M.R.O. 1—77,006—8-5-37.

(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. 246, 247, 247-A 248	2939	Press / Mis.
Dated	12-12-	1872.

Not to be folded or roughly handled

Read the following papers:—

No. 246. From the Superintending Engineer, 5th Division, to the Chief Engineer for Irrigation, dated Cuddalore, 15th June 1872, No. 65.

With reference to paragraphs 3 and 4 of your letter of the 10th of June, No. 96, I have the honour to state that in G. O., No. 1,279, of the 14th of May 1872, the following establishment has been sanctioned for South Arcot:—

	Rs.
1 Surveyor	100
1 Draughtsman	50
6 Lascars	36

2. The establishment which has been entertained in the third range for the investigation of the Pullagacherry project consists of—

	Rs.
1 Surveyor	60
1 Draughtsman	50
6 Lascars	36

which is a saving of 40 Rupees a month for the present.

3. The amount sanctioned, in a lump sum, for the storage of water and improvement of tanks in connection with the Pelandorai Anicut is Rupees 23,730. The Surveyor, who last year was engaged on the Culvaroyen Reservoir project, has been at the Pelandorai Anicut only since the beginning of May. Captain Vertue had given instructions for his pay to be charged to the storage of water item of the Pelandorai estimate while employed on the survey of the tanks, but owing to illness he had not commenced this work till after Captain Vertue left the division.

No. 247. From Major J. VERTUE, R.E., Officiating Superintending Engineer, to the Acting Joint Secretary to Government, Public Works Department, dated Bellary, 17th September 1872.

I have the honour to acknowledge receipt of G. O., No. 1,925, of 13th August, and to state that a mistake has been made in supposing that I ordered any portion of Surveyor Walter's salary to be defrayed from the Pelandorai project while he was employed on the Culvaroyen reservoir.

2. The only way in which I can account for the mistake is in the fact that I ordered him to Pelandorai, to assist in the storage investigation, but assuredly his pay from that source should have commenced from the date of joining.

3. He should have drawn no pay at all from the date of his quitting his work *without leave* and proceeding to Salem. He had been ordered to Pelandorai, and at Virdachellum, which is close to it, he could have had medical attendance, and would have had less distance to travel than from his camp to Salem.

4. Nay, more, the Surveyor had been from the first ordered to keep a diary, and show the amount of work done daily; finding that he shirked his work, beat his lascars, and otherwise misconducted himself, I directed the Assistant Engineer only to draw his pay for the days on which he showed proper work. If then, as I

Proceedings of the Madras Government, Public Works Department,
12th December 1872.

9. There is nothing brought forward in Major Vertue's letter to induce me to modify the opinion I had formed that the project is not worth investigating, but even were it advisable to investigate it the work done by Mr. Walter and which would appear to have cost Rupees 406-12-11 would be useless.

FORT ST. GEORGE,
20th November 1872.

(Signed) R. F. OAKES, Major, R.E.,
Acting Chief Engineer for Irrigation.

No. 248. ORDER THEREON, 12th December 1872, No. 2,939.

IRRIGATION, No. 13.

ORDERED to be recorded.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Chief Engineer for Irrigation.
„ District Engineer, South Arcot.

Exd. S. T. Austin.

MEMORANDUM.

5

REQUESTED for reference the under-mentioned papers

5 Gen. No. 56- 18 Oct- 72
and with Govt. printed
Ltr. No. 2939- 12 Dec 72

18-12-72

OFFICE OF THE CHIEF
ENGR. FOR IRRIGATION,
P. W. Department,
18 12 1872

Head Clerk.

To
The Registrar of the Madras

No. 8 Bellary 17th September 1872

From

Major James Vertue RE
Offg. Supdt. Surveys

To

The Actg. Joint Secretary to Government
Public Works Department
Madras

Sir

I have the honor to acknowledge receipt of G.O. No. 1925 of 13th August and to state that a mistake had been made in supposing that I ordered any portion of Surveyor Walker's Salary to be charged from the Palandorai Project while he was employed on the Cuddapah Reservoir & the only way in which I can account for the mistake is in the fact that I ordered him to Palandorai to assist in the Storage investigation, but assuredly his pay from that source should have commenced from the date of joining.

3. He should have drawn no pay at all from the date of his quitting the work without leave, and proceeding to Salem where he had been ordered to Palandorai, and at Veidachellum which is close to it, he could have had several attendance and would have had less distance to travel than from his Camp to Salem.

4. I say more - the Surveyor had been from the first ordered to keep a Diary and also the Overseer should daily, [illegible]

that he shirked his work, beat his Lascars, and otherwise misconducted himself, I directed the Assistant Engineer only to draw his pay for the days on which he showed proper work. If then, as I gather, he has been paid in full up to 31st March last he has been paid a great deal too much.

5. He was certainly a young man, but he had been for months employed in N.I. Range, and he was perfectly competent to do what he was charged with - viz. taking Levels with a view to ascertaining the Capacity of the proposed Tank.

6. With regard to my communicating this investigation without sanction - In my Report on the Project I intimated (I speak from recollection) that I would report when I had obtained fuller information on this and kindred points, and as Government in their order on the subject directed applications to be made in this Official year for the funds necessary to enable Rain fall observations to be taken, I thought myself bound, before Communicating Government to incur expenditure to do what I could in the mean time to prove that it would be justified; in short I was disappointed, owing to the inaccuracy of the Survey.

7. I trust Government will here excuse me if I make a few remarks on the Project itself; as with all deference, I conceive it to have been condemned on very slender grounds.

8. I reported it would probably cost Several Lacs of Rupees. Three would stand for Several just as well as four, the sum assumed by the Ag: Chief Engineer.

9. The Rain fall is put down at 60 inches, and the Drainage Basin at 75 Square miles, on what authority I do not know. I conceive both, especially the latter, to be very much under rated.

10. The route to the Reservoir is only one of Several that the Channel might have taken, and though that route would cross the drainage, the expense consequent thereon would not be nearly so great as supposed, for the minor streams are comparatively few, and the larger would have been Coped by throwing Arches over them, and as these streams, although bringing down a great deal of water, are narrow with well defined banks, and as Stone and Lime are abundant, the expense of these works would have been comparatively small. I may mention too that the streams rising in the Culroyen Range are perennial, while those from the Sainandee Malai and Shevaroys, such as the Sumaur, are by no means so; this I attribute mainly to the disforesting of the latter Hills. On my way in December

(the capacity of the Tank)

cait from Kallakurichi to Salem by the Manjavuddy Pass, all the streams from the Cubroyan Range had a good stream of water running in them, while the others were perfectly dry.

11. I would also point out that the Kallakurichi Talook is itself capable of very great improvement; it has a rich soil, large quantities of Sugar Cane are grown, and as Messrs Parry and Company have now opened a Factory at Kallakurichi probably the Cultivation will greatly extend, and the Crop is a 10 months one and requires a great deal of water.

12. Lastly, I would point out that one of my principal reasons for urging the creation of this and similar gigantic Reservoirs was the prevention, or mitigation, of the disastrous floods which every few years ravage the Coast Districts, causing great loss of revenue, and still greater loss to the inhabitants.

I have &c

Lawrence Bellew Major R.E.
Offg. Chief Engineer

Cait from Kallakurichi to Salem by Rail

1872-73
Ch. 1597.
From Capt J. Venuet R.E.

To Ag Supdg Engr 3 Div
No 204 dt 25 Sept 72

To The Ag Joint Secretary
to Government
P.W.D.

Dated 17 September 1872.
Received 23 — a
O. dt. 5733/72.

Reports that he did not order any portion of Surveyor Walter's Salary to be defrayed from the Pandrae Project while Mr Walter was employed on the Cubbenjeri Reservoir and offers his explanation respecting the same.

No 247

Rec'd Oct 7th

No. 65.

Supdg Engineer's Office, 5th Div.
Cuddalore 15th June 1872.

From
The Superintending Engineer,
5th Division.

To
The Chief Engineer
for Irrigation.

Sir,

With reference to paras 3 and 4 of your letter of the 10th of June No. 96, I have the honor to state that in G.O. No. 1279 of the 14th of May 1872 the following establishment has been sanctioned for South Arcot.

1 Surveyor Rs: 100
1 Draughtsman " 50
6 Lascars " 36

2. The Establishment which has been entertained in the third Range for the investigation of the Pullagacherry project consists of

1 Surveyor Rs: 60
1 Draughtsman " 50
6 Lascars " 36

which

which is a saving of 40 Rupees a month for the present.

3 The amount sanctioned, in a lump sum, for the storage of water and improvement of tanks in connection with the Pelandoravu Annicut is Rupees 23,730. The Surveyor who last year was engaged on the Kulvarayen Reservoir project, has been at the Pelandoravu Annicut only since the beginning of May. Captain Veitch had given instructions for his pay to be charged to the storage of water item of the Pelandoravu estimate while employed on the survey of the Tanks, but owing to illness he had not commenced this work till after Captain Veitch left the Division

I have the honr to be
Sir,
Your most Obedt Servant

E C Ford Colle R.E.
Supt Engineer, 5th Division.

1½

...which is increased to Rupees a month [illegible]

No. 156 Supdg. Engrs Office 5th Div.
Cuddalore, 18th October 1872

From
The Superintending Engineer,
5th Division

To
The Chief Engineer
for Irrigation

Sir,

In reply to your letter of the 2[illegible]
September No. 208 I have the honor to
inform you, that Surveyor Walter was
employed on the Kulrayan Project from
about the 27th of December 1871 to March
1872. For the greater part of December he
was employed in the Cuddalore Range.
He drew full pay for December and Ja=
nuary. For February Rupees 93-1-8 and
for March Rs. 22-9-3. The short payments
in the last two months owing to his dila
torines

To S. Engr No 111-25
June 72.

No. 413.
From
The Supdg Engineer,
5th Divn.

To
The Chief Engineer
for Irrigation.

Dated 15th
Recd: 19th June 1872.

No. 65.
P. W. S. 733/72

Survey Establishment

Furnishing certain information regarding the Survey Establishment employed in the inves= =tigation of the Pullaja= =cherry anicut Project & of the Storage of water & improvement of the Tanks connected with the Ke= =lambaram Anicut.

No 246

and absence from work. The Surveyor and his Establishment while employed on the Kulrayen project were paid from the Amount Sanctioned for Survey Establishment in 1871-72 and 1872-73.

2 It was not noted they were employed on the Survey of the Tanks connected with the Pelandorai Annicut that their Salaries were disbursed from the Estimate of that work. It was so stated in para 3 of my letter of the 18th July No 89.

3. The Range Officer stated that he roughly Estimated the cost of the Kulrayen project at five Lacs. No Register of the Rain fall has yet been kept.

I have the honor to be
Sir
Your Most Obt. Servant

Ed Ward Colonel R.E.
Supdg. Engineer 5th Dn.

from letter No 2 D 1925 13 Augt 72

19

93-7-5: in February and P.C. 22-9-13 in March

Re Kalvaroyen works & Thos Surveyor

No 5-5

From
The Supdg. Engineer
5th Dn.

To
The Engineer for
Irrigation
Madras

Dated 18th October 1872
Rect 21st October 1872
P.W. 5/33/72
No 156.

Reporting the period of Surveyor Walker's employment on the Kalvaroyen Project and the source whence he was paid.

No 2736-5/12-Oct/72

Trn 12 Dec/72 L B No 24

Ex Govt Order No 284.
20 Nov/72.

10

Irrigation

21

17th Sept. 172. Surveyor's salary was to be debited from fund provided for the Kandaleru Project and that such was the case is confirmed by the Superintending Engineer's No 5 Division whose original statement sent to the Government including Surveyor's salary was debited from the Establishments for investigating Projects pending the sanction of the Estimates for the Kalvaroyen Project by the Government.

No 156. 18th Oct/72.

Paras 5 of No 57 of 1st Jan and para 19 of No 98 of 18th July.

G.O. 1299 of 12th May/71

G.O. 1279. 14th May/72

It appears that Surveyor drew full salary for December and January Rs 93-1-5 & for February and Rs. 22-9-5

the deductions in the latter months being due to the Surveyor not having worked satisfactorily during those months.

4. Major Venture explains that he commenced the investigations in connection with this Project with a view of ascertaining whether it would be worth the while of Government to undertake the expense of obtaining information relative to the rain fall &c in the Irabinda Reservoir and for which it had been decided that application for funds should be made at the beginning of the Official Year.

5. Major Venture mentions three assumptions on the grounds on which the Project had been condemned, and which he regards as very insufficient in number and as used without sufficient data. In para 5 he says that he pointed out that the Project would probably cost several lacs and questions the 5 Lacs at which I put it in this place. That I would claim for several lacs at 5 But he does not attempt to shew that the Project would cost it is unnecessary to discuss such an argument But I may observe that the Executive Engineer also estimates the cost of the Project at 5 lacs

Gl. No 345 of 5 February

No 156 of 18th Oct from Supt Engr

5. In para 9 he questions my estimate of the Rain fall and of the area of the drainage basin but he does not shew in what respects they are erroneous. My estimate of the latter was derived from the Survey Sheet of the District and of the former from the Rain fall in my Limbdi Country in the neighbouring District of Gudalcanal.

6. In para 10 he questions my statement that the Channels would cross the drainage of the Country But it is apparent from a glance at the map that in order to command the land requiring irrigation the drainage must necessarily be crossed.

7. There is nothing brought forward in Major Venture's letter to induce me to modify the opinion I had formed that the Project is not worth investigating but even were it advisable to investigate it the work done by Mr Walker and which would appear to have cost Rs 406-12-11 would have been wasted.

J. Dickinson Major R.E
Chief Engr for Irrigation

5th George
November 1872

Public Works 1872 Dept.

No. 5733.

From
The Sty Chief Engr
for Irrigation

To the Secretary Govt
P.W.D.
No. 284.
Dated 20th Nov. 72
Rec'd 21 "

Under date 17. 11. 31/13 [illegible]

Note in connection with the Cultivation
Respect investigation

No 2939 - 12 Nov 72

Note and order

Cro 12 Aug 71 pp 201-202
" 5 Feb 72 — 87-88
" 14 Aug — 347-348
" 13 Aug — 221-222.

R.C.

To the Chief Engineer & Secy
Irrigation Dept.

Under date 16/12/72

Cho 5733.

Govt. of {1872} Madras.

PUBLIC WORKS.

Flood Chief Engr for Irrigation

Dated

Read

Encl. 2

G. O. 12th Decr 1872. 2963.

247-247cf

Nos. 246 & 248

Culvaroyen project - Letter
Note by the Chf Engr for
Irrigation in connection with
the cost of the Culvaroyen
project investigation, Encls