No. of Pages :- 50
Date of Repair :- 10.288.
Intial of Reference :- Cmr

P.W. Department.

G.O. No 1463

Dated :- 30-5-1887

1463
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from G. D. WYBROW, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Bezváda, 17th May 1887, No. 52 B.C.:—

I have the honor to forward, for your approval and sanction of Government, a revised estimate, amounting to Rs. 1,128, for improvements and alterations to the Superintendent's quarters of the Armeghon Light-house, approved of by the Port Officer, Madras.

2. The original estimate for this work, amounting to Rs. 974, was sanctioned in G.O. No. 69 W. of the 8th January 1886.

3. The necessity for the revision is explained in the accompanying report.

ORDER—dated 30th May 1887, No. 1463 W., Public Works.

The revised estimate, amounting to Rs. 1,128, for alterations and improvements to the Superintendent's quarters, Armeghon Light-house, is sanctioned in place of the estimate of Rs. 974 sanctioned in G.O. No. 69 W., dated 8th January 1886.

2. This sanction has been registered as Excluded Local No. 9 W. of 1887-88, and classified as Miscellaneous Public Improvements, Original Works.

(True Extract.)

Captain, R.E.,
Under Secretary to Govt., P.W.D.

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

Exd. F. R. Bantleman.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of | 1887 | Madras.

PUBLIC WORKS.

Dated May, 30th.

Recd. *Encl.*

G.O., 30th May 1887, No. 1463 W.

MAY.

Superintendent's Quarters, Armeghon Light-house

Revised estimate of Rs. 1,128 for alterations and improvements to the —, sanctioned.

1463
2

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. W. RUNDALL, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Gudiváda, 14th April 1885, No. 39 B.C.:—

I have the honor to forward, herewith, two revised estimates, amounting respectively to Rs. 156 and Rs. 815, in lieu of estimates amounting to Rs. 66 and Rs. 110, for repairs to the Armeghon light-house and repairs to the superintendent's quarters at Armeghon light-house. These estimates were sanctioned in G.O., No. 3511 W., of the 6th December 1883.

2. The revised estimates were forwarded by the Executive Engineer, Buckingham Canal division, who prepared them, to the Master Attendant, Administrative Department, Madras, who has countersigned them.

3. In forwarding the revised estimates, the Executive Engineer explains that the original estimates were not worked out when the cyclone of November last occurred, rendering further work necessary, which has been provided for in the estimates now submitted.

4. On receipt of these estimates originally, I requested the Executive Engineer to let me know why permanent, instead of temporary, huts were not estimated for. In reply, Major Drake-Brockman quotes letter, No. 11242, from the Master Attendant, in which that officer requests that huts "at a cost not exceeding Rs. 30 each" may be estimated for.

5. My own opinion is that, as there always must be an establishment of lascars at the light-house, it would be better to provide them with permanent quarters. From your notes on this light-house, communicated to me with your No. 529 C., of the 13th ultimo, I conclude you think permanent quarters should be built. If you decide to have this done, please strike out the sum of Rs. 125 for five huts entered in the estimate.

6. The Executive Engineer has provided for filling up the low ground in the neighbourhood of the light-house, at a cost of Rs. 449.

7. An estimate for adding verandahs to the light-house superintendent's quarters will be prepared and forwarded, but as these estimates were forwarded to me previous to the receipt of your notes on the buildings, and as the works should be put in hand at once, I do not detain them for these additions to be made.

ORDER—dated 8th May 1885, No. 1082 W., Public Works.

The undermentioned revised estimates are sanctioned in supersession of estimates for similar work sanctioned in G.O., No. 3511 W., dated 6th December 1883:—

	Amount. Rs.	Register No.
(1) Repairs to Armeghon light-house ...	156	No. 2 W. of 1885-86.
(2) Repairs to superintendent's quarters at Armeghon light-house	690	,, 3 W. ,,

2. The question as to provision of funds will be considered in the Financial Department. The amount required is shown in the margin.

	Rs.
Works	846
Establishment	195
Tools and plant	8
Total ...	1,094

3. The sum of Rs. 125 provided in estimate No. (2) for five temporary huts for lascars has been struck out. The Superintending Engineer will submit a fresh estimate providing for permanent quarters for the lascars, and for other matters mentioned in the Chief Engineer's notes communicated with endorsement, No. 529 C, dated 13th March 1885, and G.O., dated 20th April 1885, No. 164, Marine.

4. The sanctions accorded in paragraph 1 have been classified as Excluded Local (Port Fund) Civil Buildings, Repairs.

(True Extract.)

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

To the Superintending Engineer, II Circle, with six enclosures.
" Examiner, Public Works Accounts.
" Financial Department.
" Marine "

Exd. E. Fernandez.
Spare Copies

1463/3

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of [1885] Madras

PUBLIC WORKS.

Dated May, 8th.

Read.

G.O., 8th May 1885, No. 1082 W.

MAY.

Armeghon Light-house

Revised estimates for repairs to — and the superintendent's quarters, sanctioned.

Appendix to G.O., No. 1659 W., dated 15th July 1885.

STATEMENT showing Incomplete Local Fund Works of 1884-85 and New Works sanctioned but not commenced requiring funds.

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Appropriation required. For Work.	For Establishment.	For Tools and Plant.	Total.	Item No.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13
		LOCAL INCORPORATED.	RS.		RS.	RS.	RS.	RS.	RS.	RS.		
Godávari Eastern.	1	Constructing an iron lattice girder bridge at Venkatakrishnapuram lock, Sámalkót canal.	5,550	1076 W., dated 12th August 1884.	1,106	4,444	4,444	1,022	44	5,510	1	
Tanjore ..	2	Formation of a road along the left bank of Vennar, 52 to 58 miles, from road No. 39 to join road No. 90.	8,423	....	4,721	3,702	1,224	281	12	(a) 1,517	2	(a) Rs. 3,073 provided from reserve.
Tinnevelly ..	3	Raising the right bank of the Athur channel	1,864	2445 W., dated 3rd October 1884, and 87 W., dated 10th Jan. 1885.	1,076	788	788	181	8	977	3	
		Total ..	..	....	..	..	6,456	1,484	64	8,004		
		LOCAL EXCLUDED.										
		Port Fund.										
Ganjam ..	1	Iron pier at Gopálpur	2,30,903	3069 W., dated 13th December 1884.	..	2,30,903	1,00,000	23,000	1,000	1,24,000	1	
Vizagapatam ..	2	Repairs to Santapilly light-house	..	....	..	..	50	12	1	63	2	
Buckingham Canal.	3	Lump sum for minor works, miscellaneous public improvements.	..	....	..	..	2,000	460	20	2,480	3	
Do. ..	4	Lump sum for repairs do. do.	..	....	..	..	1,500	345	15	1,860	4	
Godávari, Eastern.	5	Improvements to Marine Villa at Cocanada	7,700	2773 W., dated 6th Nov. 1884.	4,894	2,806	2,806	645	28	3,479	5	
West Coast ..	6	Constructing a boat jetty at the port of Cannanore ..	10,244	305 W., dated 9th Feb. 1885.	1,916	8,328	8,328	1,915	83	10,326	6	
Do. ..	7	Constructing groynes and rebuilding revetment for the town of Ponáni.	4,175	2492 W., dated 8th Oct. 1884, and 442 W., dated 25th Feb. 1885.	486	3,689	3,689	848	37	4,574	7	
Presidency ..	8	Constructing a store-shed for the storage of petroleum and other combustibles on the beach south of the Madras harbour.	8,140	9 W., dated 5th Jan. 1885, and 270 W., dated 4th Feb. 1885.	2,705	5,435	5,435	1,250	54	6,739	8	
		Total, Port Funds ..	..	....	..	..	1,23,808	28,475	1,238	1,53,521		
		University Fee Fund.										
Architect ..	9	Providing an office for the assistant registrar and improving the ventilators of the tower of the Senate House.	1,036	Registrar's No. 3, dated 9th April 1885.	152	884	884	203	9	1,096	9	
Do. ..	10	Closing the vaults of do.	2,600	Do. No. 324, dated 21st Jan. 1885.	941	1,659	1,659	382	17	2,058	10	
Do. ..	11	Repairs to do.	1,264	Do. No. 3, dated 9th April 1885.	24	1,240	1,240	285	12	1,537	11	
		Total, University Fee Fund ..	..	....	..	..	3,783	870	38	4,691		
		Total, Excluded Local ..	..	....	..	..	1,27,591	29,345	1,276	1,58,212		
		Grand Total ..	..	....	..	..	1,34,047	30,829	1,340	1,66,216		

1663/14

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of Madras
1885

PUBLIC WORKS.

Dated May, 8th.

Read.

G.O., 8th May 1885, No. 1082 W.

MAY.

Armeghon Light-house

Revised estimates for repairs to — and the superintendent's quarters, sanctioned.

Appendix to G.O., No. **1659** *W., dated* **15***th July* **1885.**

STATEMENT showing Incomplete Local Fund Works of 1884-85 and New Works sanctioned but not commenced requiring funds.

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Appropriation required. For Work.	For Establishment.	For Tools and Plant.	Total.	Item No.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13
		LOCAL INCORPORATED.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Godâvari Eastern.	1	Constructing an iron lattice girder bridge at Venkatakrishnapuram lock, Sâmalkôt canal.	5,550	1976 W., dated 12th August 1884.	1,106	4,444	4,444	1,022	44	5,510	1	
Tanjore ..	2	Formation of a road along the left bank of Vennar, 52 to 58 miles, from road No. 39 to join road No. 90.	8,423	....	4,721	3,702	1,224	281	12	(a) 1,517	2	(a) Rs. 3,073 provided from reserve.
Tinnevelly ..	3	Raising the right bank of the Athur channel	1,864	2445 W., dated 3rd October 1884, and 87 W., dated 10th Jan. 1885.	1,076	788	788	181	8	977	3	
		Total ..	..	....	..	..	6,456	1,484	64	8,004		
		LOCAL EXCLUDED.										
		Port Fund.										
Ganjam ..	1	Iron pier at Gopâlpur	2,30,903	3069 W., dated 13th December 1884.	..	2,30,903	1,00,000	23,000	1,000	1,24,000	1	
Vizagapatam ..	2	Repairs to Santapilly light-house	..	....	..	..	50	12	1	63	2	
Buckingham Canal	3	Lump sum for minor works, miscellaneous public improvements.	..	....	..	..	2,000	460	20	2,480	3	
Do. ..	4	Lump sum for repairs do. do.	..	....	..	..	1,500	345	15	1,860	4	
Godâvari, Eastern.	5	Improvements to Marine Villa at Cocanada	7,700	2773 W., dated 6th Nov. 1884.	4,894	2,806	2,306	645	28	3,479	5	
West Coast ..	6	Constructing a boat jetty at the port of Cannanore ..	10,244	305 W., dated 9th Feb. 1885.	1,916	8,328	8,328	1,915	83	10,326	6	
Do. ..	7	Constructing groynes and rebuilding revetment for the town of Ponâni.	4,175	2492 W., dated 8th Oct. 1884, and 442 W., dated 25th Feb. 1885.	486	3,689	3,689	848	37	4,574	7	
Presidency ..	8	Constructing a store-shed for the storage of petroleum and other combustibles on the beach south of the Madras harbour.	5,140	9 W., dated 5th Jan. 1885, and 270 W., dated 4th Feb. 1885.	2,705	5,435	5,435	1,250	54	6,739	8	
		Total, Port Funds ..	..	....	..	..	1,23,808	28,475	1,238	1,53,521		
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Architect ..	9	Providing an office for the assistant registrar and improving the ventilators of the tower of the Senate House.	1,036	Registrar's No. 3, dated 9th April 1885.	152	884	884	203	9	1,096	9	
Do. ..	10	Closing the vaults of do.	2,600	Do. No. 324, dated 21st Jan. 1885.	941	1,659	1,659	382	17	2,058	10	
Do. ..	11	Repairs to do.	1,264	Do. No. 3, dated 9th April 1885.	24	1,240	1,240	285	12	1,537	11	
		Total, University Fee Fund ..	..	....	..	..	3,783	870	38	4,691		
		Total, Excluded Local ..	..	....	..	..	1,27,591	29,345	1,276	1,58,212		
		Grand Total ..	..	....	..	..	1,34,047	30,829	1,340	1,66,216		

1463/71

1463/5

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From the Superintending Engineer,	I Circle,	dated 27th May 1885,	No. C/56.
,, ,, ,,	II ,,	,, 16th ,, ,,	,, 56 G.L.
,, ,, ,,	IV ,,	,, 16th ,, ,,	,, 200 E.W.
,, ,, ,,	V ,,	,, 15th ,, ,,	,, 649.
,, ,, ,,	V ,,	,, 15th ,, ,,	,, 653.
,, ,, ,,	VI ,,	,, 26th ,, ,,	,, 32 C/T.J.
,, Consulting Architect to Government,		,, 11th ,, ,,	,, 191.

ORDER—dated 15th July 1885, No. 1659 W., Public Works.

In the papers read above, the Superintending Engineers and the Consulting Architect apply for funds under "Incorporated and Excluded Local Funds" on account of incomplete works of 1884-85, and new works and petty repairs proposed for execution during the current year.

2. The demands are as follow :—

Incorporated Local Funds.

	Rs.
Incomplete works, inclusive of establishment and tools and plant charges	11,077

Excluded Local Funds.

Incomplete works and repairs, inclusive of establishment and tools and plant charges	34,212
Major works, new, do. do.	1,24,000
Total ...	1,69,289

3. A sum of Rs. 1,00,000, or Rs. 1,24,000 including charges for establishment and for tools and plant, is proposed to be spent on the construction of an iron pier at Gopálpur. As this work has been ordered to be executed on contract, provision of funds is necessary.

1463/5

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers :—

From the Superintending Engineer,	I Circle,	dated	27th May	1885,	No. C/56.
" " "	II "	"	16th "	" "	56 G.L.
" " "	IV "	"	16th "	" "	200 E.W.
" " "	V "	"	15th "	" "	649.
" " "	V "	"	15th "	" "	653.
" " "	VI "	"	26th "	" "	32 C/T.J.
" Consulting Architect to Government,		"	11th "	" "	191.

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Major works, new, do. do.	1,24,000
Total ...	1,69,289

3. A sum of Rs. 1,00,000, or Rs. 1,24,000 including charges for establishment and for tools and plant, is proposed to be spent on the construction of an iron pier at Gopálpur. As this work has been ordered to be executed on contract, provision of funds is necessary.

1463/5

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers :—

From the Superintending Engineer,	I Circle,	dated	27th	May	1885,	No. C/56.
" " "	II "	"	16th	"	"	" 56 G.L.
" " "	IV "	"	16th	"	"	" 200 E.W.
" " "	V "	"	15th	"	"	" 649.
" " "	V "	"	15th	"	"	" 653.
" " "	VI "	"	26th	"	"	" 32 C/T.J.
" " Consulting Architect to Government,	"	"	11th	"	"	" 191.

Order—dated 15th July 1885, No. 1659 W., Public Works.

In the papers read above, the Superintending Engineers and the Consulting Architect apply for funds under "Incorporated and Excluded Local Funds" on account of incomplete works of 1884-85, and new works and petty repairs proposed for execution during the current year.

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Incomplete works, inclusive of establishment and tools and plant charges	11,077

Excluded Local Funds.

Incomplete works and repairs, inclusive of establishment and tools and plant charges	34,212
Major works, new, do. do.	1,24,000
Total ...	1,69,289

3. A sum of Rs. 1,00,000, or Rs. 1,24,000 including charges for establishment and for tools and plant, is proposed to be spent on the construction of an iron pier at Gopálpur. As this work has been ordered to be executed on contract, provision of funds is necessary.

4. The reserve with Government, under Incorporated Local Funds, is Rs. 3,073. This amount is appropriated, as shown in the margin, towards meeting in part the demands now made; and the Financial Department will consider the question of allotting the difference, aggregating Rs. 1,66,216, and of placing the amount as early as practicable at the disposal of the Public Works Department.

Formation of a road along the left bank of Vennár, 52 to 58 miles, from road No. 39 to join road No. 90.

	Rs.
Works	2,478
Establishment	570
Tools and plant	25
Total ...	3,073

(True Extract.)

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

To the Superintending Engineer, I Circle.
" " " II "
" " " IV "
" " " V "
" " " VI "
" Consulting Architect to Government.
" Examiner, Public Works Accounts.
" Financial Department.
" Marine "
" Revenue "

Exd. E. Fernandez.
Spare Copies

1463/6

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated July, 15th.

Recd. *Encl.*

G.O., 15th July 1885, No. 1659 W.

JULY.

Funds

Orders on applications for —, under Incorporated and Excluded Local Funds, on account of incomplete works for 1884-85 and for minor new works and petty repairs to be carried out during 1885-86.

1463/7

GOVERNMENT OF MADRAS.

MARINE DEPARTMENT.

READ—the following papers :—

Note by the Chief Engineer, Public Works department, dated 13th March 1885, No. 527-C.

During my recent tour the undermentioned lighthouses were inspected by me in company with the Master Attendant of Madras :—

Pulicat.	Vakalapudi.
Armeghon.	Santopilly.
Hope Island.	Gopálpur.

2. The lighthouses at Point Divi and Calingapatam were not inspected on this occasion. There appears to be some difficulty in making Point Divi from the sea, and a day was wasted in trying to sight it, but without success. The Calingapatam lighthouse was passed during the night. The light appeared to be in perfect order, but time did not admit of an inspection. These two lighthouses will now be inspected by the Superintending Engineers in company with the port officers concerned.

3. Full details of the lighthouses inspected are given in the accompanying statement.

CHEPAUK,
13*th March* 1885.

(Signed) J. SHAW-STEWART, Col., R.E.,
Chief Engineer, Public Works Dept.

ENCLOSURE.

STATEMENT to accompany the Note by the Chief Engineer, Public Works department, dated March 1885, on Lighthouses.

Lighthouse.	Class of light.	Height of centre of lantern above mean sea level.	Distance at which light is visible.	Remarks.
		FEET.	MILES.	
Pulicat ..	Fourth order ; catadioptric ; fixed ; white.	68	14	The object is to mark position of the Pulicat shoal. The light is placed on the top of a masonry tower, and is in excellent order, but requires provision of a spare lamp. During the storms in December 1884 the exterior of the lighthouse and adjoining buildings sustained considerable damage, and no time should be lost in executing the needful repairs.

Statement to accompany the Note by the Chief Engineer, Public Works department, dated March 1885, on Lighthouses—*continued.*

Lighthouse.	Class of light.	Height of centre of lantern above mean sea level.	Distance at which light is visible.	Remarks.
		FEET.	MILES.	
Armeghon ..	Fourth order; dioptric; revolving; flashing once in twenty seconds; white.	107	14	The object is to mark position of the Armeghon shoal. The light is placed on the top of a masonry tower and is in excellent order. The revolving apparatus works well. The buildings are generally in good order, but the outside of the tower was slightly damaged during the late monsoon, and some of the steps leading up to the lantern require repair with cement. The lightning conductor should be moved to the outside of the tower. In the Superintendent's house the floor requires repair, and verandahs should be added on east and west sides as suggested in 1880 by His Grace the late Governor. The lascar's huts were blown down during the recent storms, and it might be well to provide them with permanent quarters both here and elsewhere. Care should be taken to select sites not liable to be flooded.
Hope Island.	Country made; reflecting light with 9 reflectors; fixed; white.	83	10	The object is to mark position of Point Gordaweru. The light is placed on the top of a masonry tower and is in fair order, but it is thought that the importance of the position demands a better and a stronger light, and it is proposed to replace the existing inferior light by an English-made dioptric light of the fourth order, now available at Madras. The lighthouse is generally in good order, but the platform on which the lantern rests is not so secure as it should be. It would be well to renew it, probably with iron girders; and this should be done when the light is changed. The adjoining buildings are also in need of some repair, and the oil godown should be recoated with cement. The lightning conductor is in need of slight repair. Additional water tanks are required for the use of the superintendent to store drinking water, which is not procurable on the island.
Vakalapudi.	Fourth order; dioptric; revolving; flashing once in ten seconds; white.	80	14	The object is to mark entrance to the Cocanada anchorage. The light is placed on the top of a masonry tower and is in excellent order. Part of the revolving apparatus was under repair at Dowlaishweram at the date of inspection, and the light was being turned by hand. The adjoining buildings are in good order, but the lascar's quarters are only temporary sheds of the meanest character, and should be replaced, here and elsewhere, by permanent buildings.

1463/8

Statement to accompany the Note by the Chief Engineer, Public Works department, dated March 1885, on Lighthouses—*continued.*

Lighthouse.	Class of light.	Height of centre of lantern above mean sea level.	Distance at which light is visible.	Remarks.
		FEET.	MILES.	
Santopilly ..	Fourth order; catadioptric; fixed; white.	169	14	The object is to mark position of the Santopilly rock, a dangerous reef, distant some 6 miles from the coast. The light is placed on the top of a small square tower, built on a rocky hill a short distance from the beach. The light is in good order, but the iron work of the lantern has not been properly looked to and is beginning to suffer from rust. Two spare lamps should also be provided. The lightning conductor should be carefully examined. It is understood that it is at present carried no further than to the top of the rocky hill outside the lighthouse, and provision should be made for leading it into damp soil. Considering the object of this lighthouse and its position, it is thought that a stronger light than that now in use should be provided. It is distant 6 miles from the danger it is intended to mark; and when the nature of that danger is considered—a large reef covered at low tide with from 7 to 10 feet of water,—it might be well that the light should have a radius larger than 14 miles. The best position for the light would without doubt be on the reef itself, but to erect it there would be matter of great difficulty, involving large outlay. This is, however, a point for consideration in the Marine department.
Gopálpur ..	Country-made; reflecting light; fixed; white.	85	10	The object is to mark position of the Gopálpur anchorage. The lantern is at present exhibited from the top of the flagstaff, but it is intended to combine a lighthouse with the new marine and customs buildings, for which estimates have lately been called.

No. 528 C.

Transferred to the Marine department with advertence to G.O., No. 529, dated 3rd December 1884 (Marine).

CHENNAI, 13*th March* 1885.

(Signed) J. SHAW-STEWART, Col., R.E.,
Secretary to Government,
Public Works Department.

To the Chief Secretary to Government, with statement.

From J. H. TAYLOR, Esq., Lieut., R.N.R., Master Attendant, Madras, to the Chief Secretary to Government, dated Madras, 24th March 1885, No. 2614.

Administrative department.

In returning the inspection notes of the Chief Engineer, Public Works department, on certain lighthouses, forwarded with endorsement, No. 641, dated 18th March 1885, I have the honor to state that I cordially endorse the Honorable Colonel Shaw-Stewart's report. It will be noticed that as regards Santopilly, I have some time ago in the correspondence as per margin recommended a second-class dioptric light, and as regards quarters so much needed for light-keepers, it would in most cases be advisable to allow them to be built under the supervision of the light superintendent, who would necessarily be constantly on the spot

No. 7694, dated 3rd September 1880.
„ 9658, „ 15th October 1884.

2. In respect to the change of light at Hope Island, this must, of course, be carried out by the Public Works department.

ORDER—dated 20th April 1885, No. 164, Marine.

Recorded.

2. The necessary estimates for giving effect to the several suggestions in the Chief Engineer's statement should be prepared by those concerned.

3. In separate proceedings, the transfer to Hope island of the spare dioptric fourth-order light has been sanctioned, and the Government of India has again been addressed regarding the Santopilly light.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the Master Attendant, Madras.
„ Public Works department.

Exd. J. Wright.

1463/9

From J. H. TAYLOR, Esq., Lieut., R.N.R., Master Attendant, Madras, to the Chief Secretary to Government, dated Madras, 24th March 1885, No. 2614.

Administrative department.

In returning the inspection notes of the Chief Engineer, Public Works department, on certain lighthouses, forwarded with endorsement, No. 641, dated 18th March 1885, I have the honor to state that I cordially endorse the Honorable Colonel Shaw-Stewart's report. It will be noticed that as regards Santopilly, I have some time ago in the correspondence as per margin recommended a second-class dioptric light, and as regards quarters so much needed for light-keepers, it would in most cases be advisable to allow them to be built under the supervision of the light superintendent, who would necessarily be constantly on the spot

No. 7694, dated 3rd September 1880.
„ 9658, „ 15th October 1884.

2. In respect to the change of light at Hope Island, this must, of course, be carried out by the Public Works department.

ORDER—dated 20th April 1885, No. 164, Marine.

Recorded.

2. The necessary estimates for giving effect to the several suggestions in the Chief Engineer's statement should be prepared by those concerned.

3. In separate proceedings, the transfer to Hope island of the spare dioptric fourth-order light has been sanctioned, and the Government of India has again been addressed regarding the Santopilly light.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the Master Attendant, Madras.
„ Public Works department.

Exd. J. Wright.

1463/9

No. 8

Order thereon No. 1082 W. of 8th May

Govt. of {1885} Madras.

MARINE.

Communicated to offices concerned, in continuation of Mems No. 529C dated 13th March 1885.

Issued

Recd. Encl.

G.O., 20th April 1885, No. 164.

No. 110 W. of 8th May 1885

APRIL.

Light houses

~~Encumbrance.~~

Passing orders on a report submitted by the ~~Honorable Colonel Shaw Stewart~~, Chief Engineer, ~~of his recent visit to the port of Cuddalore~~ on his inspection of ~~the~~ on the east coast

With order

To the Supdg. Engr. I circle
" " II "
" " V "

Financial Department

Proceedings of the Madras Government

Read the following:—

8TH MAY 1885, No. 1082 W., PUBLIC WORKS.

1463/10

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. W. RUNDALL, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Gudiváda, 14th April 1885, No. 39 B.C.:—

I have the honor to forward, herewith, two revised estimates, amounting respectively to Rs. 156 and Rs. 815, in lieu of estimates amounting to Rs. 66 and Rs. 110, for repairs to the Armeghon light-house and repairs to the superintendent's quarters at Armeghon light-house. These estimates were sanctioned in G.O., No. 3511 W., of the 6th December 1883.

2. The revised estimates were forwarded by the Executive Engineer, Buckingham Canal division, who prepared them, to the Master Attendant, Administrative Department, Madras, who has countersigned them.

3. In forwarding the revised estimates, the Executive Engineer explains that the original estimates were not worked out when the cyclone of November last occurred, rendering further work necessary, which has been provided for in the estimates now submitted.

4. On receipt of these estimates originally, I requested the Executive Engineer to let me know why permanent, instead of temporary, huts were not estimated for. In reply, Major Drake-Brockman quotes letter, No. 11242, from the Master Attendant, in which that officer requests that huts "at a cost not exceeding Rs. 30 each" may be estimated for.

5. My own opinion is that, as there always must be an establishment of lascars at the light-house, it would be better to provide them with permanent quarters. From your notes on this light-house, communicated to me with your No. 529 C., of the 13th ultimo, I conclude you think permanent quarters should be built. If you decide to have this done, please strike out the sum of Rs. 125 for five huts entered in the estimate.

6. The Executive Engineer has provided for filling up the low ground in the neighbourhood of the light-house, at a cost of Rs. 449.

7. An estimate for adding verandahs to the light-house superintendent's quarters will be prepared and forwarded, but as these estimates were forwarded to me previous to the receipt of your notes on the buildings, and as the works should be put in hand at once, I do not detain them for these additions to be made.

ORDER—dated 8th May 1885, No. 1082 W., Public Works.

The undermentioned revised estimates are sanctioned in supersession of estimates for similar work sanctioned in G.O., No. 3511 W., dated 6th December 1883:—

	Amount. Rs.	Register No.
(1) Repairs to Armeghon light-house ...	156	No. 2 W. of 1885-86.
(2) Repairs to superintendent's quarters at Armeghon light-house	690	,, 3 W. ,,

2. The question as to provision of funds will be considered in the Financial Department. The amount required is shown in the margin.

	Rs.
Works	846
Establishment	195
Tools and plant	8
Total ...	1,094

3. The sum of Rs. 125 provided in estimate No. (2) for five temporary huts for lascars has been struck out. The Superintending Engineer will submit a fresh estimate providing for permanent quarters for the lascars, and for other matters mentioned in the Chief Engineer's notes communicated with endorsement, No. 529 C, dated 13th March 1885, and G.O., dated 20th April 1885, No. 164, Marine.

4. The sanctions accorded in paragraph 1 have been classified as Excluded Local (Port Fund) Civil Buildings, Repairs.

(True Extract.)

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

To the Superintending Engineer, II Circle, with six enclosures.
" Examiner, Public Works Accounts.
" Financial Department.
" Marine "

Order 23rd May 1885. No. 885 (Fin.)
The Accountant General will place the sum of Rs (1094) One thousand and ninety four, at the disposal of the Public Works Department from Port funds.
(True Extract)
Secretary
Chief Secretary

Exd. E. Fernandez.
Spare Copies

To
The Acctt General
" Master Attendant
" Public Works Dept

2/18

1463/11

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated May, 8th.

Recd. *Encl.*

G.O., 8th May 1885, No. 1082 W.

MAY.

Armeghon Light-house

Revised estimates for repairs to — and the superintendent's quarters, sanctioned.

1463
12

Rc 1395 Way 15 June 85

Communicated to the officers concerned.

The total sum required on account of the estimates referred to in G.O. No. 1082 of 8th May 1885, is Rs 10491, not Rs 10946 as noted in the margin thereof. The difference Rs 45 is therefore replaced at the disposal of the Financial Department.

CJ. 5.6.85

To the Supdg. Engr. The Secretary
Examiner P.W. Accts.
Financial Dept.

Rc 2576. 6.6.85

[0]

Govt. of {188} Madras.

(11) Rec 485

To

The Board

Rc 1395 Way 15-6-85

Rec 1/6/85

Proceedings, dated 23 May 1885.
No. 885 Mis.

Subject.

Directing credit to be placed the amount Rs 10,946 at the disposal of the Board from Portfund for Armeghon Light-house

Vide CR 482/1885

8TH JANUARY 1886, No. 69 W., PUBLIC WORKS.

1463/13

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from Lieutenant-Colonel J. L. L. MORANT, R.E., Superintendent of Works, in charge II Circle, to the Chief Engineer, Public Works Department, dated Pulicat, 17th December 1885, No. 453 B.C. :—

With reference to G.O., No. 1104 W., of the 11th May last, communicating G.O., No. 164, Marine, of the 20th April 1885, requesting the submission of the necessary estimates for giving effect to the several suggestions made by you in the statement printed in the above Government order regarding the light-houses at Pulicat and Armeghon, I have the honor to forward, herewith, for your approval and sanction of Government, complete estimates for all the requirements for the above light-houses as shown below :—

Armeghon or Monopolium Light-house.

Repairs.

	Rs.
1. Repairs to light-house	65
Total, Repairs ...	65

Minor Works.

2. Improvements and alterations to Superintendent's quarters ...	960
3. Constructing lascars' lines	1,890

Pulicat Light-house.

4. Constructing lascars' lines	1,750
Total, New Works ...	4,600

These estimates have been countersigned by the Master Attendant.

2. I request that the following transfer may be made to provide funds for minor works :—

Excluded Local (Port Fund).
Miscellaneous Public Improvements.
Rs. 1,281 from Repairs to Minor Works.

3. The works have been begun in anticipation of sanction according to copy of enclosed letter from the Executive Engineer, Buckingham Canal division.

ORDER—dated 8th January 1886, No. 69 W., Public Works.

The undermentioned estimates are sanctioned, and classified as Excluded Local, Miscellaneous Public Improvements :—

Repairs.

	Rs.	
Repairs to Armeghon light-house	65	No. 39 W. of 1885-86.

Original Works.

	Rs.	
Alterations and improvements to Superintendent's quarters, Armeghon light-house.	974	No. 31 W. of 1885-86.
Constructing lines for lascars do. ...	1,890	„ 32 W. „
Do. do. do. attached to the Pulicat light-house.	1,750	„ 33 W. „

2. The following transfer of funds is sanctioned :—

Excluded Local.

Miscellaneous Public Improvements.

From	Rs.	*To*	Rs.
Repairs, Buckingham Canal division ...	1,281	Minor Works, Buckingham Canal division.	1,281

(True Extract.)

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

To the Superintending Engineer, II Circle, with three enclosures.
„ Examiner, Public Works Accounts, with four estimates for note and return to Superintending Engineer, II Circle.
Marine Department.

Exd. E. Fernandez.
Spare Copies.

1463/14

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated January, 8th.

Read. *Encl.*

G.O., 8th Jan. 1886, No. 69 W.

JANUARY.

Armeghon and Pulicat Light-houses

Estimates for certain works at the —, sanctioned, as also certain transfer of funds.

No. 2652 Buckingham Canal Division Office
7th November 1885.
Despd 9th Do.

1463/15

From

The Executive Engineer
Buckingham Canal Division

To

The Superintending Engineer,
2nd Circle

Sir,

With reference to your No. 1008C, 204 83C, and 167C dated 11th & 24th July and 17th August 1885 respectively, I have the honor to submit for sanction complete Estimates for all requirements for the Armeghon and Pulicat Light Houses as shown below:-

Armeghon or Monopalem Light House.

Repairs

1 Repairs to Light House —— Rs 65-0-0

Minor works.

2 Improvements and alterations to Superintendents quarters —— } - 960-0-0

3 Constructing Lascars' Lines 1890-0-0

Pulicat Light House.

4 Constructing Lascars Lines 1750-0-0

Total Minor works. 4600-0-0

2 With reference to G.O. Nos. 1395 W: 1659 W: and 2109 W dated 15th June, 15th July and 18th September 1885 respectively, the following sums were granted under Excluded Local Funds for Expenditure on Light Houses in my Division viz.

Minor Works	Repairs
2,000	2,346

Against the grant for repairs, a sum of Rupees 1065 is only required for expenditure under that head during the current Official year on the Estimates already sanctioned and now submitted for sanction as detailed below:-

Repairing Armeghon Light House and Superintendents quarters sanctioned in G.O. 1082 W. dated 8th May 1885.	Rs 846

	Balance required for 1885-86
Deduct	
Expenditure upto end of 1884-85 162	684
Repairing Pulicat Light House sanctioned by S.G.R. No 1 of 1884-85 316	316
Estimate for repairing Arungalow Light House now submitted as above —	65
Total 1065	

Thus there is a balance of Rs 1,281 available for transfer from Repair to Minor Works Rs grant for which I request that you will kindly obtain the requisite sanction to make up the total minor works grant to Rs 3281 for 1463/16 expenditure during the current official year against the Estimates now submitted for Rs 4,600 shewn above.

3. As the works for which Estimates are now submitted have already been proposed for execution by the Chief Engineer and as all the Estimates have been approved and Countersigned by the Master Attendant Administrative Department Madras and as funds are available to start the works, I have given orders for Commencing the Collection of materials &c in anticipation of formal sanction of the Estimates now submitted to admit of a sufficient time for the utilization of the grants during the current official year.

I have &c

(Signed) R. Drake-Brockman
Major R.E.
Executive Engineer S.C. Division

(True Copy)

Lt. Colonel
Lieut. Colonel R.E.
Superintendent of Works
in Charge of N. Circle.

No. 453 B.C.

Superintending Engineer's office,
2nd Circle, Camp Pulicat.
17th December 1885.

From

The Superintending Engineer, 1463/17
2nd Circle.

To

The Chief Engineer,
Public Works Department,
Madras.

Enclosures. 6
1 Abstract Estimate for Light House.
1 Do of Sixth Quarters with a report & specification.
2 Do of Lists for Lascars at Manapalem and Pulicat.
1 Specification for the above Lists.
1 Copy of Co. Engr's letter.

Sir,

With reference to G.O. No. 1104 W: of the 11th May last, Communicating G.O. No. 164 Marine, of the 20th April 1885, requesting the submission of the necessary Estimates for giving effect to the several suggestions made by you in the statement printed in the above G.O. regarding the Light houses at Pulicat and Armeghon, I have the honor to forward herewith for your approval and sanction of Government complete Estimates for all the requirements for the above Light-houses as shown below.

Armeghon or Monopoleim Light House.

Repairs

1 Repairs to Light House ——— Rs 65

Total Repairs. Rs 65

1463/18

Minor Works.

2 Improvements and alterations to Superintendents quarters ——— } Rs. 960

3 Constructing Lascars Lines ——— 1,090

Pubiat Light House

4. Constructing Lascars Lines ——— 1,750

Total New works. 4,600.

These estimates have been countersigned by the Master Attendant.

2 I request that the following transfer may be made to provide funds for Minor Works.

Excluded Local (Port Fund).

Miscellaneous Public Improvements.

Rs 1,281 from Repairs to Minor works.

3. The works have been begun in anticipation of sanction according to copy of enclosed letter from the Executive Engineer, Buckingham Canal Division

I have the honour to be,

Sir,

Your most obt. Servant.

J. H. Morant

Lieut.-Colonel R.E.

Superintendent of Works

in Charge of Ft. Circle

From,

The Supdtg. Engineer,
2nd Circle.

To

The Chief Engineer,
P. W. Department.

Dated 17th December 1885

No. 453 B.C.

Enclosures: viz.

Pulicat and Armeghon Light Houses at:- Forwards complete Estimates for all the requirements for the - for approval and sanction of Government.

69W

PUBLIC WORKS DEPARTMENT.

No. 69W.

1463/19

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the Jan: 8. 1886

READ the following

From the Supdtg. Engineer II Circle. N. C. No: 453 B.C. d/17 December 1885

The undermentioned estimates are sanctioned, and classified as Excluded Local, Miscellaneous Public Improvements:-

Repairs

Repairs to Armeghon Light House- Rs. 65. No: 30 W of 1885-86.

Original Works.

Alterations and improvements to Superintendents quarters, Armeghon Light House — } Rs. 974. No: 31 W of 1885-86.

Constructing lines for Lascars — do — Rs. 1,890 No: 32 W of 1885-86.

Constructing lines for Lascars attached to the Pulicat Light House } Rs. 1,750 No: 33 W of 1885-86.

2. The following transfer of funds is sanctioned:-

Excluded Local

Miscellaneous Public Improvements

From

Repairs, Buckingham canal Division } Rs 1,281 — Minor Works, Buckingham canal Division — } Rs 1,281.

To The Supdtg. Engr. II Circle with 3 encls. - Examiner P. W. Accts with 4 estimates for note & return to S. C. II - Marine Depts.

Cir/ 20/W/86 4/1 7-1-86 5/1/86 5-1-86

1463/20

C No 1097/55

Govt. of Madras.

PUBLIC WORKS.

Dated

Rec.d

Read

G.O. 8 June 1886. No 70 W

Armeghom Island

Light houses

Estt: for certain works at the — sanctioned as above

Saw Bradley & Dunn

60/4

No 52. B.C. Supdg Engineer's Office 2nd Circle
Bezwada 17th May 1887

1463/21

From,

G. D. Hoyhrone Esquire
Supdg Engineer
2nd Circle

To,

The Chief Engineer
Public works Department
Madras

Enclosures 3.
1 Abstract Estimate
1 Comparative statement
1 Report
3

Sir,

I have the honor to forward for your approval, and sanction of Government, a revised Estimate amounting to Rs 1128 for improvements and alterations to the Superintendents quarters of the Armeghom Light House approved of by the Port officer Madras.

2 The original Estimate for this work, amounting to Rs 974-- was sanctioned in G.O. 190 of the 8th January 1886.

3 The necessity for the revision

remitted is explained in the accom-
= panying report.

I have the honor to be
Sir
Your most obedient Servt

W. D. Turnbull.
Supt Engineer
2d Circle

1463
22

G.O. 69W Dt 8-1-86
G.O 1395W - 15.6-85
G.O. 1082W - 8-5-83

P.W.C. No 3831

(3)

From,

The Supty. Engineer,
2nd Circle.

To,

The Chief Engineer,
P.W.D.

Dated 17th May 1887.
R 20.5.87

No 52 B.C.

Enclos: 3.

Armeghon Light House.
Revised Estimate of Rs 1128
for improvements & alterations
to the Supt. quarters of the —
Forwards for Sanction of
Govt. x ——.

20-5-87

1463W

Public Works Department.

1463/93

Current No. 3831
Letter No. 52 B.C
Dated the 17th May 1887
From the S.E. II Circle

Note of Remarks.

1. The accompanying revised estimate provides for improvements and alterations to the Superintendents quarters of the Armeghon Light House at Monapalem in the Nellore District.

The amount of estimate is Rs 1128 or Rs 154 in excess of the original estimate of Rs 974 sanctioned in G.O. No 69W of the 8th January 1886.

2. The necessity for revision is explained to be due to the old materials which were expected to be available from the building not having been obtained to the value estimated for in the original

23-5-87

original estimate, to the purchase of new materials in lieu of the old ones which were originally intended to be utilised on the Closet &c and to the damage caused by the Cyclone during the execution of the work.

3. The estimate has been approved and countersigned by the Port Officer.

revised
The Est. Orders be
Sanctioned —

[illegible]
21.5.87

21-5-87

B. Works

PUBLIC WORKS DEPARTMENT.

No. 1463 W — 1463/24

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 30th May 1887.

READ the following

From the Supdg. Engineer II Circle, M. C. No. 52 B.C. dy 17th May 1887.

The revised estimate amounting to Rs. 1,128, for alterations and improvements to the Superintendents quarters, Arnegheon Light House, is sanctioned in ~~supersession~~ place of the estimate of Rs. 974 sanctioned in G. O. No. 69 W dated 8th January 1886.

2. This sanction has been registered as Excluded Local No. 9 W of 1887-88, and classified as Miscellaneous Public Improvements, Original Works.

[illegible]
23.5.87

Dd 23/5/87

To
The Supdg. Engr. II Circle with 2 orders.
" Examiner of P. W. Accts with the estimate for note & return to S. C. III
" Marine Department.
(To The Chief Secy for favor of counter-initials)

Jdl 25.5.1887

HLS 25/5.

N 23/5

14.63
25

3831

Govt. of [1887] Madras.

PUBLIC WORKS.

Encl.

Encl. Encl.

G.O. 30 May 1887 No. 1463 W

Superintendent's quarters
Arumeghon Lighthouse

Revised Estimate of
Rs 1128 for alterations
& improvements
to the ——
Buildings

60/5

Rs 30/5 Cur 31/5