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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	2101	Press.
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ADU ARCHIVES

UDAN JIMAT

DEPARTMENT

222

210/
Proceedings of the Madras Government, Public Works Department,
31st March 1877. No. 1,093.

Read the following:—

No. 145—W.

No. 777.

Not by the Chief Engineer for Irrigation.

In paragraph 1 of the memorandum printed in Proceedings, Madras Government, No. 2,846, 25th October 1876, will be found the recommendation of the Committee appointed to consider the best way of improving the water-supply and drainage of Cumbum Town, that a new channel should be cut through the high ground north of the road from Nakkalagundi to Cumbum to take the place of the Nakkalagundi old channel, and afford a supply of drinking water to the town, removed from the sources of pollution to which the old irrigation channels are subject.

2. The District Engineer has submitted an estimate of Rupees 15,000 for constructing this channel, the length of which will be 7,883 feet. The cost of the channel itself, irrespective of masonry works, &c., is Rupees 8,200.

3. There is no survey on which the whole course of the old and new channels is shown. There is also no information to show why the particular line estimated for was chosen, or whether it was in any way necessary to locate it where such a considerable depth of cutting was necessary. Apparently until the neighbourhood of the town was reached a line running nearer to the old channel and more conformed to the natural features of the ground might have been selected. The best alignment would have been easily determinable from levels covering all the ground within the probable limits of alignment. On the supposition that the line is substantially that which Major Hasted selected, this part of the arrangements may be accepted as suitable.

4. The channel will have a fall of 1 foot a mile, and the intended sectional area of water-way being 16.58 feet, and the discharge 25 cubic feet a second, the velocity will be 1.5 feet a second nearly, or 1,800 yards an hour, which is lower than is desirable for water which is to afford a supply to the town. The actual velocity is not likely to exceed and may be less than 1.33 feet a second.

5. Head works, consisting of a weir across the surplus channel of the tank, with a head sluice to the new channel and a scouring sluice, have been provided for at an estimated cost of Rupees 3,130. The vent of the scouring sluice should be enlarged to 2 x 2 at the shutter, and at the back of the wall. If the head of the new channel in rear of the head sluice be only 2 feet wide, the sluice will not discharge the required quantity, the requisite head being dependent upon the channel being large enough to carry the supply at the normal level of 2 1/4 feet above bed level. A cross section of the surplus channel at the site of the weir should have been given.

6. The irrigation sluice or vented wall to be constructed at about 280 feet from the head is not likely to prove efficient, as its sill is only 6 inches below normal supply level.

7. It is presumed that this channel being intended to improve the sanitary condition of Cumbum, will be charged to Provincial Funds. It will be seen that

Proceedings of the Madras Government, Public Works Department,
31st March 1877. No. 1,093.

the excavation of the channel has been commenced in anticipation of the sanction of the estimate.

FORT ST. GEORGE,
15th March 1877.

(Signed) JOHN MULLINS, Lieut.-Col., R.E.,
Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 778.

ORDER THEREON, 31st March 1877. No. 1,093.

IRRIGATION, No. 51.

Account.

THE estimate for cutting a new channel from the Cumbum tank for the supply of clean drinking water to the town of Cumbum, and in supersession of

the old Nakkalagundi channel, is sanctioned.

2. On the general ground that the insanitary state of Cumbum has been mainly caused by the defective condition of the distributaries of the Cumbum tank, of which the Nakkalagundi channel is one, His Grace the Governor in Council is of opinion that the cost of the new channel should be charged to Imperial Funds, and should be provided for under Ordinary Agricultural.

3. The work so far as it may be adapted to employ famine relief labor should be made use of for that purpose and should be pushed forward vigorously.

4. The expenditure up to the 31st March has been fully provided for in G.O., No. 416, dated 6th February 1877.

Ordinary Agricultural.

Irrigation.

Original Works.

Cumbum Tank.

New Nakkalagundi Channel.

Amount of estimate Rupees 15,000.

To be carried out by the Public Works Department.

This sanction has been registered as No. 351—I of 1876-77.

(True Contract.)

John Mullins

Lieut.-Col., R.E.,

Secretary to Government, P.W.D.

To the District Engineer, Kurnool.

" Collector of Kurnool.

" Chief Engineer for Irrigation.

" Examiner of Public Works Accounts.

" Revenue Department.

Exd. S. T. Austin.

14 Spare Copies

2101/2

Rev: 1877 Sept
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Govt. of 1877: Madras.

PUBLIC WORKS.

To

✓
THE DISTRICT ENGINEER,
KURNOOL,
&c. &c. &c.

Dated March 31st.

Issued

Recd. 11/4

Encl.

G. O., 31st March 1877, No. 1093.

MARCH

Nos. 777-778.

12-6-77
Cumbum Tank, Kurnool District.—The estimate of Rupees 15,000 for cutting a new channel from the — for the supply of clean drinking water to the town of Cumbum, sanctioned; the cost to be charged to Imperial Funds and provided for under Ordinary Agricultural, and the work directed to be pushed forward vigorously. 142101

Comd to the Rev Bd

JH
12th April 1877