

(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.<br>1731/74 | 422 | Press<br>Mis. |
| Dated               | 7.2 | 18.3.         |

**Not to be folded or roughly handled**

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*Proceedings of the Madras Government, Public Works Department,  
7th February 1873.*

No. 173. Read the following endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 3rd February 1873, No. 49:—

From the District Engineer, Godavery, to the Chief Engineer for Irrigation and Joint Secretary to Government, Public Works Department, dated Dowlaishweram, 17th January 1873, No. 487.

ADVERTING to your memorandum of the 23rd ultimo, No. 335, I have the honour to forward copy of a letter received from Mr. Walch, who purposes undertaking the investigations required by Government himself if provided with a small establishment costing perhaps Rupees 150 a month for eight months; this is to provide for the field work as well as for drawing up the plans, etc., to illustrate the proposals Mr. Walch will have to submit.

2. Mr. Walch's qualifications for the duty are well known, and I have no hesitation in recommending his application for the establishment; my only regret is that his other onerous duties should be burdened by this additional work, but I have no other means of relieving or assisting him than what I have already given him.

3. I had arranged with Mr. Walch to construct two weirs in this section of the Ellore Canal, one 200 feet long near the Ponungy escape, and one 100 feet long near the Gundooogle under-tunnel; the estimated cost of these was about Rupees 800, and with the works already existing we considered the canal would be made safe until a better project could be matured, and it was very advisable to be prepared as soon as possible against such contingencies as occurred twice last year in September and October; in the former month no damage took place, as Lieutenant A. Dorward, R.E., happened to be at Ellore, and with great good judgment cut the bank of the canal before the flood rose over the town and country, when he observed how this was rising and had noted the rain-fall registered in the office.

4. In October the flood was allowed to rise sufficiently high to enable the Toomilair to breach its left bank below the bifurcation, and discharge its surplus waters towards Dendulur and by the adjacent drainages into the Ellore Canal, and on considering how dangerous the Kistna portion of the canal always was by having this river running into it, I deemed it best to accept the state of affairs which had been made and make the best of them.

5. We proposed to remove all turning shutters and to keep the crest of the weirs 3 inches above the required level of water in the canal, so that all drainage water might have free outlets at any time of the day or night; the new weirs were to be constructed in good hard soil, where the canal is in cutting just below the level of the adjacent country. The design is very simple, consisting of a body wall sunk 3 feet into the ground, with wing walls running well back into the canal banks, with rough stone aprons; the wings have steps for the convenience of foot-passengers and towing-coolies leading down to the crest, so that the passage is quite open for the whole year nearly; these measures are only recommended to secure the canal at present. Mr. Walch will no doubt furnish a comprehensive scheme in a short time, but it may take some time to carry this out, or to get the necessary funds for the purpose. I trust then, under the explanations now afforded,

Proceedings of the Madras Government, Public Works Department,  
7th February 1873.

you will be good enough to obtain the sanction of Government to my progressing with the works we had devised.

From the Executive Engineer, Western Delta Range, Godavery, to the District Engineer, Godavery,  
dated Camp at Nursapur, 8th January 1873, No. 365.

With reference to Memorandum No. 335 of Chief Engineer.

(1).—It is quite impossible to spare any of the staff under me from their duties on delta works.

(2).—As I can this season depute to the Sub-division Officers Lieutenant Dorward and Mr. Baker much of the supervision of petty repairs and attention to petitions and general minor administrative works, which occupied so large a portion of my time during the last two seasons, I consider that I can undertake the investigation required with the assistance of (say) a special Overseer, who understands surveying and levelling, and a Surveyor.

SUBMITTED to Government, with reference to G. O., No. 3,005, dated 18th December 1872, with a recommendation that the District Engineer, Godavery, may be authorized to employ under Mr. Walch a temporary establishment at a cost not exceeding Rupees 900 for the purpose of preparing designs and estimates for disposing of the drainage across the Ellore Canal. A lump sum has been named in preference to a monthly amount, because the investigation and subsequent estimates should be completed as rapidly as possible, and this arrangement will admit of the alteration of the establishment employed, as the Executive Engineer may find advisable.

2. As the permanent works for protecting this canal from further injury cannot be carried out for some time, the District Engineer has been informed that the temporary weirs referred to in his letter may be carried out from the Agricultural Repair allotment. Their anticipated cost is Rupees 800.

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,  
Chief Engineer for Irrigation.

No. 174. ORDER THEREON, 7th February 1873, No. 422.

ESTABLISHMENT, No. 14.

THE employment of a temporary establishment at a cost not exceeding Rupees 1,200, the sum suggested by the District Engineer for the purpose of preparing designs and estimates for works to dispose of the drainage crossing the Ellore Canal in the Godavery District, is sanctioned. The charge in the current year will be met from the grant for temporary establishments, and the District Engineer will report, after the 31st March, what part of this sanction will have to be provided for in 1873-74, when the requisite appropriation will be made.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineer, Godavery.  
" Chief Engineer for Irrigation.  
" Controller of Public Works Accounts.  
Ed. S. T. Austin.

No 487 District Engineer's Office Godavery  
Dowlaiswarum 17 January 1873.

From  
Lieut Col J. F. Fisher R.E.  
District Engineer Godavery  
To  
Lieut Col J. Mullins R.E.  
Chief Engineer for Irrigation and  
Joint Secretary to Government  
P.W.D.  
Madras

Referring to your Memo of the 23rd ult. No 335, I have the honor to forward copy of a letter received from Mr. Walch who proposes undertaking the investigations required by Government himself if provided with a small establishment costing perhaps Rs. 150 a month for 3 months. This is to provide for the field work as well as for drawing up the plans &c. to illustrate the proposals Mr. Walch will have to submit.

Mr. Walch's qualifications for the duty are well known, and I have no hesitation in recommending his application for the Establishment, my only regret is, that, his other numerous duties should be burdened by this additional work, but I have no other means of relieving or assisting him, than what I have already given him.

I have arranged with Mr. Walch to construct 2 weirs in this section of the Ellore Canal, one 200 ft long near the Porungy Escape, and one 100 ft long near the Gindergole under-tunnel; the estimated cost of these was

was about Rs. 800, and with the works already existing, we considered the Canal would be made safe until a better project could be matured, and it was very advisable to be prepared as soon as possible against such contingencies as occurred twice last year in September and October; in the former month no damage took place, as Lieut. A. Dorward R.E. happened to be at Ellore, and with great good judgment cut the bank of the Canal before the flood rose over the town and country when he observed how this was rising and had noted the rain-fall registered in the Office.

4 In October the flood was allowed to rise sufficiently high to enable the Foornalain to breach its left bank below the bifurcation, and discharge its surplus waters towards Dendulur and by the adjacent drains into the Ellore Canal, and on considering how dangerous the Nistra portion of the Canal always was by having this river running into it, I deemed it best to accept the state of affairs which had been made, and make the best of them.

5. We proposed to remove all leaning shutters and to keep the crest of the weirs 3 inches above the regulated level of water in the Canal, so that all drainage water might have free outlets at any time of day or night. The new weirs were to be constructed in good hard soil where the Canal is in cutting, just below the level of the adjacent country; the design is very simple consisting

of a body wall sunk 3 ft into the ground with wing walls running well back into the Canal banks with rough stone aprons. The wings have steps for the convenience of foot passengers and towing coolies leading down to the crest, so that the passage is quite open for the whole year nearly. These measures are only recommended to secure the Canal at present, Mr. Welch will no doubt furnish a comprehensive scheme in a short time, but it may take some time to carry this out or to get the necessary funds for the purpose; I trust then under the explanations now afforded, you will be good enough to obtain the sanction of Government to my progressing with the works we had devised.

I have the honor to be  
Sir,

Your Most Obedt. Servant

Wm. T. Trickett Lieut. Col. R.E.  
District Engineer Godavari

N<sup>o</sup> 49.  
Letter N<sup>o</sup> 487 dated 17 Jan'y 1873 from the District Engineer Godavari.

2

Submitted to Government, with reference to G.O. N<sup>o</sup> 3005 dated 18 December 1872, with a recommendation that the District Engineer, Godavari, may be authorized to employ, under Mr. Valeh, a temporary establishment at a cost not exceeding Rupees 900, for the purpose of preparing designs & estimates for disposing of the drainage across the Elloor canal. A lump sum has been named in preference to a monthly amount, because the investigation and subsequent estimates should be completed as rapidly as possible, and this arrangement will admit of the alteration of <sup>the</sup> establishment employed, as the Executive Engineer may find advisable.

2. As the permanent works for protecting this canal from further injury cannot be carried out for some time, the District Engineer has been informed that the

To Mr. Valeh Secy. to Govt. 17/1/73.  
1852-3 Jan'y 73.

Mr. Valeh Secy. to Govt. 17/1/73.  
The District Engineer Godavari District  
for Disposition of  
Matters

Dated 17<sup>th</sup> January 73  
Order 37  
Mr. Valeh Secy. to Govt. 17/1/73.

Forwarded copy of letter from the District Engineer, Godavari, to the District Engineer, Godavari, with the sanction of the Government, for the purpose of obtaining leave of absence to the District Engineer, Godavari, for the purpose of attending to the works of the Elloor canal.

the temporary weirs referred to in his letter  
may be carried out from the Agricultural  
repair allotment. Their anticipated cost is  
Rupees 800-

For H. George      Voluntary      At Govt Rs.  
3<sup>rd</sup> February 1873      Chiefly for irrigation  
To

The Secretary to Govt. of Madras  
[Faint handwritten text follows, mostly illegible due to fading and bleed-through from the reverse side of the page.]

W.D.

Pr 18 Dec 72 No 374-377

P.W. 1843 Depart  
Off: of Govt of India  
No 821.

From  
The Chief Engr- for Govt  
To The Secretary to Govt  
P.W. D.

No 49

Dated 3<sup>rd</sup> February 1873  
Recd 7<sup>th</sup> Feb 73  
Encl 2

Recommends for sanction  
the employment of a tem-  
porary Estt at a cost of Rs  
900 for preparing design  
& estimates for works to  
dispose of the drainage  
crossing the Ellore Canal  
in Godavery Dist.

No 422-7<sup>th</sup> Feb 73

No 173

10 Feb 73

W.D.

No 22

60

Under date the 7<sup>th</sup> Feb 73

The employment  
of a temporary establish-  
ment at a cost not exceed-  
ing <sup>1200 the sum</sup> Rs 1200 for the  
purpose of preparing de-  
signs and estimates for  
works to dispose of the  
drainage crossing the Ellore  
Canal in the Godavery  
District is sanctioned. The  
charge

The charge in the current  
 year will be met from  
 the grant for Temporary Establishments,  
 and the District Engineer  
 will report, after the 31<sup>st</sup>  
 March, what part of the  
 sanction will have to be  
 provided for in 1873-74,  
 when the requisite appro-  
 priation will be made.

M. 6/2/73

LHM

20

36

3

Log  
 Me W. Eng. G. G. G. G.  
 Ch. Eng. G. G. G. G.  
 C. G. G. G.

he-s depts only to the Eng. G. G. G.  
 P. C. - wall 21/2/73

61074/73 P. 111

C/2821  
Govt. of 1873 Madras.  
PUBLIC WORKS.

To the District Engineer  
Gokarnam

Dates

Recd.

Encl. 2

G. O. 7<sup>th</sup> Feb 1873 No. 422.

Nos. 173 & 174

Shore Canal. The  
employment of a tempo-  
rary establishment  
for preparing designs  
& estimates for drainage  
works in connection  
with the Shore Canal  
in the Podanery Dist.,  
sanctioned with re-  
marks.

61054/73 Q-111