M R O 1—77,006—8-6-37.

(1) Number of pages 50

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 3663-64
470 C. 483-84
Dated 21-11- 1863.

Press
-Mis.-

Not to be folded or roughly handled

No 475 Endorsement of the Superintending Engineer, 4th Division, dated Madras, 10th August 1868, No. 2,255.

From the Executive Engineer, to the Superintending Engineer, 4th Division, dated Tyappa Chuttram, 15th June 1868, No. 76.

1. I have the honor to forward a drawing showing one section and two plans of the top of Monapalliam Light-house. The building had to be measured again, as the plan in my Office was found to be incorrect; the measurements were made by the Canal Overseer T. Appavoo Pillay.

2 I have shown the top of the tower only, as I presume nothing more is wanted The tower is conical, and rests upon a square pedestal fifteen feet in height. The external diameter of the conical part at the base is fifteen feet, and just under the cornice it is ten feet nine inches; the whole height from the ground to the top of the lantern is 103 feet eleven inches.

There is a central pillar, around which there is a spiral stair to the level C. D, where a door, three and a half by two, leads to the very narrow circular path, (twelve inches wide,) which is protected by a timber hand-rail, as shown on the plan. Above the level C. D. the external walls are carried up to a further height of three and a half feet to the level E F, and at this height is the base of the lantern which stands upon planks two and a half inches in thickness which rest upon four cross beams let into the surrounding wall.

3 The plan at E. F. shows the plan of the lantern which has six sides: two of two feet, two of two and a half feet; one of two feet ten inches; and one, (the back,) three feet nine inches; these are the measurements at the base The back of the lantern is a copper plate; all the other sides are of plate glass, and of these the sides G H, and I, can be opened to give access to the interior of the lantern; there are three lamps

The present catoptric arrangement illumines 264 degrees of the horizon, leaving but ninety-six unillumined on the land side. I consider this extent of illumination unnecessary, and that the dioptric arrangement might safely be confined to 200 degrees

4 The working season ends about the first week in October, and nothing can be done out of doors, until early in December. No materials of any kind, except sea-sand, can be got at the site, and all skilled workmen should be brought from Madras

Near the tower there is a small bungalow which is occupied by the Superintendent

Any one engaged in superintending the works should be provided with tents, or a temporary hut should be erected. Materials for the latter could be got from a jungle about fifteen miles distant.

From the Executive Engineer, to the Superintending Engineer, 4th Division, dated Royadur, 4th August 1868, No. 110.

1 Plan

1. I have the honor to return the plan of the top of Monapalliam Light-house, with the height above the sea marked upon it. All the other information required by Messrs. Chance Brothers was given in my letter, No. 76, dated 15th of June last.

2. I do not understand Messrs Chance Brothers' remarks about the "Light-room" in paragraph 5 of their letter of the 22nd April 1868, nor those in their letter of the 14th of September 1867. From both it would seem as if they meant, by the "Light-room," the base of the lantern, or the planks or other substance upon which the lantern stands This is not the meaning of the expression as it is used by Engineers, who understand the "Light-room" to be actually a room immediately under the lantern, and is generally in that part of the tower between the cornice and the bottom of the lantern between the level C. D. and E F. on the accompanying plan.

At Monapalliam there is no light-room, indeed in the tower there is no room of any kind; nothing but the spiral stair and centre pillar. But a light-room could be made by cutting down the pillar and steps to the required extent, and putting in a floor through a trap door, in which the room could be entered, or the blocking walls (those between C. D and E. F.) could be raised to give sufficient height for the light-room, putting the floor at the level C D The walls should be raised about four feet.

3 The present arrangement is a very bad one The light keeper, to get access to the lamps, must stand upon the platform E F. where he has no protection whatever, except by holding on to the lantern.

With a proper light-room this dangerous position would be avoided The present balustrade is of teak. An iron railing would of course be superior, but the teak answers very well. If there was a light-room, the hand-rail might not be higher than three feet instead of four feet three inches as at present

4. I erected a Lightning Conductor last year. It is a solid copper rod one inch in diameter. This rod had been provided some years previously, or I would have used a copper wire rope A rope is so easily adjusted to the shape of the lantern that it might be as well to have it as suggested, and to sell the copper rod

	Feet	Inches
Top of tower E. F. above ground	96	7
Do. above high-water of spring tides .	103	7

The range of spring tides does not exceed three feet

5 I was unable to ascertain the height above the sea, until I could visit the light-house on my return journey, which has somewhat delayed this letter

---

1 Plan

Submitted to Government with a plan of the top of the Monapalliam Light-house, with reference to their Orders—

No 3,845, dated 10th Dec. 1867
" 1,491, " 11th May 1868.
" 2,173, " 8th July "
" 2,265, " 16th " "
" 2,301, " 20th " "

(Signed) A J. M BOILEAU, Colonel, R E,
Superintending Engineer, 4th Division

Proceedings of the Madras Government, Public Works Department,
21st November 1868.

No 476. From the Superintending Engineer, 6th Division, to the Secretary to Government, Public Works Department, dated Tanjore, 25th July 1868, No. 450

1. With reference to paragraph 5 of G. O, No 2,173, dated 8th instant, I have the honor to inform you that the top of the light-pillar at Negapatam will be seventy-two and three-quarters feet above the ground level; this does not include the height of the machine box and lantern.

2. A Lightning Conductor has already been provided for the pillar at Negapatam.

Paragraph 8

3 I observe, with regard to the light-pillar at Cape Comorin, an inquiry is made as to "the depth available for the weight of the clock-work," and for Cape Comorin a revolving white light is, it would appear, to be provided.

4 The other lights, I presume, are not to be revolving The light-pillar at Negapatam is being built for a light standing on a pedestal, as shown in a section forwarded by the Superintendent of Marine, and not for a revolving light, or one worked by weights; there will be no fall available for the weights of the clock-work if the steps are built in a spiral as proposed.

No 477 From the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, dated Coimbatore, 3rd September 1868, No. 111.

With reference to G O., No. 2,173, of 8th July, I have the honor to report the height of the under-mentioned light-houses from top to the ground, to be as follows, *viz.* —

Calicut Light-house.—Ninety-nine feet and eight inches.

Mangalore Light house.—Fifty-four feet and nine inches.

No. 478. From the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, dated Coimbatore, 15th September 1868, No. 116.

With reference to your Memorandum, No. 127, of 12th September 1868, I have the honor to inform you that there is no tower at Cannanore, but only a flag staff light, the heights of which were given in the sketches supplied with letter, No 62, of 5th June 1868.

No. 479 From the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, dated Bhowany, 6th October 1868, No. 123.

With reference to your Memorandum, No. 130, of 18th September 1868, I have the honor to forward, herewith, plan of the Cannanore flag staff, as therein called for

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Proceedings of the Madras Government, Public Works Department,
21st November 1868.

No. 480. From the Superintending Engineer, 8th Division, to the Secretary to Government, Public Works Department, dated Kodakannel, 26th July 1868, No 1,024.

1. With reference to G. O., No. 2,173, of the 8th July 1868, I have the honor to forward a sketch in plan and elevation of the proposed top of the light house to be built at Cape Comorin.

2. I am of opinion that the light-room should be furnished from England, complete, and that an iron balustrade is required. The height of the top of the tower from the ground will be seventy-one feet.

No. 481. From the Superintending Engineer, 8th Division, to the Secretary to Government, Public Works Department, dated Madura, 18th September 1868, No. 1,422.

In correction of my letter, No. 1,024, dated 26th July last, I have the honor to state that the height of the top of the tower of the light-house at Cape Comorin will be one hundred feet instead of seventy-one feet Lieutenant Shepherd examined the locality, and fixed upon the best site available, where the ground is fifty feet above high water, so that a column of one hundred feet will have to be raised to exhibit the light at 150 feet above the sea.

No. 482. From the Superintending Engineer, 8th Division, to the Secretary to Government, Public Works Department, dated Madura, 15th September 1868, No. 1,408

In reply to your Memorandum, No. 127, dated the 12th instant, I have the honor to inform you that the information required in G O, No 2,173, dated 8th July 1868, regarding the height of the tower of the light-house at Tuticorin, has been furnished in the Memorandum which accompanied my letter, No 99, dated 13th April last, *viz*, the height of the present old Dutch tower is forty-three feet, and that of the proposed one is seventy feet.

No. 483. ORDER THEREON, 21st November 1868, No. 3,363.

CIVIL WORKS, No. 76

The foregoing papers will be forwarded to the Government of India, in continuation of the letter of this Government in the Marine Department, dated 22nd July 1868, No. 207.

(Here enter No. 3,363, dated 21st November 1868.)

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintendent of Marine
" Marine Department.

Exd F. R Bantleman.

Govt. of {1868} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDENT OF MARINE

Dated November, 21

Recd

G O, 21st N[illegible] 1868, No 3,6[illegible]3

NOVEMBER.

No. [illegible]

[illegible]

77

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 21*st November* 1868.

No. 3,664.

No 484.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA.

SIR,

CIVIL WORKS, No. 77.

1. In continuation of the letter of this Government in the Marine Department, No. 207, dated 22nd July 1868, I am directed to forward the accompanying sketches of the tops of the light-houses at Armeghon and Cape Comorin, and of the flag staff at Tellicherry.

2. The particulars of the heights of the several light-houses and flag-staves are given in the margin, and it will be observed from the enclosed copy of a letter from the Superintendent of Marine, dated 13th July 1868, No 2,418, that cast-iron columns and service-rooms are not needed with lanterns of the sixth class, and that the balustrades required for the lanterns of the fourth order, may be made up at Madras.

Light-houses		Ft	Ins
Mangalore		54	9
Tuticorin	Present light-house	43	0
	Proposed new do.	70	0
Negapatam		72	9
Pulicat		46	0
Point Divi		41	5
Santopillay		21	6
Cape Comorin		100	0
Armeghon		96	7
Flag-staves			
Cannanore		94	1
Tellicherry		119	0
Masulipatam		111	9

I have the honor to be,
Sir,
Your most obedient servant,

Colonel, R. E,
Secretary to Government.

Exd F R Bantleman.

111

Supg Engr's Office 2nd Dn
No 58 Begora 10th Augt 1868

From Lieut Coll G V. Winscom R.E.
Supg Engineer 2nd Dn

To ColL C. A. Orr, R.E.
Secretary to Govt.
D.P.W.
Madras.

Sir,

With reference to para 5 of G.O. No 2173 of 8th ultimo, I have the honor to inform you that the height of the Deve Light House from top of the Tower to the Surface of the ground is 41'—5".

I have the honor to be
Sir
Your most Obdt Servt

Geo Winscom Lt Col R.E.
Supg Engr 2nd Dn

AW

No 76

Supt Engrs Office 2d Dn
Bezwada,
14th September 1868

From Lieutenant Colonel G. V. Winscom R.E.
Superintending Engineer 2d Dn

To Colonel C. A. Orr R.E.
Secretary to Government
D. P. W.

Sir,

With reference to your Memo No 127 of 12th inst I have the honor to inform you that there is no light house at Masulipatam, but a signal lantern is displayed from a flag staff at a height of 95' above the Sea. A drawing of the top of the flag staff was forwarded with my letter No 146 dated 10 February 1868 –

I have the honor to be
Sir
Your most Obt Servant

Geo. Winscom Lt Col R.E.
Supg Engineer 2d Dn

Copy in P.W. Letter to England
No 8 February 1869 No 3

P.W. 1868 Dept
Registered No 3133
From
The Supg Engineer 2d Dn
To The Secy to Govt
P.W.D. Madras
Dated 10th Aug/68
Received 17 —.

No 58

Informs that the height of the Devi Light house from top of the Tower to the surface of the ground is 41'-5".

No 3663+3664 – 21st Nov/68

No 491

30th Octr 1868 A. 5 or Inner

No 89 Supg Engr Office 2d Dn 158

Bezwada

7 October 1868.

From Lieutenant Colonel G. V. Winscom R.E.
Superintending Engineer 2d Dn

To Colonel C. A. Orr R.E.
Secretary to Government
D.P.W.

Sir

With reference to your Official Memo No 1359 of 24th ultimo I have the honor to forward a sketch showing the height of the Flag staff at Masulipatam from top to the ground and to high water spring tide, as requested.

I have the honor to be
Sir
Your most Obt Servt

Geo V Winscom Lt Col R.E.
Supg Engineer 2d Dn

Copy in P.W. Letter to England
of 8 February 1869 No 2

P.W. 1868 Deptl.
Regd Corl. No 3683
From
The Supg Engineer
2d Dn
To
The Secretary
to Govt D.P.W.
Madras
dated 19 Septr/68
Recd 24

No 76
Enclo. — 1

Informs that there is no Light House at Masulipatam but a Signal Lantern is displayed from a Flag Staff & that a drawing of the top of the Flag Staff was submitted on 10 Feby last.

No 3653 & 3662 - 21st Novr/68

No 472

e. 30th Octr/68 No. 5 & Nov

Copy on P.W. Letter to Engineer
[illegible] February 1869 [illegible]

473

[illegible] 1868 [illegible]

P.W. 1868 [illegible]
[illegible]
From No. 3970
Lt Col C.T. [illegible] R.E.
Superintg Engineer 2d Division
To
Col A.J. Orr, R.E.
Secretary to Govt
D.P.W.
Dated 9th October 1868
Recd 1—
Enclosure one
Forwards a Plan of the
Masulipatam Flag staff
as requested.

[illegible]

171

No. 200.

Supg. Engineer's Office 1st Dn
Madras 25th July 1868

From
Colonel A. J. M. Boileau R.E.
Supg Engineer 1st Division

To
Colonel C. A. Orr R.E.
Secretary to Government P.W.D.

Sir,

Adverting to paragraph 5 of G.O. No. 2173 dated 8th July 1868 I have the honor to report that the height of the Tower of the Pulicat Light house from the ground to the top is 56 feet -

I have the honor to be
Sir
Your most obedt Servant
A Boileau Colonel R.E.
Supg Engineer 1st Division

From
The Supdg. Engineer
4th Dn.

To
Secretary to Govt. [illegible]

Dated 23rd Septr 1868
No. 2004

Reporting that the height of the Tower of the Pub-lic Light House from the ground to the top is [illegible] feet

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No. 76

Tyappa Chuttram
15th June 1868

From
W. Fraser Esqre. C.E.
Ex: Engineer

To Colonel A. Boileau R.E.
Superintg. Engineer 4th Dn.

Sir

I have the honor to forward a Drawing showing one section and two Plans of the top of Monapalliam Light house: The building had to be measured again as the Plan in my Office was found to be incorrect; The measurements were made by the Canal Overseer T. Appavoo Pillay :—

2 — I have shown the top of the Tower only, as, I presume, nothing more is wanted. The Tower is Conical; and rests upon a square pedestal 15 feet in height: The external diameter of the Conical part at the base, is 15 feet; and just under the Cornice, it is 10' 9": The whole height from the ground to the top of the Lantern is 103' 11"; There is a central pillar around which there is a spiral stair to the level C. D. where a door 3½ × 2 leads to the very narrow circular path (12 inches wide) which is

protected by a timber Hand rail as shown on the Plan :— Above the level C.D the external walls are carried up to a further hight of 3½ feet; to the level E.F; and, at this height, is the base of the Lantern which stands upon Planks 2½ inches in thickness, which rest upon 4 cross beams let into the surrounding Wall :—

3 — The Plan at E.F shows the Plan of the Lantern, which has 6 sides :— Two of 2 feet; two of 2½ feet, one of 2.10, and one (the back), 3.9: These are the measurements at the Base: The Back of the Lantern is a Copper plate; all the other sides are of plate glass; and of these the sides G.H and I can be opened to give access to the interior of the Lantern: There are three Lamps. —

The present Catoptric arrangement illumines 264 degrees of the horizon, leaving but 96 unilluminated on the Land side :— I consider this extent of illumination unnecessary, and that the ~~[illegible]~~ dioptric arrangement might, safely, be confined to 260 degrees. —

4 — The working season ends about the first week in October, and nothing can be done, out of doors, until early in December: No materials of any kind except Sea Sand can be got at the site, and all skilled workmen should be brought from Madras :—

Near the Tower there is a small Bungalow which is occupied by the Superintendent. —

Any one engaged in Superintending the works should be provided with Tents, or a temporary Hut should be erected: Materials for the latter could be got from a Jungle about 15 miles distant. —

I have the honor to be
Sir
Your Most Obedient
William Fraser C.E.
Ex: Engineer

To Ex: off: [illegible]
D: 1867

From No 2121.

W. Fraser Esqre C.E.
Ex: Engineer

To
Col: A. Boileau R.E.
Supdg Engr 4th Divn
Nos 3663 & 3664 - 21st Novr [illegible]
Dated 15th June 1868
Recd [illegible] P.W. 3050/68
[illegible] No 76 [illegible] 1.
[illegible] 68
Forwarding a Drawing showing one section & two Plans of the top of the Manapalliam Light-House, with report.

Replied to [illegible]
Set of all the requirements of Messrs Chance [illegible]

No 110

Near Royadur
4th August 1868

From W Fraser Esqre C.E.
Ex: Engineer

To Colonel A. Boileau R.E.
Superintg Engineer 4th Divn

Sir

I have the honor to return the Plan of the Top of Monapalliam Light house, with the height above the Sea marked upon it:— All the other information required by Messrs Chance brothers was given in my letter No 76 dated 15th of June last.—

Enclosure
1 Plan

2 —. I do not understand Messrs Chance brothers remarks about the "Light Room" in Para 5 of their letter of the 22d April 1868 Nor those in their letter of the 14th of September/67: From both it would seem as if they meant by the "Light Room" the base of the Lantern, or the Planks or other substance upon which the Lantern stands: This is not the meaning of the expression as it is used by Engineers, who understand the "Light Room" to be actually a Room immediately

under the Lantern, and is generally in that part of the Tower between the Cornice and the bottom of the Lantern; between the levels C.D. and E, F. on the accompanying Plan: —

At Monapalliam there is no Light room; indeed, in the Tower, there is no room of any kind; Nothing but the spiral stair and Center Pillar; But a Light room could be made by cutting down the Pillar and steps to the required extent, and putting in a floor; through a trap door in which, the room could be entered; Or, the blocking walls (those between C.D. and E.F.) could be raised, to give sufficient height for the Light Room; putting the floor at the level C.D.: The walls should be raised about 4 feet. —

3 — The present arrangement is a very bad one: The Light keeper, to get access to the Lamps, must stand upon the platform E.F. where he has no protection whatever, except by holding on to the Lantern: —

With a proper Light room this dangerous position would be avoided: The present Balustrade is of Teak: An Iron railing would of Course be superior but the teak answers very well: — If there was a Light room the Hand rail might not be higher than 3 feet instead of 4.3 as at present. —

4 — I erected a Lightning Conductor last year: It is a Solid Copper rod 1 inch in diameter: This rod had been provided some years previously or I would have used a Copper wire rope: A rope is so easily adjusted to the Shape of the Lantern that it might be as well to have it, as suggested, and to sell the copper rod: —

		feet	inches
Top of Tower E.F. above ground	=	96 .	7
Do — — above H W. of Spring tides	=	103 .	7

The Range of Spring Tides does not exceed 3 feet

5 — I was unable to ascertain the height above the Sea until I could visit the Light house on my return Journey, which has somewhat delayed this letter. —

I have the honor to be
Sir
Your most Obt Servt
William Fraser CE
Ex: Engineer

311

From P.W. 3056/68.
The Ex: Engineer
C. C. Canal
To
The Superint Engineer
4th Dn
Dated 1st
Recd 7th August 68
Ans 7. Do
No 110
inc 1. File Docs

Returning the Plan
of the top of Monapolliam
Light House with certain
Remarks. —

Nos 3563 + 3664 - 21st Novr 68

Regarding Monapolliam Light House.

No. 2255.

Submitted to Government with a plan of the top of the Monapolliam Light-house with reference to their orders:

No. 3845 dated 10th December 1867
— " — 1491 — " — 11th May 1868
— " — 2173 — " — 8th July — " —
— " — 2264 — " — 16th — " — " —
— " — 2301 — " — 20th — " — " —

A. Boileau Colonel R.E.
Supg. Engr. 4th Dn.

Supg. Engrs. Office 4th Dn.
Madras 10th August 1868

To Colonel C. A. Orr R.E.
Secretary to Government P.W.D.
Fort Saint George

No 450

Supdg Engineer's Office 6th Dn.
Tanjore, 25th July 1868.

From
Captain H. F. Oakes R.E.
Supdg Engineer 6th Division

To
Colonel C. A. Orr R.E.
Secy to Government P.W.D.

Sir,

With reference to para 5 of G.O. No 2173, dated 8th Instant, I have the honor to inform you that the top of the Light Pillar at Negapatam will be 72 3/4' above the ground level; this does not include the height of the Machine Box and Lantern.

2 A Lightning Conductor has already been provided for the Pillar at Negapatam.

3 I observe with regard to the Light Pillar at Cape Comorin an inquiry is made as to "the depth available for the weight of the clockwork" and for Cape Comorin a revolving white light is, it would appear, to be provided. Para 8.

4 The other lights, I presume are not to be revolving. The Light Pillar at Negapatam is being built for a light standing on a Pedestal as shown in a Section forwarded by the

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Copy sent P.W. Letter to England
d/8 February 1869 No 2

P.W. Dept.
Proceedings [illegible]
No 5020.

From
The Supdg Engineer
6th Divn

To
The Secretary to
Government P.W.D.

Dated 10th }
Recd 11th } August 68

Enclosure to No 2255.

Submitting a letter from the Special Ex. Engineer East Coast Canal on the plan of the top of the [illegible] pillar Light House.

Nos 3663 & 3664 - 21st Nov/68

No 475

G.O. 30th Oct/68 R. 5th Nov

the Superintendent of Marine and not for a revolving light or one worked by weights; there will be no fall available for the weights of the Clockwork if the steps are built in a spiral as proposed.

I have the honor to be
Sir
Your most Obedt. Servant
Oakes Captain R.E.
Supg. Engineer 6th Dn

Copy in P.W. letter to England
No. 8 February 1869

P.W. 1868 Dept
No. 2861
From
The Supg. Engineer 6th Dn
To
The Secy. to Govt. P.W.D.

Dated 25th }
Recd. 28th } July 1868.

No. 450

No. 3668 & 3664 - 21st Novr.

Furnishing certain information relative to the Light Pillar under Construction at Negapatam -

Al. 4/96

C. 30th Oct. 1868 R. 5th Novr.

No. 111

Supg. Engineer's Office 4th Dn
Coimbatore 3d September 1868

From
The Superintending Engineer
4th Division

To
The Secretary to Government
Department Public Works
Madras

Sir,

With reference to G.O. No. 2173 of 8th July, I have the honor to report the height of the undermentioned Light Houses from top to the ground, to be as follows viz:

Calicut Light House - Ninety Nine feet and Eight Inches - (99' 8") -
Mangalore Light House - Fifty four feet and nine Inches - (54' 9") -

I have the honor to be
Sir,
Your most Obedt. Servt.
Col. R.E.
Supg. Engineer 4th Dn.

R.P.

No 1024
1/[illegible]

Supt. A. Engineer's Office 37A
28th June 1868
Kodakanal

Copy in P.W. Letter to England
No 8 February 1869 [illegible]

[illegible] P.W. 1868 Dept. No 3397

From,
The Superintending Engineer 7th Dn.

To,
The Secretary to Government
P.W.

Dated 3rd } September 1868
Recd 5th }

No 111.

Enclosure none

Reports the height of the Calicut & Mangalore Light Houses.

No 3663 & 3664 - 21st Nov./68

No 477

C. 30th Octr/68 R. 5th Nov.

33F

No 116

Supg. Engineer's Office 7th Dn.
Coimbatore 15th September 1868

From,
Coll. G. M. Walker R.E.
Supg. Engineer 7th Dn.

To,
Coll. G. C. A. Orr R.E.
Secretary to Government P.W.
Madras.

Sir,

With reference to your Memo
No 127 of 12th September 1868, I have the
honor to inform you that there is no
Tower at Cannanore, but only a Flag
Staff Light, the heights of which were
given in the Sketches supplied with
Letter No 62 of 5th June 1868.

I have the honor to be,
Sir,
Your most obdt. Servant,

G M Walker Coll R.E.
Supg. Engr. 7th Dn.

Copy in P.W. Letter to England
Of 8th February 1869 No 2

P.W. 1868 Septr
Pro of Govt No 3352

From
The Supg Engineer
7th Dn

To
The Secretary to Govt
D.P.W.
Madras

Dated 15
Recd 17 } Septr/68

No 116

Informs that there is no Tower at Cannanore, but only a Flag Staff Light.

Nos 3663 & 3664 - 21st Novr/68

No 478

C. 30th Octr/68 Ch. 5th Novr

No 1024

Supt. Engineer's Office
37th
28th June 18
Kodakanul

From

No. 123.

Supg Engrs Office 35th ~~7th Dn~~
Bhowany 6th October 1868

From
Colonel G W Walker R.E.
Supg Engineer 7th Division

To
Colonel G. A. Orr R.E.
Secy to Government D.P.W.
Madras

Sir.

With reference to your Memo No 130 of 18th September 1868, I have the honor to forward herewith plan of the Cannanore Flag Staff as therein called for -

I have the honor to be
Sir
Your most Obdt Servant
G W Walker Col R.E.
Supg Engineer 7th Dn

R.P.

Copy in PW Letter to England
d/8 February 1869 No 2

4th Division DPW
Pro: 2[illegible] 1868 Dept
from [illegible] No 3[illegible]

The Supg. Engineer
of the Division

to

The Secy. to Government
PWD Madras

Dated 26th October 1868

Recd. [illegible]

Enclosures 1.
No. 123

Forwards plan of the Commandg. Flag Staff

Pros 3663 & 3664 - 21st Novr. 68

No 477

[illegible] 1868 Oct. 5th [illegible]

37A

Supdg. Engineer's Office S. Dn.
26th July 1868
Kodaikanal

No. 1024

From,

Lieutenant Colonel C. Wilkinson R.E.
Superintending Engineer
S. Division

To

Colonel C. A. Orr R.E.,
Secretary to Government P.W.D.,
Madras

Enclosure 1

With reference to G.O. No 2173 of 15th July 1868, I have the honor to forward the accompanying plan and elevation of the proposed top of the Lighthouse to be erected at Cape Comorin.

I am of opinion that the light room should be furnished from England, complete and that an iron balustrade is required. The height of the top of the tower from the ground will be 71 feet.

I have &c.

C. Wilkinson Lieut Col R.E.
Superintending Engineer S. Dn.

No 1422 . 392

Superintending Engrs Office 8th Dn
Madura 15th September 1868

From
Colonel C. V. Wilkinson RE
Superintending Engineer
8th Division

To
Colonel C. A. Orr RE
Secretary to Government
P. W. D.

Sir,

In correction of my letter No 1024, dated 26th July last, I have the honor to state that the height of the top of the tower of the light house at Cape Comorin will be 100 feet instead of 71 feet. Lieutenant Shepherd examined the locality & fixed upon the best site available, where the ground is 50 feet above high water so that a column of 100 feet will have to be raised, to exhibit the

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Copy in PW letter to England
Dd 8th February 1869 No 2

PW 4868 Despt
Pro: of Govt ~~No 1024~~
From No. 2900.
The Supy Engineer
8th Division
To The Secretary to
Government P. W. D.
Dated 26th July 1868
Recd 31st do.

Enclo. 1

No. 1024.

Forwards a sketch in plan & elevation of the proposed top of the Light house to be built at Cape Comorin.

Nos 3663 + 3664 - 21st Novr/68

No 480

30th Octr/68 R. 5th Novr

the light at 150 feet above the sea.

I have &ca

Colonel R.E.
Superintending Engr 8th D.

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98 1

No 64

Supdt Engrs Office 1st D
Dowlaishwarum
15th July 1868.

From,

Captain I. G. Ryves R.E.
Superintending Engr 1st Dn

To,

Colonel C. A. Orr R.E.
Secretary to Government P.W.D.
Madras.

Sir, 1. With reference to G.O. No 2173 dated 8th instant, para 5, I have the honor to state that the height from the top of the plat-form, on which the Santapilly Light is exhibited, to the ground is 21 ft 6 inches. The length of (one) copper wire rope should not be less than 30 feet to connect the vane of the lantern with the ground.

I have &ca &ca

J. G. Ryves Capt R.E.
Supg Engineer 1st Dn

Copy in P.W. Letters to England
D/ 8th February 1869 No 2

P.W. 1868 Dept.
Pro. [illegible] for [illegible]
From 2772.
The Supg Engineer
1st Dn
To The Secretary to Govt.
P.W. D.
Madras.

Dated 15th July
Despd. 16th do
Recd. 21st
1868.

No. 64

Replying to para 2 of G.O. No 2173 of 8th July 1868 on the subject of the height of Santapilly Light house in the Vizagapatam Distt.

No 3663 & 3664 – 21st Nov. /68

No 490

e. 30th Oct. 1868 A. 5th hour

Copy in P.W. Letters to England
D/ 8th February 1869 No 2

Pro. [illegible] 1868 [illegible] Dept.
No 3647.

[illegible]
[illegible] Engineer
[illegible]

[illegible]
[illegible] to Govt.
P.W. Dept.

[illegible] January 1868
[illegible] 21st

[illegible] the height
[illegible] of the
[illegible]
[illegible] feet
[illegible] 71 feet.

Nos 3663 & 3664 – 21st Nov. /68

No 481

e. 30th Oct. 1868 A. 5th hour

No. 1408. Office of the Chief Engineer [illegible]
Madras 13th February 1868.

From
Colonel G. J. Wilkinson R.E.,
[illegible]
[illegible]

To
Colonel C. [illegible] R.E.
Secretary to Gov[illegible] [illegible]
Madras

Sir,

In reply to your Memo: No 127 dated the 1st [illegible] I have the honor to [illegible] [illegible] [illegible] G.O. No 2173 dated 18th July 1865 [illegible] [illegible] of the [illegible] [illegible] [illegible] [illegible] [illegible] in the [illegible] [illegible] Letter [illegible] No 99 dated 13th [illegible] [illegible] is 43 feet, of the [illegible] is 70 feet

I have [illegible]

Wilkinson Colonel R.E.
[illegible] Engineer [illegible]

5th February 1868

No 3663-2 21st Nov 1867
3664

[illegible] 68 [illegible] 5th [illegible]

P.W. Dept. 457 17

No 3663

Proceedings of the Madras Government under date the 21st Novr 1868
Read again letters from the Supt. of Marine and the Supg Engr of the 7th Dn of 22d June and 13th July 1868 Nos 2198 and 2418 and 13th July 1868 No 82 respectively and recorded in the Pro. of Govt of the 1st, 11th & 20th July 1868 Nos 2093, 2264 and 2301.

Read also the following:–

From the Supg Engr, 1st Dn		(H.E. No 64) of 15th July 1868
Do –	Do. 2d Dn	(H.E. No 58) of 10th Aug – –
Do –	Do –	(H.E. No 76) of 19th Sep – –
Do –	Do.	(H.E. No 89) of 9th Oct – –
Do –	Do 4th Dn	(H.E. No 2004) of 25th July – –
Do –	Do –	(H.E. No 2255) of 10th Aug – –
Do.	Do 6th Dn	(H.E. No 450) of 25th July – –
Do –	Do 7th Dn	(H.E. No 111) of 3d Sep – –
Do –	Do –	(H.E. No 116) of 15 – –
Do –	Do –	(H.E. No 123) of 16 Octr –
Do –	Do 8th Dn	(H.E. No 1024) of 26 July – –
Do –	Do –	(H.E. No 1422) of 18th Sep – –
Do –	Do –	(H.E. No 1418) of 15 Sep – –

The foregoing papers will be forwarded to the Govt of India, in continuation of the letter of this Govt in the

N
ApA.

Copy in P.W. Letter to England of 8th February 1869 No 2

P.W. Dept.
(Pro. of Govt.)
No 3663 21st Nov 68

Madras

Nos 3663 & 3664 – 21st Novr 68

No 482

the Marine Dept dated
22nd July/68 No 207
H E No 3664 of 21st
Novr 1868

To
The Secretary to the
Govt of India

Sir,

In continuation of the letter of this Govt in the Marine Dept No 207 dated 22nd July 1868, I am directed to forward the accompanying sketches of the tops of the light-houses at Armeghon and Cape Comorin, and of the flagstaff at

at Tellicherry.

5 To The Supdt of Marine
11 Marine Department

The particulars of the heights of the several light-houses and flagstaves are given in the margin, and it will be observed from the enclosed copy of a letter from the Supdt of Marine dated 13th July/68 No 2418 that cast-iron columns and service-rooms are not needed with lanterns of the sixth class, and that the balustrades required for the lanterns

of

Light-houses	Feet	Inches
Mangalore	54	9
Tuticorin Present Light-house	43	"
Proposed new Do	70	"
Negapatam	72	9
Pulicat	46	"
Point Dive	41	5
Santopillay	21	6
Cape Comorin	100	"
Armeghon	96	7
Flagstaves		
Cannanore	94	1
Tellicherry	119	"
Masulipatam	111	9

of the fourth order, may
be made up at Madras.

Despd. 23/11/68 with five plans
G.Os. Nos. 1491-1585 with Marine Deptt.
No. 140- 1753-/1885-2093. 2301
2264 & 3663 of 1868-

30th Octr/68 Rd. 5th Novr

Copy in P.W. Letter to England
D/ 8th February 1869 No 2

G Nos 2770 - 2772 & 3133th

Govt. of {1868} Madras.

PUBLIC WORKS.

To The Superintendent of
Marine

&c. &c. &c.

Dated th

Rec'd Enc 2

G O, 21st Dec 1868, Nos [illegible]

Nos. 4701 483 & 484

Light-houses. Passing orders on Correspondence regarding Sketches containing the particulars required by Messrs Chance Brothers & Co of Birmingham, for the supply of Light-house apparatus for this Presidency.

The Govt of India furnished with the Sketches &c containing the part~~iculars~~ required by Messrs Chance Brothers & Co of Birmingham for the supply of Light-house apparatus for this Presidency.