M.R.O. 1—77,000—8-6-37.

(1) Number of pages 16

(2) Date of repair 8-12-38

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 10. 2. 1860

G.O. No.	310	Press Mis.
108-09 Dated	8-2-	1860.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, for the month of February 1860.

No. 108. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer; to the Secretary to Government, dated 21st January 1860, No. 9419.

1 Letter from District Engineer Nellúr, No. 2748, dated 22nd November 1859, with 2 enclosures.
1 Do. from do. No. 2812, dated 16th December 1859.
1 Do. from the Deputy Chief Engineer C. C. No. 80, dated 16th January 1860, and 1 Abstract Estimate.

With reference to the orders of Government, dated 1st October 1859, No. 2349, I have the honor to forward herewith, three letters on the subject of the improvements to the Allúr large tank, two from the District Engineer of Nellúr, and one from the Deputy Chief Engineer of the Central Circle who, it will be seen, inspected the tank in question during his recent visit to Nellúr.

Paragraph 4 of District Engineer's letter, dated 22nd November 1859.

2. The Allúr tank is one of the first class, and has an area of about three square miles, and a bund four miles in length. Its source of supply is the Pydairú river, which, though only under the influence of the north east monsoon, drains a strip of country 20 miles in length and from four to five in breadth. The supply is regulated by means of an anicut in the bed of the river, with which is connected a large surplus kalingal.

3. The entire length of revetment proposed to be built is about four miles, of which 1,500 yards are to be entirely new, and the remainder to complete that already constructed to six feet above high water line. The revetment, to be built of laterite stones, is to be half yard thick, and to be protected by a backing of gravel one foot in thickness.

Paragraph 3 of District Engineer's letter, dated 16th December 1859.
Paragraph 4 of do.

4. Captain Mullins states that the old revetment to this tank was not of sufficient height and breadth, and was, therefore, not able to resist the effects of the floods during the heavy rains. Two years ago, he observes, there was no tank in the Nellúr district which possessed a gravel backing to its revetment, and the first instance in which this was used was the Nellúr tank, the soil of which was so loose and easily dissolved, that the water penetrated the joints of the revetment. The bund of the Allúr tank being supposed at first to be of a better description, a similar method of constructing the revetment was not then resorted to. It was, however, discovered after the breach in October 1858, that the bund of this tank was composed of layers of soil which were but imperfectly joined, and that the water might pass through and cause a breach, and a remedy for this danger was at once applied in using a concrete of clay and gravel, which, after an experience of two years, has proved to be very satisfactory in its results. There is every reason, therefore, to hope that the revetment now proposed to be built, protected as it is to be by a gravel backing, will be suitable and sufficient.

Paragraph 3 of District Engineer's letter, dated 22nd November 1859.

5. With reference to the improvement of the kalingals near Allúr and Singapet, Captain Mullins states that as their bodies are on a too low a level and their wing walls scarcely above high water line, it is proposed to raise the former to high water line, and the latter to the level of the top of the bund or six feet above high water line. The new kalingal to be built at the north west end of the tank is intended to direct the surplus water discharged from those to be improved, into the Rámanná tank, a five reservoir, which is now dependant only upon the local surface drainage.

6. A revised estimate is herewith forwarded, shewing the details of the revetment and of the kalingals separately, as well as a revenue statement prepared by the Collector as called for by Government.

7. The proposed works are fully approved of by Colonel Lawford, who considers them to be very necessary for the safety of the tank which is now reported to be in an insecure state. As I fully recognize the importance of these works, which appear to be properly planned, I beg to recommend for the early sanction of Government the estimate now submitted, amounting to Rupees 14,700 to be defrayed from the repair funds at the disposal of the District Engineer.

Proceedings of the Madras Government, Public Works Department, for the month of February 1860.

No. 109. ORDER THEREON, 8th February 1860, No. 310.

In this letter, the Chief Engineer furnishes information on the several points noticed in the order of Government dated 1st October 1859 No. 2349 respecting an estimate of Rupees 14,700 for improvements to the Allúr tank in the Nellúr district. Colonel Bell states in conclusion that the proposed improvements are considered by Colonel Lawford who had recently inspected the tank, to be very necessary for the safety of the reservoir, and adds that the works in his opinion are both important as well as properly planned.

2. The Government grant authority for the execution of the works in question at the estimated cost of Rupees (14,700) fourteen thousand and seven hundred; the amount being defrayed, as recommended by Colonel Bell, out of the repair funds at the disposal of the District Engineer.

(Signed) T. PYCROFT,
Chief Secretary.

35

Central Office of P.W.
Fort St. George
21st January 1860.

No. 9419.

From
The Chief Engineer

To
The Secretary to Government P.W.D.

Sir,

Revenue
Irrigation

With reference to the orders of Government dated 1st October 1859 No. 2349,

Encls: 6.

I have the honor to forward herewith three letters on the subject of the improvements to the Allur large tank, two from the District Engineer of Nellore, and one from the Deputy Chief Engineer of the Central Circle who, it will be seen, inspected the Tank in question during his recent visit to Nellore.

Viz: 1 Letter from
Dt Engr Nellore No 2748
of 22nd Nov/59 with
2 Encs:
1 do from do No 2512
of 16th Dec/59
1 do from the Depty Ch.
Engr C.C. No 3 of 9th
Jany/60
1 Abstract Estimate

2. The Allur tank is one of the first class, and has an area of about 3 square miles, and a bund 4 miles in length. The source of supply is the Pydairu River, which, though only under

para 4 of Dt Engr's
letter of 22nd Nov/59

[illegible] 212 | 1'675

under the influence of the North East Monsoon drains a strip of Country 20 Miles in length and from 4 to five in breadth. The supply is regulated by means of an Anicut in the bed of the river, with which is connected a large surplus Calingulah

3. The entire length of revetment proposed to be built is about 4 Miles of which 1500 yards are to be entirely new, and the remainder to complete that already constructed to 6 feet above high water line. The revetment, to be built of Laterite stones, is to be 2 feet thick, and to be protected by a backing of gravel one foot in thickness.

4. Captain Mullins states that the old revetment to this Tank was not of sufficient height and breadth, and was therefore not able to resist the effects of the floods during the heavy rains. Two years ago he observes, there was no tank in the Nellore District which possessed a gravel backing to its revetment, and the

Para 3 of Do. letter of 16th Nov/59

Para 4 & 6.

first

first instance in which this was used was the Nellore Tank, the soil of which was so loose and easily dissolved, that the water penetrated the joints of the revetment. The bund of the Nellore tank being supposed at first to be of a better description, a similar method of constructing the revetment was not then resorted to. It was however discovered, after the breach in October 1858, that the bund of this tank was composed of layers of soil which were but imperfectly joined, and that the water might pass through and cause a breach, and a remedy for this danger was at once applied in using a Concrete of clay and gravel, which, after an experience of two years, has proved to be very satisfactory in its results. There is every reason therefore to hope that the revetment now proposed to be built, protected as it is to be by a gravel backing, will be

suitable

212 | 1893

suitable and sufficient.

5. With reference to the improvement of the Calingulahs near Ulloor and Singapett, Captain Mullins states that as their bodies are on a too low a level and their wing walls scarcely above high water line it is proposed to raise the former to high water line, and the latter to the level of the top of the bund or 6 feet above high water line. The new Calingulah to be built at the north west end of the tank is intended to direct the surplus water discharged from those to be improved, into the Ramannah Tank, a fine reservoir, which is now dependent only upon the local surface drainage.

Para 8 of [illegible] letter of 23rd Nov/59

[illegible]

6. A revised Estimate is herewith forwarded shewing the details of the Revetment and of the Calingulahs separately as well as a Revenue Statement prepared by the Collector as called for by Government.

The

75

7. The proposed works are fully approved of by Colonel Lawford who considers them to be very necessary for the safety of the Tank which is now reported to be in an insecure state. As I fully recognize the importance of these works which appear to be properly planned, I beg to recommend for the early sanction of Government the Estimate now submitted amounting to Rupees 14,700 to be defrayed from the Repair funds at the disposal of the District Engineer.

Fort St George
21st Jany 1860

I have the honor to be,
Sir,
Your most obdt Servt
Bell Lt Col
Chief Engineer

Lt Col
Dy Ch. Engr C.C.

To The Secretary to Government P.W.D.

P Ilbray

Carried Over 212 | 1175

95

Revenue Irrigation — (New Work)

Abstract of Estimate No. of 185 /5

District — Nellore

Talook — Talamunchy Village — Ulloor

Work — Constructing Laterite Stone revetment &c. to the bank of Ulloor large tank.

Quantities.	Description of Work.	Rate.			Amount.	Amount of each part
C. Yards.		Rs.	A.	P.	Rupees.	Rupees.
	— New Revetment —					
4573	Laterite revetment — 7 C.y.	2	5	"	10575	
3048	Gravel backing — Do.	"	12	"	2287	
	Extra Establishment —	"	"	"	405	
	Sundries —	"	"	"	93	13360
	— New Calingulah —					
114	Laterite in Chunam — 7 C.y.	3	6	-	386	
	Excavation, Carriage of granite Stone and Sundries —	"	"	"	69	
	Extra Establishment —	"	"	"	16	
	Sundries —	"	"	"	5	476
	East Calingulah —					
181	Laterite in Chunam — 7 C.y.	3	6	"	612	
	Extra Establishment —	"	"	"	22	
	Sundries —	"	"	"	5	639
	— West Calingulah —					
54	Laterite in Chunam — 7 C.y.	3	6	"	182	
317	Cft. Brick in Chunam — Cft.	"	1	6	30	
	Carried Over				212	14475

Cons: 4 October /59 No. 132-133.

P. Work 1860 Depart.
Pro: of Govt. No. 196. 7th February
[illegible]

The Chief Engineer
to The Secy. to Govt. P.W.D.

Dated 21st } Aug 1860
Recd }

No. 9419

Enclo. 6
5 Returned

No. 310. 8th Feby.

Submits letters from the District Engineer of Nellore and the Dy. Chief Engineer C.E. regarding the improvements to the Ulloor Tank, and request sanction for the Estimate of Rupees 14,760 now submitted for that purpose —

No. 108

C 30th Jany. R 3d Feby

Quantities.	Description of Work.	Rate.			Amount.	Amount of each part.
C. Yards		R.	A.	P.	Rupees.	Rupees.
	Brought forward				212	14475
162	Supfl. Plastering — Sqr.	2	8	„	4	
	Extra Establishment	„	„	„	7	
	Sundries	„	„	„	2	
						225
		Total Rupees				14700

Central Office of P.W.
Chepakkam
21st Jany 1860

J. H. Bell Lieut. Col.
Chief Engineer D.P.W.

Enclosure

In a letter

From

The Chief Engineer PW

To

The Secretary to Government PW

Dated 21st } January 1860
Received }

P.W. 196/60

No 9419

Abstract Revised Estimate of Constructing Laterite Stone Revetment &c to the bank of Nellore large tank in the District of Nellore Amounting to Rupees 14700-"

P.W. Dept 13

No 310.

Proceedings of the Madras Governmen
Under date the 8th ~~January~~ February 1860.

Read the following lette
from the Chief Engineer

Submits letters from the District Engineer of Nellur and the Dy Chief Engineer C.C. regarding the improvement to the Allur Tank, and request sanction for the Estimate of Rupees 14,700 now submitted for that purpose.

(Here enter 21st Jany 1860 No 9419)

In this letter the Chief Engr furnishes infor-mation on the several poin noticed in the order of Govt dated 1st October 1859 No 2349 respecting an estimat of Rs 14700 for improveme to the Allur tank in the Nellore district. Col Bel states in conclusion that the proposed improvements are considered by Col Lawfo who had recently inspecte the tank, to be very necessary

for

for the safety of the reservoir; and adds that the works in his opinion are both important as well as properly planned.

2. The Govt grant authority for the execution of the works in question at the estimated cost of Rs 14,700) Fourteen thousand and seven hundred; the amount being defrayed, as recommended by Col. Bell, out of the repair funds at the disposal of the District Engineer.—

JP

10 Copies to the
Chief Engr.
with 6 Enclos.
Dif. C.G.

Public Works 1860 Dept.
Pro: of Govt. 10th February.

No. 310.

Pro: of the Madras Govt.
Dd. 8th February 1860.

Authorizing the exe:
cution of improvements
to Allur tank in Nellur
at an estimated cost of
Rupees 14,700.

No. 108 + 109.

230 Jany / R 3 Feby