B. No 659 W 3 . 3 . 87
" 311 W 5 . 2 . 87
G.C. 961 W 23 . 4 . 85
No 539 D. 17 . 8 . 86
No 1603 W a/15th June 1887

Communicated to the Military Department for information in continuation of G.O. No 659 W d/ 3rd March 1887

The further report will be awaited

8. 6. 87

9/6/87

B IV/1576

To the :-
Supt Engr IV circle
Military Department

1577

O.L.S. 6/7. VI
M. 9. 6. 87

a. 8. 6. 87

11. 6. 87

577
1576

PWCbs 4324

(3)

From

Colonel J. Beatty R.E.,
Supg. Engineer, 4th Circle

To

The Chief Engineer,
P.W.D.

No. 1603 W a/ 15th June 1887

Dated 6th } June /87.
Despd. }

No. 240
EW

Trial Borings for wells in forage yard of Remount Depot:-

Forwarding for information copy of Barnes subdn. officers report regarding the progress of —.

311 of 5.2.87.

GOVERNMENT OF MADRAS

No. 94

Barur Sub Divisional Office
Barur. 28th May 1887.

From,

Mr. J. Cormac,
Sub Divisional Office,
Barur.

To,

The Executive Engineer,
Coimbatore Division.

Sir,

With reference to your Memo: No. 420 dated 21st May/87 I have the honor to state that the trial borings for wells in the forage yards of the Remount Depôt are now in progress, and that the trial pit in the Remount lines has been excavated to a depth of 18 feet; the excavation will be continued until rock is met with or water obtained: at present decomposed rock is being brought up and so far as as I can judge hard rock will not be come across for sometime.

2. At the stud lines, the pit has been excavated to a depth of 10 feet, through red gravel: I think water will be obtained in this place when we have gone down about 18 feet more; rock is not likely to be met with in this place.

3. A further report will be submitted to you as soon as results are obtained.

I have &c

(Sigd) J. Cormac.
Sub D. C. Officer.

No. 240/RW

Copy. Forwarded to the Chief Engineer, P. W. Department for information with reference to Government order No. 659W of 3rd March 1887.

L. Beatty. Colonel. R.E.
Supg: Engineer 4th Circle

Supg Engineer's Office
4 Circle
Coimbatore 6th June
1887

Military Buildings - Stables.

No. 1122

Government of Madras.

MILITARY DEPARTMENT,

Fort St. George, the 25th February 1887.

From the Superintendent, Reserve Remount Depôt, Hosur, No. 541, dated 11th August 1886, suggesting certain measures for the supply of water to the Tanks which are being constructed in the Forage Yards of the Remount Depôt.

Proceedings of Government, P.W.D., No. 311-W, dated 5th February 1887, regarding the construction of Wells in close proximity to the cistern in the Forage Yards of the Remount Depôt.

From the Superintendent, Reserve Remount Depôt, Hosur, to the Secretary to Government, Military Department, No. 1357, dated 19th February 1887.

I have no doubt that wells would be the best means of filling the cisterns, if water can be obtained by sinking wells near the cisterns. This might be ascertained by, in the first instance, sinking tube wells, but I much fear that rock will be met with.

Wells in that situation would also be of incalculable benefit to the Depôt itself, the whole water for which has to be carted a long way.

2. The Depôt has neither the labor nor could it spare its few Water Carts to fill the cisterns- and the first water put in would probably go bad weeks before the cisterns were full.

Water

3. Water plants &c., would probably not grow in such a cistern, nor, if they did, would they keep such a body of water clean and healthy.

Order. Ordered that the remarks of the Superintendent, Reserve Remount Depôt, be communicated, for consideration, to the Public Works Department, with reference to the doubt expressed in para. 1

(True Extract)

A. Kenney Herbert Lt. Colonel,
Secretary to Government.

To,
The Public Works Department.
" Superintendent, Reserve Remount Depôt, Hosur.

311 w 5.2.87.
539 D 17.8/86.
961 w 23.4.85
656 C 27.3.85
3131 w 19.12.84

No 659 W d/ March 3d/87.
B

Communicated,
with reference to G.O.
No. 311 W d/ 5th Feby/87
to the S.E. IV Circle
who will have a
trial boring made
on the site of the
proposed wells
& report the result

1.3.87

1/3/87.

~~S.E. IV Circle~~
~~Mily Dept~~

Desp 3/3/87.
C.r. 3/3.

P.W.C. No 1591

R 28.2.87

No 659 W d/ March 3d/87.

With the orders

No 38

Executive Engineer's Office
Coimbatore 21st January 1887

From

The Executive Engineer,
Coimbatore Division.

To

The Superintending Engineer
Fourth Circle

Sir,

With reference to your No 399/C.I. of 18th August 1886, I have the honor to report as follows:-

2. The capacity of the larger cistern is 2560 cubic feet and the weight of water it will contain, about 160,000 lbs.

3. The water casks probably do not contain more than 126 gallons or say 1260 lbs, and therefore to fill the tank 128 trips will have to be made; or if all the eleven carts of the Depôt are employed, each cart will

will have to make 11¾ trips.

4. To fill the cistern in the Remount Lines from the well in No 9 paddock in one day, each cart would have to travel nearly 6 miles, while in addition there would be the considerable labor in filling the water casks. Mr: Cormac has suggested to me that the cisterns once being full the water might be kept in a wholesome condition by the introduction of aquatic plants and by the periodical immersion in the water of nets containing charcoal. How far this would answer the purpose I cannot say, it might be tried in the first instance if the cisterns could be once filled.

5. If this does not answer, I do not think we can look for a supply of water from the sources indicated by the Superintendent, Remount Depot, in his letter No 541 of 11th Augt/86.

Water

Water might be raised by using pulsometers, but both machinery and piping would be costly and require an Establishment to look after them.

6. The best way will be to sink new wells in the vicinity of the cisterns and to work them by bullock runs.

7. These wells would besides being a source of supply to the cisterns, constitute a great improvement to the lines generally.

8. The wells would cost approximately Rs: 500 each.

9. In this connection, I may mention that on my last tour of inspection to Hosur experiments were made with the extincteurs recently got for the Depôt, and I am sorry to say they were a failure, in that the charge of one extincteur was insufficient to make much impression on the fire that was kindled.

10. They should be kept ready charged

charged, and might be useful at the beginning of fires, if promptly brought into action.

I have, &c.,

Signed O. V. Boddy Captn., R.E.,
Ex: Engineer

No. 38/E.W.

Copy - Forwarded to the Chief Engineer, P. W. Department with reference to his endorsement No. 539 D of 17th August 1886 on the letter from the Superintendent, Remount Depôt, Hosur, herewith returned; and the undersigned strongly recommends the construction of the wells mentioned in para 6 of the Executive Engineer's letter.

Enclosure

Camp Cochin
29th Jany: 187

J. Beatty Col: R.E.,
Supg: Engineer, 4th Circle.

539 D 17.8.86 3131 [illegible] 19.12.84
96 [illegible] 23.4.85
656 C 27.3.85

B

Communicated to the Military Dept. with reference to Endorsement No. 4923 dated 16 Augt. 86 on letter from the Supt. Reserve Remount Depot, No. 541 d/ 11 Aug. 86 which will be returned in original.

2. If desired the Suptg. Engr. will be requested to submit a detailed Estimate for the number of wells that may be considered necessary.

3.2.87

3/2/87

Mily. Dept. with one Enclo
S. E. IV Circle

Despd. 5-2.87.

28/2 9/2

P.W.C. No. 773

From

Col: J. Beatty R.E.,
Supg Engr; 4th Circle

To

The Chief Engineer,
P. W. Department.

Dated 29th Jany: /87.

R. 2.2.87

No. $\frac{38}{E.W.}$

Enclo: 1 2

B. No. 311 W d/ 5-2.87

Cisterns in Forage yards of the Remount Depôt:-

Recommending the construction of wells in the close proximity to the —

With orders

J.d. 24/4

E24/4

188**6**.

P. W. DEPARTMENT.

Current No. 646 a

From

The Military dept

Enclos.—

No. 4923

Dated August 16. 1886

Received " 17. "

Subject.

Remount Depot - Hosūr

Referring letter from the Supdt Reserve Remount depot Hosūr suggesting certain measures for the supply of water to the tanks which are now being constructed in the forage yards of the

Disposal.

No. 539 D. Dated Aug. 17. 1886

Referred to the S.E. IV Circle for favour of early report

O.L.S. 24/8. (Sd/) J.S.S.

S.E. IV Circle with orgl paper
Despd 17.8.86

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

13th December 1884, No. 6217.

Ordnance Department—Stores.

Read the following papers :—

No. 157. *From Lieut.-Colonel A. M. RAWLINS, Officiating Superintendent, Reserve Remount Depôt, Hosúr, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Hosúr, 2nd September 1884, No. 567.*

With reference to Proceedings of Government, No. 4198, dated 28th August 1884, sanctioning the issue of two fire-engines to the Remount Depôt, Hosúr, I have the honor to request you will be good enough to let me know whether any steps have been taken for the supply of water. If not, I would strongly recommend the construction, on *emergency*, of four pucka tanks referred to in para. 3 of my letter therein published.

No. 4347.

Referred, with the previous paper, to the Public Works Department, for favor of an approximate estimate of the cost of providing the number of tanks absolutely necessary.

(By Order,)

Ootacamund,
5th September 1884.

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

No. 158. *From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department; dated Coimbatore, 20th October 1884, No. 475-E.W.*

One enclosure.

With reference to your memorandum, No. 640-E., of 9th ultimo, I have the honor to report that the required approximate estimate for tanks, &c., at Hosúr will be as follows :—

	RS.
Four tanks of a capacity of 2,500 cubic feet, each at Rs. 750 ...	3,000
Two sheds for the fire-engines, at 500 rupees each	1,000
Total ...	4,000

2. I send the Executive Engineer's report on the subject for your information and have requested him to furnish detailed estimates as early as practicable.

From Captain O. V. BODDY, R.E., Executive Engineer, in charge of Barur Project Division, to the Superintending Engineer, IV Circle; dated Coimbatore, 18th October 1884, A.

With reference to your endorsement, No. 189, of 10th September 1884, I have the honor to inform you that the Superintendent, Remount Depôt, wishes four tanks to be constructed—

- One to the hay shed near sick lines;
- One to long stables;
- One to stud lines;
- One to hay shed, stud lines.

2. How far they are absolutely necessary it is hard to say, since from the formation of the depôt at Hosûr no accident from fire has ever happened. It will, however, be advisable to be prepared for the contingency of a fire occurring. In the hay sheds the tanks can be conveniently erected in proximity to the stacks, and, should a stack catch fire, the tank would be very useful, as probably the remaining stacks would be saved.

3. The long stables being 400 feet long, it would require a great length of hose to reach a fire occurring at an end of the building, supposing the tank to be constructed in a central position.

4. The tank might be made a long narrow one.

5. A considerable length of hose would also be wanted if a fire occurred in certain parts of the stud lines.

6. And here I would remark that the possibility of a fire occurring in these lines is very remote; the only inflammable matter, besides the wood work of the roof, being the bedding.

7. I do not know the power of the fire-engines to be supplied, but probably a capacity of 2,500 cubic feet would allow of a continuous stream being kept up for half an hour.

8. Such a tank, with burnt stones in chunam foundations and brick in chunam superstructure, will approximately cost Rs. 750, or for four tanks Rs. 3,000.

9. Concrete in cement throughout would be a better material if the work could be done departmentally.

10. An additional expense will be the housing of the fire-engines.

11. I think a very efficient method of protection, under the circumstances of the buildings of the depôt, would be by the use of *extincteurs.*

12. I witnessed some experiments made with them last year at Chatham, in competition with the working of a hose connected with a fire plug, and, for celerity and efficiency in stopping a fire at the *outset, they* are well adapted. The machine consists of a metal receptacle filled with water and fitted with a nozzle and tap.

13. The power for expelling the water is compressed air; those I saw were fitted with straps in order that they might be attached to men's backs, but they could be made to run on wheels, and, being always kept charged, could be wheeled up at once to the site of a fire, and the tap being turned, such a fire as is least unlikely to occur at the depôt—as bedding for instance—would be at once extinguished.

14. Probable cost of each, £25; and two to each lines would be sufficient.

No. 1779-C.

Forwarded to the Military Department, with advertence to endorsement in that department, No. 4347, dated 5th September 1884, herewith returned.

CHEPAUK,
3rd *November* 1884.

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

No. 159. *Memorandum from Lieut.-Colonel A. M. RAWLINS, Officiating Superintendent, Reserve Remount Depôt, Hosúr, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Hosúr, 17th November* 1884, *No.* 870.

In returning papers received with his docket memorandum, No. 5526, dated 10th instant, the undersigned has the honor to state that the fire-engines sanctioned in Proceedings of Government, No. 4198, dated 28th August 1884, have not been sent for, owing to steps not having been taken for the supply of water.

2. Arrangements have been made to secure the fire-engines in the remount and stud line hay sheds.

3. The undersigned not having seen the *extincteurs* referred to in para. 11 of Captain Boddy's letter, A., dated 18th ultimo, is unable to pass any opinion on them; but should think they would probably be of service in the stables, where, if a fire occurred, it would probably be at first on a small scale, as the stalls are separated by mud walls; but should think they would scarcely be powerful enough to cope with a fire which had once taken hold in the stack yards.

No. 160. *Memorandum from Colonel S. CHAMIER, R.A., Inspector-General of Ordnance, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Fort St. George, 22nd November* 1884, *No. 106-G.*

There are no *extincteurs* on stock in this department.

No. 161. *From Lieut.-Colonel A. M. RAWLINS, Officiating Superintendent, Reserve Remount Depôt, Hosúr, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Hosúr, 1st December* 1884, *No.* 923.

In returning papers received with your memorandum, No. 5966, dated 28th November 1884, I have the honor to report, for the information of Government, that I think *extincteurs* would probably be sufficient for the protection of the stables, and in that case only two tanks would be required (one in each forage yard), which, as estimated, would reduce the cost to Rs. 1,500.

2. The sum of Rs. 1,000 estimated for sheds for the engines is not required, as arrangements to secure the engines have already been made in the remount and stud line hay sheds, as reported in my letter, No. 870, dated 17th November 1884.

No. 162. *From Lieut.-Colonel A. M. RAWLINS, Officiating Superintendent, Reserve Remount Depôt, Hosúr, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Hosúr, 9th December* 1884, *No.* 966.

With reference to your memorandum, No. 6064, dated 4th instant, I have the honor to report, for the information of Government, that I can provide water for the tanks and keep them full without entailing any extra expenditure.

No. 163. ORDER THEREON, 13th December 1884, No. 6217.

The Right Honorable the Governor in Council approves the construction of two water tanks at the Reserve Remount Depôt, Hosúr,—one in each forage yard. The necessary action in the matter will be taken by the Public Works Department in communication with the Superintendent of the Depôt.

2. The Inspector-General of Ordnance will be requested to procure two *extincteurs* from England at an early date, for use in the depôt lines.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

To the Superintendent, Reserve Remount Depôt, Hosúr.
,, Inspector-General of Ordnance.
,, Controller of Military Accounts.
,, Public Works Department.

Exd. P. L. Pereira.

No. 3131. Wd/19 Decr. 1884

Communicated to the Suptg: Engineer IV Circle, for submission of the requisite estimate -

(Signed) J.S.

S. E. IV Circle.

P.W.D.

Govt. of {1884} Madras.

MILITARY.

To

The SUPERINTENDENT, RESERVE
REMOUNT DEPOT, HOSUR,
&c., &c., &c.

Dated December, 13th.

Issued

Recd. *Encl.*

G.O., 13th December 1884, No. 6217.

No. 3131. Wd/19 Decr. 1884

DECEMBER.
Nos. 157—163.

Ordnance Department—Stores.

Reserve Remount Depôt, Hosúr.—Construction of two water tanks at the — approved, and the Inspector-General of Ordnance requested to procure two *extincteurs* from England for use in the depôt lines.

With order

70

Public Works Department, 1884-85.

Current No. 2603

Letter No. 125/E.W.

Dated the 20th March/85

From the S.E. IV Circle

NOTE OF REMARKS.

1. With reference to G. O. No. 3131 W. of the 19th Dec/84, the accompanying plans and estimate have been submitted for constructing [illegible] water cisterns for the supply of water to fire engines at the Remount Depôt at Hosur. The estimate amounts to Rs. 1,330.

2. One cistern is to be circular in ground plan, with a diameter 28¼ ft., and a depth of 4 ft. - The other cistern is to measure 40 ft. by 16 ft. with a depth of 4 ft. - In each case the masonry is to be burnt stone in mortar. Each cistern will have a sub-stratum of concrete

p

Sup

for

re

for foundation, 1 ft. thick. Also the flooring of each cistern is to be of concrete 3/4 ft. thick. The cross section of the cistern wall in each case is 3 ft wide at bottom, 1½ ft. at top, and height 4 ft. The batter of 1½ ft. is on the outside.

3. The estimate and plans have been countersigned by the Asst. Qr. Mr. Genl. of the Division.

24th March/85
BH

G 8A/3131 Way 19-12-84

1885.

P. W. DEPARTMEN

Current No. 2603

From

The Supg Engr. IV Circl

Enclos.—

No. 125 E.W.

Dated 20th March/85

Received 23 — " — "

Subject.

Fwds plans & Estimates for Constn 2 Cisterns to hold water for fire Engines at the Remoun Depôt Mathegeri.

Disposal.

No. 656C Dated 27th March/85

Submitted for the approval of Government in the Military Dept.

Sd/ J. Shaw Stewart
Chief Engr. P.W.D.

27/3

H.i. 9/4

70

23rd April 1885, No. 961 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 20th March 1885, No. 125 E.W.:—

With reference to G.O. No. 3131 W., of 19th December 1884, I have the honor to forward two plans and estimates, amounting to Rs. 1,330, for constructing two cisterns to hold water for the fire engines at the Remount Depôt, Matagiri, together with a report and site plan.

2. The estimates have been approved and countersigned by the Assistant Quartermaster-General of the division.

No. 656 C.

Submitted for the approval of Government in the Military Department.

Chepâk,
27th March 1885.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Chief Engineer, P.W.D.

No. 1890, Military.

Approved, with reference to Proceedings of Government (Military), No. 6217, dated 13th December 1884, and transferred to the Public Works Department.

(By Order.)

Ootacamund,
10th April 1885.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Offg. Secretary to Government.

Order—dated 23rd April 1885, No. 961 W., Public Works.

The estimates, amounting to Rs. 1,330, for constructing two cisterns to hold water for fire engines at the Remount Depôt, Hosúr, is sanctioned.

2. This sanction has been registered as Imperial Ordinary No. 3 W. of 1885-86, and classified as Military, Original Works.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with six enclosures.
" Examiner, Public Works Accounts.
" Military Department.

Exd. A. Grubert.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of 1885 Madras.

PUBLIC WORKS.

Dated April, 23rd.

Recd. Encl.

G.O., 23rd April 1885, No. 961 W.

APRIL.

Remount Depot, Hosur

Estimates for cisterns to hold water for fire engines at the —, sanctioned.

No. 125
Cw.

Superintending Engr's Office 4th Cir.
Coimbatore, 20th March 1885

From,

The Superintending Engineer,
4th Circle.

To,

The Chief Engineer
Public Works Department.

Enclosures
2 Plans × [illegible]
2 Estimates
1 Report
1 Site plan

Hosur

Sir,

With reference to G.O. No. 3131 W of 19th December 1884, I have the honor to forward 2 Plans and estimates amounting to Rupees 1,330 for constructing 2 cisterns to hold water for the fire Engines at the Remount Depôt Matagiri, together with a Report and site Plan.

2. The estimates have been approved and countersigned by the Assistant Quarter Master General of the Division.

I have the honor to be
Sir,
Your Most Obt Sert.

E. Beatty - Colonel R.E.
Superintending Engineer 4th C.

P.G. 13-12-84-157/63
" 28-8-84-455/8

G.O. 3131 W/19-12-84
No. 656 C/27-3-85

Chepauk
27th March/85

No. 656 C

Submitted for the approval of Government in the Military Department

Colonel R.E.
Chief Engineer P.W.D.

C.S.
25.1.85

No. 1890.

Approved, with reference to P.G. (Mily) No. 6217 of 13 December/84 and transferred to the Public Works Department.

By Order

A. Henry Herbert Lt. Col
Offg Secretary to Govt.

Ootacamund
10 April/85.
} 3131 W. 19-12-84

A.S. 13/4 Ooty: 17/4/85

Mily. 1885 B.L.

~~No 3370~~
No 170-5

From
The Supg. Engineer,
Fourth Circle.
To
the P.W.D.
No. 656.C.

23 MAR 85
DEPARTMENT

D/21 Mar
R/30

Dated 20th
Despd: 21st } March 1885.

15/4/85

No. 125
E.W.

Enc: 6. (3 plans)

Cisterns to hold water for Fire Engines:—

Forwarding 2 plates and estimates amounting to Rs. 1330 for constructing 2 — at the Remount Depot Mathegeri.

Endorsed

No. 961. W

Public Works Department.

Mily works

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 23rd April/85

Read the following

From the Suptg. Engineer IV Circle - H.E. No: 125 E.W. d/20th March 1885.
From the Military Department - H.E. No: 1890 d/10th April 1885.

The estimates ~~aggregating~~ amounting to Rs. 1,330, for constructing two cisterns to hold water for fire engines at the Remount Depot, Hosur, is sanctioned.

2. This sanction has been registered as Imperial, Ordinary, No: 3 W of 1885-86, and classified as Military, Original Works.

C.S.
17.4.85

20.4.85

D
2/5

To
The Suptg. Engr. IV Circle with 6 encls.
" Examiner P.W. Accounts
" Military Department.

814

W

O.L.S. 13/4

Oaty: 17/4/15 R. 23.4.15

Dd/S

33707

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated 24/4/85

Recd. Recd 27/4 - 9 am

Encl.

G.O., 23 Apl 1885, No. 961 W.

Remount Depôt,
=
Hosur
=
Ests. for cisterns to hold water for fire engines at the —, Sanctioned

7/6

Sd 24/4

E 24/4