

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2184	Press
B.P. No.		Mis.
36538		
Dated	2-9-	195
		1873

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd September 1873.*

Read the following papers :—

No. 36. From Captain A. EDGCOMB, R.E., Officiating District Engineer, Bellary, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Camp at Chalkur, Bellary District, 14th July 1873, No. 578.

With reference to the instructions conveyed in paragraph 4 of G. O., No. 672, dated 3rd March 1873, I have the honour to report that on the 7th instant I inspected the Gootloor Tank and examined into its circumstances. From the comparative statement herewith sent it will be seen what work has been done up to date and what remains to be done, and it is with much pleasure I have to report that no further sanction will be needed.

2. The insufficiency of rate for new stone to be used on the revetment was first brought to my notice by the Range Officer in February last. I then called upon him to direct the Overseer to furnish me with data, in order that I might arrive at a conclusion as to whether the supposed insufficiency of rate was admissible. The Range Officer experienced the utmost difficulty in obtaining any data from the Overseer, and subsequently visited the work himself, and prepared a statement (which has only recently reached me), and from an examination of which I authorized an increased rate for new stone to be used on the revetment.

3. From an examination of the comparative statement it will be seen that the large quantity of earthwork and of stonework provided for the bund has, in carrying out the work, been found unnecessary, and I, at this distance of time, can only account for this great discrepancy on the supposition that the original estimate must have been very roughly prepared. Another prominent fact that will be revealed on reading the comparative statement is, that the work at the two calingulabs differs entirely from that proposed in the original estimate. I am informed that the executive officers, from time to time engaged on this work, on observing the probable saving that there would be in earthwork and stonework, resolved to turn that saving to account by building the calingulabs more substantially than was originally intended, and that this resolution met with the approval of Colonel Moberly. I may here remark that, in my humble opinion, the saving could not have been more favourably utilized, as the designs according to the original estimate appear too weak for large calingulabs, such as those needed at this tank.

4. Further deviations of a minor nature, such as the building of head walls to the sluices, instead of using upright stones, the stopping of the broken stone backing after the revetment had reached high water mark, and a few other items which will appear in the comparative statement were also, I understand, approved by Colonel Moberly, and I, with considerable diffidence, would endorse his approval. I may remark that, notwithstanding the numerous changes that have occurred during the lengthened time that the tank has been under construction, the height of the bund, and the levels of the calingulabs with reference to the bund, remain the same as originally contemplated, and therefore the capacity of the tank will be unaltered.

5. In paragraph 11 of my Administration Report, for the past year, I said that I would in this report bring to notice those whom I considered responsible

for want of progress on this work during the past year. I would now name Supervisor O'Leary, who, during six months that he was connected with this work, as forming a part of his sub-divisional charge, appears to have done little or nothing towards pushing on with the work, or towards throwing light on the confusion into which the papers connected with it had fallen. He is now serving, by my orders, in the sub-division of the Ghooty Range, and has had nothing to do with this work since the middle of April last, but I mention him as one who is partly responsible for want of progress on the work.

6. I would also name Taluq Overseer O'Leary, who has proved himself utterly incompetent as an Overseer. I need say no more of this man as I have already received authority from Government to dispense with his services, and I shall do so as soon as the Range Officer reports that he has no further claims against him. The work is now in charge of Taluq Overseer Narrainsawmy, and if he continues working at his present rate I confidently hope that I shall be able to report the thorough completion of the work by the end of August.

7. I have addressed the Collector, in accordance with the instructions contained in the 6th paragraph of the order of Government under notice, but have up to date received no reply from him. I understand, however, that the Tahsildar of Durmaveram has recently been making inquiries regarding the capabilities of the tank, and I infer from this that applications are being received with reference to the extension of area under the tank.

8. In conclusion I would bring to notice the assistance that I have received from Supervisor Harris (formerly in charge of this work) in drawing up the comparative statement, and in furnishing me with facts upon which I have founded this report.

No. 454C.

No. 37. *Note by the Chief Engineer for Irrigation.*

THE comparative statement shows in several particulars wide departures from the details of the sanctioned estimate, and these deviations should have been made only after obtaining the sanction of Government. The remarks entered in the statement are not always satisfactory explanations of the circumstances noticed. It is said that the expenditure on puddling and tamping became mixed because of the equality of rates, and that the decrease in quantity of the latter to the extent of nearly one-third is due to an error in the original estimate. It may be observed, however, that provision was made for tamping all the earthwork, and, so far as the statement is evidence, a great deal of this work was left untamped. The importance of the thorough consolidation of the earth has not apparently been understood, and even at the filling in at the sluices tamping was omitted. It is said, in the remark opposite puddling, that this description of work has been carried out to the full extent, but this assertion is not supported by the entries in columns 2, 5, 11, and 15. Two calingulabs were estimated to cost Rupees 4,399-1-0; Rupees 8,178-14-5 are shown as expended and Rupees 1,825-0-8 as required to complete them, making a total of Rupees 10,003-15-1. Paragraph 3 of the District Engineer's letter states that the work differs entirely from that proposed in the original estimate, and it is explained that the executive officers, from time to time engaged on

this work, observing the probable saving that there would be in earthwork and stonework, resolved to turn that saving to account by building the calingulabs more substantially than was originally intended, and (he is informed) that this resolution met with the approval of Colonel Moberly. It was open to the late Superintending Engineer to ask for sanction for these radical alterations, and to report that funds would be available for carrying them out, but the proceedings of all concerned were highly irregular, the more so also that some of the savings were confessedly due to errors in the sanctioned estimate.

2. The cost of rubble stone masonry at the second sluice averaged Rupees 3-7-2 nearly, and that of similar work at the third sluice Rupees 1-11-7, this great difference is not apparently fully accounted for by the fact that the latter sluice is close to the quarries.

3. Altogether the information now submitted by the District Engineer, taken in connection with that previously obtained, indicates that the management of this considerable work has from first to last been very far from satisfactory. It is to be hoped that the work done is better than the manner of carrying it out.

OOTACAMUND,
26th July 1873.

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 38.

ORDER THEREON, 2nd September 1873, No. 2,184.

IRRIGATION, No. 4.

THE Government are much dissatisfied with the manner in which the Gootloor Tank restoration has been carried out. Wide departures from the details of the arrangements sanctioned have been made on insufficient authority, and the Governor in Council agrees with the Chief Engineer for Irrigation in the opinion that large savings on certain items of the estimate, especially as these were in part due to errors in the sanctioned estimate, were not available for carrying out extensive and radical alterations of the sanctioned designs of other works, without the approval of Government.

2. The unreasonable length of time occupied in the restoration has virtually, by the postponement for several years of the expected returns in the shape of revenue, added greatly to the actual cost of the work, and its management from first to last has been such as to reflect no credit on those who have been employed upon, or connected with it. These persons are Lieutenant-Colonel A. Moberly, R.E., the late Mr. Brosnahan, Assistant Supervisor Harris, and Overseer Heywood, of whose conduct notice has already been taken in orders—

No. 2,180 of 9th July 1868.

„ 2,393 of 28th „ „

„ 2,699 of 22nd Aug. „

„ 2,710 of 24th „ „

„ 55 of 8th Jan. 1869.

and more recently Mr. Supervisor O'Leary and Overseer O'Leary, of whom the

Proceedings of the Madras Government, Public Works Department,
2nd September 1873.

District Engineer reports his intention of dismissing the latter for general incompetence, and the former is now warned that further bad report will ensure his degradation.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

No. 578

District
Superintending Engineer's Office.
3rd Division.

Camp *Chalkur* — Talook
Bellary District.

The *16 July* 1873

From,
The *District*
Superintending Engineer *Bellary*
3rd Division.

To,
The *Chief Engineer*
and *Secretary to Government*
P.W.D.

Enclosures, 1

Sir,

With reference to the instructions conveyed in para 1 of G.O. No 672, dated 3 March 1873 I have the honour to report that on the 7th Instant, I inspected the Yellow Tank and examined into its circumstances. From the Comparative Statement herewith sent, it will be seen what work has been done up to date and what remains to be done and it is with much pleasure I have to report that no further sanction will be needed.

2. The insufficiency of rate for new Stone to be used in the revetment was first brought to my notice by the Range Officer in February last. I then called upon him to direct the Overseer to furnish me with data, in order that I might arrive at a conclusion as to whether

The proposed modification was admissible. The Range Officer experienced the utmost difficulty in obtaining any data from the Overseer, and subsequently visited the work himself, and prepared a Statement (which has only recently reached me) and from an examination of which I authorized an increased rate for new Stone to be used on the Revetment.

3. From an examination of the Comparative Statement it will be seen that the large quantity of Earthwork and of Stonework provided for the bank, has, in carrying out the work, been found unnecessary and, at the distance of time, can only account for the great discrepancy on the supposition that the original Estimate must have been very roughly prepared. Another prominent fact that will be revealed on reading the Comparative Statement, is that the work of the two Calingulas differs entirely from that proposed in the original Estimate. I am informed that the Executive Officers, from time to time engaged on this work, on observing the probable saving that there would be in

Earthwork and Stonework, resolved to turn that saving to account by building the Calingulas more substantially than was originally intended, and that this resolution met with the approval of Colonel Moberly. I may here remark that, in my humble opinion, the saving could not have been more favorably utilized as the designs according to the original Estimate appear too weak for large Calingulas, such as those needed at this Tank.

4. Further variations of a minor nature, such as the building of head walls to the sluice, instead of using upright stones. The stopping of the broken stone backing, after the revetment had reached H. W. M. and a few other items which will appear in the Comparative Statement were also. I understand, approved by Colonel Moberly, and I, with considerable diffidence, would endorse his approval. I may remark that, notwithstanding the numerous changes that have occurred during the lengthened time that the Tank has been under construction - the height of the bank, and the levels of the Calingulas with reference to

to the burial, remain the same as originally contemplated, and therefore the capacity of the Tank will be maintained.

5. In paragraph 11 of my Administration Report for the past year, I said that I would, in this report, bring to notice those whom I considered responsible for want of progress on this work, during the past year; I would now name Supervisor (Leary) who during six months that he was connected with this work, performing a part of his Sub-Divisional charge, appears to have done little or nothing towards pushing on with the work, or towards throwing light on the confusion into which the papers connected with it had fallen. He is now doing, by my order, in the Sub-Division of the Gooty Range, and has had nothing to do with this work since the middle of April last. But I mention him as one who is partly responsible for want of progress on the work.

6. I would also name Talook Officer (Leary) who has proved himself utterly incompetent as an Officer.

I

I need say no more of this man, as I have already received authority from Government to discontinue his services, and I shall do so as soon as the Range Officer reports that he has no further claims against him. The work is now in charge of Talook Officer (Narain) sawmy, and if he continues working at his present rate, I confidently hope that I shall be able to report the thorough completion of the work by the end of August.

7. I have addressed the Collector, in accordance with the instructions contained in the 6th paragraph of the Order of Government under notice, but have, up to date, received no reply from him. I understand however that the Tahsildar of Durnavaram has recently been making enquiries regarding the capabilities of the Tank, and I infer from this that applications are being received with reference to the extension of area under the Tank.

8. In conclusion I would bring to notice the assistance that I have received from Supervisor Harris (formerly)

2007/73

(formerly) in charge of this work) in drawing up
the Comparative Statement and in furnishing me
with facts upon which I have founded this report.

I have the honour to be



Your most Obedt. Servant

Arthur Edgemoor Capt. R.C.

Offy District Engineer Bellamy

8

James M. Smith, President

202/173
From, *1873 - 4th Dept.*
District No. 4053.
The Superintending Engineer
3rd Division.
Bellary

To,
The *Chief Engineer*
& Secy to Government
Princ. P.W.D.
No. *578*

Dated *14th July* 1873.
Received *19th July* 1873.
Ew. 1.

Reports on the state of
the Goddoo Tanks and
Circumstances connected
therewith.
Printed & bound.

No 36
No 2184-2 Sept 5/73.

Recd to City 20 July 73 A. 28 d.

The last half
of the 1933/34
7-4-74

1873 District Engineer's Office
 Capital
 Main Engineer

60500	10834	10834	10834
1703	10834	10834	10834
11296	10834	10834	10834

10834	10834	10834	10834
10834	10834	10834	10834
10834	10834	10834	10834

6857	190	7048
6857	190	7048
6857	190	7048

51938	51938	51938	51938
51938	51938	51938	51938
51938	51938	51938	51938

Grand Total

Grand Total

Grand Total

Deduct the amount of the sanctioned estimate
 Balance required to be sanctioned

District Engineer's Office
 Camp
 1st July 1873

Bellary District

Enclosure to Letter No 578
dated 14th July 1873. from the
District Engineer Bellary.
to The Chief Engineer P.W.D.

Dist. price

G.O. no. 2184 of 2nd Sept/72

P.W. 4053/73.

Chengannur

Comparative Statement for
restoring Gollur Tank. Dist.
Mandaram Taluk. Koneondah
Range. Bellary District, as
called for in G.O. No 672 of
3rd March 1873.

No 1546. 80
Note by the Chief Engineer for Irrigation

The comparative statement shows
in several particulars wide departures
from the details of the sanctioned
estimate, and these deviations
should have been made only after
obtaining the sanction of Government.
The remarks entered in the
statement are not always satisfactory
explanations of the circumstances
noticed. It is said that the
expenditure on puddling and tamping
became mixed because of the
equality of rates, and that the
decrease in quantity of the latter
to the extent of nearly one third
is due to an error in the original
estimate. It may be observed however
that provision was made for
tamping all the earthwork, and,
so far as the statement is evidence,
a great deal of this work was
left

left unstamped. The importance of the thorough consolidation of the earth has not apparently been understood, and even at the filling in at the sluices tamping was omitted. It is said in the remark opposite puddling that this description of work has been carried out to the full extent, but this assertion is not supported by the entries in Columns 2, 5, 11, & 15. Two Calingulabs were estimated to cost Rupees 4399-1-0; Rupees 8178-14-5 are shown as expended and Rupees 1825-0-8 as required to complete them, making a total of Rupees 10,003-18-1.

Para 3 of the District Engineer's letter states that the work differs entirely from that proposed in the original estimate, and it is explained that the Executive Officers from time to time engaged on this work observing the probable saving that there would be

would be in earthwork & stonework, resolved to throw that saving to account by building the calingulabs more substantially than was originally intended, and (he is informed) that this resolution met with the approval of Colonel Proberly. It was open to the late Superintending Engineer to ask for sanction for these radical alterations, and to report that funds would be available for carrying them out, but the proceedings of all concerned were highly irregular, the more so also that some of the savings were confessedly due to errors in the sanctioned estimate.

2. The cost of rubble stone masonry at the 2nd sluice averaged Rupees 3. 7. 2-nearly, and that of similar work at the 3rd sluice Rupees 1-11-7: this great difference is not apparently fully accounted for by the fact that the latter sluice

Q. 28-8-73.

Mr 37

Note on the report
of the S.A. Bellamy on
the state of the Port-
low Bank & circum-
stances connected therewith
Mr 2184-2 26th/73.

Noted 26th July 1873
Recd 28th August 1873.

Print
To the Secretary to
the Chief Engineer for
Irrigation
Mr 2184-2
J. 454.6.

No 2184 Int. P.W.D.
Proceedings of the Madras Government
Read the following
From the S.A. Bellamy -
Notes by Chief Eng. for Irrig.
Papers -
H.E. No 578 of 14th July/73.
H.E. No 454 of 26th July/73

The Government
are ~~not~~ ^{roughly} at all satisfied
with the manner in
which the Gootloor Bank
restoration has been car-
ried out. Wide depar-
tures from the details
of the arrangements
sanctioned have been
made on insufficient
authority, and the
Governor in Council
agrees with the Chief
Engineer for Irrigation
in the opinion that
large savings on certain
items

MR
2570

items of the estimate, especially as these were in part due to errors in the sanctioned estimate, were not available for carrying out extensive & radical alterations of the same.

These persons are sent off to the late Mr. Brennan's Assistant Supervisor Harris and another person, of whose conduct notice has already been taken in order.

2 The unreasonable length of time occupied in the restoration has virtually, by the postponement for several years of the expected returns in the shape of revenue, added greatly to the actual cost of the work, and its management from first

These persons are sent off to the late Mr. Brennan's Assistant Supervisor Harris and another person, of whose conduct notice has already been taken in order.

No. 2180 of 9th July 1868
 " 2398 " 28th do "
 " 2699 " 22nd Aug "
 " 2710 " 24th do "
 " 55 " 8th Jan'y/69.

And more recently Mr. Supervisor O'Leary and Overseer O'Leary, of whom the District Engineer reports his intention of dismissing the latter for general incompetence, and the former is now warned that further bad reports will ensure his degradation.

If they can be traced, let them be made to pay.

to last has been such as to reflect little credit on those who have been employed upon or connected with it.

Formerly
 Major Moberly,
 Mr. Brennan
 Aft. Supervisor Harris
 Overseer Heywood
 Mr. recently
 Supervisor O'Leary
 Overseer O'Leary

By 26/7/73
 L.M.W.
 60 9 July 1868 at 215
 22nd Aug 1868 at 275
 24th Aug 1868 at 360
 24th Aug 1868 at 375
 10th Dec 1868 at 400
 10th Dec 1868 at 400
 10th Dec 1868 at 400

To The Dist. Sup. Bellary
 Chief Eng. for Irrigation

Swansea
 25/7/73
 Signed Charles H. C.
 25/7/73

4053.
4739

Govt. of 1873 Madras.
PUBLIC WORKS.

To The District Engineer
Bellary

Dated

Recd.

Encl.

G. O. 2nd Sept. No. 2184.

Nos. 36-38

Goatloor Tank - Bellary Dist.

Passing orders on papers
relating the Goatloor
and the proceedings
Officers connected
with it

7-36-38

Q. 214 of 1873