GENERAL.
ACCOUNT.

Govt. of {1894} Madras.

PUBLIC WORKS.

Dated May, 21st.

Recd. *Encl.*

21st May 1894, No. 1249 W.

MAY.

Iron service room for the Calingapatam Lighthouse, Ganjam District

Forwarding to the Director General of Stores, India office, an indent for a circular — for compliance.

Govt. of {189 } Madras.

P [illegible] No. 1037

No: 408 W d/14 Febry: '94

To

The Public Works Depts

12.12.93. 3217 W
16.1.94. 165 C
29.1.94. 247 W.

Recd: 10.2.94

Communicated to the Supdg: Engineer I Circle with reference to G.O. 247 W d/29 January 1894.

Dr— O.O.13 10.2.94

Proceedings, dated 3 February 1894
No. 100

Subject.

Requesting the Accountant General to place the sum of Rs 224 at the disposal of the P.W. Depts from Port Funds for the erection of a temporary platform for exhibiting the light at Calingapatam while the permanent light-house column there is undergoing alteration.

S.E. I Circle
Ex P.W.O.

DESPATCHED
10 FEB. 94

B.N.

J.C. 17.ii

INDEXED.
19/2

With order

21st May 1894, No. 1249 W., Public Works.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Letter—from

Colonel J. PENNYCUICK, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

The DIRECTOR-GENERAL of STORES,
India Office,
London.

Sir,

I am directed to forward, for favour of early compliance, an indent in duplicate for a circular iron service room required for the Lighthouse at Calingapatam in the Ganjám district.

2. A new cupola and optical apparatus for this lighthouse were demanded in Marine Department indent, dated 3rd February 1893, and it is proposed to use the iron service room in conjunction therewith.

3. The accompanying copies of the Proceedings of this Government give all available information in regard to what is required, and the details may be left to the manufacturers in England. A plan is also forwarded. It will be seen from the correspondence that the doors of the lanterns and service rooms should be fitted on the north-west side.

No. 3217 W., dated 12th December 1893.
No. 1248 W., dated 21st May 1894.

4. I am to request that the cost of the iron service room, as soon as it can be estimated, may be intimated to this office in view to the necessary appropriation of funds being made.

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

Colonel, R.E.,
Secretary to Govt., P.W.D.

Ootacamund,
21st May 1894.

Exd. C. A. Munisawmy.
Spare Copies

EXAMINER
10 MAY 1894
W.

EXAMINER
24 APR 1894

[G./53]
500—23-11-93.

—Financial Department.

CHIEF SECRETARIAT, MADRAS.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following ~~paper~~:—

Proceedings of the Public Works Department, dated 29th January 1894, No. 247 W.

Order, 3rd February 1894, No. 100.

The Accountant General will be requested
180+41+3 to place the sum of Rupees (224) Two hundred and twenty four
at the disposal of the Public Works Department from Port
Funds.

(True Extract)

Lionel Davidson 8/2
Ag: Assistant Secretary.

To

The Public Works Department.
" Presidency Port Officer.
" Accountant General.

P. W. D. Form No. 139.

24 APR 1894
W. ACCOU

____________________PROVINCE.

Annual indent on England for Stores.

EXAMINER,
10 MAY 1894
ACCOUNTS.

NOTES.

Reference to P. W. D. Code.

Chapter X, paras. 79 to 82.

1. All articles required for the public service, which cannot be manufactured in India, are, as an almost invariable rule, to be obtained by indenting on the Secretary of State. The Store Department at the India Office constitutes a special agency, which is maintained for the express purpose of purchasing stores in England on account of the Government of India, and, save in the special cases mentioned below, stores of European manufacture must not be bought in India, or obtained direct from Europe independently of the India Office.

2. The special cases in which, with the previous sanction of the Government of India or of the Local Government, as the case may be, stores of European manufacture may be obtained in India are:—

(*a*) When for any special reason it may be more economical to do so;

(*b*) When stores indented for from England have not arrived, and inconvenience to the public service is anticipated from the delay in the supply;

(*c*) When the stores are perishable.

3. Indents for public works stores, other than railway stores, so long as they are within the grant assigned for the purpose, should be sent direct by the Secretaries in the Public Works Department of the several Local Governments and Administrations to the India Office; three copies of printed and two of manuscript indents should be sent, and a copy be submitted to the Government of India.

4. This form of indent should invariably be adhered to, other modes of application being entirely discarded, and requisitions in the body of letters, which may be overlooked or misunderstood, being specially avoided.

5. The columns (which sufficiently explain their own meaning) must be filled up without alteration, and others are not to be substituted, any remarks that may be considered necessary being confined to the column for that purpose, which should contain every explanation that may guide in the supply and pattern of the articles required.

6. Where an established proportion for general stores has not yet been fixed, it should consist of three years' ordinary expenditure: the quantities in store at the date of requisition being added to the quantities due upon former indents, the difference between the aggregate of these two columns and the established proportion is the proper quantity to be asked for. This procedure if duly attended to, will always keep up an ample supply for general service; if, however, in exceptional circumstances, it is found desirable to exceed the established proportion, the reason for so doing must be inserted in the column of remarks. The calculation of the established proportion on the basis of three years' ordinary expenditure is not applicable in the case of railways.

7. The columns printed in red ink are to be left blank for completion in England.

8. In the column of remarks, the port to which stores are to be consigned should be stated, and also the names of the last two or three vessels whose consignments have been included in the quantity in store as shown in column 6.

9. Each indent must be accompanied by a certificate of the necessity for the stores indented for, and that they cannot be advantageously procured of local manufacture or from surplus stores of other departments, railways or administrations.

10. In the case of stores for imperial purposes (including all state railways) in a year not yet begun, the sanction of the Government of India must be obtained to the proposed allotment before the Examiner can give his certificate; but for stores for provincial services (except provincial state railways) the sanction of the Local Government or administration will suffice for the Examiner.

11. When it is expected that the outlay will be provided partly in one year and partly in another, the following addition should be made to the Examiner's certificate—" and that the balance of the estimated outlay in England, or £ will be provided by the Government of India in the estimates of the year 189 -9 . *Vide* Government of India letter No. dated "

12. In preparing indents attention should be paid to the rules on the subject in appendix O. (P. W. Code, vol. I).

Caledonian S. P. Co.—No. 202 P W.—13-12-92—3,000

and carry the lantern &c. The Service room to be complete with door, windows and all accessories. The proposed position of the door is x shown on the accompanying plan.

24 APR 1894

x Should be obtained from the Provincial [illegible] [illegible]

The indent, as now revised, includes the whole structure above the top of the existing column including the floor to the lightroom and everything necessary for the complete installation of the light.

Revised Indent.

R. H.
3/1

W. Whitspitel
8/1/94

Asst Chief Engineer and
Under Secy: to Govt: P. W. D:
Irrigation Branch.

PWE x 587
~~1[illegible]~~/94
~~2[illegible]~~
~~3380~~
3589

No. 11/248 84
22 JAN. 94

P. W. D. Form No. 139.

Indent on England for stores required for the Public Works Department in the Province of ______________, for the service of the Indian Government.

I hereby certify that the stores enumerated in this indent are absolutely required for the service of the Public Works Department ~~for a period of~~ months, and I further certify that I have, by a personal inspection of works and stores, satisfied myself that they comprise the least possible quantity necessary for the above period.

Dated this 23 *day of* April 189 4 *at* ______________

______________†

Note—1. In cases in which a personal inspection of books and stores cannot be made, the portion of the certificate relating thereto should be scored through.

2. The Indent should be paged, and the signature attached to the last line of the Indent.

3. The quantities entered in the indent should invariably be given in English weights and measures.

PWE ~~1~~ ~~[illegible]~~ Duple
~~3380~~/94
3589

I certify that funds meet to the outlay which it is estimated will be incurred in England in connection with this indent during the year 18 -8 . (a)

Examiner of P. W. Accounts,

No. *dated the* 18 . ______________*Province.*

* Signature.

† Rank.

(a).—Here insert either "have been provided for in the estimates of the Public Works Department to the extent of £ " or " will be provided by the Government of India in the estimates of that year, *vide* Government of India No. dated "

Received by the Director General of Stores in England the day 18

P. W. D. Form No. 139. P. W. D. Form No. 139.

Annual indent for Stores required in Ganjam Division

Names of Articles.	Revenue to which cost is chargeable. *	Imperial head of account or grant to which cost is chargeable. †	Established proportion.	How established proportion is calculated.	Number or quantity in store on	Number or quantity due on previous indents.	Number or quantity now indented for.	Rate.	Value Of number or quantity due on previous indents.	Value Of number or quantity now indented for.	Remarks state Port of landing	Shipped under provision. ‡	Proposed to be provided. ‡	Remarks by the Director General of Stores. ‡
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circular Service Room Iron on the Calingapatam Light house for details see accompanying report - - - -	Excluded Local Port Funds Provincial	-	-	-	-	-	1	-	-	-	Calingapatam Ganjam An Indent for the lantern and optical apparatus was submitted by the Presidency Port Officer on 3rd February 1893. -Signed- G. D. Wybrow Suptg: Engineer First Circle			

Suptg: Engineer I Circle

April 1894

* Imperial, Provincial, Local, Mysore, or Berar.
† This column will be left blank, if the charge is not debitable to the Imperial revenues.
‡ These columns will be left blank for filling up in England.

and carry the lantern &c. The Service room to be complete with door, windows and all accessories. The proposed position of the door is shown on the accompanying plan.

Should be obtained from the [illegible] Port office [illegible]

Revised Indent.

The indent, as now revised, includes the whole structure above the top of the existing column including the floor to the lightroom and everything necessary for the complete installation of the light.

3/1

PWE x 587
1244/54
~~2753~~
~~3380~~
3589

8/1/94
Asst Chief Engineer and
Under Secy: to Govt: P. W. D.
Irrigation Branch.

No. 1/240
22 JAN. 94

EXAMINER
24 APR 1894

NOTES.

Reference to P. W. D. Code.

Chapter X, paras. 79 to 82.

1. All articles required for the public service, which cannot be manufactured in India, are, as an almost invariable rule, to be obtained by indenting on the Secretary of State. The Store Department at the India Office constitutes a special agency, which is maintained for the express purpose of purchasing stores in England on account of the Government of India, and, save in the special cases mentioned below, stores of European manufacture must not be bought in India, or obtained direct from Europe independently of the India Office.

2. The special cases in which, with the previous sanction of the Government of India or of the Local Government, as the case may be, stores of European manufacture may be obtained in India are :—

(*a*) When for any special reason it may be more economical to do so ;

(*b*) When stores indented for from England have not arrived, and inconvenience to the public service is anticipated from the delay in the supply ;

(*c*) When the stores are perishable.

3. Indents for public works stores, other than railway stores, so long as they are within the grant assigned for the purpose, should be sent direct by the Secretaries in the Public Works Department of the several Local Governments and Administrations to the India Office ; three copies of printed and two of manuscript indents should be sent, and a copy be submitted to the Government of India.

4. This form of indent should invariably be adhered to, other modes of application being entirely discarded, and requisitions in the body of letters, which may be overlooked or misunderstood, being specially avoided.

5. The columns (which sufficiently explain their own meaning) must be filled up without alteration, and others are not to be substituted, any remarks that may be considered necessary being confined to the column for that purpose, which should contain every explanation that may guide in the supply and pattern of the articles required.

6. Where an established proportion for general stores has not yet been fixed, it should consist of three years' ordinary expenditure : the quantities in store at the date of requisition being added to the quantities due upon former indents, the difference between the aggregate of these two columns and the established proportion is the proper quantity to be asked for. This procedure if duly attended to, will always keep up an ample supply for general service ; if, however, in exceptional circumstances, it is found desirable to exceed the established proportion, the reason for so doing must be inserted in the column of remarks. The calculation of the established proportion on the basis of three years' ordinary expenditure is not applicable in the case of railways.

7. The columns printed in red ink are to be left blank for completion in England.

8. In the column of remarks, the port to which stores are to be consigned should be stated, and also the names of the last two or three vessels whose consignments have been included in the quantity in store as shown in column 6.

9. Each indent must be accompanied by a certificate of the necessity for the stores indented for, and that they cannot be advantageously procured of local manufacture or from surplus stores of other departments, railways or administrations.

10. In the case of stores for imperial purposes (including all state railways) in a year not yet begun, the sanction of the Government of India must be obtained to the proposed allotment before the Examiner can give his certificate ; but for stores for provincial services (except provincial state railways) the sanction of the Local Government or administration will suffice for the Examiner.

11. When it is expected that the outlay will be provided partly in one year and partly in another, the following addition should be made to the Examiner's certificate—"and that the balance of the estimated outlay in England, or £   will be provided by the Government of India in the estimates of the year 189 -9 . *Vide* Government of India letter No.   dated   "

12. In preparing indents attention should be paid to the rules on the subject in appendix O. (P. W. Code, vol. I).

24 APR 1894

EXAMINER
10 MAY 1894
ACCOUNTS

P. W. D. Form No. 139.

______________PROVINCE.

Annual indent on England for Stores.

Caledonian S. P. Co.—No. 202 P W.—13-12-92—3,000

Report to accompany plan & estimate ~~No. I~~ for placing a new lantern and apparatus of the 4th Order on the column at Calingapatam

---

1/ The cutstone coping on the column will be removed and rebuilt in Portland Cement – On this, coping will be built a circular room with a wall 1 foot thick of cut stone in Portland Cement –

2. The Cupola of the lantern will be secured to the masonry by means of 6 holding down bolts –

3. Access to the lantern room/ will be gained by means of a wooden ladder, inside the service room –

4. Two ventilators 12" × 12", with vertical swing shutters, have been provided –

5. The lighting apparatus will be supported by beams, as shewn in the plan –

A balcony 1'-9" broad is provided round the outside of the cupola.

6. A lump sum has been added for fitting up the cupola & for removing the old cupola – The actual cost of putting up the new cupola &c at Hope Island amounted to Rs 800, & the same amount has been allowed in the present estimate –

Dont print

Supt Engrs office 1st Circle.
Dowlaishweram –
9th August 1893 –

Supt Engr 1st Circle.

EXAMINER
10 MAY 1894
ACCOUNTS

Calingapatam Lighthouse.

Dont print

Description of Tower.

The existing column is a solid masonry structure 6'-0" square ▨ 6' 6' access to the top of which will be by an iron or wooden stair case. The height of the column from base to top of masonry is 64. feet.

Proposed alterations.

The alterations proposed are to construct a service room on the top of the existing column and to provide a new lantern and optical apparatus as indented for in indent XXI dated 3rd Feby 1893. In other words the proposal is to build a small iron tower on the top of the existing masonry column.

1893

Proposed Service room.

The lantern and optical apparatus have already been indented for and what is now required is a circular iron service room which will be bolted to the e[illegible]ting masonry

Improvements to the Light House at Calingapatam

ESTIMATE FORM:—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
Cutstone in Portland Cement						
Coping over existing Columns	1	8-9	8-9	1-6	115	
— do — do — remainder	1	10-3	10-3	0-9	79	
Wall around including arch works	1	20-6	1-0	6-8	137	
Total Cft					331	
Deduct for door rectangular portion	1	2-6	1-0	3-9	9	
— do — do — gothic portions	1	2-3	1-0	2-0	4	
— do — do — Ventilators	2	1-0	1-0	1-0	2	
Total deductions Cft					15	
Net Cft of Cutstone in Portland Cement					316	or 320
Salwood work						
Joists large	2	6-6	0-6	0-8	4-4-0	
— do — Small	1	5-3	0-3	0-4	0-5-3	
— do — at sides of entrance to top	2	2-3	0-3	0-3	0-3-4	
Planking large for platform	11	Say 3-0	1-0	0-1½	4-1-6	
— do — Small	11	2-6	1-0	0-1½	3-5-3	
— do — for lamp box	2	5-8	1-0	0-1½	1-5-0	
	2	4-6	1-0	0-1½	1-1-6	
	2	3-11	1-0	0-1½	0-11-9	
Total Cft of Salwood works					16-1-4	
Deduct for plates	1	1-3	1-3	0-1½	0-2-4	
Net Cft of Salwood work					15-11-3	or 16 Cft
Iron work						
Holding down bolts	6	4-8	0-7/8"	dia	92.46	
Anchor plates	6	1-0	1-0	0-0½	120.00	
Plate over & below joists for resting Pedestals	2	1-3	1-3	0-0½	62.40	
Bolts to — do — at Corners	4	1-0	0-0½	dia	2.62	
— do — do — at sides	2	1-0	0-0¾	dia	2.95	
Stanchions flat portions	11	2-2	0-2	0-1	159.50	
Legs to — do — do	11	1-6	0-2	0-1	110.22	
Stanchions round portion	11	3-0	0-1	dia	86.50	
Bolts for — do —	11	1-2½	0-0¾	dia	19.64	
	Carried forward				656.29	

EXAMINER
No.
10 MAY 1894
P. W. ACCOUNTS

24 APR 1894
P. W. ACCOUNTS

SUPERINTENDING ENGINEER
No. 2/1248
22 JAN. 94

10

8265

3589

1757

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		RS.		RS.	RS.
	Improvements to the Light House at Calingapatam				
320 Cft of	Cutstone in Portland Cement	50-0-0	100 Cft	160	
16 Cft of	Salwood work wrought and put up	2-8-0	Cft	40	
800 lbs of	Iron work	0-3-0	lbs	150	
11 Sft of	Gothic batten door	0-12-0	Sft.	8	
	Ladder into the Lamp room	Lump sum		3	
	Cover to Opening	Lump sum		2	
No 2	Ventilators in the Store room with Swing Shutters	3-0-0	each	6	
	General Charges on Rs 156-0-0	2-0-0	Cent	3	
	Workshop Centage on Rs 153-0-0	25-0-0	Cent	37	
	Putting up Cupola and lighting apparatus at Calingapatam	Lump sum		797	
	Total estimate Rs			1206	
	Add Establishment Charges	23-0-0	Cent	276	
	Add for Tools and Plant	1-8-0	Cent	18	
	Total Estimate Rupees				1500
	Grand Total of Estimate ..				1,500

G. ...
Superintending Engineer I Circle
Dated 11/8/1893

STATION ~~X~~
Dated 189 .

~~Executive Engineer.~~

24 APR 1894

EXAMI... 10 MAY 1894 ACCOUNTS

ESTIMATE FORM:—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
		B.f			656.29	
Hand rails	3	33-6	0-0½	diam	15.92	
Stanchions at floor of Circular store room	2	3-0	0-1	diam	15.72	
Legs to Stanchions	2	2-0	0-2	0-1	21.72	
Hand rails	3	6-0	0-0½	dia	15.94	
Add for heads and nuts					20.00	
Total lbs of iron work					800.39	or 800 lbs.
Ladder to go into the Lamp room	Lump sum Rs 5					
Cover to Opening	Lump sum Rs 2					
Swing Ventilators in the store room	No 2 at Rs 3-0-0 each = Rs 6					
Gothic Door (2'-0" × 5'-9")	1	2-0	"	5-9	11	11 Sft.

Rs 5-2 4-3-7-10-9
~~7338~~/53
~~8365~~
~~4476/53~~
1-24/94
~~2344~~
~~3380~~
3589

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

SUPERINTENDING ENGINEER'S OFFICE
CHECKED
17 APR. 94
No. 3/253
P. W. D., 5th CIRCLE

Dated December, 12th.

Recd. *Encl.*

G.O., 12th Dec. 1893, No. 3217 W.

DECEMBER.

P.W.E. [illegible] 11
~~3225~~/
3589

Calingapatam Lighthouse

Proceedings, Marine Department, on proposals for fixing a new lantern and apparatus on the existing tower of the —, communicated to the Superintending Engineer, I Circle, and to Mr. Ashpitel with instructions.

Reference to Madras P. W. D. Code,
Edition of 1886.
Paras. 921, 932, &c., 949, 952—955, 962—964.

24 APR 1894
ACCOUNTS

P. W. D. Form,
No. M 207.

EXAMINER
10 MAY 1894
P. W. ACCOUNTS

SUPERINTENDING ENGINEER
No. 2/124
22 JAN. 94
FIRST CIRCLE

Circle— First

Division— Ganjam

District— Ganjam

Taluk (or Estate in case of Estate Works)—

ESTIMATE FORM.—Abstract.

Financial Head— Excluded Local

Budget Head— Miscellaneous Public Improvements

Departmental Head— Original works.

Main Head— (C) Part

Sub-Head—

154 W.
15 DEC. 93

Project of which the work forms part—

Section—

Name of Work— Improvements to the Light House at Calingapatam.

Amount of Estimate, Rs.— 1500-0-0

To be carried out by—

O.W. E. 1 ~~2~~ 8
~~7338~~/53
~~8265~~
~~[illegible]~~/53
1214/94
~~224~~
~~2288~~
3589

3
Marine
6

57

REFERENCES.

Enclosure to S. E. I circle's letter no 302 w/ 9/8/93

Order—dated 2nd December 1893, No. 425, Marine.

The plans and estimate received from the Public Works Department will be returned, through the Presidency Port Officer, for further consideration with reference to Mr. Ashpitel's observations in the first six paragraphs of his letter of the 4th November.

2. * * * *

(True Extract.)

(Signed) A. T. PRINGLE,
Assistant Secretary.

From the Acting Presidency Port Officer, to the Chief Engineer, Public Works Department, dated Madras, 7th December 1893, No. 690/229 P.W.

In forwarding herewith G.O., Marine, No. 425, dated 2nd December 1893, and its enclosures, I have the honour to remark as follows with reference to the extract from Mr. Ashpitel's letter of 4th November 1893.

2. The proposal to have an iron service room commends itself to me, and I would suggest it being obtained from England in the manner pointed out.

3. An oil store is already in existence.

4. The plan and estimate for a temporary lighthouse is suitable and the structure necessary.

5. The present port lantern will be exhibited from the platform during the erection of the new light.

6. As the new light is notified for exhibition on May 1st, 1894, I would suggest that the provision of the service room be treated as urgent.

1025

ORDER—dated 12th December 1893, No. 3217 W., Public Works.

The order in the Marine Department No. 425, dated 2nd December 1893, will be communicated to the Superintending Engineer, I Circle, and to Mr. Ashpitel. The latter officer will be requested to furnish the requisite particulars to enable the iron service room proposed by him to be designed and made up in England.

2. It is unlikely that the room will be completed and shipped to this country in time to be erected by the 1st May 1894 as contemplated by the Presidency Port Officer in paragraph 6 of his letter No. 690/229 P.W., dated 7th December 1893.

3. The Superintending Engineer will arrange for the erection of the temporary platform on which the light is to be exhibited while the permanent structure is undergoing alteration.

(True Extract.)

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

To F. W. Ashpitel, Esq., through the Chief Engineer for Irrigation,
with plans and estimates (4) of the permanent lighthouse.
,, the Superintending Engineer, I Circle,
with plans and estimates ~~(4)~~ 3 of temporary lighthouse.
,, the Marine Department.

Exd. C. A. Munisawmy.
Spare Copies

Madras
2d January 1894

From

F. W. Ashpitel Esquire
Asst Chief Engineer &
Under Secretary to Govt.
P. W. D. Irrigation Branch.

To,

The Secretary to Government
Public Works Department
thro' the Chief Engineer for Irrigation

Sir,

With reference to G.O. No 3217 W. dated 12th December 1893, I have the honor to forward herewith the particulars therein called for so far as the limited information at my disposal will permit. I have not attempted to specify the details of the proposed service room as I believe that these had better be left to the

---

EXAMINER
10 MAY 1894
W. ACCOUNTS

EXAMINER
24 APR 1894
ACCOUNTS

12th December 1893, No. 3217 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

G.O., dated 2nd December 1893, No. 425, Marine.

Read—the following papers :—

Endorsement of the Public Works Department, dated 19th September 1893, No. 871 D.

Endorsement of the Public Works Department, dated 10th November 1893, No. 3705 C., transferring the following letter from F. W. ASHPITEL, Esq., Executive Engineer, Public Works Department, dated 4th Nov. 1893 :—

With reference to your endorsement No. 3229 C. of 29th September 1893 forwarding for remarks an estimate for fixing a new lantern and apparatus on the existing lighthouse tower at Calingapatam, I have the honour to point out that the proposals submitted by the Superintending Engineer, I Circle, apparently require considerable modification—

(1) In the estimate the floor of the lamp room and beams on which it rests are proposed to be of wood which can only increase the risk of fire without any compensating advantage. This floor and the beams on which it rests should be of iron with proper arrangements for ventilation from the service room.

(2) The service room is proposed to be constructed of masonry 1′ 0″ thick owing to the small size of the existing column. This thickness does not appear to be sufficient, and I would suggest, as a more satisfactory arrangement both on the score of stability and appearance, that the structure should be of iron above the existing column. This iron service room may be obtained from England with the rest of the apparatus as it must be designed to fit the lantern base.

(3) As designed there appears to be no attempt to regulate the ventilation through the service room and the result will probably be extremely unsatisfactory.

(4) If the suggestion made above is approved, all that is necessary is to send a plan of the tower to England with a letter explaining what is required.

(5) I do not see in the estimate any provision for an oil store, but possibly there is one in existence.

(6) I am unable to offer any remarks regarding the necessity for the construction of a temporary lighthouse, as I do not know what spare apparatus the Port officer may have in store. If he has a spare port light, it may be exhibited from the existing tower during construction.

* * * *

the authorities in England who have designed the lantern.

(2) A point for consideration is the position of the door in the proposed service room and this must be fixed with reference to the prevailing winds. If, however, the lantern and apparatus &c indented for have been designed to show a light all round the horizon this is a matter which can be settled afterwards and the revised indent need not be delayed for this information.

I have the honour to be

Sir

Your Most Obedient Servant

8/1/94

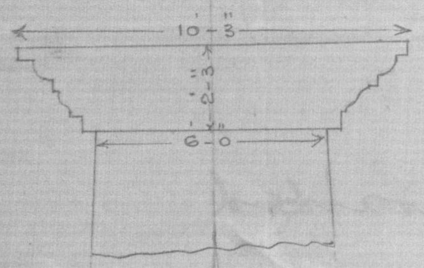
Asstt Chief Engineer and
Under Secy: to Govt: P.W.D. ... Circle

5

Report to accompany Indent for an iron Service room to Calingapatam Lighthouse

5-80

Print



The existing column (formerly an obelisk erected for a land mark) is of masonry, 64' in height - The top of the column is square of the dimensions shewn in the margin.

Service Room - A new cupola, & optical apparatus have already been indented for, in Indent dated 3rd February 1893 - Immediately beneath the lantern room, it is proposed to erect an iron service room, 6 feet diameter by 7 feet in height - The service Room to be provided with means of ventilation - The service Room to be bolted down to the masonry of the column -

Access to the service Room will be by means of a small door, at the top of the wooden ladder, outside the column -

Access to the lantern room to be by means of a ladder, inside the service Room, with a suitable opening in the floor of the lantern room -

Gallery - To be erected round the lantern room, at the top of the service room, as shewn in the elevation of lighthouse - The gallery to be 1 foot 9 inches wide, protected by an iron railing -

2-4-94 Supt. Engr. 1st Circle

EXAMINER

Madras
2nd January 1894

From

J. W. Ashpitel Esquire
Actg. Chief Engineer &
Under Secretary to Govt.
P. W. D. Irrigation Branch

To,

The Secretary to Government
Public Works Department
thro' the Chief Engineer for Irrigation.

Sir,

With reference to G. O. No. 3217 W. dated 12th December 1893, I have the honor to forward herewith the particulars therein called for so far as the limited information at my disposal will permit. I have not attempted to specify the details of the proposed service room as I believe that these had better be left to the

C.N. 2908.

Govt. of {1894 Madras.
PUBLIC WORKS.

Very urgent

Dated

2/5

Engd.

G.O., 27th May 1894 No. 1248-W

Iron service room for the Calingapatam Light house, Ganjam Dt.

An indent for a Circular — ordered to be forwarded to the Home Government for Compliance.

—

Ditto:

Forwarding to the Director General Stores, India Office, an indent for a Circular for Compliance

JC 21/5

Madras
2d January 1894

From

J. W. Ashpitel Esquire
Offg. Chief Engineer &
Under Secretary to Govt.
P.W.D. Irrigation Branch

To,

The Secretary to Government
Public Works Department
thro' the Chief Engineer for Irrigation.

Sir,

With reference to G.O. No. 3217 W. dated 12th December 1893, I have the honor to forward herewith the particulars therein called for so far as the limited information at my disposal will permit. I have not attempted to specify the details of the proposed service room as I believe that these had better be left to the

Indent for new
service room for
College of Cultures
hospital houses

Present
papers

3/5

~~The Hon the Chief Secy~~
~~is in favour of~~
~~construction~~

W
Out

C.S. 1615
H.E. 1815
1119

To

The Director General of Stores
India Office
London.

Sir,

I am directed to forward, for favour of early compliance, an indent in duplicate for a circular iron service room required for the lighthouse at Calinga=patam in the Ganjam district.

2. A new cupola and optical apparatus for this lighthouse were demanded in Marine Department indent dated 3rd February 1893, and it is proposed to use the iron service room in conjunction therewith.

3. The accompanying copies of the Proceedings of this Government

130

No. 3217 W. d/12th Decr '93 }
" 1248 W d/. 21st May 94 } give all available information in regard to what is required, and the details may be left to the manu=facturers in England. A plan is also forwarded.

(The plan on tracing cloth to be sent)

It will be seen from the Correspondence that the doors of the lanterns and service rooms should be fitted on the north ~~east~~ west side.

4. I am to request that the cost of the iron service room as soon as it can be estimated, may be [~~reported~~ intimated] to this office, in view to the necessary appro=priation of funds being made.

I have &c

165

17/5/94

18.5.94

P. W. CURRENT No. 3589

From

THE SUPERINTENDING ENGINEER,
V CIRCLE,

No. 1627W d/ 19-6-90
" 165C d/ 16.1-94
" 247W d/ 29.1.94
" 408W d/ 14.2-94
" 1639C d/ 12.4.94
" 1882C d/ 9.5-94

To

THE Chief Engineer
P. W. Department

Thro: The Examiner
P. W. Accounts.

Dated 23rd April 1894.
Recd. 12.5.94

~~Pub. 4~~
~~2280/94~~

ENCLOSURES. 4 13 (2 plans)
Indents (in Triplicate)

No. 121 W

Iron Circular Service room

Forwards an Indent in Triplicate on the Director Genl. of Stores in England for an — required for the Light House at Calingapatam

O.S.S. 64/

A/

No: 1248W. d/ 21st May 1894. Genl. Acct-

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From J. W. Ashpitel Esquire Ex: Engnr. dated 2nd January 1894
Endorsement by the Ch: Engnr. for Irrign. No. 1W. d/ 8-1-'94
Endorsement in the P.W. Dept. No. 165C. d/ 16-1-'94
From the Suptg Engnr. I Circle No. 7 G.R. d/ 2-4-'94
Endorsement from the Presidency Port Officer No. $\frac{690}{79}$ d/ 7-4-'94
Endorsement in the P.W. Dept. No. 1639C. d/ 12-4-'94
Telephone message from the Presy: Port Officer d/- 11-4-'94
From the Suptg Engnr. V Circle No. 121W. d/ 23-4-'94
From the Examiner, P.W. Accounts No. 1893 D. d/ 10-5-'94

10 S.P.

---

11 Pice

The indent will be forwarded to the Home Government for compliance.

W
19 May

To

The S. E. I Circle
" S. E. V Circle
" Exar. P. W. accts
" Marine Dept.

Copy to the Chief Engineer for Irrigation

Desptd 27/7/94

W
19 May

H. E. No. 1249W. d/ 21st May 1894

To

The Director General of Stores

(40—1,000—21-4-94.)

P. W. CURRENT No. 2908

rooms, and should be so fitted before leaving England.

(26)

Regd. 14-4-94

Await receipt of reply from S. E. V Circle to No. 1639 C d/12-4-94

Ce
14-4-94

O.S.S. 47

EXAMINER No. 978 C 24 APR 1894 P. W. ACCOUNTS

EXAMINER No. 10 MAY 1894 P. W. ACCOUNTS

No. 121 W.

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,

Chepâk 23rd April 1894.

From
J. C. Larminie Esquire
SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer P. W. Department
Thro' The Examiner of P. W. Accounts

SIR,

With reference to your Endorsement No. 1639/C d/12th April 1894 - returned herewith - with its Enclosures I have the honor to forward an Indent (in triplicate) on the Director General of Stores in England for an iron Circular Service room required for the Light House at Calingapatam.

Enclosures 2
Chief Engrs No. 1639 C 12-4-94 with all enclosures
1 Indent in Triplicate

I have the honor to be
Sir
Your most obedt. servt.

J. C. Larminie
Supdg: Engineer V Circle

73/4

250—6-2-94.

P. W. CURRENT No. 2792 33

FROM 3585 ~~3880~~/94

G. D. Wylrow Esquire

SUPERINTENDING ENGINEER,

FIRST CIRCLE.

TO

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT

Thro' the Presidency Port Officer.

DATED 2nd

DESPATCHED 3rd } April 1894.

RECEIVED 10

NO. 7 G. N.

ENCLOSURES 9 10 (2 plans)

SUBJECT.

Forwarding an Indent accompanied by a report for an Iron service room to be erected at the top of the present Calingapatam Light house –

S. E. I. / 6 500—13—2—93

24 APR 1894

6 APL 94

No 690/79 P.W

PW 36

Forwarded for the necessary sanction.

H. A. Theel

Commander R. I. M.

Ag. Presy Port Officer

Madras
7 April, 1894

SUPERINTENDING ENGINEER'S OFFICE
CHEPAUK
17 APR. 94
No. 2536 W
P. W. D., 5th CIRCLE

To The Chief Engineer to Govt.
P. W. Department
Chepâk.

No. 1639 C d/ 12th April 1894

10

Forwarded to the Supdg Engr V Circle, in view to the indent being prepared in triplicate and submitted through the Examiner, with the usual certificates –

The return of these papers is requested.

C. H. B. Keeler
Under Secy to Govt. P.W.D.

10.4.94

Ca

To the S. E. V circle, with copy of G.O. No 3217 W d/ 12.12.93.

Telephone Message.

8

From. The Presidency Port Officer.

To The Chief Engineer to Gov
P. W. D.

d/ 11-4-94

With reference to the concluding part of para 2 of letter No. 7 G. N. dated 2nd April 1894, from the Supty Engineer, I Circle, forwarded to you with thei Office Endorsement No. 690/79 P. W. d/ 7 April/94, pleas note that the light illuminates only 270 degrees, and not all around the Compass. Th centre of the light faces nearly due East, the north west side as pointed out by the Supe-rintending Engineer is a suitable place for door of lanterns and servic

P. ges

I have the honor to be,

Sir,

your most Obedient Servt.

J. D. Wybrow,

Supd. Engineer 1st Circle.

EXAMINER
No.
10 MAY 1894
P. W. ACCO

E.D.
2/4

EXAMINER
10 MAY 1894
P. W. ACCOUNTS

No. 79. W

FROM

G. D. Wybrow Esq
SUPERINTENDING ENGINEER
FIRST CIRCLE.

Thro' the Presidency
Port officer.

TO

THE CHIEF ENGINEER
PUBLIC WORKS DEPARTMENT.

DOWLAISHWERAM, 2^d^ April 1894

Enclosures. 9.
1 Chief Engr's. endorsement no $\frac{165 C}{6-1-94}$ on Mr. Ashpitel's report.
1 Memo of Mr. Ashpitel d/ 8-1-94
1 Detaile Estimate of Improvements to Calingapatam Light house
1 Abstract Estimate of — do — do —
1 Report to accompany Estimate &c.
1 Plan showing proposed Improvements to the Light house.
1 Indent for an Iron service room
1 Tracing of Elevation of Calingapatam Light house showing proposed service room & Cupola.
1 Report to accompany the Indent for an Iron service room.

SIR,

With reference to your endorsement No. 165 C. dated 6-1-94 herewith returned, I have the honor to forward an Indent accompanied by a report for an iron service room to be erected at the top of the present Calingapatam Lighthouse.

2. I regret that I find it impossible to prepare a plan shewing the position of the door in the service room with reference to the prevailing wind. I could only shew it with reference to the points of the compass, & this would be of little or no use to the makers. The prevailing wind at Calingapatam is South-East for 9 months out of the 12. The door should therefore be placed on the opposite or N.W. side. As the new light will illuminate all round the compass, the position of the door, as pointed out by Mr. Ashpitel, can be fixed when putting up [illegible] service room.

I

EXAMINER
No.
10 MAY 1894
DISBURSES
P. W. ACCOUNTS

EXAMINER
24 APR 1894
P. W. ACCOUNTS

P.W.E. + 43
~~2294~~/94
~~3380~~
3589

SUPERINTENDENT
17 APR. 94
4/2536/94
P. W.

P. W. CURRENT No. ~~124~~ $\frac{E.3}{65}$

E. I. FORM No. 10—1,000—22-4-93

3589 ~~3380~~ ~~2294~~/94

~~1893~~ 1894

24 APR 1894
P. W. ACCOUNTS

From

Lt Coll: R.R.E. Drake Brockman R.E.
~~Lieut.-Col. R. E.,~~
Chief Engineer for Irrigation,

To

The Secretary to Government
P. W. Department.

No. 1 W.

Dated 8th January ~~1893~~ 1894

Despatched 9th — do —

Received 9.1.94

Enclosures. ~~4~~ 5 (1 Plan)

Subject.

Calingapatam Light House — Forwards letter from Mr. Ashpitel submitting particulars called for in G.O. No. 3217 W dated 12th Decr/93 in connection with the ——

M. H. Sir
Let the file with ... [illegible]

... OFFICE
18 JAN 94

427

No. 165 C. of 16 January 1894

Forwarded, through the Presidency Port Officer, to the Supdg. Engineer I Circle for submission of an indent on the Home Govt. for the proposed iron service room.

2. The Presidency Port Officer is requested to be good enough to fill in the number and date of the indent for the light apparatus, and the Supdg. Engineer will insert the height of the column, and submit a plan showing the position of the door of the service room.

3. The return of these papers with the indent is requested.

J. ... [illegible]
Lt. Coll. R.E.
Secretary to Govt. P.W.D.

No. 1248 ...
22 JAN. 94
1ST CIRCLE

No. 690/11 P.W.

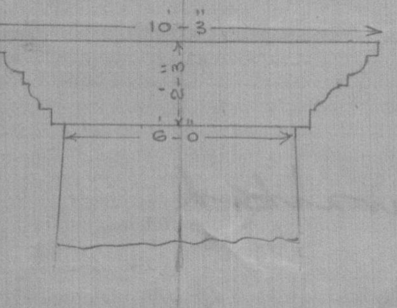
To
The Supdg. Engineer I Circle
through the Presidency Port Officer

Forwarded. The date of indent is the
... February 1893. No number has been given ...

5

Report to accompany Indent for an iron Service room to Calingapatam Lighthouse

5-80



The existing column (formerly an obelisk erected for a land mark) is of masonry, 64' in height. The top of the column is square of the dimensions shewn in the margin.

Service Room. A new cupola, & optical apparatus have already been indented for, in Indent dated 3rd February 1893. Immediately beneath the lantern room, it is proposed to erect an iron service room, 6 feet diameter by 7 feet in height. The service Room to be provided with means of ventilation. The service Room to be bolted down to the masonry of the column.

Access to the service Room will be by means of a small door, at the top of the wooden ladder, outside the column.

Access to the lantern room to be by means of a ladder, inside the service Room, with a suitable opening in the floor of the lantern room.

Gallery. To be erected round the lantern room, at the top of the service room, as shewn in the elevation of lighthouse. The gallery to be 1 foot 9 inches wide, protect by an iron railing.

2-4-94 Supt. Engr. 1st Circl