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MADRAS RECORD OFFICE.

Government of Madras.

Ritchie & Co. DEPARTMENT.

G.O. No. <u>2131</u>	Press Mis.
Dated <u>2.12.42</u>	18

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th July 1865.*

in fact an important part of the results of the work ordered; in the second case the sites of the pits must be marked out for the coolies, and their depth would be known from the longitudinal section in most cases, because every trial pit should, unless solid rock be met with into which, from the known formation of the country, it is unnecessary to cut, go down to the sole of the canal, in order that the information afforded by it may be reliable for the determination of rates. Similarly, the size of the pit would generally be determinable from its depth, and it would, in most cases, be the better plan to fix the dimensions at top and batter at sides when marking the site, than to leave it either to the coolies or to their immediate superintendent, supposing the latter to be only a Writer, Gumastah, Peon, or Lascar.

7. I have the honor to recommend, therefore, that for future expenditure on this account, a grant of Rupees 1,000* be sanctioned under the head of Contingencies, and that separate bills for the expenditure be passed by this Office on

such information as the Government may deem necessary to be exhibited. It seems to me that in this, as in every other detail, a proper and efficient system should be established by the Executive Engineers, and that they ought to know not only the cost of all work done under their orders, but also all the particulars which will enable them to ascertain that a fair return for the expenditure has been obtained. Such a system would appear to have been wanting in the present case, and if I may judge from the pits which I saw in March last, I should say

† Paragraph 3 above.

that the average rate† is very greatly in excess of what it should have been.

8. I enclose a Memorandum of the charges on account of trial pits which have been sent to this Office to be passed, and showing what have been passed, and what have been objected to pending further information. As the total is in excess of the sum mentioned in paragraph 3 of the Executive Engineer's letter, probably this Memorandum takes in a later period than that to which he refers.

No. 607. ORDER THEREON, 24th July 1865, No. 2,131.

CIVIL WORKS, No. 81.

1. The work to which this letter alludes seems to have been performed in a very loose manner, and the Government are of opinion that a more efficient check than now exists is essential. The arrangements suggested by the Consulting Engineer in his letter to the Manager of the Irrigation Company seem well suited, and should be at once carried into effect. The bills in the proposed form will be submitted monthly, so as to avoid the double entry under the head of "Inefficient Balance."

2. Agreeably to Captain Mullins' recommendation, the Governor in Council sanctions a grant of Rupees 1,000 on account of sinking trial pits, the expenditure to be adjusted by the submission of the monthly bills above alluded to.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Consulting Engineer for Irrigation and Canal Company, with three Enclosures.
" Manager for do. do.

Etd. S. T. Augustin.

*Enclosures.-
1 Letter in orig. from Sec.
Eng. Bellary - 11.2.247
1 Copy of letter from this office
11.2.247 11.2.247/65.
1 Memo of charges.-
3.*

*Consulting Engineer Office
11.2.247 Irrigation & Canal Company
Madras 10th July 1865.*

*From,
Captain J. Mullins, R.E.
Cons. Eng. for S. & C. Co.
The Secretary to Government,
Department of Public Works.*

*Sir,
On the receipt of the Contingent-bills
for the Bellary Division for September, October
and November last, it was found that their
amounts were greatly in excess of the sum sanctioned
on this account by Government, owing to the inclusion
therein of considerable sums for sinking trial pits, in
connection with the proposed line of canal from
Malavapoor to Bellary. The Agent was therefore
requested to furnish a separate bill for the trial
pits, with information as to the amount of work
done, and the probable cost of completing the pits
still required to be sunk.*

*2. A separate Bill has been received, and
11.2.247 - 11.2.247 with it a letter from the Executive Engineer Bellary
& forwarded herewith in which it is stated that the information asked
for cannot be given as the pits sunk up to the
end of November were not measured up, and he
considers it would be a useless expense and
waste of time to measure up the work done in*

in Cubic yards. He also explains that he considers it impossible to state beforehand the probable cost of finishing the number that may still be required, as both that number and the amount of work is not determinable.

3. The Executive Engineer (para 3) gives the expenditure at Papers 1411-11-11, and the aggregate depth of the number 300 (about) pits at 2025 feet. I believe they average about 4 feet square, and if so, the Cubic Yards would be 1200, and the cost per Cubic Yard Paper 1-21-9.

4. I enclose also a letter, which I addressed, No 97 of the 14th Dec. a few days previously, to the receipt of the Executive Engineer's letter, to the Agent, and in which I suggested a form in which the work done might be registered and billed. This form shows only a small part of the information which the Executive Engineer should possess, but it would suffice for this Office in general, and in case only of apparently disproportionate expenditure would details be called for.

5. The arrangements under which the pits have been sunk is not entirely detailed, but it would seem that daily coolies have been employed, but that the work done by them has not been checked. It was not, I suppose, left entirely to the coolies to determine how deep they should go, and if so, some one must have inspected the pits and ordered the cessation of the work, and whoever did so, should either have himself

ascertained the quantity of work done, or have directed some subordinate to do so. Moreover it would seem probable that some one kept an account of the daily number of coolies employed, and this person should have, at least roughly, ascertained and recorded the work done each day or at the end of a few days, otherwise it would be extremely uncertain whether the coolies represented to have worked went to the work at all.

6. As regards calculating beforehand the probable cost of trial pits, I may observe that work of this kind may be for two purposes, the one to ascertain the easiest ground for line, not sections, and the other to determine the nature of the soil on a section line with a view to frame the executive estimates. In the former case, the cost is not estimable beforehand, but the extent of work of this sort is not likely to be great, and as the pits must be carefully examined after excavation at any rate, the details of their cost can always be readily ascertained; and are in fact an important part of the results of the work ordered, in the second case the sites of the pits must be marked out for the coolies, and their depth would be known from the longitudinal section, in most cases, because every trial pit should, unless solid rock be met with, into which, from the known formation of the country, it

Proceedings of the Madras Government

Under date the 21st July 1865.

Read the following

From the Consulting Engineer MCO

Recommends that for future expenditure on account of sinking trials a grant of Rspees 1000 be sanctioned under the head of contingencies & that separate bills for the expenditure be kept by this Office on such information as the Govt may deem necessary to be exhibited.

(This entry 10th July 1865 No 52)

The work to which this letter alludes seems to have been performed in a very loose manner, and the Govt are of opinion that a more efficient check than now exists is essential. The arrangements suggested by the Consulting Engineer in his letter to the Manager of the Dredging Company seem well suited, and should be at once carried into effect. The bills in the proposed form will be submitted

W.S.

29 July 1865 No 2177

29 July 1865 No 2177

The Secy to Govt

Dated 10 July/65

Cons

No 2131 24 July/65

Recommend that for future expenditure on account of sinking trials a grant of Rspees 1000 be sanctioned under the head of contingencies & that separate bills for the expenditure be kept by this Office on such information as the Govt may deem necessary to be exhibited.

Monthly, so as to
avoid the double
entry under the head
of "Inefficient
Balance".

Agreeably to
Captain Mullins
Recommendation,
the Gov. in Council
Sanctions a grant
of Rs 1000 on
account of sinking
local pits. The
expenditure to be
adjusted by the sub-
mission of the monthly
bills about allowed
to.

W.B.

To the Congress I. of Comp. with three enclosures
4 " Manager

18 Sep. 20th July -
2

27 Nov 85 D. J. M.

Pro. of Good Friday

No. 2101

(12) Pro. of the Pro. of

2/24 July 1865

Constructing a grant
of 1000 on a deed of
dividing that into an
connection with the
Pro. of the Pro. of
line of land from the
and to the

27 Nov 85