Q.C. No 2964 W. 1.12.84
No 1413 D. 16.6.85 No 1488 E.
D. No 1547 W. 2.7.85 D 14.8.85
" 1652 W. 15.7.85 No 1622. 15.8.85
No 1265 E. 23.7.85 " 5018 22.8.85
" 3938. 31.7.85 " 5056. 24.8.85
" 4112 E. 5.8.85 " 5206. 25.8.85
" 4228. 7.8.85 " 1538 E. 22.9.85
" 4348 11.8.85

Communicates to the Military Dept, for information, with advertence to its endorsement No 4611 dated 20th August 1885, and previous correspondence -

Att
Oct. 16. 1885

20.10.85

To The Military Dept.

Dated 24.10.85
Rec'd 22/10.
Impress 16.10.85

From (6) No 4936

The Supdg Engineer
3rd Circle

To The Chief Engineer
P.W.D.
Madras

Dated 10th October/85
Rec'd 13
(1 Diagram)

No 250 dtd Oct 23/85

No 1453

Pipes sinking operations in the Large Well in the Cantonment of Bellary

Submitting a copy of letter from the Executive Engineer Bellary Division about the close of —.

PROCEEDINGS OF THE BOARD OF REVENUE.

Read—the following letter from C. A. GALTON, Esq., Acting Collector of Bellary, to the Secretary to the Board of Revenue, dated 21st August 1885, No. 3019 :—

I have the honor to submit herewith Compensation Statements, Nos. 1 and 2, for the half-year ending 30th June 1885.

Statement No. I.—The extent of land which remained to be transferred at the end of the previous half-year to the department which applied for it was 1 acre and 79 cents. This has been transferred during the half-year under report. No applications were received for fresh lands during the latter half-year.

Statement No. II.—There were three cases (the total extent relating to them was 25 acres and 47 cents *) pending at the end of the previous half-year. Ten cases, covering 4 acres and 22 cents, were added during the half-year under report, being claims to compensation for lands taken up. Thus, there were in all thirteen cases, covering 29 acres and 68 cents. Nine cases, covering 27 acres and 25 cents, were disposed of. As regards the still pending cases, explanation has been furnished in the column of remarks in the statement.

* Corrected into 46 cents in the statement.

Enclosures Nos. 1 and 2.—Compensation Statements.

Resolution—dated 31st August 1885, No. 2520.

Submitted for the information of Government.

2. In the first three cases in Statement No. II, land is said to have been taken possession of before any application was made to the Revenue Department.

(A true Copy and Extract.)

(Signed) F. A. NICHOLSON,
Acting Secretary.

To the Secretary to Government, Revenue Department,
with two Compensation Statements, to be returned.
„ Collector of Bellary.

Exd. A. Raitt.

REVENUE DEPARTMENT.

1885.

Board of Revenue,

MADRAS.

Printed September 9th.

Proceedings, 31*st August* 1885, *No.* 2520.

Bk 2508 W 7 23/10/85

Submitting to Government statements of *Compensation* for the half-year ending 30th June 1885, received from the Collector of Bellary.

1ST DECEMBER 1884, No. 2964 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads,
Civil Works.

READ—the following paper :—

G.O., dated 22nd November 1884, No. 1291, Revenue.

Read—the following Proceedings of the Board of Revenue, dated 13th November 1884, Mis. No. 10666 :—

ABSTRACT.—Submitting to Government, with remarks, letter from the Collector of Anantapur reporting on prospect of season, condition of people, &c., in Gooty division.

Order—dated 22nd November 1884, No. 1291, Revenue.

His Excellency the Governor in Council regrets to receive so unfavorable an account of the condition of crops and agricultural prospects in the taluks of Gooty and Tadpatri. He approves generally of the orders of the Board. The extent of the relief to be afforded in the way of remissions will of course not be determined by the Board until the prospects of the season are finally known and detailed proposals are received from the Collector for the whole district.

2. The Government also sanction from Provincial Funds an allotment of Rs. 5,000 for the present for the clearing of wells and the improvement of the water-supply. If the amount proves insufficient the Collector may, later on, apply for an additional allotment. The Government consider that a portion of the expenditure on the improvement of water-supply is fairly chargeable to Local Funds. The Collector will report what amount the Local Board is prepared to contribute for the purpose.

3. Arrangements will be made in the Public Works Department to send at once to the Anantapur district some parties of sappers equipped with boring tools, in view to trial of sites suitable for sinking wells being made. Arrangements will also be made in that department to expedite the marking out of the railway, so that employment for the laboring classes may be ready if wanted.

(True Extract.)

(Signed) H. E. STOKES,
Secretary to Government.

To the Public Works Department.

ORDER—dated 1st December 1884, No. 2964 W., Public Works.

Communicated to the Superintending Engineer, III Circle.

2. The first portion of paragraph 3 of these orders will be referred to the Military Department, in view to arrangements being made for detaching, to the Anantapur district, three parties of sappers of the necessary strength for the purpose specified.

3. The sappers will work under the orders of the Executive Engineer, Bellary division, who will, in communication with the Revenue authorities of the Anantapur district, point out the places in which trial borings are to be made.

4. The requisite boring tools will be supplied from the Public Works Stores. The General Superintendent will arrange to have the apparatus ready and complete for issue as soon as possible.

5. Further orders will issue in the Railway Branch in respect to the concluding portion of paragraph 3.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, III Circle.
" " " V "
" Military Department.
" Public Works Department, Railway Branch.
" Revenue Department.

Exd. C. Howarth.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated December, 1st.

Recd. *Encl.*

G.O., 1st Dec 1884, No. 2964 W.

DECEMBER.

Wells

Issuing instructions for the employment of sappers in sinking — in the Anantapur district and for supply of necessary boring tools, and stating that orders will issue in the Railway Branch for marking out the proposed line of railway for employing the laboring classes.

relative the "Large Well"
and the "Dip Wells."
5. The estimate has been
countersigned by the
D.G. Jr. Mr. General; and
has been approved in
the Mily. Department.
It has yet to be submitted
to S.E.III.

11th June/85
BH

"will be made use of, for
supporting the former."
4. Subject to approval, the
estimate has not been
well prepared. — It is
altogether unsatisfactory.
The details are not clear.
If, as stated in the report, the
piping is to be laid in the
existing masonry duct where
lies the necessity for the item
'earthwork' – 3,500 ft. × 3 ft. × 2 ft.?
The duct is to be recovered
with slab stones and the
piping is to be set in it in
a concrete bedding, does
not then the filling in of
the trench with earth
appear a mistake? —
If necessary, the concrete
might be increased. —
The report is vague and
does not afford sufficient
information. — Nothing
of the past history of the
work is given; nor are
satisfactory references made.
No explanation is given

— Note. — It cannot be with a
view to keep the water
cool as the duct leads
from well to well — from
"Large" to "Dips".
BH

16.10.83 3/11.

1885.

P. W. DEPARTMENT.

Current No. 4985

From

The Military Dept

ENCLOS.—3

No. 2967

Dated 2-6-85

Received 5-6-85

SUBJECT.

Approving and transmitting for disposal letter from the Quarter-Master-Genl forwarding for sanction Estimate for laying 3" Iron Piping from the Artesian well to the dispensary at the B. I. barracks at Bellary.

No. 1413 Dy 16 June

Forwarded to the Supg Engineer III Circle for Countersignature to the Estimate, if approved.

(B.O.)

7-8-85

Sec'y to G.

16.10.85

Public Works Department, 1885-86.

Current No. 4985

Letter No. 2967

Dated the 2nd June/85

From the Secy to Govt Military Dept.

NOTE OF REMARKS.

1. The accompanying is an estimate for laying down iron piping between the "Large Well" and the "Barrack Dip Wells" at Bellary. The amount of the estimate is Rs. 5,350.

2. The iron piping is to be 3,600 feet in length and 3 inches in diameter. It is to be purchased from the Madras Municipality.

3. The report states that:- "Owing to the unaccountable loss in the supply of water between the main source or large well and the terminal wells, it is proposed to substitute 3" diameter Iron Piping for the existing Masonry Duct, which latter

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
Estimate for laying Down Iron Piping 3" Diar between Large Well and the Barrack Dip wells						
Iron Piping 3" diar Rft					3600	
Concrete Bedding for - Do -	1	3600	6	6	900	
Total cft						900
Earthwork	1	3600	3	2	21600	
Total cft						21600
Replacing Slab Stone Covering	1	3600			3600	
Total Rft						3600
Masonry Cistern near the large Well	1					1

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount.	Total.
		Rs.		Rs.	Rs.
Ep 304 E	Estimate for laying down Iron Piping 3" Diaz between the Large Well and the Barrack Dip Wells				
3600	Rft. Iron Piping 3" Diameter inclusive of all charges	1-4-0	Rft.	4500	
900	Units Concrete	12-8-0	100 cft	112	
3600	Rft. Replacing Slab Stones			50	
21600	Units Refilling Trench (Earthwork)	4-8-0	1000 cft	97	
1	No Masonry Cistern	V.A.		50	
	Total				4809
	Contingencies @	5-0-0	Cent		241
	Supervision for 3 months One Mechanic & two Assistants	100-0-0	Month		300
					5350

Approved
(By order)
W. J. Sudlow Major
Dy: Quarter Mr: General
for Quarter Mr: General
29/5/65

W. Henderson Colonel
Commanding Edrd Districts

Grand Total of Estimate .. 5350

Station Ramandroog
Dated 3rd April 1865

Geo. Nicol Major R.E.
Executive Engineer.

Reference to Madras P. W. D. Code.

Paras. 1074, 1075, 1086, 1087, 1091 to 1094, 1108, 1111 to 1114, 1130 and 1145 to 1147.

P. W. D Form. No. M. 207.

Circle—

Division—

ESTIMATE FORM.—Abstract.

(To accompany the Detailed Estimate No. of 188 -8 for* _____

*Here enter the name and description of work in full.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount.	Total.
		Rs.		Rs.	Rs.
	Estimate for laying down Iron Piping 3" Diar between Large Well and the Barrack Dip Wells				
3600	Rft. Iron Piping 3" diameter inclusive of all charges	1-4-	Rft.	4500	
900	Units Concrete	12-8-	100 cft.	112	
3600	Rft. Replacing Slab Stones			50	
21600	Units Refilling Trench (Earthwork)	4-8-0	1000 cft.	97	
1	No. Masonry Cistern			50	
	Total				4809
	Contingencies @	5-	Cent		241
	Supervision for 3 months	100-	Month		300
				Grand Total of Estimate ..	5350

Station Kumudroog

Dated May 1st 85

Executive Engineer.

REFERENCE TO MADRAS P. W. D. CODE.

PARAS. 1074, 1075, 1086, 1087, 1091 TO 1094, 1108, 1111 TO 1114, 1130 AND 1145 TO 1147.

P. W. D FORM. No. M 207.

CIRCLE—

DIVISION—

ESTIMATE FORM.—Abstract.

(To accompany the Detailed Estimate No. of 188 -8 for *_____.)

3
Dr Jua
4985/5
5540

* Here enter the name and description of work in full.

Report.

Owing to the unaccountable loss in the supply of water, between the Main Source or large well and the terminal wells, it is proposed to substitute 3" diameter Iron Piping for the existing Masonry Duct, which latter will be made use of, for supporting the former. In case the Iron Piping cannot be set rigidly in the duct, it is intended to add a small quantity of Concrete in the concavity of the same. to form a firmer bedding—
The old Slab Stone covering is to be reutilized, as a protection to the Iron Piping and the Trenches will be refilled as before—
The Iron Piping is to be purchased from the Madras Municipality who have offered to provide the same, at the most reasonable rate per Rft—The intrinsic cost of the Iron Piping is necessarily enhanced by the Railway Charges.

The rate now entered, will it is considered be sufficient to cover all charges, but as no work of this description has been carried out before in Bellary, this Estimate can only be regarded as an approximate one——

J. Stevens Major R.E.
Executive Engineer
Bellary Ds

30-4-85

Estimate No. _____ of 1885-86.

Financial Head— Imperial ordinary

Service Budget Head— Military

Departmental Head— Original Works

Main Head— Gl. Cantonment Works

Sub-Head— —"—

Project of which the work forms part—

Section— Bellary Cantonment

Name of Work— Laying down Iron Piping 3" diar. between Large well and the Barrack Dip Wells.

Amount of Estimate— 5350 —0—0

To be carried out by— P.W.D.

REFERENCES.

Deputy Assistant Qr. Master Gl. No. 450 of 8th April 1885

+Not received D.P. 5-6-85-

Ref 1068 of 1885

REFERENCE TO MADRAS P. W. D. CODE.

PARAS. 1074 TO 1076.

P. W. D. FORM.
No. M 203.

III CIRCLE.

DIVISION— Bellary.

TALUK— Bellary Cantonment

ESTIMATE FORM—Wrapper or Outer-sheet.

Estimate for* Laying Down Iron Piping 3" dia. between Large Well and the Barrack Dep. Wells

Amount of Estimate, Rs. 5350-0-0

Detailed Estimate, No. ____ of 1885-86.

No 30 of 85

* Here enter name and description of work in full.

QUARTERMASTER-GENERAL'S OFFICE,

Ootacamund, 29th May 1885.

Barracks and Buildings
Estimates.

No. 1212 B.

From

THE QUARTERMASTER-GENERAL,

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT.

SIR,

I HAVE the honor, by order, to forward for sanction and transfer to the Public Works Department for disposal, the estimate, ~~plan~~, &c., below-mentioned which ~~have~~ has been approved by the Commander-in-Chief. The ~~plan and~~ estimate ~~have~~ has been countersigned.

I. Estimate amounting to Rs: 5350 for laying 3 inch iron piping from the Artesian Well to the dip wells near the British Infantry Barracks at Bellary.

II. Report dated 20th April 1885 by the Executive Engineer Bellary Division

I have the honor to be
Sir.
Your obedient Servant

D. J. McLeod Major
Dy: Quarter Mr: General.
For Quarter Mr: General.

Paid

III R.E. Rlo 187 W5
1885/6.

SECRETARY TO GOVERNMENT
2 JUN 85
MADRAS

No 2967 Approved and transferred to the Public Works Department for disposal.

(By order)

A Kennedy Herbert Lieut-Col
Offg Secy to Government

Postd amund 2 June 1885
Chepauk 16th June/85

No. 1413 D
Forwarded to the Supg Engineer III Circle for countersignature of estimate if approved

(By order)

C. Moore Major RE
Under Secretary to Govt
PWD

W.S. 4/6.

July: 1885 Dept:

No: 3090 Rec'd 4985 5340/85

From

The D: Mr: Genl

To The Secy: to Govt:
July: dept:

Dy 29th } May
Ry 30 }

Rec'd 5/6/85

Encl:— 3

No: 1212 B.

Forwards for sanction & transfer to the D: P.W. an Estimate (Rs: 5350) for laying 3" iron pipe from the Artesian Well to the disp wells near the Bll: Duty: Bks: at Bellary.

No. 1547 Wa 2-7-85

W.S. 2-6-85

No. 656.

SUPERINTENDING ENGINEER'S OFFICE,
Bellary ~~MADRAS~~,
~~Chepauk~~, 25th June 1885.

From Lt Col A. Mr. Gibbart R.E.
THE SUPERINTENDING ENGINEER,
3d ~~1st~~ CIRCLE,

To
THE Chief Engineer
P.W.D
Madras

SIR,

Enclosures.

1 Orig Endt

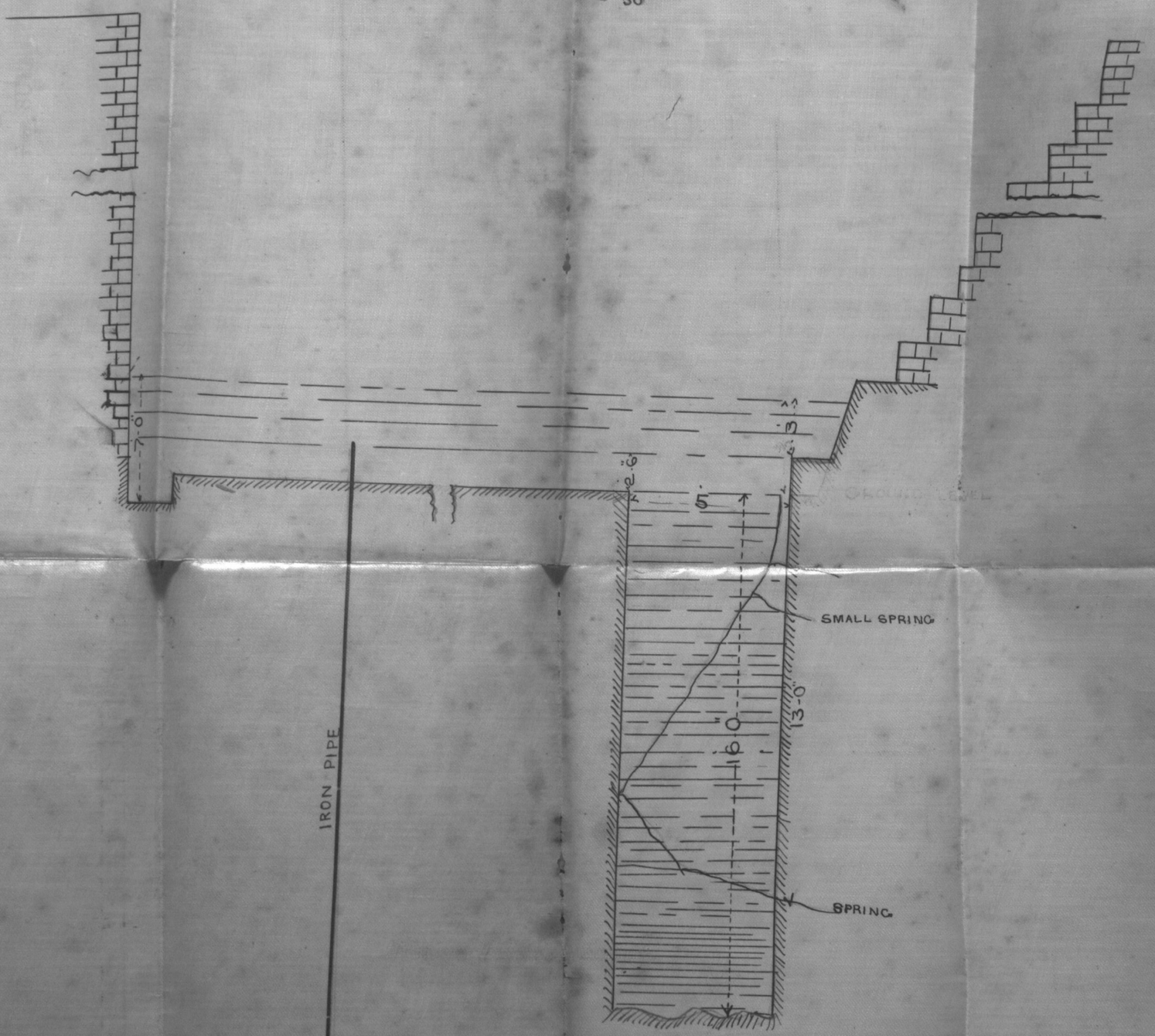
With reference to your Endorsement No. 1413 D dated 16th June/85, I have the honor to report that the masonry Duct has been put in good order, in order to ascertain, before incurring the heavy outlay now proposed for iron piping, whether the Duct would still continue to absorb any large quantity of water.

2 Under these circumstances there appears to be no necessity for the work at any rate for the present.

16.10.85 3/11.

SECTION OF LARGE WELL

SCALE $\frac{1}{50}$



EXEC: ENGRS OFFICE BELLARY
7TH OCTOBER 1885

MAJOR R.E.
EXEC: ENGINEER.

3. My opinion was intimated to the Military Authorities when the estimate was forwarded to them.

* for iron piping.

I have the honor to be
Sir
Your Most Obedt Servant
Henry Robert Lt R.E
Supdg Engineer
3rd Circle

No 1413 D. 16-6-83

The work may stand over
to the present. — CS.
24.6.85

No. 1547 Way 2nd July/85

B

In the circumstances
reported by the S.E.
orders on the foregoing
correspondence will
be deferred pending
the receipt of a report
on the efficiency of the
repaired duct.

CS.
25.6.85

CS.
24.6.85

B.R./57
S.E. III Cir.
Exec. Engr. Desptd
3/7/85

Accs. 12076.
16.6.83 R. 1.7.85

From

The Superintending Engineer,

III ~~1st~~ Circle,

To

The Chief Engr.
P.W.D.
Madras.

Dated 23rd June 1885.
Recd. 24

Enclosures. 4

No. 1547 Way 2-7-85

No. 656

"Laying Iron piping of 3" from the Artesian Well to the dip wells near the British Infantry Barracks Bellary"

Reporting that the work of ~~1~~ is of no necessity for the present. for the reasons assigned

SUPERINTENDING ENGINEER'S OFFICE,

No. 762. ~~Madras~~, Bellary Chepauk, 7 July 1885.

From Lt. Col. H. H. Vibart R.E.

~~The~~ SUPERINTENDING ENGINEER,

~~1st~~ CIRCLE,

To

THE Chief Engineer

P.W.D.

Madras.

SIR,

Enclosures.

With reference to G.O. No. 1547 W. of 2nd July 1885. I have the honor to report that the Executive Engineer to satisfy himself tried a few days ago the experiment of measuring the actual quantity of water received by one of the Dip wells from a measured quantity of water tipped into the Duct at the Source (Large well). The result was satisfactory for out of 190 Gallons let down only 15 Gallons were lost or left behind in the long masonry Conduit.

I have the honor to be
Sir
Your most obedt. Servt.

H. H. Vibart Lt. Col. R.E.
Superintending Engineer
1st Circle

16.10.83 W. Thomson

Nº 1413 D. 16.6.85
Nº 1547 W. 2.7.85

B
17/15/7

From (25) Rec'd 5969

The Superintending Engineer,

3rd ~~1st~~ Circle,

To

The Chief Engineer
P.W.D
Madras

Dated 7th } July 1885.
Recd. 8 }

ENCLOSURES.

Nº 1651 W dt. 15th July 1885

No. 767.

Laying 3 inch iron piping from the Artesian well to the dip wells near the British Infantry Barracks at Bellary.

Reporting the satisfactory result attending on [illegible]:

B Nº 1651 W dt. 15th July 1885

In the circumstances now reported, the Govt in this Dept: are of opinion that no necessity exists for replacing the masonry duct referred to by iron piping as proposed.

2 The estimate received from the Military Dept with their endorsement Nº 2967 dt. 2nd June 1885 will be lodged in this office.

CS.

8.7.85
S.E. III Circle
Mily Dept.

Nº 1651 W dt 15.7.85
Nº 1547 W dt 2-7-85
Nº 1413 D dt 16-6-85

16.10.85

Former Papers.

REQUESTED TO BE RETURNED WITH REPLY.

No 4275 Referred to the Public Works Department with reference to that Department No. 393. C. dated 31st July 1885.

(Byrnes)

A Kennerstenbert Lieut Coll Offg Secy. to Government.

Date received 5 August 1885

No.

MILITARY (1885) DEPARTMENT.

No. 4579

Telephonic Message

From

The Dr. Insp. Genl.

No. 4275

Dated 4 Augt

Recd. 5-

Registered

ENCLOSURES.

P.G., No. , dated

Enquiring what must be the strength of the party of sappers reqd. for sinking a pipe in artesian well, Bellary

No. 412 Ed. 5th August 5th 1885 P. W.D.

Telegram

To The S. E. III Circle

Bellary

Your 882 of twenty-third July.

What must be strength of party Sappers for sinking well.

Wire reply urgent.

5.8.85

Dlg. despd 5/8/85

Cy.

No 1651 W dt/ 15.7.85.
" 2964 W dt/ 1.12.84.
" 1413 E dt/ 16.6.85
" 1547 W dt/ 2.7.85.
" 393 E dt/ 31.7.85

No 412 E dt/ August 5. 1885

State - urgent. Post copy of a Telegram dated 7th Augt. 1885

From.

The Superintending Engineer
III Circle

To,

Madras Works.

Observations.

25 Sappers will suffice for sinking well.

/Signed/ H. M. Vibart - Lt-Col RE
Superintending Engineer

Assistant Adjutant - Lt-Col RE
Superintending Engineer
III Circle
8/8/85

To,

The Chief Engineer
MD.

1885.

P. W. DEPARTMENT.

Telegram Current No. G031 (for 8/85

From

The Supty: Engr: III Circle

ENCLOSURES.

No.

Dated 7th August } 1885.

Received

SUBJECT.

stating that 25 Sappers will suffice for sinking an artesian well in Bellary Canton-ment

DISPOSAL.

No. 422 E, dated 7th August 1885.

Forwarded to the Dy: Supt: with advertence to its endorsement No. 427 d/5th August 85, enclosure of which is returned herewith

Sgd. J. L. S. W.

8/8/85

SUPERINTENDING ENGINEER'S OFFICE,

~~MADRAS~~,

No. 882 Bellary ~~Chepauk~~, 23 July 1885.

From Lt Col H. Du. Vibart R.E

THE SUPERINTENDING ENGINEER,

3d ~~1st~~ CIRCLE,

To

THE Chief Engineer

P.W.D

Madras

SIR,

Enclosures.

1 Copy of letter from the Dy Asst Qr Mr Genl

I have the honor to forward a copy of letter from the Deputy Assistant Quartermaster General Ceded Districts, addressed to the Executive Engineer on the subject of the diminution of the Water supply in the Artesian well and to request that application may be made for a party of the Queens Own Sappers being sent from Bangalore for sinking another iron pipe. It would be well if the party was accompanied by

16.10-85 3/14. W. Thacker

by a Subaltern Engineer Officer.

2. The pipe now in coexistence was sunk by Sappers some years ago under the direction of General Fischer R.E and I do not think that such work could possibly be executed by the ordinary class of workmen procurable at this station.

3. It would be simple waste of time to attempt again to clear out the existing pipe as all former efforts have proved unavailing.

I have the honor to be
Sir
Your most obed.t Servant
Lieut.t Colonel Lt Hobler R.E
Superintending Engineer
3.d Circle

Copy of letter No. 817 S/ Bellary 15 July/85 from the Dy Asst.t Quartermaster General Ceded Districts to the Executive Engineer Bellary Division.

I have been directed by the Brig.r General Commanding, to communicate with you on the subject of the diminution in the supply of water from the Artesian Well.

2. About the month of August/84, the strain on this source of supply was relieved by obtaining drinking water for the men of R/11.th B.de Royal Artillery from the well in the Officers compound and in January/85 the number of mules drawn daily was reduced from 200 to about 110 to 120. Later on still further relief was given by the occupation of the droog by 150 men and still later the large wastage in the duct was obviated by carrying the water direct from the source and closing the duct.

3. The above measures were so far successful that the well was able all through the hot season to supply drinking water in sufficient quantity to the European

Infantry Regiment; but I regret to say that, since the return of the last Ramandrug Detachment and more particularly since the pre-adoption of the Masonry channel, the supply has, at first gradually, but later more rapidly diminished, until as at present, the well is dried by the morning drawing.

4. It is of course possible that the supply may fail from causes which we do not know or knowing could not remedy, but it will be in your recollection that early 1888, the supply becoming small, after careful consideration and personal inspection on my part and probably on yours also, we came to the conclusion that the main source of supply was through the pipe which had unfortunately been allowed to become choked with stones which had been thrown in before the cap which then covered the pipe had been put on.

5. As the result of the above some 15 to 20 feet of the pipe were cleared with marked benefit on the flow of water when

owing, I believe to the expenditure of all suitable tools available here, the work of clearing out was stopped.

6. In the present crisis the Brigr General thinks it would be highly advisable to examine the pipe with a view to having it cleared out for its whole depth, if such an operation be possible or failing that, to sink another pipe at the bottom.

7. I am to request the favour of your early and best attention to this matter, as it is a subject upon which General Gibb is naturally anxious.

—

Alex Gen Abbott Lt Col R.E
Superintending Engineer 3rd Circle

23/7/88

B 4285

In 14132 · 16 · 6 · 85
B for 16574 · 15 · 7 · 85
In 12650 · 23 · 7 · 85
G.G. In 29644 · 1 · 12 · 84.

REQUESTED TO BE RETURNED WITH REPLY.

Ootacamund, July 31. 1885.

No. 393 E.

Referred to the Military Department, with request that the services of a party of Sappers, with a subaltern officer, may be made available, if possible, for the work in question.

W. Mansfield Colonel R.E.
31-7-85 Secretary to Govt. P.W.D.

Military Department
Ootacamund 3rd Augt 85

No. 4232 Referred to His Excellency the Commander-in-Chief
[By Order]
A. Keane Herbert Lt Col
A.G. 89/7 officiating to Govt
a. 28-7-85 To the Qr. Mr. Genl

From July 1885 R.E.
The Superintending Engineer,
No. 3rd 1st Circle,
To From the P.W.D.
The Chief Engineer
P.W.D
Madras
No 393 E

Dated 23rd July 1885.
Recd. 24

R/31 July
R/31
I.E.

ENCLOSURES.

No. 434 Ed Augt 11. 1885

No. 882

Artesian Well in the Bellary Cantonment.

Requesting to apply for a party of the Queens own Sappers from Bangalore for sinking another pipe in the [illegible] owing to the diminishing of water supply in it. Referred

Movements.

Water supply.

QUARTERMASTER-GENERAL'S OFFICE,
Ootacamund,
8th August 1885.

No. 2553. A.

From

THE QUARTERMASTER-GENERAL,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

SIR,

In returning as requested the papers received under Reference Order No: 4232 of 3rd instant, I have the honor, by order, to state for the information of Government that instructions have been issued for the despatch to Bellary of 1 Subaltern and 25 Rank and file of Queen's Own Sappers and Miners from Bangalore for the purpose of sinking another pipe in the Artesian well at Bellary.

I have the honor to be
Sir
Your obedient Servant

W. Stewart Brig. Genl.
Quarter Master Genl.

16. 10. 85 3/14.

11 AUG 85
DEPARTMENT

No. 4606 Transferred to the Pub. Works Dept. and the referred papers returned.

(By order)

A Keane Herbert Lt Col.
Offg. Secy to Govt.

10 Aug 85.

No. 2964 W dd/ 1. 12. 84.
" 1413 B dd/ 16. 6. 85
" 1547 W dd/ 2. 7. 85
" 1651 W dd/ 15. 7. 85
" 1265 C dd/ 23. 7. 85
" 393 E dd/ 31. 7. 85
" 412 E dd/ 5. 8. 85
" 422 E dd/ 7. 8. 85.

Ans. 39/8.

Military (1885) Department.

No. 4687

From The Quartermaster-General,

To The Secretary to Government,
Military Department.

No. 2553. A.

Dated 8th } August.
Recd. 9. }

No. 434 Ed/ Augt 11th 1885.

Enclosures. 2

Stating that instructions have been issued for the despatch to Bellary of certain officers &c. for sinking artesian wells there.

Papers

No. 434 Ed/ August 11. 1885 P. W. D.

Telegram.

To the Supdt Engr III Circle
Bellary

Yours seventh.
Orders issued for
despatch to Bellary
of Subaltern and 25
Sappers for sinking
Well.

11-8-85

Telegram desp. 11/8/85.

1

Ch

14. 10. 85 7/14.

No 434 Ed/ Augt 11. 1885

Class INDIAN TELEGRAPH. Local No.

To (Station) Cyclops From (Station) Bombay Castle

Words.	Day.	Hour.	Minute.	Official Instructions.
48	13	11		

To (Person) July Dept From (Person) G. R. G

1 Refg: to my No 2553
2 A. 8th inst- it
3 is ascertained that
4 no sapper Subaltern
5 is available to
6 accompany Party
7 to Bellary.

Recd from L. N. Sent to N.
At Hrs. Mts., By At Hrs. Mts., By
Date 13/8/85

Telegraph Master.

S. P. No 1000—G. T. Press—No. 240.—23-6-83.—100000

16.10-85 3/14

Former Papers.

MILITARY (1885) DEPARTMENT.

No. 4735

Telephonic Message

From

The Dy. Insr. Genl

No. called for

Dated 13 augt.

Recd. 13 ——

Registered

ENCLOSURES.

P.G., No. , dated

No 448 Ed/ August 14. 1885

Reports no Sapper Subaltern is available to accompany the party to Bellary for sinking a piece.

Papers

Transferred

Calcutta
13 augt: 1885

No 4453 Transferred to the Public Works Department, in continuation of Endy: No: 4406, dated 10 augt. 1885.

(By Order)

Asst Inspr Genl Lt: Col.
Offg: Secy: to Govt:

To the Public Works Dept.

No 2964 Wd/ 1. 12. 84
" 1413 Bd/ 16. 6. 85
" 1547 Wd/ 2. 7. 85
" 1651 Wd/ 15. 7. 85
" 1265 Cd/ 23. 7. 85
" 393 Ed No. 31. 7. 85
" 412 Ed/ 5. 8. 85
" 422 Ed/ 7. 8. 85
" 4334 Ed/ 8. 8. 85

No 448 Ed/ August 14. 1885

Memo

Endt: Mily Dept No 4453 J, 13. 8. 85

Copy forwarded to the S. S. III circle for information, in continuation of telegram of 11th Augt 1885.

The Dy Insr Genl has been requested to send a Euro. N.C. Officer with the party of Sappers, & the S.S. will arrange for a proper supervision of the Sapper men & their work.

13. 8. 85

Dept 14/8/85

With orders

Movements

Inquiry

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund,
13th August 1885.

No. 2620 a

From

THE QUARTER MASTER GENERAL,

To

THE Secretary to Government
Military Department.

SIR,

With reference to this Office letter No: 2553 A of 8th Instant I have the honor, by order, to state that the Services of a Subaltern Officer Queen's Own Sappers and Miners not being available instructions have been issued for the despatch of a European Commissioned Officer with the party of Sappers detailed for the purpose of Sinking another pipe in the Artesian Well at Bellary. —

2 Arrangements will be made for Camp Equipage &c for the party by the General Officer Commanding Bangalore Dn. in Communication with the General Officer Commanding Ceded Districts. —

I have the honor to be
Sir
Your obedt Servant,
Westward Brig. General
A. G.

No. 448 Ed/ Augt 14. 1885

16.10.85 3/14.

No 2964 W dy/1.12.84 No 393 Ed/31.7.85.
" 1413 " dy/16.6.85 " 412 Ed/5.8.85
" 1547 W dy/2.7.85 " 422 Ed/7.8.85
" 1651 W dy/15.7.85 " 434 Ed/1.8.85
" 1265 C dy/23.7.85 " 448 Ed/14.8.85.

14 AUG 85
SECRETARIAT

No. 4489 Transferred to the Public Works Dept in continuation of Mily Department No 4455 dated 13th August 1885.

(Byrne)

A Kennedy Herbert Lieut Col
Offg Secy to Government.

Ootacamund.
14th August 1885.

No 462 Ed/ Augt 15. 1885

Copy of the above forwarded to the S.E. III Circle, for information, in continuation of No 4488 of 14th instant.

(Sd) J.S.S.
W

Ays. 6/18. S.E. III circle

15/8/85

Recd 7249/85.
4763
14th July 1885 Despatch
No
From The Dy Gl General
To The Secy to Govt
M.D.
Dated 13/8
Recd 13 August
No: 2620 A

Stating that a European N.C. Officer will accompany the party of Sappers detailed to sink another pipe in the Artesian well at Bellary, in lieu of a Subaltern Officer whose services are not available. —

No 462 Ed/ Augt 15. 1885.

Withdrawal

QUARTERMASTER-GENERAL'S OFFICE,
Ootacamund,
19th August 1885.

Movements

No. 2687
A

From

THE QUARTERMASTER-GENERAL.

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

SIR,

+ Transf'd to P.W.D. No 4489 dy 14-8-85

In continuation of this Office No: 2620 A of 13th Instant, I have the honor, by order, to report for the information of Government that one European non Commissioned Officer and 25 Sappers left Bangalore for Bellary on the morning of the 18th Instant for duty in connection with the water supply at the latter station.

I have the honor to be,
Sir,
Your Obedient servant,

Rushworth Bngr. Genl.
Quarter master general.

16.10.85

2964 Wd/1.12.84
1413 Ed/16.6.85
1657 Wd/15.7.85
1265 Ed/23.7.85
3932 Ed/31.7.85
4112 Ed/5.8.85
4222 Ed/7.8.85
4342 Ed/11.8.85
4482 Ed/14.8.85
4622 Ed/15.8.85

No. 4611 Transferred to the Public Works Department, in continuation of Daily Department No 4489 dated 14th August 1885.

(Byrnes)

A Mennes Stenbec Lieut Col
Offg Secy to Government

Ord accd
20 August 1885

No 501 Ed/Augt 22nd 1885

Recorded

Ul.
21.8.85

Ord. 8878.

SECRETARY TO GOVERNMENT
21 AUG 85
MILITARY DEPARTMENT

Military (1885) Department.

No. 4883

From Colonel Scratchley Acting 7451/83.
THE QUARTERMASTER-GENERAL,

To 22/8
THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

No. 2687/A

Dated 19 August 1885
Recd. 19

No 501 Ed/Augt 22nd 1885

ENCLOSURES. Nil

Reports departure of one European Non Commissioned Officer & 25 Sappers for Bellary for duty in connection with the water supply at that Station.

With disposal
to Military

late

No 505 Ed/Augt 24. 1885 P.W.D.

To Chief S.E. III Circle Wynaad

Bellary

Telegram
despd 24/8

are taking
and appliances available
for well to be sunk
by Sappers.

Wire reply.

Ul.
24.8.85

Ur

26.10.83 13/11

new orders
to Military

C.A.W.

I see from the papers that a detachment of Sappers has been ordered to Bellary, is on their way there in fact — to sink an artesian well. I presume this refers to the additional tube well S.E. III recommended to be sunk at bottom of the hill at the station. Would you kindly send me the file on subject which is at Bellary — if W has no objection, I want to ascertain if the necessary tubing & appliances are available or if orders to supply them can been issued.

C.A.
22.4.'95

To D.W.

File submitted.

Nothing in the papers to show that tubing & apparatus are available at Bellary, but the reply to our telegram will tell.

The S.E. is probably arranging direct with the Workshops for what may be required.

C.A.
24.8.'95

P.S. Reply from S.E. III

To W

With advertence to the accy. note from D.W., the file will be sent to Madras with W's approval.

If the Supply Dept. had not arranged for the supply of the necessary appliances for sinking a second tube well, we should probably have heard from him on the subject before this —

If approved, the accy. telegram might be sent to the S.E., & if the reply be in the negative, it can be repeated to D.W., for issue of necessary orders.

24.8.'95

2964 W.d 1.12.84
1413 D d/16.6.85

has just come in (5.30 p.m.)
& is as follows —

"All appliances are available here for the Sappers" —

I retain the original as W has not yet seen it.

No further action would appear to be required, & the file is forwarded for perusal & favor of return —

Cn

24-8-85

Very good — file returned.

Cdr.
26.8

Do C.A.D.
26/8/85.

A.A.G. 22/8

No 505 Edf Aug 24. 1885 P.W.D.

To Rue S.E. III Circle Urgent

Bellary

Are tubing and appliances available for well to be sunk by Sappers.

Wire reply.

Cn

Telegram
despd 24/8

24.8.85

Cn

W.M.W. orders
W. Martin

26.10.85

No 2964 W dt/1.12.84
" 413 E dt/16.6.85
" 1547 W dt/2.7.85
" 1651 W dt/15.7.85
" 1265 C dt/23.7.85
" 393 E dt/31.7.85
" 412 E dt/5.8.85
" 422 E dt/7.8.85
" 434 E dt/11.8.85
" 448 E dt/14.8.85
" 462 E dt/15.8.85
" 501 E dt/22.8.85

No 505 E dt/Augt 24.1885.

INDIAN TELEGRAPH. Local No 927

From Bellary (Station) To Colaramund (Station)

Date 24/8 Hour 16 Minute 53 Official Instructions

From (Person) Madras Works Dep. Engr for Supdg Engr

1 All appliances
2 are available
3 here for the sappers
4
5
6
7
8
9
10
11
12
13
14
15
16

Sent to Colaramund At Hrs. Mts. By L. N.

Rcvd from Bellary At Hrs. Mts. By L. N.

Date 24/8/85

Telegraph Master

G. P. No 500 [illegible] No. 240—23-6-83.—100000

Post copy of a Telegram dated 24/8/85

From

Executive Engineer
for Supdg: Engineer Bellary

To

Madras Works.

Colaramund

All appliances are available here for the sappers.

(Signed) D.C. Clarke Major RE
Executive Engineer
for Supdg: Engineer
3rd Circle

Major RE
Executive Engineer
25/8/85. for Supdg: Engineer
3rd Circle

W/10
16.10.85

With orders

27 AUG 85
INDIAN TELEGRAPH DEPARTMENT

W. 520. E of 25 Augt. /85

With original

SUPERINTENDING ENGINEER'S OFFICE,

~~MADRAS~~,

No. 1237 Bellary ~~Chepauk~~, 15 Septr. 1885

From Lt. Col. H. M. Vibart RE

~~The~~ SUPERINTENDING ENGINEER,

~~III 1st~~ CIRCLE,

To

THE Chief Engineer

WRD

SIR,

Enclosures.

I have the honor to report the death from Cholera of two Sapper Privates Tullukanum and Anthony on the 9th and 10th Instant respectively.

Vide W. 1162 E 501 E 505 E + 520 E of 25th Augt. 1885 - Papers already by - Vide also Code paras 932 + 942 - D.C. 164 C

2. The Executive Engineer has forwarded the Medical Officer's Reports to the Commandant Sappers and Miners at Bangalore.

3. The large well work on which the party of Sappers was employed has been stopped at the requisition of the Medical Officer and the Dy Asst Adjt Genl under the orders of the General Commanding the ~~Division~~ Brigade

I have the honor to be
Sir
Your most obt Servant.

Lt. Col RE
Supdg. Engineer
III Circle

No 1538 Cay 22nd Sept/85

Recorded

Ans.
16-9-85

16-9-85

No 520 Cay 25-8-85
" 505 " 24-8-85
" 501 " 22-8-85
" 462 " 15-8-85
" 448 " 14-8-85
" 434 " 11-8-85
" 422 " 7-8-85
" 412 " 5-8-85
" 398 " 31-7-85
" 265 " 23-7-85
No 3 1651 Way 15-7-85
" 1547 Way 2-7-85
No 4 1413 Day 16-6-85
Military Deptt 2964 Way 1-12-84

Demi
22/9/85

From

The Superintending Eng.

III ~~Int~~ Circle,

To

The Chief Engineer
P.W. Deptt

Dated 15th
Recd. 16 } September 1885.

ENCLOSURES.—

No 1538 Cay 22-9-85

No. 1237.

Tullukam & Anthony

Reporting the death from Cholera of two Sapper privates named ——

Wto

No 1458.

Bellary 7th October 1885

From

The Executive Engineer
Bellary Division

To

The Superintending Engineer
III Circle Bellary

Sir

I have the honor to inform you that I have this day reported to the Military Authorities that it has been determined to close the well sinking operations in the Large Well, since the main object aimed at viz the augmentation of the water supply has been fully realized; even before the late heavy rainfall, the increased supply amounted to nearly double the usual quantity.

Encls:
1. Diagram

I have suggested that the Sapper Detachment should be allowed to return on or about the 10 instant (saturday); by which date the whole of the Tools & Plant &c can be cleared away.

The following is a succinct account of the Well operations as reported on by the Sergeant in charge:-

A shaft or sinking (5 ft in diameter) was sunk at the eastern end of the Large Well (vide Diagram) through decomposing Felspathic Granitic Rock by means of Steel

16-10-85

Jumpers at an average rate of 10" to 12" inches per day. As the sinking was carried on, it was observed that the water found its way into it through a thin white vein presumed to be decayed quartz which vein contained from the 3 feet level to the 13 feet level of the sinking. At the latter point another vein somewhat wider was met with which followed a horizontal course and through which the water flowed in more copiously until the inflow amounted to about 5 gallons per minute. The sinking has been continued to a further depth of 3 feet or 16 feet in all and as a much harder texture of the same class of Granite Rock has been met with at this level and as no fresh springs seem to exist below the 13 feet line, it has been decided on to close the work. Moreover the extra supply of water has increased fourfold. A channel connection 3 feet broad and 2½ feet average depth has been opened out between the new sinking and the basin, from which the water is drawn out daily and the latter has been deepened 4 feet.

This work has been carried out most satisfactorily by the Sapper Detachment under the direct supervision of Sergeant Davis R.E, who has given considerable attention to the work and shown himself to be a very Capable Supervisor, also very steady in Conduct and respectful in demeanour.

The progress of the work has been most unfortunately disturbed first of all by Cholera having broken out amongst the Sappers and secondly by the unprecedented rainfall of 8" or 9" inches within the last fortnight.

I have the honor to be
Sir
Your most obed.t Servant
(Signed) S.C. Clarke Major R.E
Executive Engineer

(Copy) Rec.d 1 Nov.r
No. 1453.
Submitted to the Chief Engineer P.W.D for information.
H. Clerke Lt Col R.E
Superintending Engineer
3rd Nov.r
Supt.g Engineers office
Bellary 16th October 1885