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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	109A	Press
B.P. No.		Mis.
218A		
218B		
Dated	16-1-1874	105

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
16th January 1874.*

No. 218A. Read the following letter from Lieutenant-Colonel W. FAREWELL, Inspecting Engineer for Ports and Communications, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 10th December 1873, No. 417-31 :—

ADVERTING to paragraph 2 of G. O., No. 2,368, dated 25th September last, I have the honour to report that notwithstanding an allotment of Rupees 100 a month was sanctioned in G. O., No. 1,652, dated 25th June last, for the Survey Establishment for the extension of the East Coast Canal north of Nellore, the operations have not as yet been commenced. On the 15th of October the District Engineer reported that he was endeavouring to secure the services of Surveyors, and that he would commence survey operations as soon as he had seen the results of this year's floods in the vicinity of the Suvernamuky and the local drainage on the section now in progress.

2. The District Engineer informs me that he has decided on the plan of survey operations to complete the project; he divides the proposed canal into three parts, viz. :—

	Miles.
I.—From Kistnapatam to Pyderu	31
II.—From Pyderu to Mannairu	35
III.—From Mannairu to backwater near Peda Ganjam, the boundary of Kistna District	36
	105

He estimates Rupees 2,460, as per margin, as the approximate cost of the establishment required for 1874-75, and proposes to employ a survey party on each of the sections named above, and one on special duty, *i.e.*, for surveying the mouths of the Pennaur and other portions requiring more than ordinary detail. I gather from the order sanctioning the establishment for the

G. O., No. 1,652, dated 25th June 1873. present year, that the salary proposed for each Surveyor is Rupees 60 per mensem, six lascars at 6 Rupees each, Rupees 36, and 4 Rupees for sundries; the average number of miles to be surveyed and levelled, including an average, say, of five cross sections, of a mile in length, in each mile, are 630; taking the average fair day's work for a Surveyor to be from two to three miles, according to ground, or at $2\frac{1}{2}$ miles per day, it would require 252 days to complete the work. Although I have urged the District Engineer to utilize as much as possible the allotment available for 1873-74, I fear he will not be able to spend more than Rupees 600, or sufficient to cover the pay and establishment of two Surveyors for three months, one for special work and the other for the canal, who, making every allowance for travelling, etc., etc., actually surveying for twenty days in each month, ought to complete 150 miles, leaving 480 to be surveyed in 1874-75, which would take three Surveyors about three months to accomplish; thus the sum provided for by the District Engineer for Survey Establishment appears sufficient. In regards to the other

*Proceedings of the Madras Government, Public Works Department,
16th January 1874.*

establishment, for two Draughtsmen and two Estimators, I believe it would be better to employ two first class Draughtsmen and Estimators combined, at Rupees 60 each, with copyists or calculators at Rupees 20 each to assist them, and thus for the same sum probably secure a better class of work than could be expected from four men at 30 Rupees each. With these remarks I recommend the amount estimated for 1874-75 for sanction.

3. The District Engineer of the Kistna District reports that the estimates for all works required for the completion of the Commamore channel, which forms the direct line of communication between Bezoarah and the proposed terminus of the Nellore canal in the tidal creek near Peda Ganjam, have already been submitted to the Chief Engineer for Irrigation as part of the Kistna Delta Project; consequently nothing will be required for a Survey Establishment next official year in the Kistna District.

No. 218B.

ORDER THEREON, 16th January 1874, No. 109A.

CIVIL WORKS, No. 12A.

His Excellency the Governor in Council is displeased to learn that hitherto nothing has been done towards utilizing the sum of Rupees 1,200 placed at the disposal of the District Engineer of Nellore by G. O., No. 1,652, of 25th June, for surveying and estimating the extension of the East Coast Canal. And he must insist on active progress being made with the work of investigation during the last quarter of the current, and first quarter of the coming official year, which he understands to be most favourable for the purpose.

2. In submitting his present proposals the Inspecting Engineer appears to have lost sight of the remark made in paragraph 4 of the order above quoted, to the effect that the District Engineer cannot look after a larger establishment than one Surveyor, as the work to be done must be laid down by him in detail. Considering however that former surveys exist from which much assistance should be derivable, and that it is an object to get over all the work within the next six months, the maintenance of two parties will not be objected to, each composed of

One Surveyor,
One Draughtsman and Estimator,
Six Lascars,

costing Rupees 150 a month, in such proportions as the District Engineer shall fix and report.

3. This will amount to Rupees 1,800 for six months, of which Rupees 600 will be payable in 1873-74 and Rupees 1,200 in 1874-75; and the work shall be taken up in the following order,

In January to March the special survey of river mouths, and the first section north of Kistnapatam.

In April to June the two more northerly sections.
And the District Engineer will be required to send up the results of the first

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16th January 1874.*

quarter's work at once without waiting till those of the second quarter's work are also ready to go in.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineer, Nellore,

~~with copy of letter from Inspecting Engineer for Ports and Harbours.~~
" Inspecting Engineer Ports, etc.
" Officiating Controller of Public Works Accounts.

Exd. S. T. Austin.
Spare Copies



No. 417
31

Inspecting Engineer's Office for
Ports & Communications
Chepauk. Madras.
10th December 1873.

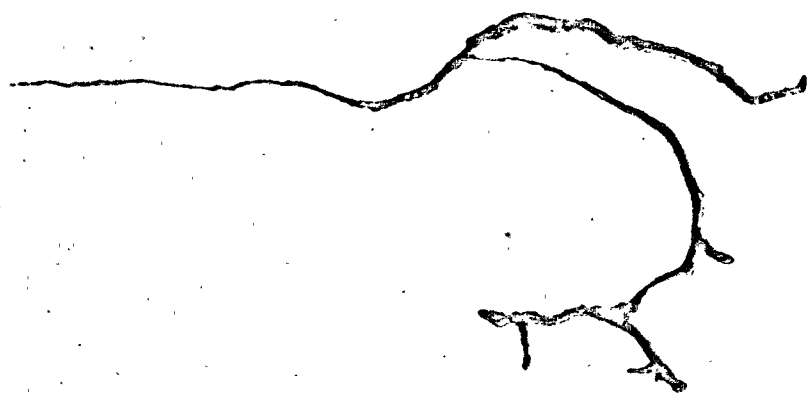
From

The Inspecting Engineer for
Ports & Communications.

To The Chief Engineer and
Secretary to Government.
Public Works Department.

Sir,

Adverting to para 2 of
G. O. No. 2368 dated 25th
September last, I have the
honor to report that not-
withstanding an allotment
of Rs 100, a month, was sanc-
tioned in G. O. No. 1652 dated
25th June last for the Survey
Establishment for the extension
of the East Coast Canal
north of Nellore, the operations
have



have not as yet been commenced. On the 15th of October, the District Engineer reported that he was endeavouring to secure the services of Surveyors and that he would commence survey operations as soon as he had seen the results of this year's floods in the vicinity of the Suvernamukky and the local drainage on the section now in progress.

2. The District Engineer informs me that he has decided on the plan of survey operations to complete the project, He divides the proposed Canal into three parts viz -

I. From Kistnapatnam to
Oydem _____ 34 miles

II From Oydem to
Mannair _____ 35 miles.

III From Mannair to
backwater near
Oda on the boundary
of Krishna District. 36 - - -
105 miles

Rs
+ Survey Establishment 900
2 Draftsmen &
2 Estimators } 1320
for 6 months.
2 Calculators. 240
2460

He estimates Rs. 2460 as per margin, as the approximate cost of the Establishment required for 10 1/4 - 1/5, and proposes to employ a survey party on each of the sections named above, and one on special duty i.e. for surveying the mouths of the Pennar and other portions requiring more than ordinary detail. I gather from the order sanctioning the Establishment for the present year, that the salary proposed for each surveyor

G.O. No 1652
of 25th June/93

Surveyor is Rs 60, per mensem.
6 lascars at 6 Rs. each, Rs 36,
and 4 Rs. for sundries;
the average number of miles
to be surveyed and levelled
including an average say of
5 cross sections, of a mile
in length, in each mile,
are 630; Taking the average
fair day's work for a
surveyor to be from 2 to 3
miles according to ground,
at $2\frac{1}{2}$ miles per day, it would
require 252 days to complete
the work. Although I have
urged the District Engineer
to utilise as much as possible
the allotment available for
1873-74, I fear he will not
be able to spend more than
Rs 600 or sufficient to cover
the pay and establishment of
two surveyors, ^{for 3 months,} one for special work

and the other for the canals;
who, making every allowance
for travelling &c &c, actually
surveying for 20 days in
each month, ought to com-
plete 150 miles, leaving 480
to be surveyed in 1874-75
which would take 3 surveyors
about 3 months to accomplish;
thus the sum provided for
by the District Engineer for
Survey Establishment, appears
sufficient. In regards to
the other establishment, for
2 Draftsmen and 2 Estimators,
I believe it would be better
to employ two first class
Draftsmen and Estimators
combined, at Rs 60 each with
Cofijists or calculators at
Rs 20 each to assist them,
and thus for the same sum
probably

probably secure a better class
of work than could be expected
from four men at 30 Rs each.
With these remarks, I recommend
the amount estimated for 1874-75
for sanction.

3. The District Engineer
of the Kistna District
reports that the estimates
for all works required
for the completion of the
Commonoot Channel which
forms the direct line of
communication between
Bengal and the pro-
posed terminus of the
Kistna Canal in the
tidal creek near Peda Ganjam
have already been submitted
to the Chief Engineer for
Irrigation as part of the
Kistna

Kistna Delta project; consequently
nothing will be required for
a Survey Establishment next
official year in the Kistna
District.

I have the honor to be
Sir,

Yours Most Obedt Servt

W. S. S. S. S. Lieut Col.
Inspecting Engr for
Ports & Comm^{rs}

Public Works Department
 No 109
 Proceedings of the Madras Government
 Read the following

From The Inspecting Engineer
 for Ports and Communications. } H.E. No 417 of 10th Decr/73/
 31

His Excellency the Governor in Council is displeased to learn that hitherto nothing has been done towards utilizing the sum of Rs. 1200 placed at the disposal of the District Engineer of Bellary by G.O. No 1652 of 25th June for surveying and settling the extension of the East Coast Canal. And he must insist on active progress being made with the work of

1873

Sub. No. 109 of 10th Decr/73
 H.E. No 417 of 10th Decr/73

The Inspecting Engineer
 for Ports & Communications
 to the Chief Engineer &
 Secretary to Govt.
 P. W. D.

Dated 10th Decr/73
 Recd. 12th Decr/73

Reports on the
 preliminary survey
 for the extension
 of the East Coast
 Canal from
 Mellore northwards

D: 109 d. 16th Aug/77

No 11828
 G.O. No 1947 of 19th Decr/73

investigation during the last Quarter of the current, and first Quarter of the coming Official Year, which he understands to be most favorable for the purpose.

In submitting his present proposals the Inspecting Engineer appears to have lost sight of the remark made in para 4 of the order above quoted, to the effect that the District Engr. cannot look after a larger establishment than one Surveyor, as the work to be done must be laid down

by him in detail. Considering however that former surveys exist from which much assistance should be derivable, and that it is an object to get over all the work within the next 6 months, the maintenance of 2 parties will not be objected to, each composed of

Does one Surveyor & one Draftsman & Estimator is required for each Surveyor?
What say?

1 Surveyor
1 Draftsman & Estimator
6 Sappers

Costing Rs: 150 a month in such proportions as the D^t Engineer shall fix and report.

This will amount to
Rs. 1800 for six months
of which Rs. 600 will
be payable in 1873/74
and Rs. 1200 in 1874/75.
And the work shall be
taken up in the fol-
lowing order, viz:
in January to March
the Special Survey of
River Mouths, and the
1" section north of
Kistnapatnam.

In April to June
the two more northerly
sections. And the
District Engineer will
be required to send
up the results of the
first quarter's work
at once without

waiting till those of
the second quarter's
work are also ready
to go in. G.M.W.

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To
The D^g Engr. Bellare with copy
of letter from Engr. Engr. for P & H.
" Engr. Engr. for P & H. & Bellare
" Controller of P & H.
Engr. Engr. only to D^g Engr. Bellare 16/1/74
P.C. - to all 24/1/74.

Ch 5710
Govt. of India
PUBLIC WORKS.

to The District Commr
Madras

Dated

Recd.

Encl.

G. O. 16th Aug 1871, No. 10957

No. 21864/1871

East Coast Canal.

Papering orders on letter
from the Inspr Genl for
Ports & Communications,
reporting on the preliminary
survey, &c. for the extension
from the Canal from
Bellore northwards.