

(1) Number of pages _____

(2) Date of repair _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No.	586	Press
514-515		Mis.
Dated	21-2-	1873.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
21st February 1873*

Read the following papers.—

No. 514. Endorsement of the Chief Engineer for Irrigation, dated Fort St George, 22nd January 1873, No. 76.

From the Acting Manager of the Madras Irrigation and Canal Company, to the Chief Engineer for Irrigation and Joint Secretary to Government, dated Madras, 16th January 1873, No. 8.

I HAVE the honour to forward extract from the Chief Engineer's letter No 698 of the 20th December 1872, together with the under-mentioned estimates of repairs for season 1873 for the upper section amounting to Rupees 34,000, and to solicit sanction for the same

1 Estimate cost of maintenance of Main Canal for season 1873	
1 Abstract	do do

From the Chief Engineer, to the Acting Manager of the Madras Irrigation and Canal Company, dated Kurnool, 20th December 1872, No 698.

Upper Sections—Maintenance.

I HAVE the honour to ask you to submit to Government the accompanying estimates and to ask for sanction for Rupees 34,000 to cover the repairs and improvements rendered necessary by the last season's wear and tear of the canal, part of which required and received emergent repair, and part remain to be made good, also for the modified conservancy staff amounting to Rupees 3,285 per mensem

2 It has been my object to keep the cost of repairs as low as possible consistent with thorough efficiency and considering the small demand hitherto made for water.

3 The small sum asked for metalling bridges, as also for shingling slips and other jobs requiring stone or gravel to be carted, may, I think, be best met, in future, by allowing a sum for the hire of a cart, whenever wanted, in the range under each Engineer. It is decidedly wasteful to employ the bankers in carrying materials, and it would absorb much of their time which is required for other work.

4 After allowing one banker each for watching the locks and chief buildings, and one man in eight miles for carrying messages, we get out of the 141 bankers about 115 available for general work. At the same time these are not perfectly free, since the banks, even if sound enough to be passed for service, cannot be left quite unprotected. I estimate that in six months, work worth Rupees 4,200 may be got out of the bankers, and this has enabled me to keep the estimates lower.

5 The only repair of magnitude is the facing of an additional length of puddle core wall with masonry in the 29th mile. The outer faces of these walls of dry rubble bulge and twist owing to settlement and movement of the core, and look very threatening. The leakage through the subsoil is also more persistent than in the case of other walls and banks. I, therefore, recommend that they be gradually faced with masonry, and the rear face of rubble can then be taken down.

6 The staff shows an apparent increase of Rupees 191 a month, due to Rupees 150 increase of Mr Crawford's salary, Rupees 30 for carts (which will be hired by the day as wanted), Rupees 15 proposed increase in the surveyor's equipment to enable him to keep a bandy, Rupees 14 for two cash peons to carry cash for paying bankers and for transmission generally, and an addition for a tindal and two sluice-keepers for Kambalapully regulating sluices, Rupees 15 for another writer, and Rupees 10 increase to the surveyor's salary. The saving is due to the disuse of the telegraph line except between Soonkasala, Kurnool, and Jupaud.

*Proceedings of the Madras Government, Public Works Department,
21st February 1873.*

7 In reality there will be a saving owing to the departure of the Engineers for England. Mr Wilks has had furlough due to him for more than two years, and has left for England. Mr Crawford also has had furlough due for just over two years, and has given me notice that (owing to private affairs and bad health) he must resign, if not allowed to leave the country for England, before the hot weather. It was expected that Mr Browning would have returned ere this to take charge of the upper section, but the last mail brings the news that he has resigned. I am hoping to supply the places of these Engineers imperfectly by the substitution of a junior Engineer and two surveyors engaged in this country at a total cost of about half their salary.

8. The Dressers are wanted almost solely for the conservancy staff, and I propose to charge them accordingly, instead of as hitherto, to construction. But, if it be preferred, they can be included in "General Management," and divided between Capital and Revenue proportionately to the expenditure on each head.

9 In conclusion, I beg respectfully to urge that an early sanction is very desirable, in order that work may be carried on at once when the flow of water is stopped. The more so since delay must occur during the season owing to the inadequacy of the staff.

List of Conservancy Staff for Upper Sections.

Office	SANCTIONED				PRESENT				PROPOSED				
	No	Salary	Allowance	Total	No	Salary	Allowance	Total	No	Salary	Allowance	Total	
Engineers	2	1,000	270	1,270	2	1,200	270	1,470	2	1,200	270	1,470	Substitutes to be allowed for these Engineers, or for all staff of surveyors
Staff of Charan to do	8	56		56	8	56		56	8	56		56	
Overseers	5	300	100	400	14	200	90	290	5	300	100	400	
B. Kera	141	840		840	110	840		840	141	840		840	To be hired as needed for each job. On, material, joint, etc.
Indians at Sluices	3	30		30	2	30		30	3	30		30	
Working Sluicemen	6	30		30	6	30		30	6	30		30	
Surveyor of Irrigation	1	90	25	115	1	90	25	115	1	100	40	140	To be hired as needed for each job. On, material, joint, etc.
Staff of Charan for do	3	21		21	3	21		21	3	21		21	
Accountant and Clerks	2	80		80	2	80		80	2	100		100	
Cash Pons to travel										14		14	To be hired as needed for each job. On, material, joint, etc.
Surveyors	5	130		130	4	75		75	2	60		60	
Dressers										30		30	
Carts													To be hired as needed for each job. On, material, joint, etc.
Contingencies of works				50				50				50	
Total	173	2,610	305	2,915	182	2,702	385	3,087	173	2,825	410	3,235	

KEROOL,
20th December 1872

(Signed) C A BATHAM,
Acting Manager.

(..) J H LATHAM,
Chief Engineer.

SUBMITTED to Government with reference to G O No. 59, dated 8th January 1873.

(Signed) C J SMITH, Captain, R E,
For Chief Engineer for Irrigation

*Proceedings of the Madras Government, Public Works Department,
21st February 1873*

No 515 Endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 28th January 1873, No. 78.

From the Acting Manager of the Madras Irrigation and Canal Company, to the Chief Engineer for Irrigation and Joint Secretary to Government, dated Madras, 24th January 1873, No. 14

At the request of the Chief Engineer, I have the honour to hand you, for submission to the Government, a proposal for a slight modification of the conservancy staff of the upper section.

2. The Chief Engineer's letter No 698 of 20th December 1872, a copy of which accompanies this, fully explains the nature and reason of the small apparent increase asked for, but there are one or two points upon which a further word of explanation may save some trouble.

3 As regards the Rupees 50 per mensem set down for contingencies of works, I explained per my No 282 of 25th November 1872, that the monthly expenditure under this head is variable, the Rupees 50 in some months being insufficient to cover the expenditure, and I requested the favour of an annual instead of a monthly sanction, which was conceded per G O No. 25 of 6th January 1873. As a similar state of things may be anticipated for the future, I would suggest that the sanction for contingencies of works in this case be Rupees 600 per annum as before.

4. The proposal contained in the Chief Engineer's paragraph 8 to debit the entire cost of Dressers to Revenue is, I think, hardly tenable, seeing that the construction staff has its share in the benefit of the services of the Dressers. The Chief Engineer's alternative proposal that the Dressers' salaries shall be charged to General Management and divided in fair proportion between construction and maintenance is, I submit, the correct course, and it is the one which is now and has all along been pursued.

5 In the Chief Engineer's comparative statement the expenditure is put down as Rupees 3,137 against a sanction of Rupees 3,094, which, so far as the upper section is concerned, is the fact, and I must explain that in comparing the expenditure with sanction the expenditure and sanction, as a whole, (that is for both sections) are dealt with both by the Government Examiner and ourselves, and that the aggregate expenditure, as compared with the aggregate sanction, exhibits a saving, owing to the circumstance of the expenditure in the lower section being considerably within the sanction.

6. You will observe that the Chief Engineer's accompanying letter bears date the 20th December 1872, and the apparent delay in submitting it requires some explanation. A proposal for modification of staff and a letter, together with the estimate for repairs sent to you with my No 8, were forwarded to me by the Chief Engineer on the above date, but the proposal for staff I found it necessary to return for revision. This morning I have received an amended statement of staff required and a (necessarily) revised copy of the letter (which latter is made to bear the date of the original letter), and I lose no time in placing them in your hands.

Proceedings of the Madras Government, Public Works Department.
21st February 1873.

SUBMITTED to Government.

As early sanction is applied for, the estimates of the upper section are forwarded to Government unaccompanied by the estimates of the lower section. The Acting Manager has been requested to expedite the despatch of the latter.

2. The modification of the Conservancy staff proposed by the Chief Engineer is recommended for sanction.

(Signed) C. J. SMITH, Captain, R.E.,
For Chief Engineer for Irrigation

No. 516

ORDER THREEON, 21st February 1873, No. 586.

IRRIGATION, No. 23.

The estimate of Rupees 34,000 for the maintenance of the upper section of the Main Canal, including subsidiary channels, and the modified conservancy staff amounting to Rupees 3,285 per mensem, are sanctioned.

(True Extract)

Colonel, R.E.,

Secretary to Government

To the Chief Engineer for Irrigation

.. Agent and Manager of the Madras Irrigation and Canal Company.

Ed E C. Shunkler.

Madras 24 January 1873.
From the Acting Manager
The Chief Engineer for Irrigation
and Joint Secy to Government
For Chief Engineer for Irrigation
At the request of the Chief Engineer the
Honble to hand the for submission to the Govt.
a proposal for a slight modification of
the Conservancy staff of the upper section.
The Chief Engineer's letter of 20th Dec 1872
a copy of which accompanies this, fully explains the
nature and reason for the small apparent increase
asked for but this is one of two points upon which
a further word of explanation may be said to be
needed. As regards the Rs 50 per mensem set down
for contingencies of works I explained per my No 282
of 28th Dec 1872 that the monthly expenditure
under this head is variable, the Rs 50 in some months
being insufficient to cover the expenditure, and I
requested the sanction of an annual instead of a monthly
sanction, which was conceded per L.O. No 2519
of 24 January 1873. As a similar state of things may
be anticipated for the future I would suggest
that the sanction for contingencies should be in
this case to Rs 600 per annum as before.
The proposal contained in the Chief Engineer's
letter is to debit the entire cost of dressing & repairing
is

as I think hardly tenable seeing that the Construction
 Staff has its share in the largest of the services of the
 Division. The Chief Engineer's alternative proposals
 that the Dressing salaries shall be changed to General
 Management and divided in fair proportion
 between Construction and Maintenance as I submit
 the correct course and it is the one which is now
 and has always been pursued.
 As to the Chief Engineer's Comparative Statement
 the expenditure is put down as Rs 3,137 against a
 sanction of Rs 3,094 which is far as the upper lim-
 itation is concerned, is the fact and I must explain
 that in composing the expenditure with sanction
 the expenditure and sanction as a whole, that
 the various sections are dealt with by the
 the various expenditure, and enclosed and that
 the aggregate expenditure, as compared with
 the aggregate sanction, exhibits a saving owing
 to the circumstance of the expenditure in the
 Lower Section being considerably within the sanction.
 You will observe that the Chief Engineer's
 accompanying letter bears date the 20th Dec 1892
 and the apparent delay in submitting it requires
 some explanation. I proposed for modification
 of Staff and a letter together with the estimate
 for repairs sent to you will be forwarded to me
 by the Chief Engineer on the
 above date but the proposal as it stands
 necessary to return for revision. The accompanying
 I have received an amended statement of Staff
 required and a necessarily revised copy of the
 letter which letter is made to bear the date of

the original letter and I lose no time in placing them
 in your hands -

I have the honour to be
 Sir,
 Your Most Obedient Servant.
[Signature]
 Acting Manager

APG

Marras In: Lanes Co.
Marras 15 January 1873

No 8

From,

The Acting Manager
M.D. & Co.

To,

The Chief Engineer for Irrigation
and Sout Secretary to Government
Fort St. George.

I have the honor to forward Extract from the
Chief Engineer's letter no 698 of the 20 December 1872
together with the undiminished Estimates of
Repairs for season 1873 for the upper section
amounting to Rupees 34,000 and to solicit
sanction for the same.

Estimate Cost of Maintenance of Main Canal for
Season 1873

Abstract

I have the honor to be
Sir,
your most ob. servant.

[Signature]

Acting Manager.

In
1075

Recd - 18 Dec 50
From
The Ag. Manager
to
The Chief-Engr.
for Irrigation
p. 1-1

18 Dec 24
1873

C.D. M. 64545.
to 2 Recd

Forwarding copy of
Chief Engr's letter for a
confirmation of the
disbursement of
of the Upper Section
for Irrigation.

to the Chief-Engr.
for Irrigation.

Extract

It has been my object to keep the cost of repairs as low as possible consistent with thorough efficiency and considering the small demand hitherto made for water.

After allowing one banker each for watching the locks, and chief buildings, and one man in 8 miles for carrying messages we get out of the 141 bankers about 125 available for general work. At the same time these are not perfectly free; since the banks can if sound enough to be passed

No 8
Time

To Sir John Lubbock
The City Prisoner
Mr J. Lubbock

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The Chief Justice
in conference

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The Chief Clerk

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passed for service cannot be left quite unprotected.
 I estimate that in 12 months, with proper repairs
 might get out of the hands of the contractor
 me to keep the estimates lower.

The only repair of magnitude is the facing of
 additional length of the core wall with masonry.
 in the repairs. The outer face of the wall is in
 rubble, bulge and thrust owing to settlement and
 movement of the core and looks very threatening.
 The leakage through the defect is also very
 serious. In the case of the walls and butt
 I therefore recommend that they be gradually
 faced with masonry and the rear face of
 rubble can then be taken down.

11/9/73
 645/75

[Faint, mostly illegible handwritten notes at the bottom of the left page.]

Madras District Office
 Chief Engineer's Office
 No. 20, December 1872
 To the Hon. Secy. to Govt.
 Madras
 Sir,
 I have the honor to acknowledge the receipt of your letter of the 11th inst. regarding the repairs to the bridge over the river at the place mentioned above.

I have the honor to acknowledge the receipt of your letter of the 11th inst. regarding the repairs to the bridge over the river at the place mentioned above. I have the honor to acknowledge the receipt of your letter of the 11th inst. regarding the repairs to the bridge over the river at the place mentioned above. I have the honor to acknowledge the receipt of your letter of the 11th inst. regarding the repairs to the bridge over the river at the place mentioned above.

4.0) ... allowing one banker each for watching
the Cash, and Chief buildings, and one ...
... for carrying messages we get out of the
141 bankers about 116 available for general work.
At this season some of them are not perfectly fit, since
the Bankers have been so much engaged to be passed for
service, reduced to left quite unprotected. I estimate
that in 6 months, more work Dec. 200 may
be got out of the bankers; and this has enabled
me to keep the estimates lower.

5.1) ... The only report of magnitude is the finding
of an additional length of ... and ...
... on the 24th inst. The ... of the
... of my ... but also ...
... and ... of the ... and ...
... threatening. With leakage through the ...
... persistent than in the case of ...
... therefore recommends that
they be gradually faced with ... and
the ... of ... can then be taken over.

6.1) ... The Staff ... an apparent ...
... one to
salary ... 30
by the way, as ... will be ...
... equipment to enable him to keep
a ... to ... to carry each for
paying bankers and ...
and an ... and ...
for ... regularly ...
another ... 10 ...
salary ... is ... of the ...
line ...

7. In reality there will be a saving owing to the
departure of the Engineers for England. Mr. Wells has
had ... one to him for more than 2 years, and has
left for England. Mr. Crawford also has had ...
... one for just over 2 years, and has given me
notice that owing to private affairs and bad health
he must resign if not allowed to leave the country
for England before the hot weather. It was expected
that Mr. Browning would have returned ere
this to take charge of the upper sections: but the
last mail brings the news that he has resigned.
I am hoping to supply the places of these Engineers
imperfectly by the substitution of a junior Engineer,
and 2 Surveyors engaged in the country, at a
total cost of about half their salary.

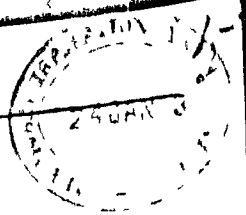
8. The Drivers are wanted almost solely for the
Engineering Staff, and I propose to charge them ac-
cordingly instead of, as hitherto, to Construction.
But if it be preferred, they can be included in
"General Management," and divided between
Capital and Revenue proportionately to the ex-
penditure on each head.

9. In conclusion I beg respectfully to urge that
an early sanction is very desirable, in order that
work may be carried on at once, when the flow
of water is stopped. The more so since delays
must occur during the season owing to the
inadequacy of the Staff

Thameson.
Prof John P. Latham
Chief Engineer

76

(1) Number of pages



Madras Irrigation and Canal Company
List of Conservancy Staff for Upper Sections

Office.	Sanctioned.			Present			Proposed		
	Nº	Salary	allowance	Nº	Salary	allowance	Nº	Salary	allowance
Engineers	2	1050	270	2	1200	270	2	1200	270
Staff of Channmen to do	8	56		8	56		8	56	
Overseers	5	300	100	4	269	90	4	269	90
Bankers	141	846		140	840		140	840	
Undals at Surces	2	30		2	30		2	30	
Regulating Surce men	6	36		6	36		6	36	
Surveyor of Irrigation	1	90	25	1	90	25	1	90	25
Staff of Channmen for d:	3	21		3	21		3	21	
Accountant and Clerks	2	85		2	85		2	85	
Cash Peons to travel									
Signallers	5	135		4	75		4	75	
Gresser									
Carts									
Contingencies of Works			50						
Total	175	2649	395	172	2702	385	172	2702	385

Substitutes to be allowed for these Engineers, or a small staff of Surveyors.

To be hired as needed for each job. Oil, material, journey etc.

John W Latham
Chief Engineer
Acting Manager

Chief Engineer's Office,
Winnod 20th December 1937

W.J.

P. M. 645/75.

1/304/73
PR 645/93
PL 8-5869/21 7/21/93.

Pr 645/93

Pl. h. = 5866/21 July. 1933.

no. 76

Letter No 8 dated 16th January 1873 from the
Acting Manager Madras Irrigation
and Canal Company with an Estimate
amounting to Rs. 34,000 of cost of
Maintenance of the Upper Section of the
Canal for Season 1873.

Submitted to Government with
reference to G.O. No 59 dated 8th Jan
January 1873.

Fort St George -
22^d January 1873

C. Smith Capt. R. E.

In Christ Ever. for I am

To
The Secretary to Government

P. n. Dept.

W.S.

No 78.

Letter No 8 dated 16th January 1873 from the
Acting Manager M. S. and L. Co. with
an estimate amounting to Rs 34,000
of cost of maintenance of the upper
section of the main canal including
distribution works for season 1873.

Letter No 14 dated 24th January 1873 from the
Acting Manager M. S. and L. Co. for-
warding copy of Chief Engineer's letter
proposing a slight modification of the
Contingency Staff of the upper section.

Submitted to Government.

Enclosure 7.

As early sanction is applied for,
the estimates of the upper section are
forwarded to Government unaccom-
panied by the estimates of the Lower
Section. The Acting Manager has been
requested to expedite the despatch of

1308 January 173 2113-114

P. M. 1873
1076. 1873
The Chief Engineer
To the Secy to Govt
P. M. 1873

To the Secy to Govt
P. M. 1873

Estimate 24th January 73.

Enclosure 4.
No 586-21st Feb 1873
Submitted with reference
to No 59 of 21st Jan 73
letter of 8th Jan 73.
Enclosure in 5th Feb 73.
with an estimate amounting
to Rs 34,000 of cost of
maintenance of the
upper section of the
canal for season 1873.

MM

No 674

6546/73

the latter.

2 The modification of the Gen.
Serjeanty Staff proposed by the Chief
Engineer is recommended for sanction.

For: St. George. 2 O. Smiths. Capt. R. E.

28th Jan 7. 1873 2 for Chief Eng. in Sm.

The Secretary to Government.

P. W. Department.

W. N.

98.9 Aug 1878 No 48 p 50

21 of Aug. 1878 in L. 1878
Regent and Thruway - 1

Re: 25/7/78

W. J. M.

men, an action.

including subsidiary channels, and the modified
- Terminus of the Upper Section of the main Canal.
No. 586 the estimate of Rs 34,000 for the main
covering way staff amounting to Rs 3,285 for

W. J. M.

P W 1873 Report

From No. 645.

The change

for freight

to the new way
at 1000 ft

at 70.

Estimated at 25
Rs 30, 100 ft

Rs 70

in built for the
the estimate for
Upper section of the
canal & the main
the further the
covering way staff

Rs 1000

Rs 514.516

Rs 1000

Govt. of 1873 Madras.

PUBLIC WORKS.

70. The Chief Cause for
Immigration

46123

Her 1

E, 15

G 21 Feby 586.

Nos. 514 @ 516

Dec. 11, 1891. The

Estimated cost: 34000 for
the maintenance of the
Upper section of the main canal
including subsidiary chan-
nels and the modified con-
servancy ~~subsidy~~
shaft amounting to Rs. 3285 per annum, sanctioned.