

- (1) Number of pages _____
(2) Date of repair _____
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3198	Press
B.P. No.		Mis. _____
Dated	28 - 11	C876 — 195 —

Not to be folded or roughly handled

No. 523. Read the following endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 21st November 1876, No. 258 W.:-

BELLARY DISTRICT, PENNACONDAH RANGE.

Return of Tanks affecting Lines of Railway for the half-year ending 30th June 1876, prepared with reference to G.O., No. 3,210, dated 13th November 1875.

1	2	3	4	5	6	7	8	9		10	11		12		13	14
District.	Line of Railway.	Point at which Surplus crosses.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	LENGTH OF EXISTING CALINGULAH AND STAPLES WEIRS.		Additional Length of Surplus Weir required.	HEIGHT OF TOP OF BEND ABOVE		APPROXIMATE		Special Remarks.	General Remarks.
								Total.	Effective.		Weir Crest.	Top of Dam	Area of Tanks.	Capacity when full.		
								FT.	FT.	FT.	FT.	FT.	SQ. FT.	C. YDS.		
Bellary.	North-west Line.	Not known.	Bookapattam tank.	560	38,215	INS.	2,189	1,567	1,567	622	6	..	167,270,400	23,232,000		Government. One of the largest tanks in the district. The bund is built across the Chitravathi river and between hills; these hills being a substitute for portions of the bund. From east to west extremity the length is 3½ miles. The bund is revetted in front throughout; a portion of rear slope is also revetted. The transverse section of bund is strong. In some few places the revetment requires rebuilding, and which is provided for in estimate already sanctioned. The tank breached in October 1874 at No. 2 calingulah owing to the wing wall being of rough stone. No. 1 calingulah was undermined for half its length, and was only held together by cohesion; it was built on a rough stone apron and had no foundation. The damages have now been repaired in a substantial manner and further repairs and improvements are in progress. The extra calingulah required can be constructed at the east end of bund. Estimates are under preparation. Cin column 6=562.5. Country undulating and portion of gathering grounds amongst hills. C in column 8=628 considered safest to adopt. The greatest height to which water has been known to rise above crest of calingulah is 3½ feet which was in October 1874.

Return of Tanks affecting Lines of Railway for the half-year ending 30th June 1876, &c.—(Continued).

Proceedings of the Madras Government, Public Works Department,
28th November 1876. No. 3,193.

Return of Tanks affecting Lines of Railway for the half-year ending																	
District.	Line of Railway.	Point at which Surplus crosses.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Calingulahs and Surplus Weirs.		Additional Length of Surplus Weir required.	Height of Top of Bund Above Weir Crest.		Approximate Capacity when full.		Special Remarks.	General Remarks.	
								Total.	Effective.		Top of Dam.	Top of Full.	Area of Tanks.	C. YD.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	MR. CHS.		Dharmavaram tank.	740	46,018	36	2,636	FT. 1,492	FT. 1,144	FT. 6	125,452,800	14,664,038					C in column 6 = 562.5. Country undulating and portions of gathering grounds among hills. C in column 8 = 628 considered safest height to adopt. The greatest height to which water has been known to rise above crest of calingulah is 3 feet, but it is believed the tank breached before it attained its maximum in October 1864. The maximum water marks then showed 2½ feet.
			Geolloor tank	180	17,933	36	1,027	600	800	227	*6	25,200,000	2,368,200				C in column 6 = 562.5. Country undulating and portions of gathering grounds being amongst hills. C in column 8 = 628 is considered safest to adopt. No reliable information can be obtained as to height to which water rose. The villagers state that the calingulah discharged with 2 feet head, but there has not been a very heavy rainfall since its restoration.

Proceedings of the Madras Government, Public Works Department,
28th November 1876. No. 3,193.

reliable information can be obtained as to height to which water rose. The villagers state that the calingulah discharged with 2 feet head, but there has not been a very heavy rainfall since its restoration.

verse section is good, but the earth used is of inferior description, being composed of black cotton soil and sandstone. The front revetment was badly constructed. The greater portion of the revetment of this tank has been reconstructed and backed with gravel and puddle. The reconstruction, &c., of the remaining portions is almost completed. The body walls of north and south calingulahs have been lowered, but that of north calingulah will be restored when the bund is thoroughly settled. The extra length of surplus weir required may be provided in a new weir to be constructed between the two existing ones nearer to the south end of the bank where a natural formation of the ground will be taken advantage of. Estimates are under preparation.

* The body wall has been removed, and it is now 9 feet below top of bund, but as it is again to be restored when bund settles, the intended height of 6 feet is shown.

(Signed) W. LEGGATT, A.I.C.E.,
Offg. District Engineer.

BELLARY,
7th August 1876.

Proceedings of the Madras Government, Public Works Department,
28th November 1876. No. 3,193.

SUBMITTED to Government.

(Signed) A. DE C. SCOTT, Major, R.E.,
Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

No. 524. ORDER THEREON, 28th November 1876, No. 3,193.

IRRIGATION, No. 45-A.

ORDERED to be recorded.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

No 258-W.

Return of Tanks affecting lines
of Railway, Bellary District, for the
half-year ending 31 June 1876

Encls 1

Submitted to Government

Fort Saint George
21 November 1876

Major D.C.
Dy Chief Engineer for Irrigation
for Chief Eng for Irrigation

To
The Secretary to Government
Public Works Department

Edk-4-76ko 883.

1876.

From
The Chief Eng: for Irrigation

P.W.D.

22 NOV 76

NR 8475

Dated 21st } Nov. 1876
Desp. 22 }

Enclod.

No. 258-IV.

Trans. affecting Railways—
Penuacoudah Range, Bellary
District— Submits Return
of — for half year ending
30 June 1876.

NR 523.

Form No. 22.

No 3190

Public Works Department.

PROCEEDINGS of the MADRAS GOVERNMENT.

UNDER date the 28 Nov 76

Read the following:—

From the Chief Eng for Irrig (H.E. No 258 W 2721 Nov 76)

Ordered to be recorded.

Amel
M. 22/11

Dr Bellary — 5
Chd. for Irrig. — with one Enclosure
CR for Rys — 21
Revenue Dept. — 21

Despd - 11-12-76

C. No. 8475

Chibi. of 1876: Indian.
PUBLIC WORKS.

To

The N. E. Bellary

Dated

Issued

Book

Doc.

G. O. 28th Nov 1876, No. 3198

Nov. 5 23

Trucks affecting Railways in the
Pennamondah Range, Bellary
Dist. — The Return of —
Recorded.

But in Reg.