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MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No.	Press Mrs.
Dated 18	

Not to be folded or roughly handled

No. 19. Read the following Extract from the Proceedings of the Chief Engineer, dated 12th August 1857, No. 2887.

Read the following letter from Major E. LAWFORD, Superintending Engineer Southern Circle ; to Colonel C. E. FABER, Chief Engineer, dated 7th August 1857, No. 196.

SIR,

In forwarding with reference to Extract Minutes of Consultation No. 1057, dated 3rd June 1857, a report by Lieutenant Ryves on the subject of the Supplemental estimate of Rupees 11,504, for the extension of the Wyacondan channel in Trichinopoly, I have the honor to express my full concurrence in his statement of the impossibility of foreseeing the difficulty of excavating the lower part of the cutting.

2. You are aware that no means of trying the subsoil of extensive lines of channel are afforded to Officers of this Department except by application to Government for funds, which in this case would have involved delay, it was most desirable to avoid at the time the estimate was made in 1854 and even if the ground had been partially tried by pits sunk here and there, satisfactory proof would not have been afforded of the existence of a continued bed of rock so far beneath the surface.

3. The inspection I made of the work in 1856, did not lead me to think so much rock would still be met with, or I should have then reported it, and the increasing hardness as the depth increased was entirely unlooked for.

4. Under these circumstances, I hope that sanction will be given to the Supplemental estimate of 11,504 Rupees for resuming the work as soon as the present general suspension has ceased.

Letter from Lieutenant J. G. RYVES, District Engineer of Trichinopoly ; to Major E. LAWFORD, Superintending Engineer Southern Circle, dated Thathempettah, 7th July 1857, No. 333.

SIR,

Adverting to the Chief Engineer's Resolution No. 958, dated 6th Ultimo, I have the honor to forward the following explanation called for in the concluding lines of the 3rd para. of Extract Minutes Consultation No. 1057, under date the 3rd June.

2. The first Supplementary estimate, forwarded with my letter dated 29th March 1856, was prepared after a careful inspection of the channel on the 19th and 21st of March, the quantities being calculated from are accurate section of the channel which was taken by myself in the previous January, deducting the small quantity of excavation executed and measured in the interim.

3. When I inspected the channel on the date given above, I found the soil to be for the first two miles easy sandy red soil, from the second mile up to beyond Iyemputty it became more difficult but still appeared to be easily removable with pick-axe and mammoties it being after rain soft and muddy ; beyond this up to Vaalavunthaan Cotay the soil was laterite gravel (not stone) and in the neighbourhood of the last named village rock shewed itself in places here and there.

4. The above was the apparent quality of soil as far as could be judged from a careful occular examination but from Iyemputty to Vaalavunthaan Cotay there was below this, one continued stratum of disentegrated rock above which lay the laterite gravel and red earth, although I expected that rock in several places would be met with near Vaalavunthaan Cotay yet, I and indeed any one could not have *anticipated*, with any thing like precision, that below the red earth and gravel, lay such a stratum of difficult soil although its possibility may have been imagined.

5. The nature of the work ultimately proved worse than I could have even imagined and even had I prepared a guess estimate on the supposition that the soil would turn out to be harder below and that rock would be met with generally in the eastern half of the channel, yet even then

my estimate would have fallen far short of the actual cost as it has it has been determined by experience.

6. Mr. Havington did prepare such an estimate but as there were no grounds for expecting that throughout the channel rock would be found underlying the laterite earth and gravel, the estimate was not recommended by me for sanction.

Resolved with reference to Extract Minutes of Consultation No. 1057, dated 3rd June 1857, to submit copy of the foregoing letter for the information of Government, and with the Chief Engineer's recommendation that the supplemental estimate of Rupees (11,504) eleven thousand five hundred and four, for completing the extension of the Wyacondan channel, be forwarded for the early sanction of the Government of India.

(Signed) C. E. FABER, Colonel,
Chief Engineer.

No. 20. ORDER THEREON, No. 1645; dated 27th August 1857.

Under the circumstances explained in the letters submitted with the above Extract, the Right Honorable the Governor in Council resolves to forward to the Government of India, the supplemental estimate amounting to Rupees 11,504 received with the Chief Engineer's letter of the 4th May last No. 76, for completing the Wyacondan channel in the Trichinopoly District. The work being one falling under the restrictive orders of the 17th July last No. 1372, sanction will be solicited for the entry of the estimate in the Budget of 1858-59.

(Signed) H. FORBES,
Acting Secretary to Government.

No. 21. Ordered in consequence that the following letter be despatched.

From H. FORBES, Esq. Acting Secretary to the Government of Fort St. George; to Lieutenant Colonel W. E. BAKER, Secretary to the Government of India, dated 27th August 1857, No. 1646.

SIR,

Para. 13 of Mr. Beadon's letter dated 26th January 1855, conveyed sanction to the Project No. 4 in the Budget Statement No. 1 for 1854-55, amounting to Rupees 34,134, for extending the Wyacondan channel in the Trichinopoly and Tanjore Districts. On the 14th April 1856, the Chief Engineer reported that this sum was found inadequate for completing the channel to the full breadth of eight yards originally provided for, and the causes assigned for the deficiency were that strata of rock, and boulders had been met with in the course of the new channel, for the removal of which the average rate of 10 pice per cubic yard allowed in the estimate was insufficient, and that the actual out-turn of excavation to be performed exceeded that first computed by nearly 50,000 cubic yards. He therefore submitted a supplemental estimate to the amount of Rupees 4,000, which was sanctioned by Government on the 25th April 1856, and reported to the Government of India in the Statement* forwarded with Mr. Bourdillon's letter dated the 5th June 1856 No. 867. In his letter of the 4th May last, the Chief Engineer represented the inadequacy of this additional outlay also, and he submitted a further estimate for Rupees 11,504 for completing the channel, together with a report from Major Lawford the Superintending Engineer of the Southern Circle, who had inspected the work. In explanation of the necessity for this application, Major Lawford stated that it had been caused by the existence of rock in the lower part of the cutting, in a state of disintegration, which it was found necessary to remove by the pickaxe and crowbar instead of

* Item No. 2.

by blasting, that large beds of hard gravel were also found at intervals, and that in other places the laterite was of great thickness. In Extract Minutes† Consultation of the 3rd June last No. 1057, the Government animadverted on such frequent applications for the same work, and called for explanation as to why, when the existence of rock had been discovered, the first supplemental estimate did not fully provide for the amount of work which remained to be executed.

† Consultation of 9th June 1857, Nos. 3 and 4.

2. The Chief Engineer has now forwarded letters from the District Engineer of Trichinopoly and from Major Lawford, copies of which are herewith submitted, in which it is said that it was not practicable to foresee at once the difficulty to the fullest extent, of excavating the lower part of the cutting. As the outlay required for completing the channel viz. Rupees 11,504, is in excess of the sum which this Government can authorize under No. II of the Rules communicated with your letter of the 1st August 1856 No. 3605, I am desired to forward the estimate for submission to the Government of India, and to solicit sanction for its entry in the Budget of 1858-59, the work being one falling under the restrictive orders of the 3rd July last.

Public Works Department

No. 1645

Extract from the Proceedings of Government in the Public Works Department dated the 27th August 1857.

Read the following Correspondence relative to the Survey of the Bay of Bengal.

Ordered that the Secretary to the Chief Engineer be requested to furnish the Government with a Statement of the Expenditure which may be incurred in the Survey of the Bay of Bengal, and that the Chief Engineer be requested to submit to the Government his opinion as to the best mode of conducting the Survey.

No. 1646

From the Chief Engineer to the Secretary to Government, dated 29th August 1857.

Sir,

I have the honor to submit for the information of the Government, a Statement of the Expenditure which may be incurred in the Survey of the Bay of Bengal, as called for in your letter No. 1,5814 received with the Chief Engineer's letter of the 5th May last No. 76, for completing the Hydrographical Charts of the Eastern Coast of Bengal.

I have

The work being one
falling under the restric-
tive orders of the 19th July
last No 1372, same has
still to be solicited for the
entry of the Estimate
in the Body of the
1858/59.-

Ordered accordingly
that the following letter
be despatched

To
Col. H. C. Drake,
Secy & Chf Engr Office, Mdy

(Have sent 2 Engr Copies of
the letter)
[illegible]

[illegible]
[illegible]
[illegible]

Colonel H. E. Bolton

Secretary to the Government of Illinois

Esq.

Sir

I have to solicit your attention to the subject of a claim preferred by the Proprietors of the Village of Peru, for the use of the Bridge across the Illinois River at that place, which has been erected by the Proprietors of said Village, at a very heavy expense, and which is now in a state of dilapidation, and unless repaired will soon be entirely destroyed. The Proprietors of said Village have petitioned the County Commissioners Court of La Salle County, for the purpose of having the Bridge repaired, but the Commissioners Court have refused to do so, on the ground that the Bridge is not within the limits of said County, but is within the limits of the County of Putnam. The Proprietors of said Village have also petitioned the County Commissioners Court of Putnam County, for the purpose of having the Bridge repaired, but the Commissioners Court have refused to do so, on the ground that the Bridge is not within the limits of said County, but is within the limits of the County of La Salle. The Proprietors of said Village have also petitioned the County Commissioners Court of La Salle County, for the purpose of having the Bridge repaired, but the Commissioners Court have refused to do so, on the ground that the Bridge is not within the limits of said County, but is within the limits of the County of Putnam. The Proprietors of said Village have also petitioned the County Commissioners Court of Putnam County, for the purpose of having the Bridge repaired, but the Commissioners Court have refused to do so, on the ground that the Bridge is not within the limits of said County, but is within the limits of the County of La Salle.

Peru

Feb 12 1825

which the excess rate of
10 pieces for Cubic Yard incurred
in the Estimate were insufficient
cient, and that the actual
outturn of excavation to the
performed exceeded that
first computed by nearly
50,000 Cubic Yards. He there-
fore submitted a supple-
mentary Estimate to the
amount of Rupees 4,000.
which proposal sanctioned by
Government on the 25th April
1856, and reported to the Go-
vernment of India on
the 8th January 1857
with a letter dated the 5th June 1856 & 387.
On his letter of the 4th Inst
last the Chief Engineer
represented the inadequacy
of this additional outlay
also, and he submitted a
further Estimate for
Rupees 11,584 for completion of
the

Item No 2

Item of 9th June 1857
For 3 and 4

[illegible]
[illegible]
[illegible]

the existence of rock and boon
discovered the first supplemental
Estimate did not fully have
=vide for the amount of work
which remained to be executed.

The Chief Engineer
had more demanded Letters
from the District Engineer
of Cuchina holy and Sam
Major Crawford, copies of
which are herewith submitted,
in ~~which~~ which it said
~~Colonel~~
that it was not practicable
to foresee at once the difficulty
to the fullest extent of excavating
the lower part of the entrance.
As the outlay required for
completing the Channel
by Purfaee 1,20,000, or an excess
of the sum which the
Government can at present
under No II of the Rules
communicated with your letter
of the 1st August 1854 No 3685,

Sum desired to forward the
Estimate for submission to
the Government of India,
and to solicit a sanction
for its entry in the Budget
of 1855/56, the work being
one falling under the rec=
=tractive rules of the 2nd July
last.

Fort St. Geo 27 Augt 1855

Public Works 1857 Depart.
Dr. to Cess 14 Septr.

No 1616.

To
The Secretary to the
Govt of India. D. P. D.

Dated 2nd August 57.

Rs 2,25 Septr 5 Sirkar 20 Oct.
Rs 48 Dlg.

No 8

Submitting for sanction and entry in the Budget of 1858-59 an Additional Estimate amounting to Rs 41861, for Completing the Excavation Channel in the Pachumpatty and Tanjore Districts

No 21

Received 28 Aug 1857