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MADRAS RECORD OFFICE.

Government of Madras.

Police Wing DEPARTMENT.

G.O. No.

387

Press

Mis

535-6

Dated

21-2-18

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 24th February 1857.

No. 55. Read the following letter from Captain C. C. JOHNSTON, Acting Superintending Engineer, Northern Circle, in charge of the Central Office, of Public Works; to H. FORBES, Esq., Acting Secretary to Government, D. P. W., dated 6th February 1857, No. 10096.

SIR,

1. With reference to Extract Minutes of Consultation, No. 2180, dated 4th September 1855, sanctioning for entry in the Budget of 1856-57, an estimate of Rupees (3,060) three thousand and sixty, for constructing Ducts to convey water from the new Bowry to the several wash houses, attached to the European Barracks at Bellary; I have the honor to forward copies of letters noted in the margin, reporting that the amount has been found to be totally inadequate for carrying out the work.

From Captain D. Barrow
Superintending Execution
Military Buildings Ceded
Districts, No. 111, dated
26th December 1856.
From District Engineer Bellary,
No. 367, dated 20th
January 1857.

2. The explanation of the causes which have led to the estimate being exceeded, is given by the Officer Superintending the Execution of Military Buildings in the Ceded Districts, as follows.

1st. "The estimate was framed for the work to be done with common Chunan, which was found not to answer, and consequently, Hydraulic Cement was purposely prepared, in order to connect the pipes. The Cement was approved by Captain Walker, the Civil Engineer 3rd Division, and with his concurrence was used."

2nd. "The soil to be excavated was found to be of a very difficult nature, the coolies often not being able to perform $\frac{1}{2}$ of what they would have done in lighter soil, excavations were obliged to be made to a much greater depth in certain places, than was originally supposed, to prevent there being too great a pressure of water at any particular point."

3rd. "A sum of Rupees 290 has been paid from this estimate to the Assistant Supervisor, being part of his allowance agreeably to the instructions of the Chief Engineer under date 13th September 1855, No. 845, and a sum of Rupees 51-10-2 paid for brass work, neither of these charges were included in the estimate."

4th. "Also for those cisterns built. The estimate which was prepared *with little data to go on*, has been found insufficient."

3. A revised estimate amounting to Rupees (5,000) five thousand, with detailed data, and a comparative Statement, shewing the particulars of the Items in excess of the original sanction of Rupees (3,060) three thousand and sixty, are herewith submitted, and should Government be satisfied with the explanation offered, I trust that early sanction may be accorded for the additional sum of Rupees (1,940) one thousand, nine hundred and forty.

No. 56. ORDER THEREON, No. 350; dated 21st February 1857.

The Chief Engineer submits for early sanction a revised estimate amounting to Rupees 5,000, for constructing aqueducts for conveying water from the new Bowry to the several wash houses attached to the new European Barracks at Bellary. The estimate amounting to Rupees 3,060 originally sanctioned is reported to be more than 50 per cent. insufficient.

2. Under the recent instructions from the Government of India, this Government is precluded from sanctioning such estimates on emergency. The excess Rupees (1,940) one thousand, nine hundred and forty, will therefore be entered in the Budget of 1857-58, in the Government Office.

3. The Government cannot pass orders on this letter from the Central office, without animadverting on the very loose manner in which the estimate formerly submitted by the Chief Engineer appears to have been prepared; the material it was proposed to use was wrong, the levels were inaccurate, the soil to be excavated was unascertained, no charge for supervision was entered, and contingencies were unprovided for.

4. The whole object of estimates passing through the Chief Engineer's office is lost, if such errors as these are unnoticed.

(Signed) H. FORBES,
Acting Secretary to Government.

District Engineer's Office
Bellary District 38
Bellary Taluk
Courtenuy 20th January 1857.

N^o 36.

From Lieutenant J. F. Fisher
To District Engineer of Bellary

Colonel G. E. Faber

Sir Chief Engineer in the D. P. M.

I have the honor to forward a revised Estimate for conveying water to the new Barracks at Bellary. The former Estimate has been found totally inadequate, and I beg to submit Copy of a letter from Captain Parrow, containing his explanations. —

I have &c

(Signed) J. F. Fisher Lieut.
District Eng^r of Bellary

N^o 111.

From Captain D. Parrow
Superint^d Exp^{ts} M^d Build^d District.

To The District Engineer of Bellary

Sir

I have the honor to bring to your notice, that the Estimate for constructing a aqueduct from the Bowry to the wash houses attached to the New European Barracks has been exceeded, and beg to furnish the following explanation of the causes of the same. —

The Estimate was framed on the 2nd August 1855 —

and

and sanctioned by Government for Rupees 3000, and work has been executed up to this date as follows.—

Aqueduct built with pipes—48,43. Cub ft
do for disty water—1,515 do
Cisterns—3

There is still work to be done as follows, vizt 2213 Pft of pipe work, and about 1366 Pft of Channel for carrying off foul water.—

The expenditure already incurred for work done, amounts to Rupees 3,478. and an additional sum of Rupees 1,522 will be required to complete the work.—

The Estimate was framed for the work to be done with Common Chunan, which was found not to answer, and consequently Hydraulic Cement was purposely prepared, in order to connect the pipes, the Cement was approved by Captain Walker the Civil Engineer 3^d Division, and with his concurrence was used.—

The soil to be excavated was found to be of very difficult nature, the coolies often not being able to perform a 1/3 of what they would have done in lighter soil; Excavations were obliged to be made to a much greater depth in certain places than was originally supposed to prevent their being too great a pressure of water at any particular point.—

A sum of Rupees 290 has been paid from this estimate

Estimate to the Assistant Supervisor, being part of his allowance, agreeably to the instructions of the Chief Engineer under date 13th September 1855 N^o 845. and a sum of 57-10-2 paid for Brass cocks, neither of these charges were included in the Estimate, also for those Cisterns built. The Estimate which was prepared with little data to go on, has been found insufficient. I therefore beg to submit a Revised Estimate, amounting to Rupees 5000 and beg that you will have the goodness to obtain the sanction for the same, in order to complete the work.—

I have &c

Bellary ---
26th December 1856.

(Signed) D. S. Parrow Capt^l
Sup^g En^g Mil^l Build^g & C^o D^o

[True Copy]

(Signed) J. F. Fisher Lieut^l
District Eng^r of Bellary.

[True Copies]

Upotumtu Captain

Sub^l En^g N^o 10
in Charge of the Central Office D. P. Works

Comparative Statement of the expense of Constructing Aqueducts
for Conducting water from the New Doury to several Wash Houses
attached to the New European Barracks in the Cantonment of Bellary.

		Original Estimate				Revised Estimate			
		Rs.	As.	P.	Rate	Rs.	As.	P.	Rate
7180	Prop. Constructing water courses with Earthen Pipes cased all round with brick in Chinnam including Excavation &c. - - - - -	2021	1	8	700	3595	+		
5030	Prop. Constructing Channels to carry off dirty water from the Wash Houses with stone in Chinnam using the old stones &c. - - - - -	938	5	4	4	6	938	5	4
13	Plas Cocks to be fixed in Wash Houses - - - - -					51	10	0	
	Constructing 3 Cisterns complete - - - - -					75			
	Sundry Charges - - - - -	100	9	8		342			
	Total. - - - - -	3060				5000			
	Deduct original Estimate sanctioned - - - - -					3060			
	Net Amount, requiring sanction - - - - -					1940			

+ including the Cost for fixing Pipes with Hydraulic Cement.
0 Rs. - 0 As. - 0 P. for Superintendence -

W. M. Captain
Actg. Superintd. Southern Circle
Incharge of Subst. Office of P. M.

1857. *Deposited*
Enclosure is a letter from the
Actg. Secy to Govt. of India in charge
of the Public Office of the
Government of Madras
dated 6th February 1857.
No. 26537
Copy of letter from the
Government of India to the
Government of Madras dated
1st of February 1857 in
which it is stated that the
Government of India are
for constructing a water
course from the New Doury to the
European Barracks at Bellary.

Enclosed
In a letter
From
The Chief Engineer
J. P. W.
To
The Secretary to Government
J. P. W.

Dated 1st }
Recd 4 } February 1857

No 1056

11.2.57

Comparative Statement of the
Expense of Constructing Aqueduct for
conducting water from the New Borey
to several Wash Houses attached to the
new European Barracks in the
 Cantonment of Bellary.

Public. () [New Work]
Abstract of Estimate No. of 185 . 15
Road No.
District Bellary.
Work. Constructing Aqueducts for conducting water from the
New Borey to several wash houses attached to the new European Barracks.

Quantities	Description of Work	Rate			Amount	Amount for each part
		R ^s	at P.		Rupees	Rupees
7180	Running ft Constructing water courses with earthen pipes joined with cement chunam and cased all round with brick work in chunam including excavation & complete		8		3593	
5630	Running feet Constructing Channels to carry off dirty water from the wash houses with stone in chunam plastered & covered with stone slabs & using the old stones of the present water courses that leads from the 3 small wells		2	8	938	
	13 Brass Cocks to be fixed in wash houses					52
	Constructing 3 Cisterns complete					75

Carried over Rupees 4658

Quantities	Description of Work	Rate	Amount	Amount for each part
C. 1/2		R ^s R ^s P.	Rupies	Rupies
	Brought over Rupies		4658	
	Sundry and Superintending charges		3 1/2	
	Total Rupies			5000
	Subduct Amount of Original Estimate sanctioned on the 4 th September 1855			2000
	Total Company's Rupies Five thousand nine hundred & forty			1940

Central Office of P. M.
Fort St. George
6 February 1857

W. J. M. Captain
Actg Supt Engineer
in charge of Central Office of P. M.

Enclosure

In a letter

From

The Chief Engineer
S. P. W.

To

The Secretary to Govt
S. P. W.

Dated 6th February 1857
Received 1st March 1857
No. 10096

Abstract of the
Expense of Constructing Aqueducts
for conducting water from the
New Borey to several wash
houses attached to the new
European Barracks in the
Dist of Bellary. Amount to
Rs 19400 ..

N^o 350

Extract from the Minutes of Consultation
Under date the 2nd February 1857

Read the following
letter from the Acting
Superintending Engineer
Northern Circles in charge
of the Central Office S. P. W.

There enter 6th Feb/57
N^o 10096

At
the
Meeting
of the
Committee

The Chief Engineer
submits for early sanction
a revised Estimate amount-
ing to Rs 5000 for con-
structing aqueducts for
conveying water from the
new Borey to the several
wash houses attached
to the new European
barracks at Bellary.
The Estimate amounting
to Rs 3060 originally
sanctioned

The first estimate
submitted for the
purpose of constructing
aqueducts for conveying
water from the new
Borey to the several
wash houses attached
to the new European
barracks at Bellary
amounted to Rs 19400 ..

suggested is reported to be more than 50 percent
be insufficient.

2. Under the present
instructions from the
Govt of India the Govt
is precluded from sanc-
tioning such Estimates
in emergency. The excess
Rs 19605 One thousand
nine hundred and forty
will therefore be entered
in the Budget of 1857/58
in the Government Office.

~~11~~ ~~12~~

The Government
cannot pass orders on this
letter from the Central
Office without animad-
verting on the very loose
manner in which the
Estimate formerly submitted
by the Chief Engineer
appears to have been
prepared. The material
it was proposed to use
was

was wrong. The levels
were inaccurate, the
soil to be excavated was
uncertain, no
charge for supervision
was entered, and con-
tingencies were un-
provided for.

The whole object
of Estimate passing
through the Chief Engineer
Office is lost if such
errors as these are
unnoticed. - *W. H.*

9 Copies to the Chief Engr.
with an A.C. D. 21st.

20350

Public Works 1887 21st Sept.
Do to Ave 21st 1888

6
Extracts of Cons.
of 21st February 1871.

Adjoining West end
New Brunswick from
the foot of Laurel fire
cliff from east of Co.
located on Huntington,
but stand of for cutting
in the Road of 1859/1860
ruined all made for
constructing bridge for
conveying water from
the new Quarry to the
lower track. houses
attached to the English
Quarry at Barclay.

12 July 1919