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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 897 Press Mis.

15-16

Dated 1— 8— 1862.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 1st May 1862.

No. 15. Read the following Endorsement of the Acting Deputy Chief Engineer, Northern Circle, dated Chepauk, 8th April 1862, No. 249 Kr 30.

Read the following letter from Major J. C. ANDERSON, District Engineer, Kistna, to Lieutenant-Colonel J. OUCHTERLONY, Acting Deputy Chief Engineer, Northern Circle, dated Bezwada, 28th March 1862, No. 227 :—

SIR,

Submitting estimates for proposed extension of Commamoor Channel.

1. I have the honor to return the draft of your letter to the Secretary to Government No. 128, dated 21st February 1862, which you have had the goodness to forward* for my perusal.

* With Memorandum No. 188, dated 21st instant.

2. With reference to the information called for at your suggestion in paragraph 3 of the Proceedings† of Government, as to the propriety of substituting an iron aqueduct for the masonry Calingulah proposed for construction across the Nulla Mudda, I have the honor to represent that I am quite alive to the great superiority, apart from any consideration as to cost of an aqueduct over a Calingulah in all cases in which it is practicable to apply it. In submitting the plan and estimate for a work of the latter kind, for passing the Nulla Mudda across the Commamoor Channel, I had taken‡ into consideration all the peculiarities of the locality, and although I mentioned as a sufficient reason for preferring it to an aqueduct, that it would cost very much less, this was not the only reason, which led me to adopt the Calingulah in this case, when in another letter§ I submitted an estimate for an aqueduct passing the Nukkoo Vagoo, a drainage of nearly equal magnitude across the same Channel.

† No. 483, dated 19th March 1862.

‡ District Engineer's letter No. 156, dated 19th November 1861.

§ No. 123, dated 19th October 1861.

3. The real objection to the construction of an aqueduct in the Nulla Mudda is the high level of its flood water and the impossibility of lowering it. The sill of the Calingulah of the Baupetla tank into which the Nulla Mudda drains itself is 15' above high water, while the head of the proposed continuation of the Commamoor Channel where the drainage crosses it, will be 12' 9" above high water. Consequently when the Baupetla tank begins to discharge, the water will stand back 2' 3" on the bed of the Commamoor Channel.

4. The floods of the Nulla Mudda rise to the level of the ground adjoining the banks or about 6 feet above the level of the bed of the Commamoor Channel, and if an Aqueduct were constructed it would hold up the flood water (the flow of which is already retarded by the high level of the tank when filled) to such an extent that I should apprehend that there would be danger of its inundating the country, and finding a new course for itself into the Ramparoo swamps.

5. I therefore cannot but think that an open Calingulah with an ample water way, considerably exceeding that of the Nulla Mudda itself, is the best method of avoiding any danger of the kind above-mentioned, and I trust you will, under the explanation I have offered, approve of its being adopted in this case.

Submitting for the information of Government a letter from the District Engineer, Kistna, as per margin,‖ treating of the subject noticed in the Order of Government No. 483, dated 19th March 1862, paragraph 3, and supporting his view that an open Calingulah with a sufficient water way affords the best, in point of fact the only means of safely discharging the flood waters of the Nulla Mudda at the point of its intersection with the line of the Commamoor Channel.

‖ No. 227, 28th March 1862.

(Signed) J. OUCHTERLONY, Lieut.-Colonel,
Acting Deputy Chief Engineer, Northern Circle.

No. 16. ORDER THEREON, 1st May 1862, No. 897.

Ordered to be recorded.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Secretary to Government.

No 227

Divl Engineer Office
Bajoarol 28th March
1862.

From Major J. C. Anderson.
Divl Engineer

To Lieutenant J. Ouchterlony
Actg Dy Chief Engineer
Northern Circle D.P.W.

Sir

I have the honor to return the draft of your letter to the Secretary to Government No 188 dated 21st February 1862 which you have had the goodness to forward for my perusal.

Submitting Estimates for proposed Extension of Commander Kennel-

Inclosure No 188 of 21st inst.

2 With reference to the information called for at your suggestion in para 8 of the proceedings of Government as to the propriety of substituting an iron Aqueduct for the Masonry Caliyulah proposed for construction across the Dulla Nuddee, I have the honor to represent that I am quite alive to the great superiority, apart from any consideration as to cost, of an Aqueduct over a Caliyulah in all

No 483 dated 19th March 1862.

cases in which it is practicable to apply it. In submitting the Plan and Estimate for a work of the latter kind, for passing the Mulla Mudda across the Commamoor Channel I had taken into consideration all the peculiarities of the locality, and although I mentioned as a sufficient reason for preferring it to an agueduct, that it would cost very much less. this was not the only reason, which led me to adopt the Caliguela in this case, when in another letter I submitted an Estimate for an Agueduct passing the Mulla Mudda Vagoo, a drainage of nearly equal magnitude across the same Channel.

Dft Engr's letter No 156 dated 19th Novr 1861.

No 123 dated 19th October 1861

3. The real objection to the Construction of an Agueduct in the Mulla Mudda is the high level of its flood water and the impracticability of lowering it. The sill of the Caliguela of the Paupetta Tank into which the Mulla Mudda drains itself, is 15' above high water while the bed of the proposed continuation of the Commamoor Channel where the drainage crosses it, will be 12' 9" above H.W. Consequently when the Paupetta Tank begins to discharge, the water will stand back 2' 3" on the bed of the Commamoor Channel.

4 The floods of the Mulla Mudda rise to the level of the ground adjoining the banks or about 6 ft above the level of the bed of the Commamoor Channel and if an Agueduct were constructed it would hold up the flood water / the flow of which is already retarded by the high level of the Tank when filled / to such an extent that I should apprehend that there would be danger of its inundating the Country, by finding a new course for itself into the Pomparoo Swamps.

5 I therefore cannot but think that an open Caliguela with an ample waterway considerably exceeding that of the Mulla Mudda itself is the best method of avoiding any danger of the kind above mentioned,

and D. I. G., trust you will, under the explanations I have offered, approve of it's being adopted in this Case.

I have the honor to be
Sir
Your most Obt Servt

J. Rhodes Major
Dist. Engineer 1 D.

Inclosure Report of 8th April/62

No 249

Central Office of P.W.
Chepauk 8th April 1862.

Endorsement

Submitting for the information of Government a letter from the District Engineer, Kistna, as per margin, treating of the subject noticed in the order of Govt. No 483, dated 19th March, 1862, para. 3, disputing his view that an open Culvert with sufficient water way affords the best — in point of fact the only means of safely discharging the flood waters of the Kulla Kudda at the point of its intersection with the line of the Cummamoor Channel.

A Cuchterlony Lieut. R.E.
Acting Deputy Chief Engr
N. Circle.

Samuel W. H. Horsley
Secretary to Govt
P.W.

18 March 1862
No 227
28 March 1862

No 20.

From Major J. Rhodes Dist. Engr
Kistna

To The Deputy Chief Engr
N. Circle

Sir

Referring to your No 228 of 22nd ult. Endorsement No 249 dated 3rd inst. I have the honor to state that I have nothing certain to advance regarding the Cummamoor Channel, except that I am of opinion that the Kulla Kudda should be carried under the Channel by a culvert, as I have already explained to you.

I have &c
J. Rhodes Major
Dist. Engr

19th March /62 Nos 305 - 306.

Public Works Department
Copy for Engy
No 1053. (16)

From,
Lt Colonel J. Cuthbertson
Actg Dy Chief Engr N.C.

To,
Lt Colonel H. H. Horsley
Secy to Govt P.W.D.
Fort St George.

Dated 8th April 1862
Recd 9th

No 249

Supporting the prov. position of the District Engineer Kistnah for an open Caliguluh at the point where the Commamoor Channel would intersect the course of Nullamuddu.

No 597
Recorded.
1st May 1862 Chief Asst

No 597
Answered

13 Copies
to the Actg Dy Chief Engr N.C.
Displ 2nd Grey.

25

No 15416.

14th April 1862