

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No. 2407
B.P. No.

Press
Mis.

Dated

9-9-1954

Not to be folded or roughly handled

Read the following papers:—

No. 115. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevely, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Palamcottah, 1st July 1876, No. 56.

I HAVE the honor to request you will be good enough to allot from the Reserve at your disposal a sum of Rupees 1,865 for improving the Telegraph Office at Tuticorin.

2. This estimate, which was prepared at the request of the Telegraph Department, was approved and sanctioned by the Director-General of Telegraphs on the 7th July 1875, and was entered in my draft Budget for 1876-77, but funds were not allotted by Government.

3. The Superintendent of Telegraphs now urges the immediate execution of the work, and I therefore request that the sum asked for may be allotted so that the work may be put in hand at an early date.

No. 115-A. From W. HUGHES, Esq., Assistant Engineer in charge of District Engineer's Office, to Major-General G. W. WALKER, R.E., Chief Engineer, Public Works Department, dated Palamcottah, 12th July 1876, No. 61.

In reply to your No. 520-T, of 5th instant, I have the honor to inform you that the estimate is chiefly for removing and relaying the flooring. As there are no alterations of consequence proposed, no plan has been made. The estimate is herewith sent.

No. 115-B. From the same Officer, dated Camp at Puriur, 11th August 1876, No. 71.

As requested in your Memorandum, No. 689-T of 3rd instant, I have the honor to send a plan of the Tuticorin Telegraph Office. The plan is a copy made some

1 Plan, sent separately. years ago of that from which the building was constructed. I have merely colored it to show proposed work, and altered the date, &c. There are some very trifling differences between some of the dimensions shewn in plan and in estimate made from actual measurements. Should you think it necessary I will have the estimate checked again. The old steps and flooring are of very soft sand-stone; the stone used for flooring being in squares 10 inches to 12 inches in size. The stone is very much worn particularly near the joints and should the asphalt be laid over it as it is, fully an inch in thickness would be required on an average. The present flooring might, however, be dressed in some degree level, and a coat of surki mortar or fine concrete applied to the lower parts, and then half an inch depth of asphalt would do. If you approve of this method of doing the work kindly return me the estimate for revision.

Proceedings of the Madras Government, Public Works Department,
9th September 1876. No. 2,401.

No. 116. ORDER THEREON, 9th September 1876, No. 2,401.

CIVIL WORKS, No. 7.

(a) *Heads of Service.*—Imperial.
Fund.—Ordinary.
Class.—Original Works.
Main-head.—Other Services.
Sub-head.—Civil Buildings—Telegraph.
Name of Work.—Improvements to the Telegraph
Office at Tuticorin.
Amount.—Rupees 1,865.
To be carried out by the Public Works Department.

It is proposed to take up the whole of the flooring of the Telegraph Office which is of soft sand-stone, probably not well bedded originally, and now uneven and much worn : and to substitute a half inch layer of asphalt over a 6-inch substratum of concrete. Also to put a cut-stone edging all round the verandahs, and build new stone steps.

2. The work proposed will no doubt be an improvement, and as such the estimate of Rupees 1,865 is sanctioned as a Minor New Work. And funds are appropriated from the amount at the disposal of Government under Minor Works, Telegraph.

3. The above sanction has been registered as Imperial No. 79-W. of 1876-77.

(True Extract.)

Colonel,

Offg. Under Secy. to Govt., P.W.D.

To the District Engineer, Tinnevely.
" Examiner of Public Works Accounts.
" Superintendent of Telegraphs, Malabar Coast Division.

Exd. T. O'Connor.
Square Copies

Dist. Engr's Office, Tinnevely,
Palamcottah, 12th July 1876

From, J. D. Grant Require
Offr Dist Engrs Tinnevely

To, Major-General G. W. Walker R.E.
Secretary to Govt D.P.W

Sir,
I have the honor to request you will be good enough to allot from the Reserve at your disposal, a sum of Rs 1865 for improving the Telegraph office at Tuticorin.

2. This estimate which was prepared at the request of the Telegraph Department was approved and sanctioned by the Director General of Telegraphs on the 7th July 1875 and was entered in my draft Budget for 1876-77, but funds were not allotted by Government.

3. The Superintendent of Telegraphs now urges the immediate execution of this work, and I therefore request that the sum asked for may be allotted so that the work may be put in hand at an early date.

I have the honor to be
your obedient
J. D. Grant

Offr Dist Engrs

R.W. 1876 Deph.
No: 4750

C.E. No. 732 Aug 4/76

Requesting an allotment of Rs 1865 for improving the telegraph office at Sateen.

No. 520 of 5 July 1876.

The Dy. Commr. Sateen will be so good as to inform the undersigned whether the improvement to the telegraph office at Sateen for which in the above recorded letter he requests an allotment is a new work. In which case I must also submit the plan and estimate for the sanction of Govt.

Rd. Farewell
offg. Dy. Commr. Sateen

1876
Deph. to Oct 25, 76

Detailed Estimate No 1875. 76.
Sateen District Chapodasem Taluq
Work Improvements to Telegraph Office at Sateen.

Particulars of Work.	Measurements.				Content.	
	Length Each	Total Length	Breadth	Depth		
<u>Cut stone work including steps.</u>						
<u>Front Verandah.</u>						
Cut stone edging to front Verandah	2	7½	15			
Do Do	7	7¾	54¼			
Do Do	2	8¼	16½			
Do Do	3	8	24			
Do Do	2	11	22			
Do Do	2	10½	21			
Do Do	3	9½	28½			
Do Do	2	8½	17			
Do Do	2	8¾	17½			
Do to rear Verandah	4	4	16			
Do Do	4	7¾	31			
Do Do	1	5¼	5¼			
Do Do	2	5½	11			
" "	1	5	5			
" "	1	5¾	5¾			
" "	1	9½	9½			
		299¼	1½	½	224 7/16	
<u>6 feet steps in front.</u>						
1 st Course of steps	4	13½	54	1¼	½	33 ¾
2 nd Do	4	9½	38	1¼	½	23 ¾
3 rd Step	4	6	24	1	½	12
Carried over					293 15/16	

Brought forward					
Nine feet steps in Dr 1 st Course of steps	2	16½	33	1¼	½
2 nd Do	2	12½	25	1¼	½
3 rd Do	2	9	18	1	½
Twelve feet steps in Dr 1 st do	1	19½	19½	1¼	½
2 nd do	1	15½	15½	1¼	½
3 rd do	1	12	12	1	½
3 feet steps in rear 1 st do	9	10½	94½	1¼	½
2 nd do	9	6½	58½	1¼	½
3 rd do	9	3	27	1	½
Total Cutstone in chunam C feet					
Equal to C yards					

Old sand stone in chun work under the above steps.

6 feet steps: Foundation under the 1 st Course of Cutstone work	4	13½	54	1½	1
Sitting in the level of 2 nd Course	4	7	28	1¾	1
9 ft steps: Foundation under the 1 st Course of Cutstone work	2	16½	33	1½	1
Sitting in to the level of 2 nd do	2	10	20	1¾	1
12 ft steps: Foundation under the 1 st Course of Cutstone work	1	19½	19½	1½	1
Sitting in to the level of 2 nd Course	1	14	14	1¾	1
3 feet steps: Foundation under the 1 st Course of Cutstone work	9	10½	94½	1½	1
Sitting in to the level of 2 nd do	9	4	36	1¾	1
Total old sand stone in chun C feet					
Being equal to C yards					

Flooring—Verandah	1	243½	243½	8	
Booking room	1	12	12	18	
Signal room	1	20	20	18	
Battery room	1	12	12	8½	
Store room	1	12¼	12¼	8¼	
No 1 Room on right	1	14	14	18	
No 2 do	1	18	18	18	
No 3 & 4 do	2	16	32	12¼	
Bath room North of No 4 room	1	7¾	7¾	8	
Do do No 1 do	1	14	14	10	

No 1 or Inspecting officers room in the left					389 1/16
Work room North of do	1	18	18	15½	279 1/16
3 room on left	1	10½	10½	10	105 1/16
2 room on do	1	15¾	15¾	12½	196 7/8
5 room to do room	1	15½	15½	18	279 1/16
6 room to No 3 room	1	10½	10½	10	105 1/16
4 room on left	1	7¾	7¾	8	62 1/16
5 room to do	1	12½	12½	15¾	196 7/8
6 room to do	1	7¾	7¾	7¾	60 1/16
East and West rear Verandahs of the Eastern					
Western most rear rooms	4	7¾	31	4	124 1/16
Verandah in rear of main build	1	23¼	23¼	10	232 1/2
Do do	1	17¾	17¾	10	177 1/2
6 flooring with asphalt and 6" concrete after removing old floor					5714 7/8
Total asphalt squares					57.15
Total C yards of 6" flooring (concrete) below asphalt					106
Removing old work to recover the above flooring					106
Red Ceiling. Battery room					
Cross pieces	3	9	27	¼	2 1/4
Boards over	1	13	13	9	7 5/16
Total C feet					9 9/16
6 Ceiling Signal room	1	20	20	18	360
Booking room	1	12	12	18	216
Total cloth Ceiling with brig sailing shick cloth					576

DF

Rela
as
Dep't at

Specification Report to accompany the
Estimate for Improving Telegraph Office
at Tuticorin

1. Amount of Estimate Rs. ¹⁸⁶⁵ 7880
The Estimate provides for a Cutstone
border round the Verandah, new Cutstone
for steps leading to basement; Asphaltic
flooring for the whole building inside and
out where Cutstone is not provided. Plaster-
ing part of the building; Fitting wooden ven-
tilators in the present ventilating holes;
and other sundry improvements.

Cutstone Work 2. The Cutstone border of Verandah to be
of Vedaratham Sand stone. The stones to
be not less than 2' in length. The border
to be 1 1/2 ft in breadth and no part less
than 6" in depth, to be fast dressed on
top and front and for 2 inches in depth
at joints. To be laid on packing of the
Sand stone, which forms present floor. The
present steps to basement to be removed as
far as necessary and Cutstone ones built
as per Estimate. The steps to be dressed
on top, front & ends and for 2 inches
depth at joints. All Cutstone and
packing under same to be laid in
Mortar composed of 1 of lime to 1 of Sand well
beaten. The Mortar for joints to be of the
same.

Flooring (Concrete) 3. All the remainder of the building
old flooring having been removed to the depth
of 6 inches) to be newly floored with 6" of
Concrete and 1/2" asphalt. The Concrete to be
laid in two layers thoroughly consolidated by
means of heavy rammer of about 11 lb
wt. per sq. inch of striking surface.

N/A. 61

From,

Dist Engr's Office, Ponnally
Palamcottah. 12th July 1876

E. Hughes Esq.
Asst Engr in charge of
Dist Engr's Office

Major General G. H. Walker Esq.
Chief Engineer D. P. S.
Madras

Enclosure
1. Estimate of
Rs. 1865

Sir
In reply to your No. 520 of
5th Instant I have the honor to in-
form you that the Estimate is
chiefly for removing and relaying
the flooring. As there are no alter-
ations of consequence proposed, no plan
has been made. The Estimate is
herewith sent.

I have the honor to be
Sir

Your most obed^t Serv^t
E. Hughes. Asst Engr.
In ch. of Dist Engr's Office

No. 1891 Department
85091

C. E. W. 7/3 2 Aug 76

Informing that the
indicate for improvement
to the telegraph office
at Dickinson is chiefly
for removing and relaying
the flooring—
The Chief Engineer
D. F. W.
S. F. W.
Received July 11th
17 P. M.
J. H. W. 1891

No. 71

Dist Engineer's Office Lincoln
Camp Pierre 11 August 1896

From
W. H. Hughes Esq
Acting District Engineer
To
Major General G. W. Walker R. G.
Chief Engineer D. P. W.

Sir,
As requested in your memorandum
No. 8 of 8th instant I have the honor to
send a plan of the Sutterville Telegraph
office. The plan is a copy made some
years ago of that from which the build-
ing was constructed. I have merely
colored it to show proposed work, and
altered the station. There are some very
trifling differences between some of the
dimensions shown in plan and in esti-
mate made from actual measure-
ments. Should you think it necessary
I will have the estimate checked again.
The old steps and flooring are of very
soft sand stone. The stone used for floor-
ing being in squares 10" to 12" in size. The
stone is very much worn particularly
near the joints and should the asphalt
be laid over it as it is, fully an inch
in thickness would be required on
an average. The present flooring might

The first of these
 kinds of business
 is the one which
 is the most
 common of all
 the kinds of
 business which
 are carried on
 in the world.

[illegible]

1. *Chrysomelidae* (beetles)
 2. *Curculionidae* (beetles)
 3. *Chrysomelidae* (beetles)
 4. *Curculionidae* (beetles)
 5. *Chrysomelidae* (beetles)
 6. *Curculionidae* (beetles)
 7. *Chrysomelidae* (beetles)
 8. *Curculionidae* (beetles)
 9. *Chrysomelidae* (beetles)
 10. *Curculionidae* (beetles)

ring
(halte)

Ballast or Columbus' Sand well washed in fresh water and dried to be used. The proportion to be mixed with the asphalt will be determined by the officer in charge of the. Equal parts of by weight of asphalt & sand will probably be found the best proportion. The proportion of sand should neither be so great as to make the composition brittle nor so low as to render it liable to be softened by the heat of the sun.

The Asphalt to be laid down in rectangular sections, the mould being formed as follows. Three pieces of wood are held so as to form three sides of a rectangle; the fourth being the wall or contiguous asphalt. As part of the asphalt will go to fill up the indentations and uneven parts of the concrete, the pieces of wood should be somewhat less than $\frac{1}{2}$ inch in height and should be oiled or tarred to prevent the asphalt adhering to them. Into the space thus enclosed the asphalt composition is poured till it reaches the level of

of the mounds. When it begins to Consolidate as it will do almost immediately some fine sand should be sprinkled on the surface and rubbed into it with a wooden rubber (Manias Palakai) such as is used by masons in plastering.

5. The Ceiling for part of Battery room to be Boarded of $3\frac{1}{4}$ " Ventak planks supported on three Ven: Ceiling teak posts 3×4 " in section resting on the ledge about 9' from the floor. The wood to be sound, well seasoned free from cracks and flaws, and the boards properly planed and jointed, each be nailed with 2" nails where it crosses the joists.

6. The signal and booking rooms to be fur: Cloth nished with Cloth Ceilings. The cloth to be Ceiling Ranjam, fastened to a frame work resting on the wall plates and attached to the Collar beams. The frame to be of $1\frac{1}{2}$ " by 1" Ventak board perfectly jointed and strongly fastened together.

7. The existing Ventilation holes of receiving Val Vent and signal rooms to be fitted with frames. later The frame to be of 4×3 " Ventak timber and frames fitted with fixed Venetian $3 \times \frac{1}{2}$ " plank inclined to the frame at an angle to be determined by the Officer in charge of work. The frame to be 2 into the wall. The frames and Venetians to be painted with 3 coats green paint. All wood used to be sound and well seasoned.

8. The present glass window to be replaced glass by a new one with Venjam wood frame properly Window finished and glazed, to be painted as Venti later frames.

P.W.D.

13 AUG 76

No. 3-113

To: Room

The Ag: Dist Engrs

Trincomalee

To:

The Chief Engineer
D. P. W

Dated 11th

Sept 13th

Recd 18th

August 76.

Re 71.

Encl: one

* 1 Plan given to Librarian

Forwarding

Plan of the Indian

Telegraph Office called

for in memo dated

3rd August 76.

Removing
& refixing
doors

Lime

Sand

One door not now required is to be removed and fixed in partition walls of married signals quarters. The space occupied now by the doors to be neatly blocked up with sand stone in churns plastered or pointed as the other part of the rooms. The space round the newly fixed doors to be properly filled up and neatly plastered.

The lime used on the work to be that known as challi lime; to be delivered unslaked, or slaked at the kilns in presence of the Maistry who will see that only fresh water is employed. 10 'Columbo' or 'ballast' sand well washed in fresh water and dried may be used for the asphalt.

All repeated materials if not ^{at} once removed by Contractor for same will be carted away at his cost.

MA

D. M. May
Sub Div Officer
Tencarai

finished and
: latest frames.

Simnally District Ottapidaravale Taluq
 Works. Improving the Telegraph Office at
 Inticorium

Original Cost.	Valuation.	Last repair	
		Year.	Amount.
17,360	15,000	1873 2/4	270

Quantities	Description of work.	Rate.	Amount.	Amount of each part.
17 2/3	Cy. of Cub Stone in Chumam	18	318	
17 1/2	do of Old Sand stone in Chumam	1 12	30 10	✓
106	do of Removing old work	6	39 12	✓
106	do of Concrete	4 8	477	✓
57.15	Squares of asphalt 1/2" thick	11 8	657 3/4	✓
9 9/16	Cy. of Plastered Ceiling	3 4	31 13	✓
576	Sy. of Cloth Ceiling per sy.	12	69 11	✓
13	Fixing 13 oral Ventilators fitted with Ventians in frames to the present Ventilating holes.	6	78	✓
1	Removing one door & fixing it in the partition wall of Deputy Telegraph Master's Quarters	4	4	✓
1	Blocking up one window way with old Sand Stone in Chumam and usually plastering	2	2	✓

1706 129

Fixing weather board to Privy ——— 1706 129
 Sundries ——— 10 ..
 Extra Establishment ——— 83.33
 65 ..

Total Estimate Rupees — 1865 ..

Privy compound 3
 20-5-75 3

H. Highers.
 Range Officer

J. D. Grant Asst Engineer
 in charge of Dist Engineer's Office
 Tinnevely
 22-5-75

I do hereby certify that the above Estimate for Improving the Telegraph Office at
 Tuticorin amounting to Rupees 1865 .. provides for every thing necessary, and that
 no Supplementary works will afterwards be required.

approved and sanctioned
 H. Highers.
 Range Officer.

Approved by
 J. D. Grant
 Asst Engineer
 11/7/75

sanctioned by
 Improving the Telegraph
 Office at Tuticorin
 Rupees - 1865 ..

Tinnevely District
 Establishment
 Detailed and Abstract Estimates for
 No. 1 of 1875-76
 Civil
 Buildings

Imperial
 Permanent Estimates

2015

2015
 16/7/76

153
 Enclosure in a letter
 from the Asst Engineer
 in ch. of Dist Engineer's
 office. Tinnevely
 dated 12th July 1876
 Rs 61.

J. D. Grant
 The Chief Engineer
 J. P. W.

Estimate for
 improving the
 Telegraph Office
 at Tuticorin -

2-9-76

FOR ORDERS.

5071/100
Turner, J. H.

cir. 7.9.76.

(a) Heads of Service— *Imperial*

Fund. *Ordinary*

Class. *Original Works*

Main-head. *Other Services*

Sub-head. *Civil Building— Telegraph*

Name of Work. *Improvements to the Telegraph office
at Tuticorin.*

Amount. *Rs 1865*

To be carried out by the *P. W.* Department.

Print in the margin of G.O. No 2401 of 2 Sept 1876—

190
No 2401 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the *9th Sept 1876*

Read the following:—

From

The Dist. Eng. Trivelly (H.C. No 56 of 1st July 1876)
do do do (H.C. No 61 of 12th Aug 1876)
do do do (H.C. No 71 of 11th Aug 1876)

*It is proposed to
take up the whole of the
flooring of the Telegraph
Office which is of soft
sand stone, probably not
well bedded originally,
and now uneven and
much worn: and to sub-
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of Asphalt over a 6 inch
sub-stratum of concrete.
Also to put a cut stone
edging all round the*

Verandah

Verandahs, and build
new stone steps.

2. The work proposed
will no doubt be an im-
provement, and as such
the Estimate of Rs 1865
is sanctioned as a Minor
New Work. And funds
are appropriated from
the amount at the disposal
of Govt. under Minor
Works Telegraph.

The above sanction has
been registered as Suppl.
No 79 W. of 1876-77-

No 115-116

Encl.

4750 5948 5891
★
Govt. of 1876 Madras.
PUBLIC WORKS.

To

The D. L. Linnally

Dated

Issued

Recd.

Encl.

G. O., 9th Sept 1876, No. 2401

Nos.

Improvements to the
Telegraph Office at
Tuticorin - Linnally
Dr. Estimate of Rs
1865 for
sanction

Sanctioned
279/96.