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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. <u>153</u>	Press ~~Mis.~~
<u>309-17</u>	
Dated 18. 1	18/19.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
18th January 1869.*

No. 300. Read the following letter from the Acting Superintending Engineer, 4th Division, to the Secretary to Government, Public Works Department, dated Madras, 3rd December 1868, No. 4,335 :—

1 Comparative Statement. 1. I have the honor to submit, for the favorable consideration and sanction

of Government, a comparative statement showing the difference between the amount sanctioned for, and the actual expenditure incurred and about to be incurred on, the quarters of the Warrant Officers attached to the Arsenal, Madras, now being erected on the Esplanade of Fort St. George. This difference amounts to Rupees 23,450, and as the original estimate sanctioned in G. O., No. 3,802, of the 29th November 1866, amounted to Rupees 76,500 only, the revised estimate for the quarters as now prepared comes to Rupees 99,950. If to this be added the cost of godowns, referred to further on in this report, the whole amount requiring sanction will be Rupees 1,03,910.

2. From a scrutiny of this statement, you will perceive that the items which make up the increased outlay required are as follows :—

Quarters carried out on contract by Messrs. Bennett & Co., Rupees 4,250 each	...	...	...	...	4,250
Excess work undertaken by him	...	...	...	...	324
Additional work done by departmental agency	...	...	...	...	386
Total					4,960
Amount sanctioned by Government	...	...	...	...	4,250
Difference for one block					710
Total for six blocks					4,260
One block of quarters carried out by the Department	...	...	...	...	5,590
Amount sanctioned by Government	...	...	...	...	4,250
Difference for one block					1,340
Total for ten blocks					13,400
One double block carried out by Department	...	...	...	...	7,145
Amount sanctioned by Government	...	...	...	...	4,250
Difference for one block					2,895
Total for two blocks					5,790
Total difference for eighteen blocks					23,450

3. As regards the cause of the increase in the several items of expenditure, I have the honor to explain that the six quarters were carried out by Messrs. Bennett & Co. That firm undertook the contract according to the agreement made

referred to further on in this report, the whole

with Government, and the amount of their tender was based on the quantities of the printed estimate given to them to fill up. On carrying out the work, it was found that one or two of the quantities did not correspond with the actual quantities which ought to have been made out from the dimensions on the plan, in fact, they were too small in some cases, and Captain Goddard paid the Contractors the difference amounting, together with the cost of a few additions not provided for, to Rupees 324 for each block. These items are shown on the statement, and principally consist of doors and windows, the inside dimensions, only, of which are given in the estimate. An increase is due also to brick-in-chunam being substituted for brick-in-clay at the tops of the walls.

4. In addition to this excess, improvements were made to the buildings by flooring with flat tiles and asphalte, and building granite steps, as well as adding a third coat of paint. These additions, with the exception of the last, I believe, were ordered to be carried out by His Excellency the Governor, and they amount to Rupees 386 for each block.

5. As regards the ten single blocks built subsequently by the Department, an increase of Rupees 1,340 on each block is required for the following reasons, as given by the Executive Engineer in the remark column and in a report lately called for, and which may account for the cost of the twelve blocks recently being built costing each Rupees 630 more than the six blocks executed on contract. The roofing, as shown in the printed estimate, is much below the actual quantity required, and is partly attributable to ridge ventilation being left out. The number of square-feet for doors and windows also is given for interior dimensions, whilst Captain Goddard's rates allow for exterior measurements. The Contractor's rate for venetians, doors, and windows is considerably below the departmental rate and below the amount for which the work can actually be carried out, to give him a profit. Mr. Bennett must not only have been a loser by this, but by the general terms of his contract. Toll tax likewise on each bandy amounts in the aggregate to Rupees 170, which is not allowed for in the original estimate. The particulars are given in the statement, and the increase for these ten blocks amount to Rupees 13,400.

6. The last cause of increase over the original sanction may be stated to be the cost of the additions required to a block, so as to adapt each of the two quarters to give suitable accommodation for large families. The cost of these additions to the rooms, added to the extra outlay required for the excess in the items referred to in the last paragraph, raise the estimate for each block to Rupees 2,895, or Rupees 5,790 for the two double blocks.

7. I have added to the above estimate the sum of Rupees 3,960 for constructing godowns to the quarters sanctioned in G. O., No. 3,421, dated 30th October 1868, for which no specific allotment has been made.

8. The cost of laying down water to the lines, drainage, fencing, and planting trees round the quarters, amounts to Rupees 44,500, and an estimate for separate sanction was submitted with my letter No. 4,237, dated 30th November 1868.

The expenditure on the quarters during the last official year amounted to Rupees 65,767, and adding to this sum Rupees 31,000, the amount allotted for the work in the current Budget, which will be expended this year, the aggregate expenditure in 1868-69 already sanctioned will be Rupees 96,767, and I trust Government will be pleased to allot funds later in the year for the balance of the estimate including the cost* of godowns, Rupees 7,143.

* Rupees 3,960.

No. 310.

ORDER THEREON, 18th January 1869, No. 153.

MILITARY WORKS, No. 13.

1. In Proceedings dated 29th November 1866, No. 3,802, the Government sanctioned an estimate of Rupees 76,500

for the construction of eighteen blocks of family quarters for the Non-Commissioned and Warrant Officers of the Ordnance Department at the Presidency, being at the rate of Rupees 4,250 for each block. The Superintending Engineer of the 4th Division now submits a revised estimate of Rupees 99,950 for the buildings, and, in his letter above recorded, explains the causes which have led to the excess of Rupees 23,450.

2. It appears that six of the quarters were constructed by Messrs. Bennett & Co., the acceptance of whose tender was reported by the Superintending Engineer in his letter of the 21st November 1866, No. 3,249; but that, owing to some errors in the estimate and to certain minor improvements which suggested themselves as the works were in progress, the chief of which was the substitution of stone for ordinary brick-work in the construction of the steps, and of tiles or asphalte for the ordinary chunam flooring, the cost of each block exceeded the sanctioned estimate by Rupees 710, showing an aggregate increased outlay of Rupees 4,260 upon the six quarters.

3. The construction of the other twelve blocks has been undertaken by the department, and it is estimated that, in the case of the ten smaller blocks, the cost of each will exceed the sanctioned estimate by Rupees 1,340, and, in that of each of the larger, by Rupees 2,895, exhibiting a total increase of Rupees 19,190. In explanation of the outlay being even larger than sufficed for the quarters built by Messrs. Bennett and Co., Colonel Bean states that the Contractors must have suffered a loss by their undertaking, and that, owing to the insufficient provision in the estimate for roofing, for doors and windows, and for other minor items of work, and, as respects the larger quarters, for the necessary additional accommodation, the increased outlay was unavoidable.

4. A large portion of the excess appears to be due to extra work carried out, under proper authority, during the construction of the buildings; but His Excellency the Governor in Council cannot pass unnoticed the several imperfections in the estimate to which no small part of the increased outlay is owing. In the hope that greater care will in future be taken to prevent the recurrence of similar mis-

referred to further on in this report, the whole

*Proceedings of the Madras Government, Public Works Department,
18th January 1869.*

takes, the Government sanction the revised estimate of Rupees 99,950, which added to the cost of godowns for the quarters, which, though separately sanctioned, the Superintending Engineer includes in his present estimate, will raise the total cost to Rupees 1,03,910.

5. The allotment for the works will be hereafter supplemented from savings.
(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 4th Division
,, Controller of Public Works Accounts
,, Accountant General.
,, Military Department.

Exd. S. T. Augustin.

N^o 4335

Sup^r Engr^s Office S^t M^d Gov^t
Madras 3rd December 1868

From,

Lieutenant Colonel J. Bean R.E.
Acting Superintending Engineer 4th Divⁿ

To,

Colonel C. A. Orr R.E.
Secretary to Government P.M.D.
Fort Saint George

Sir,

I have the honor to submit for the favorable
consideration and sanction of Government a
Comparative Statement showing the difference
between the amount sanctioned for and the
actual expenditure incurred and about to be
incurred on the Quarters of the Warrent Office
attached to the Arsenal Madras, now being
erected on the Esplanade of Fort Saint George.
This difference amounts to Rupees 23,450, and
as the original estimate sanctioned in G.O.
No. 3802 of the 29th November 1866 amounted
to Rupees 76,500 only, the revised estimate for the
Quarters as now prepared comes to Rupees
99,950. If to this be added the cost of godowns
referred to further on in this report, the
whole

whole amount requiring sanction will be Rupees
103,910.

2 From a scrutiny of this statement
you will perceive that the items which make
up the increased outlay required are as follows.

Quarters carried out on Contract by Mess ^{rs} Bennett & Co. Rupees 4,250 each	4,250
Excess work undertaken by him	324
Additional work done by departmental Agency	306
Total Rupees	4,960
Amount sanctioned by Government	4,250
Difference for 1 block	710
Total for 6 blocks	4,260
One block of Quarters carried out by the Department	5,590
Amount sanctioned by Government	4,250
Difference for 1 block	1,340
Total for 10 blocks	13,400
One double block carried out by Department	7,145
Amount sanctioned by Government	4,250
Difference for 1 Block	2,895
Total for 2 blocks	5,790
Total difference for 18 blocks	23,450

3 As regards the cause of the increase in
the several items of expenditure, I have the honor to
explain that the 6 Quarters were carried out
by Mess^{rs} Bennett & Co. That Firm undertook
the Contract according to the agreement made
with Government, and the amount of their tender
was based on the quantities of the printed estimate
given to them to fill up. On carrying out the work
it was found that one or two of the quantities did
not correspond with the actual quantities which
ought to have been made out from the dimensions
on the plan, in fact, they were too small in some
cases, and Captain Goddard paid the Contractors
the difference amounting, together with the cost
of a few additions not provided for, to Rupees 324
for each block. These items are shown in the
statement and principally consist of doors and
windows, the inside dimensions only, of which
are given in the estimate. An increase is due
also to brick in Chunar being substituted for
brick in clay, at the tops of the walls.

4 In addition to this excess,
improvements were made to the buildings
by flooring with flat tiles and asphalt,
and building granite steps as well as adding
a third coat of paint. These additions with
the exception of the last, I believe, were ordered
to

to be carried out by His Excellency the Governor and they amount to Rupees 306 for each block.

5 As regards the 10 single blocks built subsequently by the Department, an increase of Rupees 1,340 on each block is required for the following reasons, as given by the Executive Engineer in the Remark column and in a report lately called for, and which may account for the cost of the twelve blocks recently being built costing each Rupees 630 more than the 6 blocks executed on contract. The Roofing as shown in the printed estimate is much below the actual quantity required and is partly attributable to ridge ventilation being left out. The number of square feet for doors and windows also is given for interior dimensions whilst Captain Goddard's rates allow for exterior measurements. The Contractor's rate for penitions, doors, and windows is considerably below the departmental rate, and below the amount for which the work can actually be carried out to give him a profit. Mr Bennett must not only have been a loser by this, but by the general terms of his contract.

Toll Tax likewise on each bandy amounts in the aggregate to Rupees 170, which is not allowed for in the original estimate. The particulars are given in the Statement, and the increase for these 10 blocks amounts to Rupees 13,400.

6 The last cause of increase over the original sanction may be stated to be the cost of the additions required to a block so as to adapt each of the two quarters to give suitable accommodation for large families. The cost of these additions to the rooms added to the extra outlay required for the excess in the items referred to in the last para, raise the estimate for each block to Rupees 2,895 or Rupees 5,790 for the two double blocks.

7 I have added to the above estimate the sum of Rupees 3960 for constructing godowns to the Quarters sanctioned in G. O. No. 3421 dated 30th October 1868, for which no specific allotment has been made.

8 The cost of laying down water to the Lines, drainage, fencing, and planting trees round the quarters, amounts to Rupees 4,4500 and an estimate for separate sanction was submitted with my letter No. 6237 dated 30th November 1868. The expenditure on the quarters

quarters during the last official year amounted
to Rupees 65,767, and adding to this sum Rupees
31,000 the amount allotted for the work in the
current budget, which will be expended this
year, the aggregate expenditure in 1868/69 already
sanctioned will be Rupees 96,767, and I trust
Government will be pleased to allot funds
later in the year for the balance of the estimate
including the cost of Godowns, Rupees 7,143. - * Rupees

I have the honor to be

Sir,

Your most obedient servant

Wm. Le. Col. R.E.

Asst. Supr. Engr. &c.

From, *Pr. of Govt. Engineer*
The A. S. Sup. Eng.

To, *The Secretary to Government*
Public Works Dept.

Dated *3^d December 1868*
Rec^d *4th*
Encl. *No. 4335*

Submitting for favorable
consideration and sanction
a comparative statement
showing the difference between
the amount sanctioned for
and the actual expenditure
incurred and about the
incurred on the Barrack
Officers Quarters attached
to the Arsenal Madras
now being erected on the
esplanade of Fort St. George.
No 153: 18th Jan 1869

No 309

c. 11 Dec 1868

Public Works Department

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the *18th Jan 1869*

Read the following

From *The A. S. Sup. Eng.* (Here enter No.) *1335* dated *3^d December 1868*
H. S. D.

Gov. No. of 29 Nov
1868. No 3012. The Govern.
ment sanctioned an
estimate of Rs 76,500 for
the construction of sixteen
blocks of Family Quarters
for the Barrack Officers of the
Ordinance Department
at the Presidency. Being
at the rate of Rs 1250 for
each block. The supply
of the 1st D. now submitted

a revised estimate of
Rs 99,900 for the building,
and, in his letter above
recorded, explains the causes
which have led to the
excess of Rs 23,400.

It appears that
six of the Quarkies were con-
sidered by Messrs. Bennett
& Co., the acceptances of
whose tender was reported by
the Supy Engr. in his letter
of the 21st Nov 1871, to be
but that owing to some
errors in the estimate, and
to certain minor improvements
which suggested themselves
as the works were in progress,
the chief of which was

the substitution of stone
for ordinary brick work
in the construction of the
steps, and of tiles or as-
phalts for the ordinary
churnam flooring, the
cost of each block exceeded
the sanctioned estimate
by Rs 710, showing an
aggregate increased outlay
of Rs 4260 upon the six
Quarkies. In the construction
of the other twelve blocks,
has been undertaken by
the Dept., and it is
estimated that, in the case
of the ten smaller blocks,
the cost of each will exceed
the sanctioned estimate
by Rs 1340, and that

of each of the larger. By
Rs 2895, exhibiting a
total increase of Rs 19,190.
In explanation of the
outlay being even larger
than sufficed for the Quarters
built by Messrs. Bennett
& Co. Col. Dean states
that the Contractors must
have suffered a loss by
their undertaking, and
that, owing to the insuffi-
cient provision in the
estimate for roofing, for
doors & windows, and for
other minor items of work,
and, as respects the large
quarters, for the necessary
additional accommodation

the increased outlay was un-
avoidable.

A large portion of
the excess appears to be due
to extra work carried out,
under proper authority,
during the construction of
the buildings; but H. E. the
Governor in Council cannot
pass unnoticed the several
imperfections in the estimate
to which no small part
of the increased outlay is
owing. In the hope that
greater care will in future
be taken to prevent the
recurrence of similar mis-
takes, the Government
sanction the revised estimate
of Rs 99,950, which added
to the cost of Godowns for

The allotment for the works will be hereafter supplemented from savings



6 The Largest of the 4 ^{Prints}
 4 " Can Miller's
 3 " Book Spinal
 5 " Brilky Dept
 Sept 24/19

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ort. of (1868) *Mindras.*

PUBLIC WORKS.

*Suprintending Eng.
4th Division*

&c. &c. &c.

Encl.

1867 No. 153.

Nos. 204-311

*of ~~the~~ ^{the} Revised Estimate
79,750 for the construction
the Rocks of Family
for the purposes of
the Advances left at the
the times with the*