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MADRAS RECORD OFFICE.**Government of Madras.***Public works* **DEPARTMENT.**G.O. No. 1902.Press
~~Mis.~~372-373.Dated 18-6- 18 66.**Not to be folded or roughly handled**

Proceedings of the Madras Government, Public Works Department ,
18th June 1866.

No. 372. Read the following letter from the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department, dated Camp Ramandrug, Talúq Hospett, 31st May 1866, No. 301 :—

1. With reference to the last paragraph of my letter, No. 172 of 27th November 1865, I have the honor to submit an original letter, with enclosure, from the Acting Assistant Engineer, Bellary.

No. 42 of 25th May (to be returned).

I was not in Bellary at the time the rain fell, but went in about ten days afterwards, and can certify to the great benefit derived from the branch channel to the Fort ditch.

2. A few days after the rain fell I received a letter from Mr. Porter, stating that the branch channel to the Fort ditch had been discharging water for three days, but owing to the nature of the soil (black cotton), and the small section, the discharge had been small. As the use of this channel in supplying the Fort ditch was proved to be of great benefit, he begged permission to submit an estimate for improving it.

3. I inspected this channel on the morning of the 11th instant, and seeing that it would be beneficial to make the improvements Mr. Porter proposed, directed him to submit an estimate for the same; this estimate, amounting to Rupees 200, I now beg to forward for sanction from the sum allotted for "Minor New Works, Military" in the current year.

4. The sanctioned amount for this channel had not been expended, but as the work was completed according to the original proposal, I directed Mr. Porter to close the account, and to submit the present estimate as being entirely for improvement.

5. Since seeing the advantage of this channel, I think it would be as well to raise the calingulah of the tank another foot, but I see no necessity for raising the bund.

From the Acting Assistant Engineer, Bellary, to the Superintending Engineer, 3rd Division, dated Bellary, 25th May 1866, No. 42.

As requested in your Memorandum of the 13th December 1865, appended to Proceedings Madras Government, Public Works Department, No. 3,725, of the 8th idem, I beg to report that heavy rain fell in the night of the 1st instant, and filled the new tank near the Native Infantry Lines to within six inches of the level of the calingulah; not any of the water, however, passed down the channel from this tank to the guntah, as there yet remains about 10 yards of rock blasting to be done, which rock acted as a wall across the channel; this however is no cause of regret as the guntah was nearly filled by surface drainage passing down the nullahs that fall into it. Neither can I see that the utility of this new tank will consist in its supplying the old guntah; they are both within a few hundred yards of each other, and if sufficient rain falls to fill one, the other will also get a supply. The new tank bund has, however, been of some use in keeping back water, which but for it would have passed down the nullahs and have been carried away from Bellary on, through the country, but which owing to the completion of the branch channel to the Fort ditch has been conveyed into this last named reservoir. As for the channel, the sectional area of it is made so very small, that should any more rain fall now, that the tank is nearly full, the channel could not carry off all the water that would come into the tank, so possibly a great deal of water would escape over the calingulahs. I have forwarded an estimate to double its capacity; the present level of the calingulahs is two feet above the branch channel sluice floor; there cannot be any objection raising them another foot, which would give some

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thousands more cubic yards of water in the tank, to be afterwards carried into the Fort ditch. There is not any necessity to raise the bund, as in its present state it is two yards above the calingulah, and in some places two and a half yards, whilst the water spread is only 150 yards or less, and will be under 200 if the calingulahs are raised the one foot. The total expenditure incurred on this project has been for the tank bund Rs. 5,614 (raising)

Channel to Guntah 13,789 (included first construction of bund)
Channel to Fort ditch 2,291

Rs. 21,694 and would have been much more had

not Sapper labor been employed, and their working batta (lately) paid by the Military Department; a great portion of the heavy amount expended for the tank bund and channel to guntah might have been saved, if instead of crossing the low ground between the ruined tank and the guntah by a high bund, a catch-drain had been carried along the high land a few hundred yards nearer the hills. A drain of this description would also have been of more utility, as it would have intercepted the rain water as soon as it fell, and immediately have carried it on, either to guntah or Fort ditch, as might have been required; whereas now, there is a quantity of water stored in a deep pit which it is impossible to convey away, and which owing to porous soil will soon be absorbed and no benefit derived from it. I will see if it is possible by constructing a sluice in the tank bund to carry off the water to any of the other reservoirs in the Cantonment. A Statement is herewith forwarded, showing the actual quantities of all descriptions of work performed in these three works, which must be taken together as one project. The present condition of these works is as follows: The tank bund has in its entire length had an additional yard given to it, and for 400 feet near the west calingulah half yard more, the remaining length of the bund 2,000 feet had not this half yard given to it as the Superintending Engineer considered it was not required, and stopped the work.—(Vide G. O. No. 2,440 of 21st August 1865). The calingulahs in this bund have been raised half a yard only. The channel to guntah, some portion of rock about thirty feet yet remains at the same level as the calingulah, which it will be necessary to blast out and to lower to one foot below the present level of the calingulah.

2. The channel to Fort ditch has been completed as originally designed, its sluice floor has two feet of water in it when the tank is full, and will have three when the calingulahs are raised one foot more as is proposed.

Statement of work executed, and probable value of same at the rates prevailing.

New Tank Bund.			RS.	A.	P.
4,877½ Stone in chunam at 2 Annas per cubic foot	...	...	609	11	0
2,653 Revetment to bund with burnt stone at 1 Rupee per cubic yard	...	...	2,653	0	0
29,600 Earthwork at 4 Annas per cubic yard	...	...	7,400	0	0
53½ Rough stone to foot of Bund at 5 Annas per cubic yard	...	...	266	8	0
29,600 Tamping at 6 Pie per cubic yard	...	...	125	0	0
Sundries	...	...	11,854	3	0
			590	13	0
			12,445	0	0
Channel to Guntah.					
5,300 Earthwork at 3 Annas per cubic yard	...	...	993	12	0
796 Gravel excavation at 4 Annas do. do.	...	...	199	0	0
647 Rock blasting at 1 Rupee do. do.	...	...	647	0	0
66½ Do. do. softer at 12 Annas do. do.	...	...	49	14	0
Sundries	...	...	1,889	10	0
			90	6	0
			1,980	0	0
Total for both works which originally were only one project	...	...	14,425	0	0
300 Cubic yards burnt stone remaining	...	...	150	0	0
			14,575	0	0
Actual Expenditure	...	...	19,403	0	0
Excess	...	...	4,828	0	0

Proceedings of the Madras Government, Public Works Department.
18th June 1866.

N. B.—The excess of cost over value of work done is explained in 4th paragraph of Superintending Engineer's letter, No 201 of 1st April 1865, to Secretary to Government, Public Works Department, and letter No. 3,035, 26th April 1865, from Captain Fischer, R. E., also to Secretary to Government, Public Works Department.

The work executed to channel to Fort ditch has been agreeably to estimate prepared in April 1865 (Rupees 2,410: a few trifling works done excepted, and the unexpended balance of the estimate Rupees 150 would suffice, consequently this requires no comment.

BELLARY,
25th May 1866.

(Signed) W. PORTER,
Acting Assistant Engineer.

No. 373. ORDER THEREON, 18th June 1866, No. 1,902.

MILITARY WORKS, No. 24.

1. Communicated to the Military Department in continuation of the orders marginally noted.

Proceedings of Government, Public Works Department, Nos. 1 186, 2,154, 3,725, dated 2nd May, 26th July, and 8th December 1865.

2. The Government sanction the estimate of Rupees 200 for improving the branch supply channel to the tank

in the Fort ditch at Bellary, the outlay being met from the source mentioned by the Superintending Engineer.

3. Major Moberly will use his own discretion in determining the height to which the calingulah referred to in paragraph 5 should be raised.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Military Department.

" Superintending Engineer, 3rd Division, with one Letter and one Statement.
" Controller of Public Works Accounts.
" Accountant General.

Exd. S. T. Augustin.

No Work. **ABSTRACT ESTIMATE.** Military
 Bellary District.
 Improving the Channel and masonry works from the
 Jante near Natus Infy Lines to the Foot Ditch.

Quantities.	Description of Work.	Per.	Rate.	Amount.	Amount of each part.
	Widening the Head of the Channel from 3 ft to 6 and altering wing Walls.				
540	b. ft Stone in Channel	6 ft	1	36 4	
138	S. ft Pointing with Chumam	S. ft	1	2 1	
73	C. yds Earthwork	6 ft	1	13 11	
	Carriage of Materials			2 15 11	53
480	4. masonry Retaining Walls for side of Channel.				
40	b. ft Stone in Channel	6 ft	1	30	
	b. yds Brunt Stone Aprons	6 ft	1	40	
	Exp. connection for			5	45
666	Rebuilding & widening a Daid go				
150	b. ft Stone in Channel	6 ft	1	41 10	
9	S. ft Pointing	S. ft	1	2 4	
81	Plaks			9	
20	b. ft Missing Brunt Stone	6 ft	1	3	
	C. yds Earthwork			3 12	
152	Summies			3 12	
171	b. yds Reinforcement			152	63
	Earthwork			32 1	
	Summies			10 7	194
	Deduct Sapper Labour			386	
	Estimated Rupees			109	
	Deduct for Materials on work			277	
				77	
				200	

W. A. B. of Mysore
 S. Engineer
 Bangalore Range Officer
 May 18. May 1866

W. A. B.
 S. Engineer
 Bangalore Range Officer

No 301.

Super. Eng. Office;
Camp Ram and road
Jalgaon District
31st May 1866

From,

The Superintending Engineer
3^d Division.

To,

The Secretary to Government
P.P.O.

Sir,

With reference to the last Para of my
letter No 172 of 27th November 1865 I have the honor
to submit an original letter with enclosure from the
Asst. Assistant Engineer Bellary. I was not in
Bellary at the time the dam fell but went in about
ten days afterwards and can certify to the great benefit
derived from the Branch Channel to the Fort Ditch

2. A few days after the dam fell I received a
letter from Mr Porter stating that the branch Channel
to the Fort Ditch had been discharging water for 3 days
but owing to the nature of the soil (black cotton) and the
small section the discharge had been small. As the use of
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3. I inspected this Channel on the morning of
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present Estimate as being entirely for improvement

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Channel. I think it would be as well to raise the Calingah

1866-42-9 25th May
(to be returned)



1866-42-9 25th May

For Work & Structural Est.
mtd & Military.

With reference to the Channel
and masonry works from the
new dam near the station
Jalgaon District to the Fort
Ditch.

Estimated Rs. 277/-

C. 8m June 1866 D. 14

W. B. B. & Co.
Pro. of Court for Revue

1902
Pro. of the Marine Court
of 18. June 1866

2552/16

1866

1866