

(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. 807

Press
Mis

443-44
Dated 17-3-1877

Not to be folded or roughly handled

*Proceedings of the Madras C
17th*

No. 443. Read the following letter
sion, to the Chief Engineer f
—No. 4,912:—

With reference to your memoranda

- 1 Letter from Executive Engineer.
- 2 Plans.
- 1 Estimate.
- 1 Specification.

2. A general plan showing the prop
to the land under the tank is also forward
reports on the project.

From Captain A. DeC. SCOTT, R.E., Executive Engineer of the Madras Water Works, to the
Superintending Engineer, 4th Division, dated Red Hills, 1st March 1871, No. 60.

I HAVE the honour to submit, for approval, a design and estimate for an irrigation sluice to
be built in the Soorapadoo valley embankment to the Red Hill Lake, in accordance with
the instructions of the Chief Engineer for Irriga-
tion in his memorandum, No. 38, dated 19th
February 1870, addressed to you.

- 1 Specification.
- 1 Estimate.
- 1 Plan.

2. A general plan is forwarded, showing the proposed position of the sluice in reference to
the land under the tank. It will admit the water of the Red Hill Reservoir to the nunjah lands
of the villages lying between it and the Cooum river, and will probably enable a supply to be thrown
into the Madavaram and other tanks, which are reported to be but rarely filled though their bunds
are in good condition. The latter mode of utilizing the supply derived from the Cortiliar river
will probably be found useful in the event of its being considered necessary to limit for a few more
seasons, the rise of water in the enlarged reservoirs of these works to a level below that originally
intended in order to give the embankments time to solidify thoroughly.

3. No special provision was made in the general estimate for this work, but it is to be observed
that the additional expenditure will be but small as the whole of the granite stone required for the
casing of the tunnel is either a surplus quantity of that provided for other works, or has been
found in old sluices demolished. The actual amount disbursed in excess of that already expended
does not exceed Rupees 4,963.

4. It is proposed to charge the outlay de
25,000 inserted in the estimate to cover the cost

against this work to the item of Rupees
distributory works.

No. 444. ORDER THEREON, 17th

IRRIGATION, No. 34.

of the Red Hills Tank, and the debit of the charge to the sum of Rupees 25,000
provided in the estimate of the Madras Water Supply Project for distribution works.
It is observed that this sluice will greatly facilitate the supply of water from the

*ment, Public Works Department,
1871.*

he Superintending Engineer, 4th Divi-
zation, dated Madras, 6th March 1871,

No. 38, dated 19th February 1870,
have the honour to submit for approval
plan, estimate, and specification report,
an irrigation sluice to be built in the
Soorapadoo valley embankment to the
Red Hill Lake.

ed position of the sluice in reference
together with Captain Scott's original

arch 1871, No. 807.

THE Government sanction the esti-
mate of Rupees 5,463 for the construc-
tion of a sluice in the Soorapadoo bund
and the charge to the sum of Rupees 25,000
for the supply of water from the

Proceedings of the Madras Govern-
ment, 17th May 1871.

reservoir to several small tanks, and to
the Red Hills Lake. The minor work
Municipal canal and the railway as also
and estimated for at an early date.
and completed as soon as possible.

(True tract.)

Public Works Department
1871.

large tract of country to the south-east of
required for passing the supply across the
distribution channels should be designed
sluice should be commenced at once,

Colonel, R.E.,
Secretary to Government.

To the Superintending Engineer, 4th Division.
„ Controller of Public Works Accounts.
„ Chief Engineer for Irrigation.

Exd. F. R. Dantleman.

Memorandum.

Applied 3-5-71

VS

Requested for reference the undermentioned papers

Specification report & plan, under G.O.
No. 807-17, dated 11/11/71.

OFFICE OF THE CHIEF

ENGR. FOR IRRIGATION,

P.W. Department.

To 3/11/71

To

The Registrar of the

J. W. Hawkins
Head Clerk.

P. W. Department

Madras State Works Office
Red Hills 1st March 1871

No 60.
From

Captain R. S. Scott R.E.
Executive Engineer M.D.D.

To

The Superintending Engineer
4 Division.

Sir,

I have the honor to submit for approval a design and estimate for an irrigation sluice to which be built in the Sorrapudoor Valley Embankment, to the Red Hill Lake in accordance with the instructions of the Chief Engineer Irrigation in his Memo No 38 dated 19th February 1870 addressed to you.

2 A general plan is forwarded showing the proposed position of the sluice in reference to the land under the Tank.

It will admit the water of the Red Hill Reservoir to the Nungah lands of the Villages lying between it and the Korum River and will probably enable a supply to be thrown into the Madavarani and other Tanks which are reported to be but rarely filled though their lands are in good condition. The latter mode of utilizing the supply derived from the Cortilius River will probably be found useful in the event of its being considered necessary to limit for a few more seasons, the rise of water in the enlarged Reservoirs of these works to a level below that originally intended in order to give

Give the embankments time to solidify
thoroughly

No special provision was
made in the General Estimate for this work
but it is to be observed that the additional
expenditure will be but small as the whole
of the granite stone required for the casing
of the Tunnel is either a surplus quantity not
of that provided for other works or has been found
in old sluices demolished - The actual amount
to be disbursed in excess of that already expended
does not exceed Rs 4963-

It is proposed to charge the
outlay debitable against this work to the item
of Rs 25,000 inserted in the Estimate to cover
the cost of the distributory works.

I have the honor to be
Sir
Your most obedient servant
Adel Scott
(attn Mr. B.)
Executive Eng. M. S. D. D.

Sup. Engr. Office S. D. J.
Madras 6th March 1871

N^o. 4912

From,

Colonel L. V. Wilkinson R. E.
Superintending Engineer S. D. J.

To,

Major John Mullins R. E.
Chief Engineer for Irrigation

Sir,

With reference to your Memo N^o. 38
dated 19th February 1870, I have the honor
to submit for approval, a plan, estimate, and
specification report for an Irrigation
Sluice to be built in the Soorapadoo valley
embankment to the Red Hill Lake.

A general plan showing the pro-
posed position of the Sluice in reference
to the land under the tank is also for-
warded together with Captain Scott's
original reports on the Project.

I have the honor to be
Sir

Your most obedient Servant

Norman Collett
Sup. Engr. S. D. J.

Enclosure
1 Letter from Engr.
Engineer
2 Plans
1 Estimate
1 Specification

Thru
the Executive Engineer
Madras District
to
the Superintending
Engineer
Division

Dated 19th March 1871

Enclosure three.

Submits for approval a
plan and estimate for
an Irrigation Sluice to be
built in the Soorapadoo
valley embankment to the
Red Hill Lake.

Particulars of Work

Concrete work									
The Wings including Flooring	1	14 $\frac{1}{4}$	14 $\frac{1}{4}$	18 $\frac{1}{2}$	3	✓	790 $\frac{3}{8}$		
Returns of Wings	2	15 $\frac{3}{4}$	31 $\frac{1}{2}$	6	3	✓	547		
Head of Sluice	1	14	14	23 $\frac{1}{2}$	3	✓	987		
Summit	1	44	44	13	3	✓	1,716		
Cistern	1	18	18	17 $\frac{3}{4}$	1 $\frac{1}{2}$	✓	479 $\frac{1}{4}$		
Rear wall of Cistern	2	2 $\frac{1}{2}$	5	6	3	✓	90		
Wings to " do "	2	12 $\frac{1}{4}$	24 $\frac{1}{2}$	6	1 $\frac{1}{2}$	✓	220 $\frac{1}{2}$		
Over the crown of Arch	1	47	47	13	$\frac{1}{2}$	✓	305 $\frac{1}{2}$		
Bottom of Steps	1	10	10	5	$\frac{3}{4}$	✓	37 $\frac{1}{2}$		
Total Cub ^{ft} for							5,193 $\frac{5}{8}$		
Cubic Yds.							192 $\frac{3}{8}$		

Lateral Masonry in Chumam							
As Foundation Wings including Flooring	1	13 $\frac{1}{4}$	23 $\frac{1}{4}$	16 $\frac{3}{4}$	2	443 $\frac{3}{8}$	
Returns of do.	2	15 $\frac{1}{2}$	31	4	2	248	
Head of sluice	1	13 $\frac{1}{2}$	13 $\frac{1}{2}$	21 $\frac{1}{2}$	2	580 $\frac{1}{2}$	
Gumel	1	45	45	11	2	990	
Cistern	1	17	17	8	2	272	
Pictures of do.	2	11 $\frac{1}{4}$	22 $\frac{1}{2}$	4	2	180	
As Superstructure Wings 1 st portion	2	5	10	6 $\frac{1}{2}$	2.2	1,430	
do 2 ^d portion to 1 st offset	2	5	10	5 $\frac{1}{6}$	3 $\frac{11}{12}$	202 $\frac{13}{36}$	
do 2 ^d do	2	5	10	4 $\frac{5}{8}$	3 $\frac{1}{12}$	142 $\frac{29}{48}$	
do 3 ^d do	2	5	10	3 $\frac{2}{3}$	3 $\frac{1}{12}$	113 $\frac{1}{10}$	
do 4 th do	2	5 $\frac{1}{8}$	10 $\frac{1}{4}$	3	3 $\frac{1}{12}$	94 $\frac{13}{16}$	
do 5 th do	2	3 $\frac{3}{8}$	6 $\frac{3}{4}$	2 $\frac{1}{12}$	3 $\frac{1}{12}$	43 $\frac{1}{2}$	
Wings 2 ^d portion to 1 st offset	2	4 $\frac{7}{8}$	9 $\frac{3}{4}$	4 $\frac{1}{4}$	3 $\frac{11}{12}$	162 $\frac{1}{4}$	
do 2 ^d do	2	5 $\frac{1}{8}$	10 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{1}{12}$	111	
Carried forward						5,013 $\frac{7}{16}$	

Nov 1871
 From Wm. H. Wood
 The Superintendent
 L. S.
 To the Chief Engineer
 for Organization
 Date Oct 6
 And J. Marshall
 Recd 9-8
 Call 4.
 Nov 4912
 Rem 2

Submitting for
approval a plan for
a free lion and an
estimate for an engine -
from Oliver & Co built
in the Docta-Prado Valley
embankment - to the
Rockhill station together
with a report from
Capt. McCall and
a special plan
J. 807-13 March 1893

Particulars of work

Dimensions
No Length
End Solid
Depth
Cubical

Brought forward

Wings 2 nd position to 3 rd offset	2	5	10	2 1/2	3 1/2	87 3/4
4 th do	2	3 3/4	6 3/4	2 1/2	3 1/2	49 1/2
Returns of wing wall	2	19 1/2	39	2 1/2	9 1/2	726 1/4
Head of sluice	1	7 1/2	7 1/2	5	22	825
Tunnel	2	43 1/4	86 1/2	3 1/2	11	1,211
Cistern	1	29	29	2 1/2	8 1/2	616 1/4
Returns of do	2	15 1/2	31	2 1/2	8 1/2	658 3/4
Rear wall of cistern	1	15	15	2	8 1/2	235
Wall over wings 1 st position	2	5	10	2 1/4	3	67 1/2
do. and Head and sides of steps	2	5 1/4	10 1/2	2 1/4	3	70 3/8
Steps	1	9 1/2	9 1/2	10	1	95
Parapet over side walls of steps	2	6	12	1 1/2	2 1/2	45
Total Cubical of Latite in Chunnam						7,914 7/16

Product for granite work

In Flooring	1	60	60	4 1/2	1	270
do. Cistern	1	17	17	9 1/3	1	158 2/3
Facing in wings	2	4 1/2	9	5	1	45
In Head of sluice groover stones	20	2	40	2	1	80
1/2 nd Stone	1	5	5	3	3	45
do.	1	5	5	1	1	5
Under 1/2 nd Stone lower arch and part of high arch	2	7	14	1	1	56
In Tunnel Facing granite	2	45 1/2	91	3 1/4	4	273
Ends of Bund stones to side walls	80	3 1/4	60	3 1/4	1	45
In Cistern Facing granite	2	6 1/4	12 1/2	2 1/4	4	37 1/2
Total Cubical of granite work						1,015 1/2
Total Latite in Chunnam						8,929 1/2
Product for openings in Tunnel front	1	4 1/4	4 1/4	3	7	89 1/4
do. rear	1	3	3	2 1/4	4	27
do. any circular portion	1					
Total deductions						55 1/2

65

Particulars of work

No Length
End Solid
Depth
Cubical

Grand Total Cubical of Latite masonry or
Cubical Yds. 8,727 1/4
323 1/4

Latite Flooring to Pavement bed dry	1	8	8	8	2	128
On front of Cistern	1	28	28	8	2	448
On bottom of channel between Wings						576
Total Cubical or						21 1/3
Cubical Yds.						

Arch work brick in Chunnam	1	5	5	3	3	45
Low arch	1	47	47	8 3/4	2 1/2	1,028 5/8
High arch in Tunnel						1,073 5/8
Total arch brick in Chunnam Cubical or						39 5/8
Cubical Yds.						

Granite in Chunnam	1	60	60	5	1	300
In Flooring	1	17	17	9 1/3	1	158 2/3
do. Cistern	2	4 1/2	9	5	1	45
Facing to wing walls	2	58 1/2	117	4	3/4	351
Inside of Tunnel 1/2 nd Sluice Cistern	80	3 1/4	60	3 1/4	1	45
Ends of Bund stones to side walls of do.	10	2	20	2	1	40
Groover stones	6	2	12	2	1	24
do. do.	4	2	8	1	1	8
do. do.	1	5	5	3	3	45
1/2 nd Stone	1	5	5	1	1	5
do. do.						
Total Cubical of granite in Chunnam						1,021 1/3

Painting Latite work	2	5	10		22	220
Painting wings 1 st position	2	13	26		12	312
do. outside	2	18 1/2	37		9 1/2	351 1/2
Returns to wings	1	3	3		10	54
1/2 nd of Sluice between Wings	2	10 3/4	21 3/4	2 1/2	2 1/4	59 3/8
Faces of Wings above and position	2	70	140		4	560
Granite work in Tunnel 1/2 nd Sluice Cistern	2					1556 5/8
Carried forward						

Particulars of work

Particulars of work	Demands		Depth	Culift
	No.	Length - Each Total	Breadth	
Brought forward		31		1556 $\frac{5}{8}$
Pointing above granite work in Cistern	2	17' 34"		4 $\frac{1}{2}$ 153
It flooring granite work	1	60 60		3' 180
de. Cistern	1	16' 16'		7 $\frac{5}{8}$ 117 $\frac{1}{8}$
de. between wings	3	10 $\frac{1}{4}$ 10 $\frac{1}{4}$		10 $\frac{3}{4}$ 110 $\frac{3}{8}$
Returns of Cistern outside	2	17 $\frac{1}{4}$ 34 $\frac{1}{2}$		8 $\frac{1}{2}$ 293 $\frac{1}{4}$
Steps over H. of sluice	1	8 8		5 $\frac{1}{2}$ 44
Sides of de.	2	22 44		3 132
Parapet over side walls of steps	2	13 $\frac{1}{2}$ 27		7 $\frac{1}{2}$ 202 $\frac{1}{2}$
de. to Cistern and rear walls of de.	1	43 43		4 $\frac{1}{2}$ 193 $\frac{1}{2}$
Total pointing laterite & floor				2,982 $\frac{17}{10}$
de. Aquines				29 $\frac{9}{10}$
Plastering				
Entrados of Arch	1	47 47		4 $\frac{3}{4}$ 223 $\frac{1}{4}$ or
Aquines				2 $\frac{1}{4}$
Woodwork				
Rafters	1	6 $\frac{1}{2}$ 6 $\frac{1}{2}$	1 1	6 $\frac{1}{2}$
Lifting Bars fitting the shutter	1	16 $\frac{1}{2}$ 16 $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	4 $\frac{1}{8}$
Total Culift				10 $\frac{5}{8}$
Over Iron Shutter & Lifting gear Complete				1

Quantity

Description of Work

Rate				Rate		
Rs.	As.	Ps.	Pir	Rs.	As.	Ps.

3966 $\frac{1}{2}$ 69 $\frac{1}{2}$	Excavation & filling in	2	3	69 $\frac{1}{2}$	557	12	8
192 $\frac{3}{8}$ de.	Concrete	2	12	de.	529	0	6
323 $\frac{1}{4}$ de.	Laterite masonry in chumam	5	8	de.	1777	14	0
21 $\frac{1}{3}$ de.	Aprons & Revetment laid dry	3	8	de.	74	10	8
39 $\frac{5}{8}$ de.	Arch work brick in chumam	6		de.	237	12	0
1021 $\frac{1}{2}$ 69 $\frac{1}{2}$	Granite in chumam	1	12	de.	1787	14	8
29 $\frac{1}{2}$ 59 $\frac{1}{2}$	Pointing laterite masonry	1	8	de.	45		
2 $\frac{1}{4}$ de.	Plastering	2	12	de.	6	3	0
105 $\frac{1}{2}$ 69 $\frac{1}{2}$	Shak wood wrought & put up Complete	2	8	de.	26	14	0
1	Iron Shutter & Lifting gear de.	160		de.	160		
	Vundries at 5 percent				260	2	6
	Total Estimated Rs.				5463		

Madras Water Works Office
Red Hills 1st Decr 1891

Ans. Lett.
Captain R. E.
Executive Engineer M. W. W.

Wm. Wilson Colonel R. E.
Supt. Engrs. M. W. W.

the supply of water from
the reservoir to several
small tanks, and to a
large tract of country
to the South East of the
Red Hills Lake. The
minor works required
for passing the supply
across the Municipal
Canal and the Railway,
as also the distribution
channels should be
designed and estimated
for at an early date. The
sluice should be commenced
at once and completed as
soon as possible.

Per. 9/3/71

30
4
To Mr. D. I. ✓
Contd. ✓
Chief Engineer ✓
Desd 18/3/71

1875
Jan 11 1875 Madras.

PUBLIC WORKS.

To Superintending Engineer
4th Division

Date

D

Jan 5

No. 17 March. No. 807

Nos. 11/12/14

Since the estimate of Rs 5463
for the construction of a sluice in
the Somapadu bund of the Red
Hill tank, & the debit of the
charge to the sum of Rs 25000
provided in the estimate for
the Madras Water Supply
Project for distribution
works, sanctioned, with
remarks