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# MADRAS RECORD OFFICE.

## Government of Madras.

### Public Works DEPARTMENT.

G.O. No.

3066

Press

Mis.

Ceo-44

Dated

3. 10.

1867.

**Not to be folded or roughly handled**

*Proceedings of the Madras Government, Public Works Department,  
3rd October 1867.*

No. 40. Read the following letter from the Superintending Engineer, 5th Division, to the Secretary to Government, Department Public Works, dated Salem, 26th September 1867, No. 128:—

1 Plan.  
1 Abstract Estimate.  
1 Specification.  
1 Letter from Executive Engineer.

1. I have the honor to forward a revised estimate of Rupees 41,300, accompanied by plan and specification, for constructing a Female Hospital at the Race Course Barracks, Bangalore.

2. The original estimate of Rupees 36,550 was sanctioned in G. O. No. 574, of the 17th of February 1866. A revised estimate for the Hospital was called for in G. O. of the 6th of August 1866, in consequence of the omission of a verandah on one side of the separate ward. This order was communicated to the Executive Engineer, who informed me verbally that, as the work could not be executed for the rates in the estimate, and as there were other alterations and additions required besides the verandah to the separate ward, he would forward a revised estimate for the entire Hospital. On my subsequent visits to Bangalore last year, Captain Tulloch showed me some pencil plans in an incomplete state, but, up to the time of his quitting Bangalore, I had not received from him either plan or estimate, or any letter on the subject of the alterations proposed by him, and their probable cost. In the meanwhile the work progressed, and it could not have been stopped without causing great loss to the Contractor, who had incurred a great outlay for materials, and had brought workmen from a distance.

3. The principal change in the design is the substitution of pointed for circular arches in the verandah of the lower story, and the substitution of a verandah, similar to that of the lower story, for the columns and sloping terrace of the upper story, in the original plan. The alterations were made by Captain Tulloch, with a view to diminish the glare, and give more protection to the rooms, in so exposed a situation, than was afforded by the more open verandahs in the original design. The alterations, he informed me, were approved by the Sanitary Commissioner, when at Bangalore, and by the Medical Officers of the station. The substitution of a tiled roof for a terraced, for the central portion of the building, was also approved by the same authorities.

4. The interior walls of the upper story are now intended to be of brick, instead of stone. By this change a considerable saving will be effected, and walls of brick offer facilities for opening door-ways and windows, should they be at any time required, and for fixing shelves, pegs, &c., which walls of stone do not. In the present design the whole exterior of the building is of stone. In the former, it was partly stone and partly plaster. The obtaining of an imperishable surface, for so large and important a building, is worth a little additional outlay.

5. The revised estimate and plan should have been submitted earlier for the orders of Government, but the preparation of them was delayed in the Executive Engineer's Office, by his establishment, until recently, being quite unequal to the amount of work to be done. The change in the design has increased the amount of the estimate, but even if no change had been made, owing to the rise in the rates, the estimate must have been increased. The Contractor, who commenced the building, did not find the rates remunerative,

*Proceedings of the Madras Government, Public Works Department,  
3rd October 1867.*

and was allowed to give up his contract. The Executive Engineer reports that the present Contractors are working well, and he expects to have the building completed by the end of the current official year.

From the Executive Engineer, Bangalore, to the Superintending Engineer, 5th Division, dated Bangalore, 19th August 1867, No. 589.

1. I have the honor to forward the revised plan and estimate for the Female Hospital on the old Race Course at this station.

2. It will be seen that the estimate is a good deal less than I expected, being only Rupees 41,300, or Rupees 4,750 more than the original estimate of Rupees 36,550, sanctioned in O. G. No. 574, of 17th February 1866.

3. The principal causes of the excess are as follows:—

4. *Lower story.*—1st. The substitution of pointed arches for semi-circular ones has increased the amount of superstructure by 2,907 cubic feet, and the rate for the portion of this work, which has not yet been executed, has been raised from 2 Annas 4 Pice to 2 Annas 9 Pice per cubic foot. These causes involve an addition of Rupees 542 in the item of superstructure.

2nd.—The substitution of pointed arches for semi-circular ones increases the quantity of stone dressing on the outside of the verandah walls, this causes an addition of Rupees 675.

3rd.—The rate for flooring has been raised from Rupees 8 to Rupees 10 per square. This causes an increase of Rupees 134.

4th.—The rate for such of the teakwood as has not yet been supplied has been raised from Rupees 3-2-0 to Rupees 3-8-0 per cubic foot, and there is a slight increase in the quantity. This causes an increase of Rupees 281.

5th.—An expenditure of Rupees 182 has been incurred on swing windows required according to the original plan, which cannot be used on the present one.

5. These five items together account for an increase of Rupees 1,814, but on the other hand, there is a saving of Rupees 204 on the item of arch work, the pointed arches containing less arch work than the circular ones, and the rate of the new tender being slightly below that of the original estimate.

6. This reduces the excess on the principal items to Rupees 1,610, the remainder (Rupees 290) of the excess on the lower story is made up of a number of small items not worth particularizing one by one.

7. The excess on the upper story amounts to Rupees 2,630, this is due partly to the substitution of pointed arches for columns for the verandah, and partly to a slight increase in the rates for the principal items. The excess would have been much greater than it is, but for the substitution of brick for stone for the interior walls of the building, whereby the cost of dressing the outer faces of these walls more than Rupees 2,000 has been saved.

8. I have not thought it necessary to prepare a comparative statement, showing in detail the excess or reduction on every separate item, as the construction of the whole of the upper story has been so radically altered, that a comparative statement would give very little real information, and my office is so heavily worked already, that I do not care to throw upon it the labor of compiling such a bulky document without some very strong necessity for so doing.

9. I regret the delay which has taken place in forwarding this estimate, but it was impossible to get it ready sooner, as I could not get the former contractor to submit his final bill for the work which he had done.

10. The new contractors are working well, and I hope to have the building completed by the end of the official year.

11. The total expenditure on the building up to date has been Rupees 13,510-4-0.

*Proceedings of the Madras Government, Public Works Department,  
3rd October 1867.*

No. 41.

ORDER THEREON, 3rd October 1867, No. 3,066.

**MILITARY WORKS, No. 2.**

1. The revised plan and estimate submitted with this letter for the Female Hospital in progress on the old

Race Course at Bangalore will be forwarded to the Government of India for sanction, on receipt of the report called for in paragraph 2 of G. O. No. 3,020, dated 27th September 1867.

2. Colonel Foord will submit a comparative statement as prescribed in paragraph 26, Chapter V of the Departmental Code, and he will at the same time report the total amount expended on each of the undermentioned works up to the 30th September 1867:—

|                                       | Estimated cost. |
|---------------------------------------|-----------------|
| Male Hospital (two pavilions)...      | Rs. 1,50,000    |
| Administrative rooms and colonade ... | 25,100          |
| Two separate wards ...                | 27,200          |
| Out-offices for Hospital ...          | 10,020          |
| Female Hospital ...                   | 41,300          |
| Subordinates' Quarters ...            | 12,700          |
| Sick Stables for Artillery ...        | 8,350           |
| Stables for Cavalry ...               | 50,400          |

(True Extract.)

(Signed) J. H. M. SHAW STEWART, Major, R. E.,  
Under Secretary to Government.

To the Superintending Engineer, 5th Division.  
" Military Department.

Exd. S. T. Augustin.

Superintg Engrs Office, 5<sup>th</sup> Divn  
Salem 26<sup>th</sup> September 1867.

N<sup>o</sup> 128.

From,

Lieut. Col. C. A. Ford R.E.

Superintending Engineer  
5<sup>th</sup> Division.

To,

Colonel C. A. Orr R.E.

Secretary to Government  
D. P. W.

Sir,

Enclosures 4.

1 Plan

1 Abstract

Estimate

1 Specification

1 Letter from

Execd: Engineer.

I have the honor to forward a revised estimate of Rs 4,1300, accompanied by plan and Specification, for constructing a Female Hospital at the Race Course Barracks Bangalore.

2- The original estimate of Rspees 36,550 was sanctioned in G.O. N<sup>o</sup> 574 of the 17<sup>th</sup> of February 1866. A revised estimate for the Hospital was called for in G.O. of the 6<sup>th</sup> of August 1866, in consequence of the omission of a verandah on one side of the separate ward. This order was communicated to the Executive Engineer, who informed me verbally that, as the work could not be executed for the rates in the estimate, and as there were other alterations and additions required

required, besides the verandah to the separate ward, he would forward a revised estimate for the entire hospital. On my subsequent visits to Bangalore last year, Captain Tulloch showed me some pencil plans in an incomplete state, but, up to the time of his quitting Bangalore, I had not received from him either plan, or estimate, or any letter on the subject of the alterations proposed by him, and their probable cost. In the meanwhile the work progressed, and it could not have been stopped, without causing great loss to the Contractor, who had incurred a great outlay for materials, and had brought workmen from a distance.

3. The principal change in the design, is the substitution of pointed for circular arches in the verandah of the lower story, and the substitution of a verandah, similar to that of the lower story, for the columns and sloping terrace of the upper story, in the original plan. The alterations were made by Capt. Tulloch, with a view to diminish the glare, and

2  
give more protection to the rooms, in so exposed a situation, than was afforded by the more open verandahs in the original design. The alterations, he informed me, were approved by the Sanitary Commissioner, when at Bangalore, and by the Medical Officers of the Station. The substitution of a tiled roof for a terrace, for the central portion of the building, was also approved by the same authorities.

4. The interior walls of the upper story are now intended to be of brick, instead of stone. By this change, a considerable saving will be effected, and walls of brick offer facilities for opening door ways and windows, should they be at any time required, and for fixing shelves, &c., which walls of stone do not. In the present design, the whole exterior of the building is of stone. In the former, it was partly stone and partly plaster. The obtaining of an imperishable surface, for so large and important a building, is worth a little additional outlay.

5. The revised estimate and plan should

should have been submitted earlier, for the orders of Government, but the preparation of them was delayed in the Executive Engineers office, by his establishment, until recently, being quite unequal to the amount of work to be done. The change in the design has increased the amount of the estimate, but even if no change had been made, owing to the rise in the rates, the estimate must have been increased. The Contractor, who commenced the building, did not find the rates remunerative, and was allowed to give up his contract. The Executive Engineer reports that the present contractors are working well, and he expects to have the building completed, by the end of the current official year.

I have the honor to be  
Sir,  
Your most Obedient Servt.  
E A Ford L.A. Col. R.E.,  
Superinty Engineer,  
5<sup>th</sup> Division.

N<sup>o</sup> 589.

Executive Eng<sup>r</sup>s Office  
Bangalore 19<sup>th</sup> August 1867.

From,  
The Executive Engineer  
Bangalore

To,  
The Superintending Engineer  
5<sup>th</sup> Division

Sir,

I have the honor to forward the revised plan and estimate for the Female Hospital on the old Race Course at this Station.

2. It will be seen that the estimate is a good deal less than I expected, being only Rupees 40,900, or Rupees 4,350 more than the original estimate of Rupees 36,550 sanctioned in O.P. N<sup>o</sup> 574 of 17<sup>th</sup> February 1866.

3. The principal causes of the excess are as follows.

1. Lower Story - 1<sup>st</sup> The substitution of pointed Arches for semicircular ones has increased the amount of superstructure by 2,907 cubic feet, and the rate for the portion of this work which has not yet been executed has been raised

should have been submitted earlier, for the orders of Government, but the preparation of them was delayed in the Executive Engineers office, by his establishment, until recently, being quite unequal to the amount of work to be done. The change in the design has increased the amount of the estimate, but even if no change had been made, owing to the rise in the rates, the estimate must have been increased. The Contractor, who commenced the building, did not find the rates remunerative, and was allowed to give up his contract. The Executive Engineer reports that the present contractors are working well, and he expects to have the building completed, by the end of the current official year.

I have the honor to be  
Sir,  
Your most Obedient Servt.  
E A Ford Lt Col R.E.,  
Superintg Engineer,  
5<sup>th</sup> Division.

N<sup>o</sup> 589.

Executive Engg<sup>r</sup> Office  
Bangalore 19<sup>th</sup> August 1867.

From,  
The Executive Engineer  
Bangalore

To,  
The Superintending Engineer  
5<sup>th</sup> Division

Sir,

I have the honor to forward the revised plan and estimate for the Female Hospital on the old Race Course at this Station.

2. It will be seen that the estimate is a good deal less than I expected, being only Rupees 40,900, or Rupees 4,350 more than the original estimate of Rupees 36,550 sanctioned in O.P. N<sup>o</sup> 574 of 17<sup>th</sup> February 1866.

3. The principal causes of the excess are as follows.

1. Lower Story - 1<sup>st</sup> The substitution of pointed Arches for semicircular ones has increased the amount of superstructure by 2,907 cubic feet, and the rate for the portion of this work which has not yet been executed has been raised

raised from  $2\frac{1}{4}$  to  $2\frac{1}{2}$  per cubic foot.  
These causes involve an addition of  
Rupees 542 in the item of Superstructure.

2<sup>nd</sup> The substitution of pointed  
Arches for semicircular ones increases  
the quantity of stone dressing on the  
outside of the verandah walls, this  
causes an addition of Rupees 675.

3<sup>rd</sup> The rate for flooring has been  
raised from Rupees 8 to Rupees 10  
per square. This causes an increase  
of Rupees 134.

4<sup>th</sup> The rate for such of the teakwood  
as has not yet been supplied has  
been raised from Rupees 3.2.0 to  
Rupees 3.8.0 per cubic foot, and  
there is a slight increase in the  
quantity. This causes an increase  
of Rupees 281.—

5<sup>th</sup> An expenditure of Rupees 182  
has been incurred on swing windows  
required according to the original  
plan, which cannot be used on the  
present one.

5. These five items together account  
for

for an increase of Rupees 1,814, but on  
the other hand there is a saving of  
Rupees 204 on the item of Arch  
work, the pointed arches containing  
less Archwork than the circular ones,  
and the rate of the new tender being  
slightly below that of the original  
estimate.

6. This reduces the excess on the  
principal items to Rupees 1,610.0.0,  
the remainder (Rupees 290) of the  
excess on the lower story is made  
up of a number of small items  
not worth particularizing one by  
one.

7 The excess on the upper story  
amounts to Rupees 2450, this is due  
partly to the substitution of pointed  
arches for columns for the verandah,  
and partly to a slight increase  
in the rates for the principal items.  
The excess would have been much  
greater than it is, but for the sub-  
stitution of brick for stone for the  
interior walls of the building, whereby  
the cost of dressing the outer faces of  
these

these walls more than Rupees 2000, has been saved.

8- I have not thought it necessary to prepare a comparative statement showing in detail the excess or reduction on every separate item, as the construction of the whole of the upper story has been so radically altered that a comparative statement would give very little real information, and my office is so heavily worked already, that I do not care to throw upon it the labour of compiling such a bulky document, without some very strong necessity for so doing.

9- I regret the delay which has taken place in forwarding this estimate, but it was impossible to get it ready sooner, as I could not get the former contractor to submit his final bill, for the work which he had done.

10- The new contractors are working well, and I hope to have the building completed by the end of the official year.

11- The total expenditure on the building up to date has been Rupees 13,510-4-0.—

I have &c

/Sd/ J. Pennycuik & Co.  
Esq: Engineer  
Bangalore.

/True Copy/

F. A. and L. G. Collyer & Co.  
Superintg Engineer,  
S. Division.

Enclosure in letter  
No 128 dated 26 Sept  
1867 from the Office  
Engine & Division to  
the Secretary to Govt  
D. J. W.

1867/25/19

15

Statement

Public Works Department

No. 3066

Proceedings of the Madras Government  
Under date the 3rd October 1867

Read the following

From the Suptg Engineer, H.E. No. 128 Dated 26th Sept/67

7th 1867 Sept

A 3705

From,

The Suptg Engineer,  
S.A. Div.

To, The Secretary to  
Government P.W.

Dated 26th } Sept/67  
Recd. 30. }

No. 128.

Enc: 1

Forwarding for sanction  
a revised estimate  
of Rs 1,300 for con-  
structing a Female  
Hospital on the Race  
Course Barracks at  
Bangalore.

No. 3066-32 Oct 1867

The revised plan  
and estimate submitted  
with this letter for the  
Female Hospital in  
progress on the old  
Race course at Bangalore  
will be forwarded to  
the Government of India  
for sanction, in receipt  
of the report called  
for in para 2 of  
G.O. No. 3020 dated  
27th September 1867.  
[and I would like  
to submit a comparative  
statement

Statement as prescribed  
 in para 26 Chapter  
 V of the Departmental  
 Code, and he will  
 at the same time  
 report the total  
 amount expended on  
 each of the under-  
 mentioned up to the  
 30<sup>th</sup> September 1867.

|                                |          |
|--------------------------------|----------|
| Male Hospital (Hospitaliers) — | 1,50,000 |
| Administrative & Maintenance — | 25,100   |
| Two separate wards — — —       | 27,200   |
| Out Office for Hospital — — —  | 10,020   |
| Female Hospital — — —          | 41,300   |
| Subordinate Districts — — —    | 12,700   |
| Stables for Artillery — — —    | 8,350    |
| Stables for Cavalry — — —      | 50,400   |

Plan, Estimate & Specification sent to the  
 Govt of India with letter no 3548  
 of 1867, 18/11/67

6 To the Sup<sup>g</sup> Govt  
 in Military Dept  
 Recd 24/10/67

1997-1998  
Pub. Works 1867 Department

Pro: of Govt for October  
No. 3066

Pro: of the Madras Govt.  
Of 27<sup>th</sup> October 1867

Instructing the Sup<sup>r</sup>.  
Eng<sup>r</sup>. of the 5<sup>th</sup> Division to report  
the amount expended on certain  
buildings at the Race Course  
Barracks at Bangalore up to  
the 30<sup>th</sup> September 1867.

Dismissing the submission  
for the sanction of the Govt. of  
India, of the revised Plan  
and Estimate for a Female  
Hospital on the Race Course  
Bangalore.

No. 10-10