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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No.	1207	Press / Mis.
182-103		
Dated	10-6-	1902.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 10th June 1862.

No. 182. Read the following letter from Lieutenant-Colonel F. H. RUNDALL, Consulting Engineer for Irrigation and Canal Company, to Lieutenant-Colonel W. H. HORSLEY, Secretary to Government, Public Works Department, dated 15th May 1862, No. 9 :—

SIR,

1. I have the honor to forward the accompanying plans and estimate, amounting to Rupees 10,000, as received through the Agent, together with a descriptive Memorandum by the Chief Engineer of the irrigating Channels and Sluices, necessary to distribute the water to 30,000 acres, situated in the valley of the Bowanassy.

Vide Agent's letter, dated 3rd March 1862, accompanying.

2. The plan not having been accompanied with levels of the country commanded, I requested that they might be supplied to enable me to form an opinion, as to the suitability or otherwise of the arrangement proposed, and at the same time asked for information as to the areas which have been assigned to the respective Channels and Sluices.

3. To this the Chief Engineer replied, that as regarded the capacity of the Channels, "he "considered it inexpedient to be guided at once by the extent of irrigable land," considering "they should merely carry the supply required at the time, and be enlarged gradually, as demand "for water extends. That the course of the Channels must be regulated by the land prepared, "rather than by that irrigable, but that the main branches would be carried on the most com- "manding levels."

4. On receipt of this reply, I observed that though the construction of the branch channels should undoubtedly be regulated as the Chief Engineer represented, by the existing demand, rather than by the whole irrigable area, yet that it was expedient, on the score of economy, to construct the Sluices of sufficient size, to supply the *whole* area commanded, as their after construction would be much more expensive ; also, though doubtless, the main branches would be carried on the highest levels, yet that detailed information of the levels of the ground, should be furnished for the use of Government, and so I requested a map might be accordingly prepared.

5. In reply the Chief Engineer states, that the Sluices *have* been planned for the supply of the *whole* area, commanded by each Sluice, and that the Sluices collectively will discharge sufficient for all the land lying between the Tumbaddra, Kistna and Bowanassy.

6. The levels above alluded to, he states, shall be furnished with the land plans, when the branch Channels are marked out in detail, and the lands under each are surveyed, but he would prefer deferring these particulars, until the Canal and Sluices are completed, and therefore suggests that the sluices themselves may be sanctioned.

7. The general arrangement for irrigating the area of 30,000 acres, is described by the Chief Engineer as follows :—

"There are five principal branches running on ridges commanding the land to be watered. "These have head Sluices to regulate the supply of water according to the requirement of the "land, and ten other Sluices are included for a supply direct from the main Channel to fields "immediately below it. The minor branches cannot be planned at once with good effect, the "estimate therefore includes them in aggregate, and 120 small regulating Sluices for the heads "of the minor branches."

"With the estimate is a general plan of the Canal and branches, showing the position of "the Sluices and longitudinal sections of the branches, and plans and sections of the Sluices."

"The total amount of the estimate is Rupees 10,000, to stand against the item Distribu- "tion, which in my original rough estimate is calculated at Rupees 3 per acre. This amount "is 5 Annas and 4 Pice per acre only, owing to the circumstance that the main supply Channel, "by the course it takes, becomes itself a distributing, as well as main supply Channel."

8. Under the explanation afforded by the Chief Engineer, and with the understanding that the requisite map of levels will be furnished, when the distributing channels require to be laid

out in detail, I beg to recommend sanction being accorded to the accompanying estimate, amounting to Rupees 10,000, which, as the Chief Engineer observes, amounts to only one-third of a Rupee instead of 3 Rupees per acre, as allowed for in his original rough estimate.

No. 183. ORDER THEREON, 10th June 1862, No. 1,307.

1. With the above letter the Consulting Engineer submits plans and estimates amounting to Rupees 10,000, for the Sluices and Channels required to distribute the water to 30,000 acres situated in the Valley of the Bowanassy, and recommends that they may be sanctioned on the understanding that the requisite map of levels, which the Chief Engineer of the Company requests may be at present deferred, is eventually furnished.

2. The estimates are sanctioned accordingly.

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

Consulting Engineer's Office,
Irrigation Canal Company,
15 May 1862.

No 9.

From,
Lieut.t Coll. F. St. Randall,
Consulting for Irr. Comp.y.

To,
W. H. Horsley, Lieut.t Coll.
Secy to Government P. W. Dep.t.

Sir

I have the honor to forward the accompanying Plans and Estimate, amounting to Rupees 10000, as received through the Agent, together with a descriptive memorandum by the Chief Engineer, of the Irrigating Channels and Sluices, necessary to distribute the water to 30,000 acres, situated in the valley of the Bownaseny.—

Vide Agent's Letter of 5th March 1862 - accompanying—

2. The plan not having been accompanied with levels of the country commanded, I requested that they might be supplied, to enable me to form an opinion, as to the suitability or otherwise of the arrangement proposed, and at the same time asked for information, as to the areas which have been assigned to the respective channels and sluices.—

3. To this the Chief Engineer replied, that as regards the capacity of the channels, "he considered it inexpedient to be guided at once by the extent of Irrigable land", considering "they should merely carry the supply required at the time, and be enlarged gradually, as demand for water extends. That the course of the channels must be regulated by the land prepared, rather than by that irrigable, but that the Main Branches would

would be carried on the most commanding levels."—

4. On receipt of this reply, I observed, that though the construction of the Branch Channels should undoubtedly be regulated as the Chief Engineer represented by the existing demand, rather than by the whole irrigable area, yet that it was expedient on the score of economy to construct the sluices of sufficient size, to supply the whole area commanded, as their after construction would be much more expensive; also, though doubtless the Main Branches would be carried on the highest levels, yet that detailed information of the levels of the grounds, should be furnished for the use of Government, and I requested a map might be accordingly prepared.

5. In reply the Chief Engineer states, that the sluices have been planned for the supply of the whole area, commanded by each sluice, and that the sluices collectively, will discharge sufficient for all the land lying between the Toomlindra, Kistna and Bowanasy—

6. The levels above alluded to, he states, shall be furnished with the land plans, when the Branch Channels are marked out in detail, and the lands under each are surveyed, but he would prefer deferring these particulars, until the canal and sluices are completed, and therefore suggests, that the sluices themselves may be sanctioned.—

7. The general arrangement for irrigating the area of 30,000 acres, is described by the Chief Engineer as follows.—

"There are 5 principal Branches running out
"ridges, commanding the land to be watered. These
"have head sluices to regulate the supply of water
"according to the requirement of the land, and ten other
"sluices are included, for a supply direct from the
"Main Channel to fields, immediately below it. The
"minor branches cannot be planned at once with good
"effect, the estimate therefore includes them in ag-
"gregate, and 120 small regulating sluices, for the
"heads of the minor branches."—

"With the estimate is a general plan of the
"canal and Branches, shewing the position of the
"sluices and longitudinal sections of the branches,
"and plans and sections of the sluices."—

"The total amount of the estimate, is Rupees
"10,000, to stand against the item "Distribution", which
"in my original rough estimate, is calculated at
"Rupees 3 per acre. This amount is as 5-4 per acre only
"owing to the circumstance, that the Main Supply
"Channel, by the course it takes, becomes itself
"a distributing, as well as Main Supply Channel."—

8. Under the explanation afforded by the Chief Engineer, and with the understanding, that the requisite map of levels will be furnished, when the distributing Channels require to be laid out in detail, I beg to recommend sanction being accorded to the accompanying estimate, amounting to Rupees 10,000, which, as the Chief Engineer observes, amounts to only ⅔ of a Rupee instead of 3 Rupees ₹ acre, as allowed for in his original rough estimate.—

I have the honor to be,
Sir,
Your most obedient Servant,
F. W. Simpson Lieut. R.E.
Consulting Engr. for Irrig.n & Canals

Copy inclosed Letter to England
d/25. July 1862 No 72.

Nos 182. 183.

c/g May 23 Drive

Public Works 1862 Dept
Rec'd 16 May 1862
From The Consulting Engr for Rlys
To The Secy to Govt P.W.

Dated 15th May 1862.
Rec'd 16th

No 9.

With 8 Enclosures Returned
6 plans
1 Estimate
1 Letter Returned

Forwards plans & Estimate amounting to Rs: 10,000, together with a descriptive memorandum from Chief Engr of the irrigating channels & sluices necessary to distribute the water to 30,000 acres, situated in the valley of the Bowanny & recommends sanction being accorded to the accompanying estimate.

No 1307 - 10 June

W Urban Orde

No 1307.

With the above letter the Consulting Engineer submits Plans and Estimates amounting to Rs 10,000 for the Sluices and Channels required to distribute the water to 30,000 acres situated in the Valley of the Bowanny and recommends that they may be sanctioned on the understanding that the required Map of levels, which the Chief Engr of the Company requests may be at present deferred as eventually furnished.

The Estimates are sanctioned accordingly.

Colombo
10th June 1862

To 4 Copies
The Consg Engr for Coy with 8 Encls & Disp. No 11
to do