

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—the following papers:—

G.O., dated 24th April 1886, No. 1053 W., Public Works.

Read—the following papers:—

From the Master Attendant, Administrative Department, No. 2930, dated 31st March 1886.

Endorsement thereon by the Marine Department, No. 630-C., dated 9th April 1886.

Order—dated 24th April 1886, No. 1053 W., Public Works.

The estimate, amounting to Rs. 1,254, for setting up the new fourth order dioptric light at the Hope Island lighthouse, is reduced to Rs. 954 with reference to the remarks of the Master Attendant in his letter above recorded, and sanction is accorded to the reduced amount.

Works	RS.	2. The question of providing funds, as shown in the margin, will be considered in the Financial Department.
Establishment	954	
Tools and Plant	219	
	10	3. This sanction has been registered as Excluded Local No. 3 W., of 1886-87 and classified as Miscellaneous Public Improvements, Original Works.
Total ..	1,183	

(True Extract.)

(Signed) A. W. SMART, Captain, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, I Circle,
with two enclosures.
„ Examiner, Public Works Accounts, with the estimate for
note and return to Superintending Engineer, I Circle.
„ Financial Department.
„ Marine Department.

From J. H. TAYLOR, Esq., Lieut., R.N.R., Master Attendant, to the Chief Secretary to Government, dated Madras, 20th May 1886, No. 4496.

Administrative Department.

In returning G.O., Public Works Department, No. 1053 W., dated 24th ultimo, forwarded with your endorsement, No. 714-C, dated 3rd instant, I have the honor to state that the sum of Rs. (1,183) one thousand one hundred and eighty-three, required

for meeting the charges in connection with the setting up of the new fourth order dioptric light at the Hope Island lighthouse, may be allotted from the available balance of the General Port Fund.

ORDER—dated 29th May 1886, No. 469, Financial.

A grant of Rs. 1,183 from Port Funds is made accordingly to the Public Works Department.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the Public Works Department.
„ Marine Department.
„ Master Attendant, Madras,
„ Accountant-General.

No 1518 Wd/15 June 1886

Communicated
to the Suptg. Engr
I Circle & the Exr.
P.W. Accts.

(sd) J.S.S.

Govt. of (1886) Madras.
FINANCIAL.

Issued

Recd. Encl.

G.O., 29th May 1886, No. 469.

No 1518 Wd/15 June 1886

MAY.

Lighthouses.

Sanctioning a grant of Rs. 1,183 from Port Funds to the Public Works Department for setting up the new light at Hope Island.

To.
S.E. I Circle
Exr. P.W. Accts.

With order

29TH JUNE 1886, Nos. 348, 349, MARINE.

GOVERNMENT OF MADRAS.
MARINE DEPARTMENT.

READ—the following paper :—

From J. H. TAYLOR, Esq., Lieut., R.N.R., Master Attendant, Madras, to the Chief Secretary to Government, dated Madras, 17th June 1886, No. 5322.

Administrative Department.

I have the honor to forward the annual report on the Madras lights for the official year 1885-86. In order to avoid further delay in its transmission, I was compelled to close the statement of expenditure annexed thereto without waiting for the supplemental statement of expenditure on account of repairs, &c., in connection with lighthouses and other marine buildings from the Examiner, Public Works Accounts, on hearing from him that he could not close his books before the 15th July next, and that he could not therefore furnish the supplemental statement at once.

ENCLOSURES.

REPORT on the Lights of the Madras Presidency for the Official Year 1885-86.

During the official year 1885-86 the general efficiency of the lights was maintained throughout except at Pámban, which will be noticed further on. The Chief Engineer, Public Works Department, and the Master Attendant, Madras, the two inspecting officers of lighthouses appointed by Government, inspected most of the lights, and it was pointed out in the report submitted by the Chief Engineer that it was impossible to carry out properly the duty in question owing to a suitable steamer not being provided for the conveyance of the inspecting officers. Such lighthouses as had not been visited were to be inspected by the Superintending Engineers in company with the Port officers concerned. On the recommendation of the Chief Engineer, Public Works Department, and the Master Attendant, Madras, the following were the most important improvements, &c., ordered by Government to be carried out. The Hope Island light was to be replaced by a new 4th order dioptric, white, fixed light. The Government of India was requested to call the attention of the Right Honorable the Secretary of State to the requisition which had been submitted for a 2nd-class light for the Santopilly lighthouse. Permanent buildings were sanctioned to be erected for the lascars attached to the Pulicat and Armeghon lighthouses at a cost of Rs. (3,640) three thousand six hundred and forty, and similar quarters ordered for the lightkeepers at Vakalapudi. A general examination and testing of the lightning conductors of the different lighthouses were to be carried out. It was noted in the Chief Engineer's report that complaints were made of the strength of the Pámban light and the lamp probably required more attention. The Port officer in charge of the light was duly communicated with by the Master Attendant, Madras, so as to ensure proper attention being paid to the burning of the light, and no further grounds were given for complaints. Owing to the recent wrecks on the Tripaloro reef the Master Attendant, Madras, urged the advisability of placing a light on the spot to warn vessels off the danger, and recommended the Seven Pagodas as the best site for the new light. The 4th order dioptric light exhibited at Santopilly was to be utilized for the Seven Pagodas light, a new 2nd order light having been sanctioned for Santopilly. The lights of this Presidency are distributed as shown below and their establishments comprise four Superintendents on Rs. 70, three on Rs. 100, and one on Rs. 125, besides seventy-eight Assistant Superintendents and lightkeepers whose salaries range at Rs. 21, 15, 12, 11, 10, 9, 8, 7, and 6 per mensem. The total expenditure for the year on account of establishments and other charges amounted to Rs. 31,610-8-5, viz., establishments

Rs. 16,676-12-6; contingencies Rs. 8,307-15-1; and Public Works charges Rs. 6,625-12-10. Kerosene oil is used by most of the lighthouses, and cocoanut oil by the rest, three in number. The average annual cost of kerosene and cocoanut oil for each light was Rs. 144 and Rs. 997-8-4 respectively:—

East Coast Lights.

1. Gopálpur	..	Flagstaff	..	3rd Order	..	Country made.	Fixed	..	White.
2. Calingapatam	..	Lighthouse	..	3rd Do.	..	Do.	Do.	..	Do.
3. Santopilly	..	Do.	..	4th Do.	..	Dioptric	Do.	..	Do.
4. Vakalapudi	..	Do.	..	4th Do.	..	Catoptric	Revolving	..	Do.
5. Hope Island	..	Do.	..	1st Do.	..	Country made.	Fixed	..	Do.
6. Masulipatam	..	Flagstaff	..	6th Do.	..	Dioptric	Do.	..	Do.
7. Point Divi	..	Lighthouse	..	4th Do.	..	Do.	Do.	..	Do.
8. Armeghon	..	Do.	..	4th Do.	..	Do.	Flashing	..	Do.
9. Pulicat	..	Do.	..	4th Do.	..	Do.	Fixed	..	Do.
10. Madras	..	Do.	..	English Cata-	..	Reciprocating.	Flashing	..	Do.
				dioptric.					
11. Negapatam	..	Do.	..	4th Order	..	Dioptric	Fixed	..	Do.
12. Pámban	..	Do.	..	4th Do.	..	Catadioptric	Do.	..	Do.
13. Tuticorin	..	Do.	..	4th Do.	..	Dioptric	Do.	..	Do.

West Coast Lights.

14. Muttum	..	Lighthouse	..	1st Order	..	Dioptric	Fixed	..	White.
15. Cochin	..	Do.	..	4th Do.	..	Catadioptric	Do.	..	Do.
16. Beypore	..	Flagstaff	..	A globular	..	..	..	..	Red.
				lantern.					
17. Calicut	..	Lighthouse	..	4th Order	..	Dioptric	Fixed	..	White.
18. Tellicherry	..	Do.	..	6th Do.	..	Do.	Do.	..	Do.
19. Cannanore	..	Do.	..	6th Do.	..	Do.	Do.	..	Red.
20. Mangalore	..	Do.	..	4th Do.	..	Do.	Do.	..	White.

STATEMENT of expenditure of Lighthouses of the Madras Presidency for 1885-86.

	Amount.			Total.		
	RS.	A.	P.	RS.	A.	P.
<i>Gopálpur Light.</i>						
One Assistant Superintendent	..	..	..	120	0	0
Two Lascars	..	..	..	192	0	0
Oil	..	..	..	170	0	0
Stores	..	..	..	9	8	0
Contingencies	..	..	..	31	13	1
				523	5	1
<i>Calingapatam Light.</i>						
One Assistant Superintendent	..	..	..	120	0	0
Two Lascars	..	..	..	192	0	0
Oil	..	..	..	59	10	0
Stores	..	..	..	85	8	0
Contingencies	..	..	..	21	5	6
				478	7	6
<i>Santopilly Lighthouse.</i>						
One Superintendent	..	..	..	840	0	0
One Assistant Superintendent	..	..	..	180	0	0
Four Lascars	..	..	..	360	0	0
Oil	..	..	..	93	8	0
Stores	..	..	..	..	..	..
Contingencies	..	..	..	7	15	0
Public Works charges for repairs	..	..	..	142	0	0
				1,623	7	0

Amount.
RS. A. P.

Total.
RS. A. P.

Vakalapudi Lighthouse, Cocanada.

One Superintendent	..	..	..	1,289	10	8
One Assistant Superintendent	..	..	..	161	14	10
Four Lascars	..	..	..	360	0	0
Oil	..	..	..	85	0	0
Stores	..	..	..	53	4	0
Contingencies	..	..	..	62	8	0
Public Works charges for repairs	..	..	..	318	15	0
				2,331	4	6

Hope Island Lighthouse.

One Superintendent	..	..	..	840	0	0
One Assistant Superintendent	..	..	..	144	0	0
Four Lascars	..	..	..	372	0	0
Oil	..	..	..	1,275	7	0
Stores	..	..	..	52	5	0
Contingencies	..	..	..	662	7	0
Public Works charges for repairs	..	..	..	137	15	10
				3,484	2	10

Masulipatam Light.

Two Lascars	..	..	..	168	0	0
Oil	..	..	..	102	0	0
Stores	..	..	..	5	3	0
Contingencies	..	..	..	15	12	0
				290	15	0

Point Divi Lighthouse.

One Superintendent	..	..	..	840	0	0
Five Lascars	..	..	..	427	15	6
Oil	..	..	..	204	0	0
Stores	..	..	..	33	3	0
Contingencies	..	..	..	52	10	11
Public Works charges for repairs	..	..	..	601	6	5
				2,159	3	10

Armeghon Lighthouse.

One Superintendent	..	..	..	1,200	0	0
Five Lascars	..	..	..	396	0	0
Oil	..	..	..	127	8	0
Stores	..	..	..	85	3	0
Contingencies	..	..	..	48	10	2
Public Works charges for repairs	..	..	..	1,303	13	4
				3,161	2	6

Pulicat Lighthouse.

One Superintendent	..	..	..	919	1	4
Five Lascars	..	..	..	396	0	0
Oil	..	..	..	170	0	0
Stores	..	..	..	69	14	0
Contingencies	..	..	..	113	9	0
Public Works charges for repairs	..	..	..	363	0	3
				2,031	8	7

Madras Lighthouse.

One Superintendent	..	..	..	*1,500	0	0
One Assistant Superintendent	..	..	..	252	0	0
Four Lascars	..	..	..	504	0	0
One Sweeper	..	..	..	12	0	0
One Washerman	..	..	..	12	0	0
One Toty	..	..	..	12	0	0
Oil	..	..	..	1,657	8	0
Stores	..	..	..	214	5	6
Contingencies	..	..	..	30	8	0
				4,194	5	6

* Including house-rent Rs. 25 per mensem.

	Amount.			Total.		
	RS.	A.	P.	RS.	A.	P.
<i>Negapatam Lighthouse.</i>						
One Assistant Superintendent	120	0	0			
Two Lascars	180	0	0			
Oil	85	0	0			
Stores	18	2	0			
Contingencies	16	4	7			
				419	6	7

<i>Pamban Lighthouse.</i>						
One Assistant Superintendent	120	0	0			
One Lascar	94	0	0			
Oil	127	8	0			
Stores	395	6	0			
Contingencies	68	2	2			
				805	0	2

<i>Tuticorin Lighthouse.</i>						
One Assistant Superintendent	144	0	0			
Four Lascars	360	0	0			
Oil	42	8	0			
Stores	29	12	0			
Contingencies	37	3	0			
				613	7	0

<i>Muttum Lighthouse.</i>						
One Superintendent	1,500	0	0			
One Head Lightkeeper	180	0	0			
Four Lascars	336	0	0			
Oil	510	0	0			
Stores	227	6	0			
Contingencies	197	15	9			
Public Works charges for repairs	3,758	10	0			
				6,709	15	9

<i>Cochin Lighthouse.</i>						
One Assistant Superintendent	144	0	0			
Two Lascars	201	0	0			
Oil	255	0	0			
Stores	6	14	0			
Contingencies	15	2	4			
				622	0	4

<i>Calicut Lighthouse.</i>						
One Assistant Superintendent	120	0	0			
Three Lascars	276	0	0			
Oil	127	8	0			
Stores	12	6	0			
Contingencies	26	7	11			
				562	5	11

<i>Beypore Lighthouse.</i>						
One Lightkeeper	120	0	0			
Oil	42	8	0			
Stores	46	0	0			
Contingencies	3	12	0			
				212	4	0

<i>Tellicherry Light.</i>						
One Assistant Superintendent	120	0	0			
Two Lascars	180	0	0			
Oil	85	0	0			
Stores	7	3	0			
Contingencies	22	7	3			
				414	10	3

	Amount.			Total.		
	RS.	A.	P.	RS.	A.	P.
<i>Canndnore Lighthouse.</i>						
One Assistant Superintendent	120	0	0			
One Lascar	95	0	0			
Oil	136	0	0			
Stores	7	2	0			
Contingencies	15	9	6			
				373	11	6

<i>Mangalore Lighthouse.</i>						
One Assistant Superintendent	110	0	0			
Four Lascars	346	2	2			
Oil	85	0	0			
Stores	13	4	0			
Contingencies	45	6	5			
				599	12	7
Total ..	31,610	8	5			

LIST OF LIGHTS IN THE

Names of lights.	Location.	Position.		Color of lights.	Fixed, flashing, intermitting, alternating or revolving.	Interval of revolution or flash.	Miles visible in clear weather.	Height in feet of centre of lantern above high water.
		Latitude.	Longitude.					
		N. DEG. M. S.	E. DEG. M. S.				MILES.	FEET.
Gopálpur ..	On mainland sixty yards from low-water mark.	19 13 0	84 52 0	White.	Fixed..	..	10	85
Calingapatam ..	On the Point ..	18 19 0	84 7 30	Do. ..	Do. ..	..	8	68
Santopilly ..	On Santopilly Hill, three-quarters of a mile inland.	18 4 56	83 37 35	Do. ..	Do. ..	..	14	169
Cocanada (Vakalapudi.)	Four-and-three-quarter miles north of Cocanada river, 500 yards from the shore.	17 0 40	82 16 30	Do. ..	Revolving.	A flash every 10 seconds.	14	80
Coringa or Hope Island.	On the southern part of Hope Island and distant about two-and-a-half miles from the sea.	16 49 5	82 18 58	Do. ..	Fixed.	..	10 to 12	83
Masulipatam ..	In the Fort..	16 9 15	81 9 25	Do. ..	Do. ..	..	6	69
Point Divi ..	Two miles N. W. of Point.	15 58 55	81 9 25	Do. ..	Do. ..	..	14	48½
Arneghon or Arnaogham.	Mainland, village of Moona or Moona-polium.	13 53 8	80 11 47	Do. ..	Flash-ing.	A flash every 20 seconds.	14	107
Pulicat ..	Near the beach ..	13 25 15	80 19 6	Do. ..	Fixed..	..	14	68
Madras ..	On Esplanade north of the Fort.	13 5 11	80 16 51	Do. ..	Flash-ing.	Light has five faces, and every minute one face flashes towards the same spot, but three faces are presented seaward at one time.	20	128
Negapatam ..	On bastion..	10 45 30	79 50 20	Do. ..	Fixed.	..	14	79½
Pámban Pass ..	On a sand hill about one mile east of northern channel.	9 17 14	79 12 38	Do. ..	Do. ..	..	14	97
Tuticorin ..	North extreme of Hare Island or Paundiantivo, 2½ miles east of Tuticorin.	8 47 10	78 11 20	Do. ..	Do. ..	..	14	85
Muttum (Cadiapatam.)	A rocky promontory known as "Muttum Point."	8 7 30	77 18 10	Do. ..	Do. ..	..	20	132

MADRAS PRESIDENCY.

Height in feet of building from base to vane.	Arc of illumination (bearings are magnetic and from seaward).	Nature of construction, color, or any peculiarity of light-house.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
FEET.					
..	180°, or the whole sea horizon.	Flagstaff painted white.	Third-class, country-made.	1871.	Intended as a guide to vessels making the anchorage at night, and exhibited at the special requisition of Commanders of the British India Steam Navigation Company's mail steamers.
73	..	Obelisk of cut stone, column white, capital dark blue.	Do. ..	15th December 1876.	Intended to warn vessels off a small reef which projects from the Point, and which should not be passed in less than eight fathoms when making the port at night.
31	180°, facing S.E.	On the roof of a house.	Dioptric, order.	4th 1st November 1849; improved 1871.	Exhibited to warn mariners off the Santopilly Rocks, from which this light bears N.W. ½ W., distance 6½ miles.
76	In every direction seaward.	White column..	Catoptric, order.	4th 15th January 1879.	This light is intended to lead vessels clear of the shoals to the northward of Point Godáviri when coming into the Cocanada anchorage from the southward and eastward.
94	All round the compass.	Masonry tower, horizontal alternate bands of black and white.	Country-made, with brass reflectors.	1817.	Intended to lead vessels clear of the rocks and shoals off Godáviri Point.
112	180°	Flagstaff ..	Dioptric, order.	6th 1858; improved 1870.	As a guide for vessels to the anchorage.
50	225°, or from north through west to south-west.	Masonry column white.	Dioptric, order.	4th 1st May 1851; improved 1870.	Is intended to point out the position of the danger.
111	180°, or the whole sea horizon.	Do. ..	Do. ..	1st January 1853; improved 1881.	Warns vessels off the Arneghon shoal, the shoalest part, of which (1¼ fathoms) lies six miles off shore.
57	180°, or the whole sea horizon.	Masonry column white with black bands.	Do. ..	1859; altered 1881.	To guide vessels clear of the Pulicat shoal. When the light bears W. ½ N., a vessel is to the northward of all dangers.
125	310°, facing east.	Granite column.	Catadioptric ..	1st January 1844.	To guide vessels clear of the Pulicat shoal and into the roadstead. Mariners should not bring this light to southward of S.S.W. ½ W. to avoid Pulicat shoal.
83	180°, or the whole sea horizon.	Masonry column white.	Dioptric, order.	4th 1st August 1846; improved 1870.	As a guide for vessels to the anchorage.
72	All round the compass.	Circular masonry column.	Catadioptric, 4th order.	21st April 1846; improved 1860.	Is a guide to vessels making for the Pámban channel.
91	All round the compass.	Sandstone column, colored brown, lantern white.	Do. ..	15th May 1845; improved 1874.	As a guide for vessels to the anchorage.
72	All round ..	Dark grey granite column.	First order, dioptric.	1st January 1883.	This light, in the territory of Travancore, is intended to mark the vicinity of the Crocodile rock.

LIST OF LIGHTS IN THE

Names of lights.	Location.	Position.		Color of lights.	Fixed, flashing, inter-mitting, alternating, or revolving.	Interval of revolution or flash.	Miles visible in clear weather.	Height in feet of centre of lantern above high water.
		Latitude.	Longitude.					
		N. DEG. M. S.	E. DEG. M. S.				MILES.	FEET.
Cochin ..	On a small mound which formed a bastion of the old fort to the south of the harbour.	9 57 47	76 13 45	White.	Fixed.	..	15	100
Calicut ..	On the sandy beach	11 15 5	75 45 35	Do. ..	Do. ..	..	14	102
Beyport ..	Near the beach ..	11 10 0	75 47 0	Red ..	Do. ..	..	5	60
Tellicherry ..	On the fort wall near the beach.	11 44 50	75 28 30	White.	Do. ..	..	8	70
Cannanore ..	On the fort rampart near the beach.	11 51 10	75 21 45	Red ..	Do. ..	..	6 to 8	64
Mangalore ..	On a hill above the town, and near some high trees.	12 52 17	74 50 8	White.	Do. ..	..	14	240

MADRAS PRESIDENCY—continued.

Height in feet of building from base to vane.	Arc of illumination (bearings are magnetic and from seaward).	Nature of construction, color, or any peculiarity of lighthouse.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
FEET. 91	270°	White laterite column.	Catadioptric, 4th order.	1st April 1839; improved 1868.	Harbour light. During the S.W. monsoon, when Cochin port is avoided by shipping, a small light is exhibited from a flagstaff at Narakel, about five miles to the northward of Cochin.
98	180° seaward ..	White column ..	Dioptric, 4th order.	1847; improved 1881.	To guide vessels to the anchorage clear of the reef, which lies about one mile S. 30° W. from the light. A small red light is exhibited from the head of the pier as a guide for small coasting craft when entering the port.
..	180°	Flagstaff ..	Globular lantern.	17th February 1883.	As a guide for vessels to the anchorage.
..	158°, or between the bearings of S.E. by E. and N.W. by N.	Small masonry tower.	Dioptric, 6th order; Chance's port or signal light.	1835; improved 1881.	Harbour light.
25 from the rampart.	180°	Small masonry tower of a light yellow color.	Dioptric, 6th order.	17th October 1843; improved 1880.	Do.
65	180°	Small white masonry tower.	Dioptric, 4th order.	1st October 1842; improved 1870.	As a guide for vessels to the anchorage.

ORDER—dated 29th June 1886, No. 348, Marine.

Ordered to be forwarded to the Government of India.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the Port Officer, Madras.

ENDORSEMENT—dated 29th June 1886, No. 349, Marine.

Five copies forwarded to the Government of India, Department of Finance and Commerce.

E. F. WEBSTER,
Chief Secretary.

N. 412 Waj 16.7.86. Ch 5458

Hope Island Lighthouse

Letter from the S.E.I

Circle requesting that the
allotment for the Goddard

Railway station under

Included Local Port

Funds Repair for 1886-87

may be increased to Rs 1570

instead of Rs 1429 applied

for in the Incomplete

Works statement of—

transferred to the Financial

dept.

No. 1855 W.d/22 July 1886

Order thereon

Communicated to
Superintending Engineer
concerned, for informa-
tion.

(Ltr) S.S.I.

Govt. of (1886) Madras.

MARINE.

Issued

Recd.

Encl.

G.O., &c., 29th June 1886,
Nos. 348, 349.

B.No. 1855 W.d/22 July 1886

JUNE.

Lighthouses.

Directing that the annual report on lights in the
Madras Presidency for the official year 1885-86
be forwarded to the Government of India.

24TH APRIL 1886, No. 1053 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. H. TAYLOR, Esq., Lieutenant, R.N.R.; Master
Attendant, Administrative Department, Madras, to the Chief Secretary to
Government, dated 31st March 1886, No. 2930:—

With reference to the G.O. as per margin, I have the honor to submit the
accompanying plan and estimate, amount-
ing to Rs. 1,254, for setting up the new
4th order dioptric light at the Hope Island
light-house. There is an item of Rs. 300 in the estimate for extra scaffolding for
temporary lanterns, which will not be necessary, as it has already been notified that
the light will be extinguished while the new lantern is being fitted. Less this
amount, I beg to recommend the estimate for early sanction, the expenditure to be
debited to Port Funds, Cocanada.

No 630 C., Marine.

Approved, and transferred to the Public Works Department.

(By Order.)

(Signed) E. S. LAFFAN,
Under Secretary.

9th April 1886.

ORDER—dated 24th April 1886, No. 1053 W., Public Works.

The estimate, amounting to Rs. 1,254, for setting up the new 4th order dioptric
light at the Hope Island light-house, is reduced to Rs. 954 with reference to the
remarks of the Master Attendant in his letter above recorded, and sanction is accorded
to the reduced amount.

Works	...	...	...	...	Rs. 954	2. The question of providing funds, as shown in the margin, will be considered in the Financial Department.
Establishment	...	...	...	...	219	
Tools and Plant	...	...	...	...	10	3. This sanction has been registered as Excluded Local, No. 3 W. of 1886-87, and classified as Miscellaneous Public Improvements, Original Works.
Total	...	...	...	...	1,183	

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, I Circle, with two enclosures.
" Examiner, Public Works Accounts, with the estimate for note and
return to Superintending Engineer, I Circle.
" Financial Department.
" Marine "

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated April, 24th.

Recd.

Encl.

G.O., 24th April 1886, No. 1053 W.

APRIL.

Hope Island Light-house

An estimate of Rs. 954 for setting up the new 4th order dioptric light at the — sanctioned.

Marine Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Telegram from the Master Attendant dated 14th April 86.

Superintending Engineer Godavari requests early return estimate for Hope Island light-house also grant of funds vide my No. 2930 March 31st, please issue orders.

Order 15th April 86. No. 190 Mr.

The following telegram will be despatched to the Master Attendant, Madras.

"Your telegram fourteenth, Estimate for Hope Island Light-house approved and transferred Public Works Department."

+ No. 630 C-9-4-86-

Put up with
Chs 2860 sent
to only on the

17 Inst.

(Two Extract.)

Justin McCarter
Chief Secretary

Copy to P.W. Department.

P.W.C. No. 3009 ✓

No. 1136 W a / 5th May 1886

B

Recorded
Recorded

With reference to
with refce to
G.O. No. 1053 W
G.O. No. 1053 W
dated 24-4-86.
8/24/4/86.

Recd. 19/4/86.

5/5/86

No. 1136 W a / 5th May 1886

24TH APRIL 1886, No. 1053 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. H. TAYLOR, Esq., Lieutenant, R.N.R., Master Attendant, Administrative Department, Madras, to the Chief Secretary to Government, dated 31st March 1886, No. 2930:—

With reference to the G.O. as per margin, I have the honor to submit the accompanying plan and estimate, amounting to Rs. 1,254, for setting up the new 4th order dioptric light at the Hope Island light-house. There is an item of Rs. 300 in the estimate for extra scaffolding for temporary lanterns, which will not be necessary, as it has already been notified that the light will be extinguished while the new lantern is being fitted. Less this amount, I beg to recommend the estimate for early sanction, the expenditure to be debited to Port Funds, Cocanada.

No 630 C., Marine.

Approved, and transferred to the Public Works Department.

(By Order.)

(Signed) E. S. LAFFAN,
Under Secretary.

9th April 1886.

ORDER—dated 24th April 1886, No. 1053 W., Public Works.

The estimate, amounting to Rs. 1,254, for setting up the new 4th order dioptric light at the Hope Island light-house, is reduced to Rs. 954 with reference to the remarks of the Master Attendant in his letter above recorded, and sanction is accorded to the reduced amount.

				rs.	2. The question of providing funds, as shown in the margin, will be considered in the Financial Department.
Works	...	...	...	954	
Establishment	...	...	...	219	
Tools and Plant	...	...	...	10	
Total ...				1,183	3. This sanction has been registered as Excluded Local, No. 3 W. of 1886-87, and classified as Miscellaneous Public Improvements, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, I Circle, with two enclosures.

„ Examiner, Public Works Accounts, with the estimate for note and return to Superintending Engineer, I Circle.

„ Financial Department.

„ Marine

Exd. E. Fernandez.

Spare Copies

24/5/86. 24/5/86. 24/5/86.

Entered in Port Books

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated April, 24th.

Recd.

Encl.

G.O., 24th April 1886, No. 1053 W.

APRIL.

Hope Island Light-house

An estimate of Rs. 954 for setting up the new 4th order dioptric light at the — sanctioned.



N^o 34 Dd April 19 1886 PWD
Deferred

Telegram

To the Suply Engr T Circle
Dow laishwaram.

Estimate for
Hope Island light
sanctioned for Rupees
954. Rupees 300
for extra scaffolding
struck out — Commence
work in anticipation
allotment.

Orders follow.

ll
19-4-86

cu

des^d 19/4/86

No. 4879.2.

FROM,

THE SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER *Marine Department*
FOR IRRIGATION.

DOWLAISHWARAM, 2nd June 1886.

Dep't 3rd June 1886.

SIR,

I have the honor to report that I made a thorough inspection on the 1st Instant, of the Hope Island Light house new Lantern, which was set up between the 1st and 23rd of May last and have much pleasure in reporting ~~that~~ ^{being} the work has very satisfactorily Completed, which reflects great Credit on all Concerned, for the time allowed was very short. — only 22 days.

2.2 I must however take exception to the lamp provided by the Marine Department, which happens to be a small sized

N^o 34 Dd April 19. 1886.

Dupleix lamp, which does not
produce a strong enough light
in our opinion.

3 I believe the Port Officer has
not yet received any reports from
the Steamer Officers as to the
extreme limit of its lighted rays
but I think I may confidently
predict, that the light will not
be found any stronger or brighter
than the Catoptre light lately
taken down. There can be no
apparent reason for the Marine
Department supplying a 3^d rate
lamp, when incurring the expense
of setting up a more expensive
class of Lanthorn.

I have the honor to be

Sir

Your most obed^t. Serv^t
Yours &c &c Major R. E.
Suptg. Genl. Office

of the lamp
into

34 2 19 4 26.
1053 24 4 26

FROM, *Mch 4420*
THE SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO, *(4)*
THE CHIEF ENGINEER
FOR IRRIGATION.
P.W. Department

DATED *2nd*
DESPATCHED *3rd*
RECEIVED *10* June 1886

No. 4879.D.

ENCLOSURES. Nil

No. 1512 W. d/ 15 June 1886

Hope island Light
House new lantern.

Reports on the — after
a thorough inspection
of the.

*into RR
2/6*

Marine Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following letter

from the Port Officer, Madras, 7³⁰ June
1886. no: 5795.

*No. 322 Misc 2
19 June 1886.*

With reference to the G.O as
per margin, I have the honor to observe that
the structures of the Superintending Engineer
regarding the lamp of the new Hope
Island light house are uncalled for. The
Public Works Department was only asked
to simply place in position a lantern and
apparatus supplied by Messrs Chance
Brothers, a firm of world-wide celebrity
as specialists in lighthouse machinery
and appliances. The light room came
out from England, so that no particular
merit can have been earned by the arti-
ficers, who merely changed the new
room for the old one.

2. Some slight alterations were
required to bring the flame of the lamp
into

NEER
CIRCLE.

into the focal plane of the apparatus, and this has been effected by fitting oil reservoirs of a pattern submitted by the Port Officer of Cocanada.

3. There is no comparison between the old lamp and the new. The former was one of country manufacture with 7 elliptical concave reflectors fitted at equal angles to each other, so that only one reflector was brought into action at one time, and at the intersection of the angles the light was necessarily weaker. The new one has an apparatus showing a steady brilliant light through all points of the illuminated area.

4. The Port Officer, will on a clear night proceed to sea shortly in the Steam Launch "Cypress" to examine the range of visibility and power of the light; and on receipt of his report, I will communicate the result to Government

5. The

5. The officer in charge of the Marine Surveys having recommended a larger light in an altered situation, and the remarks of the Superintending Engineer in the letter under reply also pointing to more power in the light, I beg respectfully to point out that the present Light Column could not accommodate a large light room, it is only seven feet across at the summit, and the present is obviously not the time to recommend a new light house on the same site.

Order 19th July 1886. No: 394 mis

Recorded.

True Extract,

L. J. Hoff

Under Secretary.

To

The Department of Public Works.

12

P.W.C. 5809.

Recd. 27. 1. 86

B. by 1853 N 22. 7. 86
" 1578 W. 15. 6. 86
" 1572 W. 15. 6. 86
No 34 D. 19. 4. 86.
" 6. 1053 W. 24. 4. 86
B. by 1136 W. 5. 5. 86.

No. 1945 W of 6. August/86

Recorded
Recorded

28/7/86

W
2. 8. 86

S. E. I Circle for information
with reference to his office
No. 487 G. D dated 2. June 1886.
No. 487 G. D

Oct. 1357. etc. Jap
28. 7. 86

P.W.C. 3809
Govt. of 1881 Mad

To

The M. Dept

Recd 27. 7. 86

Proceedings, dated

No. 384 W

1886

Subject.

No. 1945 W of 6. August/86

Recording letter
from the Post Office
Madras reporting upon
the lamp, lamp room
and of the new light
at Hope Island

Encl. RR