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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 483 Press ~~Mis.~~

305-306

Dated 19-3- 1862.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 19th March 1862.

No. 305. Read the following letter from Lieutenant-Colonel J. OUCHTERLONY, Acting Deputy Chief Engineer, Northern Circle, to Lieutenant-Colonel W. H. HORSLEY, Secretary to Government, Public Works Department, dated Chepauk, 21st February 1862, No. 128 :—

SIR,

1. I have the honor to forward herewith, for the purpose of their being laid before Government, an estimate accompanied by plans and the usual documents, amounting to Rupees 21,580, for a proposed extension of the Commamoor Channel in the Kistna District for a distance of nine miles, for the purpose of better supplying certain tanks in the southern portion of the Guntoor Delta, and thereby causing an extension of cultivation leading to a considerable increase in the Revenue of the District.

1 Letter from District Engineer Kistna, No. 156, dated 19th November 1861,
1 Do. No. 206, dated 12th February 1862.
One Abstract estimate Rupees 21,580.
4 Plans.

2. This project has been already adverted to in the Chief Engineer's letter, dated 27th November 1861, No. 7,653, and it will therefore only be necessary in the present communication to present a brief summary of the advantages promised by its development.

3. It forms in fine a portion of the comprehensive scheme of improvement of the District by irrigation from the Kistna, planned and contemplated when the Bezwadah works were originally projected; and its execution will mark another step taken in the direction which that scheme indicated.

4. The District Engineer, with whom the Collector is in entire concurrence, has submitted the project in a very clear and well digested form; and his plans and estimates which have been scrutinized in this Office, offer no point for objection or remark, save perhaps as regards the only important masonry work comprized in his plan, a rather extensive Calingulah proposed for construction at the point where the new channel would intersect the course of a stream called the "Nulla mudda."

5. I confess I consider an Aqueduct, even at enhanced cost, the preferable work of the two, as it is one of comparative permanence and best calculated to the end to be attained. In the present instance the District Engineer roughly estimates the cost of an Aqueduct at four times that of a Calingulah, contemplating obviously one of masonry; but it seems to me a question of some interest whether in a locality similar to that on the "Nulla mudda," where building materials are dear but where water carriage is available, the introduction of ducts formed of boiler plate iron, supported on light masonry pillars, might not be found advantageous. I believe Aqueducts of this description have been introduced, and with success, in Upper India; while in Europe they are very generally employed.

6. The promise of profit to the State by the operation of the channel extension now proposed appears by the statements furnished by the Revenue authorities, clear and decided.

7. The average yield of the lands lying under the four tanks which will be more immediately benefited by the scheme, taken during several past years, is 2,346 acres of cultivation representing Rupees 11,544 of Revenue, while the Ayacut is registered at 5,518 acres, and the full sist Rupees 32,813, showing a probable increase of Rupees 21,269 in the Revenue when a supply of Kistna water sufficient for the wet cultivation of the area noted has been provided. Indeed the local Tahsíldár does not hesitate to estimate the augmented cultivation likely to ensue from the operation of the works now contemplated, at 5 to 6,000 acres, representing 20 to 30,000 Rupees of Revenue.

8. Major Anderson has accordingly given a capacity to his channel adequate to the supply of water for an extent exceeding this area, allowing it an average width of 6 yards, a depth of 4 feet, and a fall of 6 inches per mile; according to which it should have the power of discharging as much as 18,000 cubic yards per hour, a quantity calculated to irrigate about 7 to 8,000 acres of land.

9. For the first mile of its course however Major Anderson proposes a width of 50 feet, for a very sufficient reason; that of retaining the power of discharging the whole volume of the Commamoor Channel water by means of the Nullah mudda into a tank (the Baupetla) which, from being well supplied with strong Calingulahs, offers a safe and ready means of escape for the stream in time of flood; and also that in case of need the important tank referred to may be readily filled for irrigation purposes.

10. I beg to observe that the estimate now submitted was received in this Office too late for entry in the current Budget, but I trust Government will see fit to sanction it nevertheless out of the General Funds of the District.

No. 306.

ORDER THEREON, 19th March 1862, No. 483.

1. The estimates submitted with the above letter are in continuation of one for the further development of the irrigation under the Seetanagram or south Main Canal from the Kistna Anicut, the enlargement of which was recently sanctioned in Proceedings of the 10th March 1862, No. 395.

2. The work now provided for is the extension of the Commamoor Channel, by which 5,518 acres will immediately receive water and bring in an additional Revenue of Rupees 21,269.

3. The Government sanction the estimate amounting to Rupees 21,580, but as the allotment assigned to the Kistna District is probably as much as the available labor will accomplish, it must remain with the District Engineer to carry it out or otherwise in preference to other works of less importance. The question of substituting an iron Aqueduct for the proposed Calingulah, as suggested by the Deputy Chief Engineer, can receive the attention of the District Engineer, who will report upon its practicability and cost.

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

Central Office of Public Works
Chepauk 21st February 1862.

No. 128.

From,

Lieutenant Colonel J. Ouchterlony
Acting Deputy Chief Engineer N. C.

To,

Lieutenant Colonel W. H. Horsley
Secretary to Government P. W.
Fort Saint George.

Public

Sir,

I have the honor to forward herewith for the purpose of their being laid before Government an Estimate, accompanied by Plans and the usual documents amounting to ——— Rupees 21,580
for a proposed extension of the Commamoor channel in the Kistna District for a distance of 9 miles, for the purpose of better supplying certain tanks in the Southern portion of the Guntoor Delta, and thereby causing an extension of cultivation leading to a considerable increase in the revenue of the District.

2. This project has been already adverted

adverted to in the Chief Engineer's letter dated 27th November 1861, and it will therefore only be necessary in the present communication to present a brief summary of the advantages promised by its development. No 7563

3. It forms in fine a portion of the comprehensive scheme of improvement of the District by irrigation from the Kistna, planned and contemplated when the Bezoarah works were originally projected; and its execution will mark another step taken in the direction which that scheme indicates.

4. The District Engineer with whom the Collector is in entire concurrence, has submitted the project in a very clear and well digested form; and his Plans and Estimates which have been scrutinized in this Office, offer no point for objection or remark, save perhaps as regards the only important masonry work comprized in his Plan, a rather extensive Calingulah proposed for construction at the point where the new channel would intersect the course of a stream called

called the "Nulla mudda".

5. I confess I consider an aqueduct even at enhanced cost, the preferable work of the two, as it is one of comparative permanence and best calculated to the end to be attained. In the present instance the District Engineer roughly estimates the cost of an aqueduct at 4 times that of a Calingulah, contemplating obviously one of masonry; but it seems to me a question of some interest whether in a locality similar to that on the "Nullamudda", where building materials are dear but where water carriage is available, the introduction of ducts formed of boiler plate iron, supported on light masonry pillars, might not be found advantageous. I believe aqueducts of this description have been introduced, and with success, in Egypt per India; while in Europe they are very generally employed.

6. The promise of profit to the State by the operation of the channel extension now proposed appears by the statement

statements furnished by the Revenue authorities, clear and decided.

7. The average yield of the lands lying under the 4 tanks which will be more immediately benefitted by the scheme, taken during several past years, is 2346 acres of cultivation representing Rupees 11,544 of Revenue, while the Ayacut is registered at 5518 acres and the full sist Rupees 32,813 shewing a probable increase of Rupees 21,269 in the revenue when a supply of Kistna water sufficient for the wet cultivation of the area noted has been provided. Indeed the local Tahsildar does not hesitate to estimate the augmented cultivation likely to ensue from the operation of the works now contemplated, at 5 to 6000 acres, representing 20 to 30,000 Rupees of revenue.

8. Major Anderson has accordingly given a capacity to his channel adequate to the supply of water for an extent exceeding this area, allowing it an average width of 6 yards, a depth of 4 feet, and a fall of 6 inches per mile; according to which it should have the power of discharging as much as 18,000 cubic yards per hour, a quantity calculated to irrigate about 7 to 8000 acres of land.

9. For the first mile of its course however Major Anderson proposes a width of 50 feet, for a very sufficient reason; that of retaining the power of discharging the whole volume of the Commamoor channel water by means of the Sulla Mudda into a Tank (the Bauspetla) which, from being well supplied with strong Calingulahs, offers a safe and ready means of escape for the stream in time of flood; and also that in case of need the important tank referred to may be readily filled for irrigation purposes.

16. I beg to observe that the Estimate now submitted was received in this office too late for

for entry in the current budget, but I trust Government will see fit to sanction it nevertheless out of the general funds of the District.

I have the honor to be
Sir,
Your Most Obedient Servant
J. Orchterlony Lieut.t Col.e
Ag.t D.y Chief Engr.s S. C.

Central Office of S.C.
Cantonment
21st February 1862.

To,
Lieutenant Colonel H. K. Haverty
Secretary to Government D.o.p.
Fort Saint George.

Pro 2/1 Decr/62 No 342.
" 10th March /62 No 128 to 129.

Public Works 1862 Department
(3) No 531

From,
Lieut Colo J. Cheetham
Actg Dy Chief Engr No 6.
To
Lieut Colo H. M. Horsley
Secy to Govt Genl Dept
Fort St George.

Dated 21st February 1862.
Rec'd 24th
No 128.

Encl. returned

Submits Plans and Estimate amounting to Rupees 21,580 for a proposed extension of the Commanor Channel in the Kistna District.

the District Engr who will report upon its practicability and cost.

No 335 to 336.

13 Copies
To Fort St George 19th March 1862
The Chief Engr & Circle
The Accountant Genl
× with 7 Encls
Dispd 20

No 483. 19 March.

Ack an order
3 March 1862

No 1883.

The Estimates submitted with the above letter are in continuation of one for the further development of the irrigation under the Bectanagram or south main Canal from the Kistna Anicut the enlargement of which was recently sanctioned in Proceedings of the 10th March 1862 No 395.

The work now provided for is the extension of the Coonnamor Channel by which 5518 acres will be immediately receive water and bring in an additional Revenue of Rupees 21,269.

The Government sanction the Estimate amounting to Rupees 21,580 but as the allotment assigned to the Kistna District is probably as much as the available labor will accomplish it must remain with the District Engineer to carry it out or otherwise in preference to other works of less importance. The question of substituting an iron aqueduct for the proposed Calingula as suggested by the Deputy Chief Engr can receive the attention of the