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MADRAS RECORD OFFICE.

Government of Madras.

Public & Works DEPARTMENT.

G.O. No. <u>2284</u>	Press
<u>208-209</u>	<u>Mis.</u>
Dated <u>9-8-</u>	<u>1864</u>

Not to be folded or roughly handled

17

Proceedings of the Madras Government, Public Works Department.
9th August 1864.

No. 208. Read the following letter from Captain T. E. GAHAGAN, R. E., Acting Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Salem, 30th July 1864, No. 708:—
SIR,

1. I have the honor to request you will inform me at your earliest convenience to what extent iron piping for the Ulsoor Water Supply project at Bangalore has been ordered from England by the Government.

2. Shortly before leaving Bangalore Captain Goddard submitted to me a revised Estimate for the project, in which the item of piping was utterly ignored. In returning this Estimate for revision and submission in a complete state I instructed his successor Lieutenant Pennycuik, to provide for an iron service of piping between the filter and the cisterns attached to the various Barracks, and for a leaden house-service from the cisterns. At the time of giving these instructions I was quite ignorant that the Government had ordered any piping. This important information reached me only a fortnight ago in a private letter from Captain Goddard. There is absolutely nothing on record about it in the Superintending Engineer's Office.

3. I trust that the Government have not ordered the whole quantity of piping specified by Captain Tulloch; for his smallest sizes are (according to Lieutenant Pennycuik's calculations) unequal to the task required of them, unequal, that is, to pass the necessary supply of water.

4. The total amount of the revised Estimate for this project, as roughly calculated by Lieutenant Pennycuik, will be about Rupees 2,00,000, an increase of nearly 200 per cent. on the sanctioned Estimate (Rupees 72,000). The causes of the excess are:—

- (1.) The general insufficiency of Captain Tulloch's rates.
- (2.) The substitution of iron piping for earthenware, and
- (3.) Some inaccuracies in the levels of the original project.

No. 209. ORDER THEREON, 9th August 1864, No. 2,284.

1. The Superintending Engineer, 5th Division, will be furnished with a Memorandum of the quantity and description of piping which has been indented for, for the Ulsoor Water Supply project, and he will be informed that the whole has already been shipped for Madras, and may be shortly expected.

2. Captain Tulloch's Estimate for the project amounted to Rupees 72,000, which included the cost of an engine and pumps, piping, &c. It now appears that this sum is quite inadequate, and the cost is roughly computed at 2 lacs of Rupees or nearly 200 per cent. in excess of the sanctioned Estimate. This excess is stated to be owing to—

- (1.) General insufficiency of rates.
- (2.) Substitution of iron for earthenware piping.
- (3.) Inaccuracies in the levels of the original project.

3. The Government will await the receipt of the revised Estimates under preparation, which should be accompanied by the Comparative Statement required by paragraph 26, Chapter V of the Code, and by detailed explanation of the causes of the large increase in the cost of the work. The Superintending Engineer will specify the descriptions of the piping indented for which he considers unsuited to the object in view, and he will state the calculations upon which he bases his opinion.

4. It is observed that Captain Tulloch in his letter* of the 15th April 1863, remarked that the rates allowed in the Estimate were much in excess of those prevailing at the time, and the Government are therefore surprised to find that their insufficiency should now be urged as one of the grounds of excess.

* Vide G. O. 2nd May 1863, No. 1,125.

(True Extract.)

(Signed) J. H. M. SHAW STEWART, Major, R. E.,

Deputy Secretary to Government.

To the Superintending Engineer, 5th Division, with Memorandum.

- „ Controller and Auditor of Public Works Accounts.
- „ Accountant General.
- „ Captain H. Tulloch, R. E.

Exd. S: T. Augustin.

1864
 11th Dec. of Govt. for Bangalore
 No. 3375

From
 The Dy. Supt. Engineer
 5th Division

To The Secretary to Govt.
 B.P. W.
 No. 708

Dated 30th July 1864
 Recd. & Ackd. 1st Aug. 1864

Requests to know
 to what extent Iron
 piping for the Ulloor
 Water Supply project
 at Bangalore has been
 ordered from England

No. 208.

11

2284-94 Aug 1864

25th Dec 1864

Memo. of the quantity of iron piping intended for the Ulloor
 water supply project in Bangalore.

35

No. Remarks

Iron valves with brass slides as figure
 80, page 67 of Groyne & Co's price
 current for 1860 & 1861, to be fixed in
 a pipe having an internal diameter of 9"

3"	2"	7 7/8"	2
3"	3"	1 1/2"	2
3"	3"	1 6"	4
3"	3"	5"	8
3"	3"	3 1/2"	6
3"	3"	3"	7
3"	3"	2"	30
3"	3"	1 1/2"	6
3"	3"	1"	20
3"	3"	1/2"	30

Shipped per Robert Appings
 in June 1864.

Cast Iron Pipes 10" diameter in convenient lengths 1000
 Brass Cocks 1/2" internal diameter 108
 Branch pipes as figure 3 page 62 of Groyne
 & Co's price current 3/4" internal diameter 3
 Wrought Iron piping 1 1/2" internal diameter
 in convenient lengths 600

3"	1 1/4"	5"	600
3"	1"	5"	776
3"	7/8"	5"	400
3"	1 1/2"	5"	600
3"	1"	5"	800

Time of probable shipment
 intimated to be July 1864.

Lead piping
 3" 1 1/2" 5" 600
 3" 1" 5" 800 } shipped in June 1864.

2284
No 2284

Public Works Department

Proceedings of the Madras Government
Under date the 9th July 1864
Read the following

From The Supy Engineer 5th Division

Requests to know to what
Extent Iron piping for the Mloor
Water supply project at Bangalore
has been ordered from England

H. E. 30th July 1864 No 708

14/8/33/5/64
Recd. 9th Aug 5/64

The Ag Superintending
Engineer 5th Division will be
furnished with a Memo. of the
quantity & description of ~~iron~~ piping which
has been indentured for, for
the Mloor water supply project,
& he will be informed that
from intimation received the
order has already been shipped
for Madras, & may therefore
be shortly expected.

Capt. In Moch's estimate
for the project amounted to
Rs 72,000 which included the
cost of an engine & pumps,
piping &c. It now appears
that this sum is quite inadequate

& the cost is roughly computed at 2 lacs of Rupees or nearly 200% in excess of the sanctioned estimate. This excess is stated to be owing to,

1. General insufficiency of rates.
2. Substitution of iron for earthenware piping.
3. Inaccuracies in the levels of the original project.

The Govt. will await the receipt of the revised estimates under preparation, which should be accompanied by the Comparative Statements required by Para 26 Chapter V of the Code, & by detailed explanation of the causes of the large increase in the cost of the work. ^{The} ~~Suppl. Memo~~ ^{Suppl. Memo} will specify the descriptions of the piping indicated for which he considers unsuited to the object in view, & he will state the calculations upon which he bases his opinion of their ~~unsuitability~~.

It is observed that Capt. Tulloch in his letter of the 15th April 1863, remarked

Vide G. O. 2nd May/63. 1125

50
that the rates allowed in the estimate were much in excess of those prevailing at the time, & the Govt. are therefore surprised to find that ^{their} insufficiency of rates should now be urged as one of the grounds of excess.

W.

The Suppl. Memo 5th Dec. - with Memo
Cont. & And. of the a/cts.
Acct. General
Capt. H. Tulloch R.E. ✓
Recd. 10th August.

11/12/1911

Concise
1975

(11)

2277 1866 Debit

Pro. of Gov. & Co. Aug 22

No 22284

Pro. of the M. Gov.

2/19 Aug 27th

W. D.

Amount of the quantity

& description of shipping

which has been ordered

for for the M. Gov.

Pro. of the M. Gov.

at Bangalore, for

to the M. Gov.

and the receipt of the

received 8th June 1866

the M. Gov.

No 2228 2229

No 2228 2229