Design.

8. Early in December, the Self Registering Tidal Instruments, were erected in the Lower Chamber in the Lighthouse, and the Madras Tidal Observations were recommenced under most favourable conditions, which has met the approval of Colonel Hill, R. E. in charge of the Tidal and Levelling Operations of India.

9. **South Pier-head.**—Early in October, the state of the sea around the South Pier-Head, was just quiet enough to allow the divers to set in position the two last temporary courses required for compressing the caisson foundations, and this work was completed by the 13th October; or in 8 working days, 40 superstructure blocks were set, advancing the South Pier-Head by a length of 10-8½".

10. The crane was then withdrawn to shore for the monsoon.

11. By the 17th December the sea was calm and the water clearer, the crane was therefore run out to the end of the Pier to make an attempt at the removal of the old blocks, overthrown from the old Pier-Head; but the water was so thick below, and with so strong an under-current, that a diver cannot stand.

12. Dredging was therefore resorted to, to the close of the quarter, to undermine and overthrow the old blocks into deep water, where the divers have since been able to sling and raise over thirty of these blocks, which were left in a heaped up mass by the storm of 1881, and lying in the way of the caisson.

13. It is due to the general rough sea and these overthrown old blocks being left in such confusion by the storm which wrecked the Harbour, that the work of reconstruction has been so costly, difficult, and slow. Every block has had to be slung by two divers, securing it by a 1½" chain, 35 feet in length, which is as much as the men can handle even in quiet water, and most of these blocks were found half buried in the rubble, all of which had to be removed by hand as no Dredger could approach the blocks near enough, or into the interstices between the blocks to remove it

14. Where the blocks were heaped up, the Divers had to crawl through these interstices, in water thicker, and darker than the densest fog, to sling each block; and this could only be done when the sea was calm, and without any motion below; and therefore a new work, would have cost considerably less, and have been completed in much less time; but I am pleased to be able to report, at this date, that the last old block has been recovered, and this difficulty and delay, overcome.

15. Progress at the close of the quarter at the South Pier-Head, was as advanced as it was at the North Arm, in the corresponding quarter last year; so that the caisson will be set early in March 1895, or earlier if sufficient rubble base can be dredged up before then.

16. I should mention there will be greater difficulties to overcome in the setting of the South Pier Caisson, than I met with at the North Pier, due to more rubble base having originally been deposited than at the North Pier-Head; all of which has to be excavated seven feet deeper, and raised in boxes charged by Divers, as the mound of rubble to be removed is out of reach of the Crane, till the Caisson has been set.

17. The Caisson must, therefore, draw less water on being set consequently more temporary ballast in the form of blocks, will be required to hold it down; while the concrete filling is being put in, and there will be the additional risk of movement by wave motion while light, due to there being at this South Arm, no

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

Progress Statement No. 39 (*c*)

MADRAS HARBOUR WORKS.

Statement showing Progress during Quarter ending 31st December 1894, as shown on accompanying Tracings, Nos. 38 (a) and 38 (b).

No. of Item.	Particulars and Quantity of Work, &c.	Column	North Pier. Rubble Base. A	North Pier. Pier Head. B	North Pier. Wavebreaker. C	North Pier. Concrete Capping. D	North Pier. Base Protection. E	South Pier. Rubble Base. F	South Pier. Pier Head. G	South Pier. Wavebreaker. H	South Pier. Concrete Capping. I	South Pier. Base Protection. J	Railway Lines. At Works. K	Railway Lines. At Quarries. L	Railway Lines. Sand Line. M	Railway Lines. Beach Improvements. N	Railway Lines. Pallavaram Quarries Outturn. O	Railway Lines. Concrete Blockmaking. P	Protective Works Q	Total Expenditure. R
1	Rubble Stone dredged up from Base ... Tons	...	...	...	...	...	...	...	351	...	...	...	...	...	...	...	...	...	...	...
2	Do. redeposited in Base ... „	...	351	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Total quantity Rubble Stone received on Works „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Do. Blasted Chips do. „	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...
5	Concrete Blocks—Set by Divers ... Number.	...	...	...	...	...	...	...	40	...	...	...	...	...	...	...	...	...	...	...
6	Do. recovered from old Work „	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
7	Do. made for Superstructure „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Do. made at Pier Head in Situ „	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	Total out-turn of Concrete ... Cubic yards.	...	...	...	2,712¾	...	...	576	...	...	...	...	...	...	...	...	...	...	...	...
10	Advance or progress of completed capping ... Ry. feet.	...	...	...	257	...	...	...	109	...	...	...	...	...	...	...	...	...	...	...
11	Do. do. superstructure „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Rubble Base protected with Concrete „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	Metre Gauge, 40 lbs. per yard laid new „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Do. do. relaid or renewed „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	Do. do. taken up „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	Broad Gauge, 50 lbs per yard laid „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	Do. do. relaid or renewed „	...	100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Do do. taken up „	...	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Titan Gauge, 75 lbs. per yard laid new „	...	...	...	...	...	...	...	332	...	...	...	...	...	...	...	...	...	...	...
20	Do. do. relaid or renewed „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	Do do. taken up „	...	260	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22																				
23																				
24	Approximate Expenditure under Sub-heads of Work ... Rupees...	...	...	...	31,626	...	...	...	28,466	...	70	...	...	...	...	...	...	...	...	60,162

NOTE.—The Figures in **red** denote for comparison progress and quantity of work done in quarter ending 31st December 1893.

		Tons.	Cwts.	Qrs.	lbs.		Tons.	Cwts.	Qrs.	lbs.
	Casks of Cement received on Works during Quarter ending 31st Dec. 1894 containing ...	...	...	...	...	Quantity due on Indents.				
2,200¼	Do. do. issued for do. do. do. ...	...	392	18	0	5	8,400 Casks	1,500	...	...	...
6,045¼	Do. do. Balance in Store at end of do. do. ...	...	1,079	11	5	7				

A. LEE POGSON,
Engineer, Harbour Trust Board.

MADRAS, *4th February* 1895.

1880

old Pier-Head left to afford the shelter which was rendered to the North Pier caisson while in this condition; by the standingportion of the old damaged North Pier-Head.

18. The Caisson for the South Pier-Head was erected to a height of 23 feet and made water-tight inside the small basin built for the purpose, which was pumped dry by No. 7½ Pulsometer provided for the purpose.

19. The Arms protecting this small Dock from the surf during the building of the Caisson were temporarily extended until a sufficient depth of water was obtained, and on Sunday, the 6th January 1895, the Caisson was successfully launched, through the surf, and towed to the North Arm where it is being charged with concrete and built to the full height of 53 feet and will be set in position early in March, or as soon as the work at the South Pier-Head can be made ready to receive it.

20. **Protective Works North of the Harbour.**—No further settlement along the line of revetment, above water level, could be detected during the Quarter.

21. The Bay at the end of the revetment increased slightly to the 10th October after which date, with the setting in of the North East Monsoon, further scouring ceased, and the High Water Mark advanced by 200 feet to the close of the quarter.

22. **Foreshore South of the Harbour.**—The High Water Mark to the South of the Harbour has receded, or a scour of 150 to 160 feet has taken place during the quarter, September to December 1894; which has left the foreshore at an unnatural steep slope, which from the first rough sea in the monsoon, must level down to its natural slope, when the High Water Mark will return shorewards or nearer to the line of the High Water, recorded in December 1893.

23. **Sea Bottom within the Harbour.**—The High Water line within the Harbour, has considerably receded along the Southern half of the foreshore during the quarter, and was inshore of the High Water Mark of September 1893; showing a maximum decrease of foreshore during the quarter of 90 feet near the South Pier.

24. Throughout the length of the foreshore along the North half of the Harbour, the High Water line has advanced 20 feet, which accretion is about equivalent to the erosion to the Southern half of the Harbour, showing the usual shifting foreshore, due to the change of the monsoon, but no permanent advance.

26. **Expenditure.**—The expenditure to the end of the quarter including Establishment. Tools and Plant and Contingencies is ... ... Rs...1,24,06,966

Out of the total estimated cost of ...1,23,83,386
Add recovery on Tools and Plant ... 2,77,331

leaving a Balance of 2,53,751
to be spent for completion, or work to be done.

27. **Miscellaneous.**—The usual repairs and the upkeep of all machinery, cranes Railway lines, etc., 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,
4th February 1895.

+ Total Expenditure — Rs 1,24,06,966
Sanctioned Estimate — Rs 1,23,83,386
Excess — 23,580

Anticipated recovery — Rs 2,77,331
Deduct excess — 23,580
Bal. available for Expenditure — 2,53,751

6 Mar 95

[G/9]
2,000—23-1-95.

P. W. CURRENT No. 1694

Endt d/4-3-1895 No-444
Transferred to the
Public Works Department
Fredericksburg
Chief ~~Secretary~~ Secretary.

Current No. 1694

~~Department.~~

From

The Chairman
Harbour Trust Bd
Madras

No. 4177

Dated 20. 2. 95

Received 24/2
Reg 25/2

Enclosures 25c
& 2 plans in
dup:

SUBJECT.

Subm^d report for quarter ending 31st Dec. 94 & bringing to notice that the balance of the Sanc^d estimate is insufficient to complete the Harbour:

No. 718 W of 13-3-91
" 719 W " 13-3-91
" 1422 W " 25-5-91
" 720 W " 13-3-91
" 1966 W " 23-7-91
" 1967 W " 23-7-91
" 430 W " 12-2-92
" 3248 W " 18-12-94
" II " 18-12-94
3248 W

Endd 2 plans (1st & 4th)
Recd: 5-3-95

PUBLIC WORKS DEPARTMENT.

No. 691 W. dated 22nd March 1895.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Endorsement on the Marine Department on letter from the Chairman Harbour Trust Board, Madras, No 4177 of 20th February 1895 } (A E No 444 of 4th March 1895)

21 Pur

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

It would appear that the latest sanctioned estimate for the works is likely to be exceeded. The revised estimate called for by the Board will be awaited. It should be accompanied by full explanation as to the causes of the excess.

W/9 Mar

× G.O. 430 W of 12 Feb 92

Dtd 5/3/95

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

Copy

(40—1,000—21-4-94.)

No 692 W. dated 22nd August 95

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

To 2 692 W dy 22-3-95

The Right Honorable
the Secretary of State
for India

Rt. Honorable Sir,

In continuation of our despatch No 11 3248 W dy 18th December 1894, we have the honor to forward the progress report of the Madras Harbour Works for the quarter ending 31st December 1894. The report is accompanied by two plans showing the position and quantity of work done during the quarter.

It will be observed that an excess over the sanctioned estimate of the works is now anticipated. Information as to the causes

* Calling for information as to the amount required for the completion of the works. (Paper disposed of separately)

causes of this excess has been called for, and will in due course be laid before you - when your despatch No 2 Public Works dated 4th February 1895 which has since been received, will be formally replied to.

220

CWB
6/95

Despatch
26/3

SG

H.E.

Progress Report of the Madras Harbour Works for the quarter Ending 31st Dec 94

23