

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works (Irrigation) DEPARTMENT

G.O. No.	320	Press
~~B.P. No.~~		~~Mis.~~
Dated	5-2-	1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
5th February 1876.*

Read the following papers :—

No. 76. From Major J. VERTUE, District Engineer, Trichinopoly, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Trichinopoly, 6th January 1876, No. 798.

ADVERTING to your memorandum No. 586, of 2nd June 1875, I have the honor

1 Plan. to submit documents as per margin for
1 Survey of site. a surplus sluice in north Coleroon bank
1 Sheet longitudinal and cross sections. in the limits of Esanakarei.
1 Abstract Estimate amounting to Rs. 2,350.

2. The sluice is proposed to carry the discharge from the sand escape (marked in survey) in the south Iyen channel into the Coleroon. The sand escape has two vents of 5 feet $\times$ 4 feet; the proposed sluice has two vents, 5 feet $\times$ 4½ feet.

3. Through the latter will also pass the drainage of 100 acres west of the sluice site. The sand escape is only opened during the highest freshes of the Cavary, which come with the south-west monsoon, and last but for a few days. The main duty then of the proposed sluice is to carry off the surplus from the 100 acres of irrigated land.

4. Allowing a maximum fall of 2 inches per hour and ⅓ths for evaporation and absorption, the quantity of water to be passed is $200 - 80 = 120$ cubic feet per second, and for this the water-way allowed is amply sufficient.

5. The original estimate allowed for self-acting shutters in rear, but by an oversight they were not shown in the plan. Balk shutters have been provided in front, as the lands to the east are partially irrigated by the surplus of the fields above, and it is therefore useful to have a ready means of retaining the water.

6. A road-way of 10 feet is allowed in the estimate, as it is in contemplation by the Local Fund Board to carry a road along the north Coleroon bank.

7. The raising to its proper height above flood level of the Coleroon bank will be carried out under an estimate for the repair of the bank.

No. 105.

No. 76-A. *Note by the Chief Engineer for Irrigation.*

WITH his letter No. 213, of the 27th May 1875, the District Engineer, Trichinopoly, transmitted an estimate, amounting to Rupees 1,250, for "a sand sluice to Therku Iyen channel in the limits of Yesanakarei," on account of which Rupees 625 had been contributed by the Collector from the Voluntary Cess Fund.

2. The information furnished being, as to a great many important particulars, either incomplete or altogether wanting, the omissions were pointed out, and the present District Engineer has transmitted a revised design and estimate amounting to Rupees 2,350.

3. It is now shown that the work required is not a sand sluice for the Therku Iyen channel, but a surplus sluice in the Coleroon bank.

4. The design has not been prepared to fit the bank. It appears useless to build horizontal wings with parapets which would stand up far above the earthworks in rear of them, while were the latter carried out to fit such wings, the wing returns would have to be lengthened to over 20 feet to carry the slopes. The wings should

therefore be sloped to agree with the earthwork slopes. Again, the great splays given to the wings are unnecessary, and increase the cost by adding much to the area of the flooring. Concave wings on the upper side are not suitable. The wings should be altered as marked in dotted lines. The lower (river side) wing returns will need to be 12 feet long, and the slopes where overlapping these returns should be revetted. The foundations of the lower retaining wall should be laid at 194.35, corresponding with the level of the foundations of the main walls. Abutments 4 feet thick are unnecessary for 4 feet vents, 3 feet will be ample.

5. As pointed out in this office memorandum, an essential level is Coleroon maximum water level and the margin allowed above this should be $4\frac{1}{2}$ feet. What is called H.W. mark has been noted, but this may be anything, and M.W.L. with the year of its occurrence should be shown. The road-way should be $4\frac{1}{2}$ feet above this M.W.L. whatever it may be.

6. Subject to attention to these remarks the estimate may be sanctioned. There will be saving on the abutments, flooring and wings, and so it is not likely that the cost of the sluice with the revisions required will exceed the estimate.

FORT ST. GEORGE,
26th January 1876.

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

No. 77.

ORDER THEREON, 5th February 1876, No. 320.

IRRIGATION, No. 7.

THE estimate of Rupees 2,350, for constructing a surplus sluice in the north Coleroon bank in the limits of Yesanakarei, Trichinopoly District, is sanctioned. Rupees 625 have been contributed from the Local Cess Fund and the remainder will be charged to Agricultural, Miscellaneous, New Works, and will be provided for from the district grant for Minor New Works.

2. The District Engineer will take care that the alterations of the design pointed out by the Chief Engineer for Irrigation to be necessary are duly attended to. The sanction accorded in paragraph 1 has been registered as Irrigation No. 1 W. of 1875-76.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the District Engineer, Trichinopoly.
" Collector of do.
" Chief Engineer for Irrigation.
" Controller of Public Works Accounts.
" Revenue Department.

Exd. S. T. Austin.
Spare Copies

ERRATA.

In G.O., No. 320, dated 5th Feb. 1876, para. 2, for Irrigation No. 1 W, read No. 1 I.
" " " 364 " 11th " " " 2, for " " 2 W, read " 2 I.
" " " 373 " 11th " " " 3, for " " 3 W, read " 3 I.
" " " 365 " 11th " " " 3, for " " 7 W, read " 7 I.
" " " 368 " 11th " " " 2, for " " 6 W, read " 6 I.

(Signed) A. DEC. SCOTT, Major, R.E.,
Under Secretary, Irrigation Branch.

To the District Engineer, Trichinopoly.
" Collector of Trichinopoly.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.
" Superintending Engineer, Chingleput.
" Collector of Chingleput.
" Financial Department.
" Superintending Engineer, Kistna.
" District Engineer of Cuddapah.
" Collector of Cuddapah.

10
N^o 105

Enclosure 6.

Note by the Chief Engineer for Irrigation.

With his letter N^o 213 of the 27th May 1875, the District Engineer, Lucknow, transmitted an estimate amounting to Rs 1250 for "a sand slice to Sherhi Syia Channel in the limits of Ghasiahorai" on account of which Rs 625 had been contributed by the Collector from the Substantive Fund.

886 - 2nd June 75.

2. The information furnished being so a great many important particulars, either incomplete or altogether wanting, the revision was pointed out and the present District Engineer has transmitted a revised design and estimate amounting to Rs 2500.

3. It is now shown that the work required is not a sand slice for the Sherhi Syia Channel, but a surplus slice in the Sherhi Bank.

4. The design has not been prepared to fit the bank. It appears useless to build horizontal wings in the parapets which would stand up far

far above the earthworks in rear of them, while were the latter carried out to fit such wings, the wing returns would have to be lengthened to over 20 feet to carry the slopes. The wings should therefore be sloped to agree with the earthwork slopes. Again the great splays given to the wings are unnecessary and increase the cost by adding much to the area of the floorings. Concrete wings on the upper side are not available. The wings should be altered as indicated in dotted lines. The lower wing side wing returns will need to be 12 feet long and the slopes where overlapping these returns should be revetted. The foundations of the lower retaining wall should be laid at spots corresponding with the level of the foundations of the main walls. Abutments 10 feet thick are unnecessary for 10 feet draft. 3 feet will be ample.

5. As pointed out in this office memorandum an essential level is Colerone maximum water level and the margin allowed above this should be $4\frac{1}{2}$ feet. What is called H.W. mark has been noted but this may be anything and M.W.L. with the year of its occurrence should be shown. The roadway should be $4\frac{1}{2}$ feet above this M.W.L.

whatever it may be.

6. Subject to attention to these remarks the estimate may be sanctioned. There will be saving in the abutments, flooring and wings, and so it is not likely that the cost of the scheme with the revisions required will exceed the estimate.

Fort Smith, Ariz.
26 January 1896

Wm. L. Linsley
Chief Engineer for Irrigation

P. W. 1876 Dept.
No 784

P. W. 1876 Dept.
C. E. No 176 of 1876.

From

The Sup^t & Eng^r Chingleput
No 4235 of 22 January 1876.

Reports on the Nullah
Lank.

The Chief Engineer for Disruption

To the Secretary to Government
P. W. D.

Dated 26.
Dispt 29. } January 1876.

Enclosures 4

Note on the Estimate
of Rs 1250 for a sand
Sluice to Therkur Dyke
Channel in the limits
of Yesanakorai - Trichinopoly Dist.

No. 5th Feb 76 B. No 78

No. 5th Feb 76 B. No 76

FORMER CASES.

Current No. of 187 .

"
"
"
"

M. WORKS FORM No. 3.

Current No. 853

From

*The Supp. Aug.
Chingapat.*

No. 4235

Dated 22 Jan'y

Recd. 3 Feb.

1876.

Subject:—

*Report on the
Hullon Land Co.*

LATER CASES.

Current No. of 187 .

"
"
"

ENCLOSURES.

From

to

"
"

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"

Op. No 321. 5-2-76

Orders and Proceedings in file.

Depart- ment.	No.	Date.	ENDORSEMENTS.		
			Depart- ment.	No.	Dated.
<i>W.D.</i>	<i>2903</i>	<i>11 Oct. / 75</i>			

629

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78

Op 3-2-76

FORMER CASES.

Current No. of 187 .
 " " " " " "

M. WORKS FORM No. 3.

Current No. 784

From Ch: Eng^r for Eng^r:-

No. 105
 Dated 26th Jan^y. 1876.
 Recd. 31st

Subject:- Note on Estimate for Sand Sluice to Sherku Jor Channel in the limits of Ysana Korai - Trichinopoly Dist.

ENCLOSURES. 2

From to
 " " " "

GO No 320 S. 2. 76
 Orders and Proceedings in file.

Depart- ment.	No.	Date.	ENDORSEMENTS.		
			Depart- ment.	No.	Dated.

LATER CASES.

Current No. of 187 .
 " " " " " "

No 76

No 320

C. D. Dept.

Proceedings of the Madras Government
 5 Feb 76.
 Read the following

From
 The Chief Eng^r for Eng^r (H. 2 No 105 of 26 Jan 1876)

The estimate of Rs. 2350 for constructing a surplus sluice in the North Coleroon Bank in the limits of Ysana Korai, Trichinopoly District, is sanctioned. Rs 625 have been contributed from the local cess fund and the remainder will be charged to Agricultural, Miscellaneous, New works and will be provided for from the District grant for Minor new works.

2. The District Engineer will take care that the alterations of the design printed out by

4/15/76

by the Chief Engineer for irrigation
to be necessary are duly attended
to. The sanction accorded in para
I has been registered in 281
as No. 1 of 1875-76.
MM

D. E. Friley - 5-
Collection - 5-
Chib for I with 5-
Emb - 5-
Res. Dept. 15-
Total 16-2-76

784
Govt. of 1876 Madras.

PUBLIC WORKS.

To J. E. Srichinofsky

Dated

Issued

Recd.

Encl.

G. O., 5th July, 1876, No. 320

Nos. 76-77

Shankarum Channel
in the limits of Uddam
Korai Srichinofsky
The estimate of Rs 2350
for constructing a canal
to the ———— Cautioned
with remarks.