

3274 W - 1-12-87
89 W - 10-1-88.
311 W - 26-1-88

No. 761 C of 22nd Feb 1888

To
C

For note & favour
of return

Wm
24.2.88

D.W.

To W. *N^o 1201*
14.3.88.

Noted and returned with the
remark that objections against items
1,2,5,6,9,10,20,21,27,29,31 and 32
have since been removed.

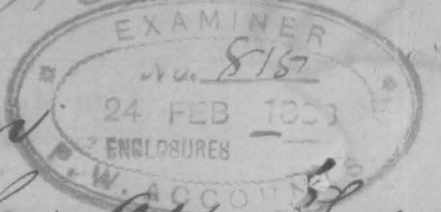
Wm
W.B
No 885 W of 17th March 88 c.

B

Recorded
Wm
16.3.88

Wm
16/3/88
Wm
16/3/88

2544
PWC No 1646



From
The Offg. Supg. Eng.
Fourth Circle.



Dated 17-2-88

R 20.2.88
R 15.3.88

No: 55 E1

Wm
No 885 W of 17th March 88

Statement of objection.
able items in the accs.
of Executive Engineers
for September 1887:-

Replying to G.O.
No: 26 W of 5th Jan'y: 1888,
passing orders on the

SKW
To

This amount (Rs. 17-5-4) ^{as as-08} Item No 31- Rent due
cannot be recovered as by the Late Mr Spence.
Mr Spence died in England on 18th
May 1871 sanction of Government to
write off the amount was asked for
in this office letter No 32 ^{EW} dated
26th January 1888. Serial 6748
Not recd

Estimate sanctioned [Items-32+33-Cis-
in G.O. dated 10th Janu- ^{terms + dams on the}
ary 1888, No 89 W. Calicut Vayithu road.

I have the honor to be
Sir

Your most obt servt

W. H. A. T. C.

Offg: Suptg: Engineer
-H. C. C.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. W. MARTIN, Esq., Officiating Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 10th January 1888, No. 13 E.W. :—

Adverting to G.O., No. 152 W., of 18th January 1886, sanctioning the commencement of work for constructing the Sholadi bridge on the Vayitri-Gúdalúr road, I have the honor to inform you that the provision made for this bridge and its approaches in the general estimate of that road will be greatly exceeded, and that consequently a revised estimate has become necessary.

2. The general estimate of the Vayitri-Gúdalúr road was sanctioned in G.O., No. 2412 W., of 15th October 1885, and it provided Rs. 15,551 for the Sholadi bridge and Rs. 4,449 for the approaches.

3. Work was started in 1886, but stopped by the monsoons of that year. Early in the present year the iron-work arrived from England, and the work was again started. It was, however, soon found that the rate for masonry—roughly hammer dressed coursed rubble—was much too low; the reason being that the site is in the centre of the Wynaad, in an exceedingly feverish tract of country where no labor or carriage is available except what is imported from Mysore or the coast, and lime has to be carted up from Calicut. An increased rate had therefore to be given for the masonry which will cause an excess of Rs. 1,715.

4. Another cause of excess was the iron-work. This, as sent out from England, was totally different from, and about 50 per cent. heavier than, what was provided in the original estimate. This alone causes an excess of Rs. 2,456.

5. Again, the whole of the site and its approaches were so covered with dense jungle when the original estimate was framed that the sections of the ground taken appear to have been insufficient for the preparation of an exact estimate, and when the jungle was cleared it was found that the steepness of the hill sides necessitated the substitution of splayed for straight wings.

The splayed wings were necessary to reduce the heavy cutting for the approaches immediately adjoining the bridge, and in this way it was possible to found nearly the whole of the wings on rock. But the splayed wings contain a greater quantity of masonry, and this adds to the excess on the masonry which comes to Rs. 2,143.

6. Also, owing to the insufficiency of the sections originally taken in the thick jungle on the approaches, the quantities of earthwork for the approaches were greatly under-estimated. On this item there is an excess of Rs. 1,552.

7. No provision was made in the estimate, by oversight, for revetments (which will be indispensable in the neighbourhood of the bridge), nor for blasting rock, painting the iron-work, and hutting. These omissions have been rectified in the revised estimate.

8. Owing to the excesses and omissions above mentioned, together with a corresponding increase in contingencies and superintendence, the total of the revised estimate comes to Rs. 32,751 as explained in the comparative statement.

9. The different items of excess will be briefly as follows :—

	RS.
Excess on masonry partly due to extra quantity and partly to extra rate	3,858
Excess on iron-work owing to the design having been altered by the Consulting Engineer to the Secretary of State	2,456
Excess on earthwork in the approaches insufficiently estimated for.	1,552
Extra works of revetments, blasting rock, painting the iron-work, and hutting	2,636
Contingencies	954
Superintendence	1,295
Total Excess	12,751

10. The progress made up to date is as follows :—

- I. The iron-work has been received and carted to site.
- II. The left abutment and the centre pier have been completed.
- III. The foundations of the right abutment have been commenced.
- IV. And the approaches on both sides of the river are nearly completed.

The work has been stopped pending sanction to the revised estimate.

11. I should mention that the bridge has been built in the precise site selected for it by the Special Engineer who prepared the road estimate, and that the site was no doubt chosen because there only solid rock is met with in the bed ; at other places lower down the river and nearer the old bridge there is rock, but in the form of large boulders which have been carried down by this mountain torrent in great floods. The site and the position of the approaches were indicated by the trace cut through the jungle by the Special Executive Engineer.

12. As regards quantities those for the earthwork are the actual measurements of work done, as checked by the present Executive Engineer, and the solid rock at the site of the bridge having been laid bare, there can now be no error in regard to the quantities of the masonry work.

13. In reference to the description of work, it was necessary to adopt the most substantial kind readily obtainable, as the stream in flood often brings down large trees, which, as the Local Fund Engineer informed the Superintending Engineer, had more than once severely damaged the present wooden bridge.

14. The insufficiency of the rates provided in the original estimate is also partly accounted for by the fact that this one isolated work out of the whole line from Vayitri to Gúdalúr (about 45 miles) has been taken up, and that it is about equidistant from both ends ; it is also about 57 miles from Ooty and 62 from Calicut, the nearest large centres of population. If the whole line of road from Vayitri to Gúdalúr had been taken up instead of only this one work, some experienced contractor from a distance might have come forward, and, being able to give continuous work for a year or two, could have imported his own labor, both skilled and unskilled.

15. That the rates provided for masonry are not unreasonable for such an exceptional case as that of Sholadi bridge has been proved by the experience lately gained on the Barliyár bridge of the Coonoor ghât. There very similar work in an equally unhealthy locality but more favorably situated in being within 9 miles of a railway station is estimated to have cost Rs. 53 per 100 cubic feet.

ORDER—dated 26th January 1888, No. 311 W., Public Works.

The estimate, amounting to Rs. 32,751, for constructing the Sholadi bridge and its approaches on the Vayitri-Gúdalúr road, as revised by the Superintending Engineer, is sanctioned ; and, as the general estimate for the road sanctioned in

G.O., No. 2412 W., dated 15th October 1885, is said to include a provision of Rs. 20,000 only for this bridge, the excess Rs. 12,751 will be added to the general estimate, which will now amount to Rs. 4,22,751.

2. This sanction has been registered as Provincial, No. 155 W. of 1887-88, and classified as Communications, Original Works.

(True Extract.)

(Signed) H. R. MEAD, Colonel, R.E.,
Joint Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with six enclosures.
,, Examiner, Public Works Accounts, with the general abstract estimate.
,, Local and Municipal Department.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1888} Madras.
PUBLIC WORKS.

Dated January, 26th.

Recd.

Encl.

G.O., 26th Jan. 1888, No. 311 W.

JANUARY.

Sholadi Bridge

Estimate for constructing the — and its approaches on the Vayitri-Gúdalúr road, sanctioned.

10TH JANUARY 1888, No. 89 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. W. MARTIN, Esq., Executive Engineer in charge of IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 19th December 1887, No. 504 E.W. :—

Under paragraph 1886 of the Public Works Code, I have the honor to forward, for sanction of Government and necessary orders for the provision of funds from the department concerned, a plan and estimate, amounting to Rs. 1,479, for constructing cisterns and pipings on the Tāmrachéri ghât in the Calicut-Vayitri road, together with a report and specification.

2. I have to inform you that, upon the urgent requisition of the District Board, the work was put in hand as reported in this office letter, No. 322, dated 29th August 1886, and the outlay against the estimate up to September 1887 is Rs. 864. The work has been stopped under instructions from this office, and the Executive Engineer has been informed that there should be no further outlay on it until funds are placed at his disposal.

ORDER—dated 10th January 1888, No. 89 W., Public Works.

The estimate, amounting to Rs. 1,183, as corrected in the Chief Engineer's office, for constructing cisterns, with piping, on the Tāmrachéri ghât on the Calicut-Vayitri road, is sanctioned for execution by the Public Works Department.

	RS.	per margin, at the disposal of the Public
For Works	1,183	Works Department will be considered in
„ Establishment	272	the Local and Municipal Department.
„ Tools and plant	19	
Total	1,474	3. This sanction has been registered
		as Local, No. 38 W. of 1887-88, and
		classified as Miscellaneous Public Im-
		provements, Original Works.

(True Extract.)

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

To the Superintending Engineer, IV Circle, with six enclosures.
„ Examiner, Public Works Accounts, with copy of abstract estimate.
„ Local and Municipal Department.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1888) Madras.
PUBLIC WORKS.

Dated January, 10th.

Recd.

Encl.

G.O., 10th Jan. 1888, No. 89 W.

JANUARY.

Tamracheri Ghat on the
Calicut-Vayitri Road

Estimate for cisterns with piping on the
—, sanctioned, funds being provided by the
Local and Municipal Department.

1st DECEMBER 1887, No. 3274 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 11th November 1887, No. 3243 B :—

With reference to this office letter, No. 1347 B, dated 4th June 1887, I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plans, &c., below-mentioned, which have been approved by the Commander-in-Chief. The plans and estimate have been countersigned :—

- I. Plans and supplemental estimate, amounting to Rs. 3,064, for converting the Cannanore fort into a defensive post.
- II. Report and specification.

No. 7044, Military.

Approved, and transferred to the Public Works Department for disposal.

(By Order.)

FORT ST. GEORGE,
14th November 1887.

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

ORDER—dated 1st December 1887, No. 3274 W., Public Works.

The estimate, amounting to Rs. 3,064, for converting the Cannanore fort into a defensible post, is sanctioned as supplemental to the estimate of Rs. 4,726 sanctioned in G.O., No. 1621 W., dated 16th June 1887.

2. This sanction has been registered as Imperial, Ordinary, No. 54 W. of 1887-88, and classified as Military, Original Works.

(True Extract.)

(Signed) J. O. HASTED, Col., R.E.,
Secretary to Government, P.W.D.

To the Superintending Engineer, IV Circle, with seven enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Military Department.

Exd. E. Fernandez.
Spare Copies

No. 3274 Wd/ 1-12-87
" 89 W. 10-1-88
" 311 W. 26-1-88

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated December, 1st.

Recd.

Encl.

G.O., 1st Dec. 1887, No. 3274 W.

DECEMBER.

Cannanore Fort

Estimate for converting the — into a defensible post, sanctioned.

No. 55
Wd

Supg. Engineers Office IV Circle
Coimbatore, 17th February 1888.

From,

J. W. Martin Esq
Offg. Supg. Engineer
IV Circle

To,

The Chief Engineer
P.W. Department

Thro' the Examiner of P.W. Accounts

Sir,

With reference to G.O. dated 6th January 1888, No. 26 W. I have the honor to reply as follows:—

Items Nos 1 & 5—Want of Completion Reports—Forwarded to the Examiner of P.W. Accounts on the 5th ultimo.

" 2—Annual repairs to Commissariat buildings at Cannanore—Estimate sanctioned in Register No. 67 of 87-88.

" 3—Want of Completion report—Completion Report is still awaited from the Sub-Division Officer Cannanore to whom a reminder has been sent.

" 4—Converting Cannanore Fort into a defensible post at Cannanore—A supplemental estimate for the additional works was sanctioned in G.O. dated 1st December 1887, No. 3274 W until the completion of these works completion Report cannot be submitted.

Submitted on the 9th December/87 - Items 6 - Want of Completion Report.

Will be submitted as soon as — " 7 + 8 — " — " — they are received from the Subdivisional Officers.

Submitted on the 6th December/87. — " 9 - Completion Re-
- part.

Do on the 2^d November/87. — " 10. — " — " —

Will be submitted as soon as — " 11, 12 + 28 — " — the accounts are closed

The final bill has been — " 13 — " — received and will be disposed of shortly

Will be submitted as soon as it is received from the Sub-
divisional Officer

Disposed of in this office letter dated 9th October 1887, No 405 EW to the address of the Chief Engineer P.W.D thro' the Examiners of P.W. Accounts.

Estimate submitted for sanction thro' the Collector of Malabar with this office letter dated 24th November 1887, No 431 M.

Revised estimate was re-
turned to the Executive Engineer for additional information.

15 - Farring the iron
cots in the Military
Hospital 31st Regi-
ment Native Infantry
Mangalore.

16 - Collectors Cutch-
erry at Calicut —

Item No 19, Improve-
ments to the Calicut
Vaystri road.

Item No 20 Improvements - Revised estimate for
to Vaystri Gudalur road. the Sholadi Bridge sanc-
-tioned in G.O. No 311 W of 26th January
1888.

" 21 Residence for the Head - Revised estimate is
assistant collector Kunda - not necessary, the excess
- pur. (Rs 3111) over the sanctioned
estimate being less than 2 per cent.

" 22 Office of Superinten- - Revised estimate sub-
- dent of Police, Mangalore. - mitted for sanction thro'
the Inspector General of Police with
letter dated 26th ultimo No 30 EW.

" 23 City water supply - The Executive Engineer
north of lake. - wishes to consult in per-
- son with the Chief Engineer before
submitting his report on the subject.

" 24. Want of completion - Delayed as the ac-
Report. - counts of the work have
not been closed. A notice has been
served to the Contractor to receive
final payment.

" 25 Want of completion - Will be submitted after
report. - the completion of the extra
work which is found necessary.

" 26 - " - Will be submitted shortly

" 27 - " - Submitted on the 15th December/87

" 29 - " - 3^d November/87.

Pent

This amount (Rs. 17-5-4) ^{As as-88} Item No 31. Rent due cannot be recovered as by the Late Mr Spencer. Mr Spencer died in England on 18th May 1871 sanction of Government to write off the amount was asked for in this office letter No 32 ^{EW} dated 26th January 1888.

Estimate sanctioned in G.O. dated 10th January 1888, No 89 W. [Items - 32 & 33 - Cisterns & dams on the Calicut Vayithu road.

I have the honor to be Sir

Your most obt servant

W. Martin

Offg: Suptg: Engineer
Circle

302 Bundle

Miss W Fort March 1888

P. W. D.

No.

MEMORANDUM of Papers removed from the Records of the Madras Government for reference.

994 W Fort by W. Martin 13/13/88

1013 W Fort by W. Martin 34 22 13/4/88

937 W Fort by W. Martin 13/13/88

979 W Fort by W. Martin 34 37 13/13/88

969 W Fort by W. Martin 35 59 13/13/88

72 W Fort by W. Martin 35 9 37 13/4/88

958 W Fort by W. Martin 37 22 13/4/88

956 W Fort by W. Martin 37 68 - 23 - 4 - 1888

957 W Fort by W. Martin 38 41 - 25 - 4 - 1888

990 W Fort by W. Martin 38 37 - 25 - 4 - 1888

1014 W Fort by W. Martin 38 47 13/4/88

997 W Fort by W. Martin 38 71 13/4/88

973 W Fort by W. Martin 38 70 13/4/88

996 W Fort by W. Martin 41 58 - 4 - 5 - 1888

1012 W Fort by W. Martin 42 17 - 4 - 5 - 1888

954 W Fort by W. Martin 42 41 8/5/88

954 W Fort by W. Martin 42 41 8/5/88

31-3-08

No. of G. O.	For what purpose.	When taken.	Name of the party by whom taken.
~~100747~~	~~for 600 4597~~	~~23-5-88~~	
1017	one copy for Cms. 55104/11-6-88		
1015	for 600 6621	7-7-88	
975	for 600 71908	21-7-88	
991	for 600 10837	25/10/88	
1000	for 600 11460	10-11-88	
1012	W & P. for Sale In London estate to 1889-90	16/3/89	
978	W & P. for 600 158-89	15-8-89	
978	W & P. for 600 158-89	15-8-89	

Govt. of 1888 Madras
PUBLIC WORKS.

Dated 19/3
Recd. Encl.

G.O. 17 Mch 1888 No. 883

Persons who have attained
the age of 53 years
=
Orders on Supplemental
Statement of - in the
P.W. Dept, submitted by
the Examiner P.W. Account

50/4

25-5-88
19/3